

TOTAL SOURCE®

A brand of TVH®

MASTER CATALOGUE

EDITION 2018 · ENGLISH

passionate people
clear communication **happy customers**
smart solutions excellent experiences
strong ambitions

Dear customer,

In 1969 Paul Thermote and Paul Vanhalst began servicing and selling agricultural machinery, construction machinery and forklift trucks. Today, TVH is one of the most respected names in the material handling industry. Over the past 48 years we have grown from 2 founders to more than 6000 employees with offices and distribution facilities on every continent.

TVH is your all-round supplier for all quality parts and accessories for material handling, industrial vehicles and agricultural equipment. Be amazed by our extensive range of parts for all makes. In addition to some own brands, such as TotalSource®, TVH has also entered into partnerships with top quality brands.

TotalSource® comprises all parts and accessories sold by TVH for material handling and industrial equipment worldwide. TotalSource® offers our customers the widest range of brands and products with multiple options to provide the correct part for whatever environment you are working in.

Established in the USA, TotalSource® parts and accessories are your best choice for products and services with TVH's industry leading customer support, including customer service centers, technical support teams, online research programs, online and in-person training courses and an unrivaled eCommerce system.

We are committed to being the worldwide leading supplier of quality parts and accessories for the material handling, industrial and agricultural equipment industry. While we take pride in our quality products, we know that without our customers, we would not exist. We are continually striving to increase our product range and to improve our services in order to be the true one-stop shop for our valued customers.

We are looking forward to working with you.

The Thermote & Vanhalst families

Watch our company movie.



HOW CAN WE SERVE YOU?



TVH PARTS

All parts, all makes

Computer-controlled stock management
> 500 000 m² of warehousing

One-stop shop
> 750 000 stock items

Webshop & online support
> 37 000 000 known references

Technically skilled employees
Assistance in 37 languages
64 nationalities

65 parts branches worldwide
Happy customers in over 170 countries
Same-day shipment, next-day delivery

Quality is our priority

Is quality also a priority in your business? Rely on TVH as your partner.

In-depth product knowledge and specific testing equipment allows us to continuously improve processes and quality standards.



Strong brands, guaranteed quality

Reliable products and services contribute to the day-to-day success of your company. That's why we choose top quality brands for our maintenance, repair and operation products, just like you do. TotalSource is the umbrella brand of TVH for all parts, (warehouse) accessories and maintenance, repair and operations products for material handling and industrial vehicles.

In addition to those, our strong house brands guarantee an excellent range and quality standard for our mechanical and hydraulic attachments, internal transport equipment, battery chargers and accessories.

TOTALSOURCE®

CAM attachments

ENERGIC Plus

Climax



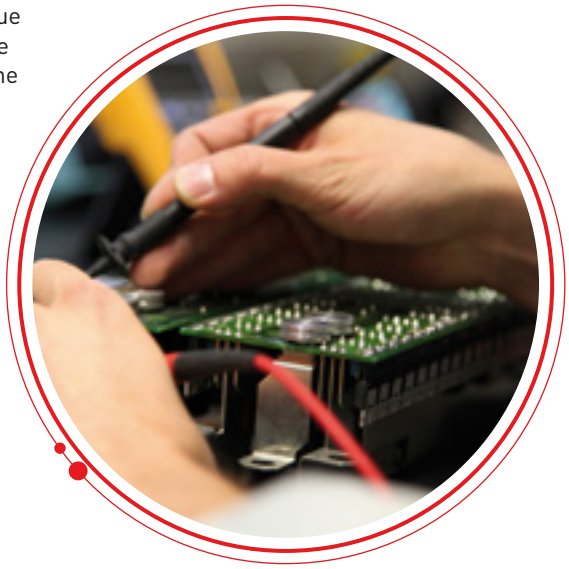


What can you expect more?

Our offer of **reconditioned parts** is unique in the market. Our technicians follow the strictest quality procedures to finalise the reconditioning. After extensive testing, the parts are then placed in stock.

We also repair **electronic parts** in our high-tech electronic department. Our range includes printed circuit boards, electronic speed controllers, displays, chargers, contactors, joysticks, accelerators and directional switches.

Reconditioned
Recycled
Reliable



TVH BAY

Discover our outlet store with new and second-hand products at rock-bottom prices.

Go to **www.tvh.com/tvhbay**



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Visit our webshop whenever and wherever you want.
Request your login details now and benefit from the many advantages offered in MyTotalSource!

myTS MyTotalSource Mobile

Discover the possibilities of the **MyTotalSource app**.
The MyTotalSource app offers you the possibility to request offers, place orders and scan bar codes of references from your smartphone.

For any questions, call or mail our help desk for free support:
T +32 56 43 48 66
ecommerce@tvh.com

TVH®

www.tvh.com

TVH EQUIPMENT

Second-hand equipment & Electric warehousing

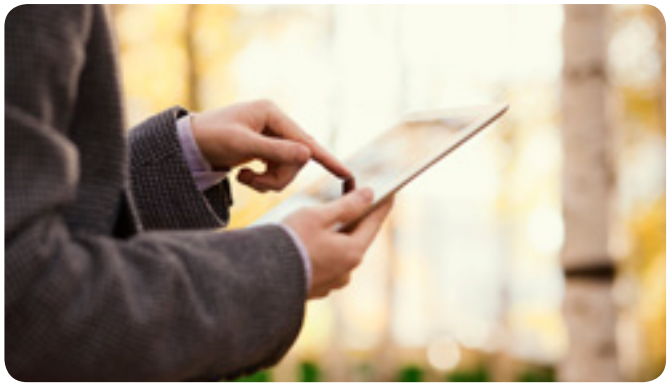
TRADE

- 600 lift trucks in stock
- 300 aerial work platforms
- Telehandlers and all-terrain trucks
- Masts and attachments

Go to **www.tvh-used-equipment.com**



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NICE TO KNOW

NICE TO KNOW

Contents

Welcome to the TotalSource Master catalogue. This catalogue aims to illustrate the many product groups we have available in stock for forklifts and telehandlers. However, our product range is not limited to the products featured in this catalogue. This catalogue merely contains universal products within our range. When you require more specific information or are interested in seeing our full range, we invite you to have a look at our detailed product catalogues.

The selection of products in this catalogue aspires to aid you in choosing the right product for your needs. The products are focused on the MPA (material handling parts & accessories) segment, when the product relates to a different segment, this will be indicated with the appropriate icon. If you are interested in more specific catalogues related to specific parts, have a look at our detailed product catalogues and segment publications on our website (www.tvh.com/downloads).

In the master catalogue, we offer universal products for:
- Cabin & chassis
- Electrical equipment
- Engine
- Hydraulics
- Masts & booms
- Transmission & drive train

How to use this manual

The master catalogue is divided into various chapters, starting with a clear table of contents which is translated into several languages. The six aforementioned product categories each have their own dedicated chapter. These chapters contain a wide variety of products, each displayed with their corresponding product information, a clear picture and a technical drawing of the product. In addition to this information, brand logos are also provided to clarify the part's origin in order to facilitate your purchase decision. Occasionally, one, two or three of below icons could be featured as well.
For your comfort, we have incorporated an index in the back of the catalogue where we included synonyms.

Icons



A product indicated with the Best Buy logo, was especially selected based on our know-how of the product range and the market. These products will guarantee the best value for money and – thanks to their universal character – will fit most common applications.

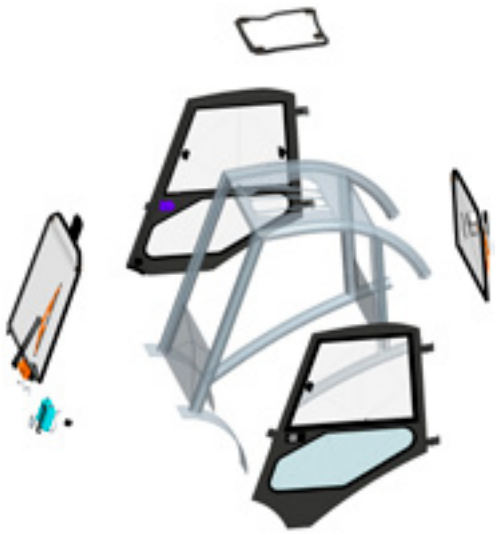


All TVH products come standard with a one-year warranty. This is not indicated in the catalogue, but always applies. However, when a product has an adjusted warranty, this will be indicated with the warranty logo.
Warranty icons include:
- 2Y: 2-year warranty
- 3Y: 3-year warranty
- Life: lifetime warranty



CABIN & CHASSIS

CAB'EKO CABINS





In need of a new cabin for your lift truck?

Then TVH is the place to be. These cabins are of excellent quality and provide a safe working environment for your drivers.

Advantages:

- Strong
- Pre-assembled
- Good price/quality ratio
- Structure: left- and right-hand side, windshield, roof and rear side available separately
- Fast delivery

Type	Linde 386 E14-E15-E16C	Linde 386 E12, E16 (L/P/H/PH), E18 (L/PH), E20 (PH/PL/PHL)	Linde 391	Linde 392/393	Linde 394	Toyota 8FDF/FGF15-35	Caterpillar/Mitsubishi Grendia NTD 15-18	Caterpillar/Mitsubishi Grendia NTD 20-35	Hyster H2.0-3.5 FT; Yale GDP/GLP20-35VX
Steel cab	101MC3413		101MC3419	101MC3805	101MC3424	101MC3424	101MC3430	101MC3436	101MC3442
Steel cab with sliding rear window							101MC3797		
Windshield	101MC3414	101MC3414	101MC3420	101MC3806	101MC3425	101MC3425	101MC3431	101MC3437	101MC3443
Roof panel	101MC3415	101MC3415	101MC3415	101MC3807	101MC3426	101MC3426	101MC3432	101MC3438	101MC3444
Rear panel	101MC3416	101MC3416	101MC3421	101MC3808	101MC3427	101MC3427	101MC3433	101MC3439	101MC3445
Rear panel with sliding rear window							101MC3798		
Metal door LH	101MC3417		101MC3422	101MC3809	101MC3428	101MC3428	101MC3434	101MC3440	101MC3446
Metal door RH	101MC3418		101MC3423	101MC3810	101MC3429	101MC3429	101MC3435	101MC3441	101MC3447

CANVAS CAB



A canvas cab consists of a front screen (laminated glass with rubber gasket set in a powder-coated steel frame) and a canopy (see further).
A wiper motor kit (12 V or 24 V depending on the truck) is also included as standard.

CANOPY – CANVAS CAB WITHOUT FRONT SCREEN



A canopy consists of a set of canvas doors, a canvas rear and a canvas roofpanel. All our canvas canopies are designed and manufactured to the highest quality standards. All seams are double-stitched. Canopy components are secured in place by a combination of heavy-duty velcro and zips. All canopies come with clear PVC windows that are made as large as possible for maximum visibility.

FRONT SCREEN



Laminated glass with rubber gasket set in a powder-coated steel frame, including a wiper motor kit (12 or 24 V depending on the truck)

CANVAS CAB WITH STEEL ROOF



Same as a canvas cab, except for the roof panel. Instead of a canvas roof, a roof panel constructed of powder-coated steel with sound suppression and polycarbonate glass is delivered.

STEEL CAB WITH CANVAS DOORS



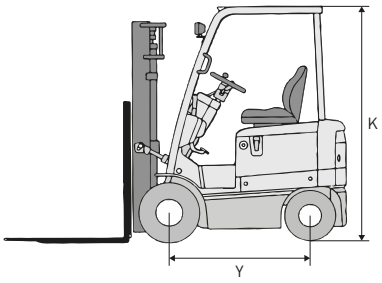
Same as a canvas cab with steel roof panel, except for the rear. The rear consists of 2 parts: the upper half is a powder-coated steel panel with laminated glass set in rubber; the lower half is made of canvas with clear window and zips to allow seat and bonnet to be lifted for access. Wiper motor is optional.

CANVAS CABS AND FRONT PANELS









Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
Used for Toyota						
FBM16	5-series	101MC1474	101MC1862	101MC2227	101MC2585	101MC2602
FBM20-25	5-series	101MC1475	101MC1863	101MC2228	101MC2586	101MC2603
FBM30	5-series	101MC1476	101MC1864	101MC2229	101MC2587	101MC2604
FBMF16	6-series	101MC1477	101MC1865	101MC2230	101MC2588	101MC2605
FBMF20/25	6-series, till Oct 2002	101MC1478	101MC1866	101MC2231		101MC2606
FBMF30	6-series	101MC1479	101MC1867	101MC2232	101MC2589	101MC2607
7FBMF16/18		101MC1480	101MC1868	101MC2233	101MC2590	101MC2608
7FBMF20/25		101MC1481	101MC1869	101MC2234	101MC2591	101MC2609
7FBMF30-35		101MC1482	101MC1870	101MC2235		
FBESF10-15		101MC1483	101MC1871	101MC2236	101MC2592	101MC2610
2FBE10-13		101MC1484	101MC1872	101MC2237	101MC2593	101MC2611
2FBE15-18		101MC1485	101MC1873	101MC2238	101MC2594	101MC2612
4FB15		101MC1486	101MC1874	101MC2239	101MC2595	101MC2613
4FB 20-30		101MC1487	101MC1875	101MC2240	101MC2596	101MC2614
5FBE10-13		101MC1488	101MC1876	101MC2241	101MC2597	101MC2615
5FBE15-18		101MC1489	101MC1877	101MC2242	101MC2598	101MC2616
5FB15		101MC1490	101MC1878	101MC2243		
6FB10-18		101MC1491	101MC1879	101MC2244	101MC2599	101MC2617
6FB20-25		101MC1492	101MC1880	101MC2245	101MC2600	101MC2618
6FB30		101MC1493	101MC1881	101MC2246	101MC2601	101MC2619
7FB15		101MC1494	101MC1882	101MC2247		
7FB18		101MC1495	101MC1883	101MC2248		101MC2620
7FB20-25		101MC1496	101MC1884	101MC2249		101MC2621
7FBEF15		101MC1497	101MC1885	101MC2250		101MC2622
7FBEF16-18		101MC1498	101MC1886	101MC2250	101MC2900	
7FBEF20		101MC1499	101MC1887	101MC2251		
4FD/FG15		101MC1500		101MC2252		
5FD/FG15-18*** 5FDF/FGF 15-18***		101MC1501	101MC1888	101MC2253	101MC2901	101MC2623
5FD/FG20-30*** 5FDF/FGF 20-30***		101MC1502	101MC1889	101MC2254	101MC2902	101MC2624
5FD/FG35-45*** 5FDF/FGF 35-45***		101MC1503	101MC1890	101MC2255	101MC2903	101MC2625
5FD50-70		101MC1504	101MC1891	101MC2256		
5FD80						
6FD/FG15-18***		101MC1505	101MC1892	101MC2257	101MC2904	101MC2626
6FDF/FGF15-18		101MC1506	101MC1893	101MC2258	101MC2905	101MC2627
6FD/FG20-30***		101MC1507	101MC1894	101MC2259	101MC2906	101MC2628
6FDF/FGF20-30		101MC1508	101MC1895	101MC2260	101MC2907	101MC2629
6FD/FG35-45*** 6FDF/FGF 35-45***		101MC1509	101MC1896	101MC2261	101MC2908	101MC2630
7FD/FG15-18***		101MC1510	101MC1897	101MC2262	101MC2909	101MC2631
7FDF/FGF15-18		101MC1511	101MC1898	101MC2263	101MC2910	101MC2632
7FD/FG20-30***		101MC1512	101MC1899	101MC2264	101MC2911	101MC2633

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
7FDF/FGF20-30		101MC1513	101MC1900	101MC2265	101MC2912	101MC2634
7FD/FG35-45***		101MC1514	101MC1901	101MC2266	101MC2913	101MC2635
7FDA50***		101MC1515		101MC2267		
7FDF/FGF35-45		101MC1516	101MC1902	101MC2268	101MC2914	101MC2636
8FDF/FGF 15-18		101MC1517	101MC1903	101MC2269		
8FD/FG 15-18		101MC1518	101MC1904	101MC2270		101MC2637
8FD/FG 20-30***		101MC1519	101MC1905	101MC2271		101MC2638
8FDF/FGF 20-30***		101MC1520	101MC1906	101MC2269		101MC2639
Used for Daewoo/Doosan						
B13-15 T		101MC1521	101MC1907	101MC2272	101MC2915	101MC2640
B18 T		101MC1522	101MC1908	101MC2273	101MC2916	101MC2641
B13-15 T-2		101MC1523	101MC1909	101MC2274	101MC2917	101MC2642
B18 T-2		101MC1524	101MC1910	101MC2274	101MC2918	101MC2643
B16X		101MC1525	101MC1911	101MC2275	101MC2919	101MC2644
B16X-5		101MC1526	101MC1912	101MC2276		
B18-20X		101MC1527	101MC1913	101MC2277	101MC2920	101MC2645
B18-20X5		101MC1528	101MC1914	101MC2278		
B15 T-5		101MC1529	101MC1915	101MC2279		
B20 T-5		101MC1530	101MC1916	101MC2280		
B20-25S		101MC1531	101MC1917	101MC2281	101MC2921	101MC2646
B25X		101MC1532	101MC1918	101MC2282	101MC2922	101MC2647
B25X	Model 2006 Doosan	101MC1533	101MC1919	101MC2283		
B22-25X5		101MC1534	101MC1920	101MC2284		
B30X		101MC1535	101MC1921	101MC2285	101MC2923	101MC2648
B30-35X5		101MC1536	101MC1922	101MC2286	101MC2924	
B40X5		101MC1537	101MC1923	101MC2287		
B30S		101MC1538	101MC1924	101MC2281	101MC2925	101MC2649
B20-25S-2		101MC1539	101MC1925	101MC2288	101MC2926	101MC2650
BC20-30S		101MC1540	101MC1926	101MC2289	101MC2927	101MC2651
B30S-2		101MC1541	101MC1927	101MC2290	101MC2928	101MC2652
D/G15-18S		101MC1542	101MC1928	101MC2291	101MC2929	101MC2653
D/G15-18S-2, G20SC-2		101MC1543	101MC1929	101MC2292	101MC2930	101MC2654
D/G15-18S-2, G20SC-2	Model 2006: series EM0JD & EM0J6	101MC1544	101MC1930	101MC2293		
D/G15-18S-5, G20SC-5		101MC1545	101MC1931	101MC2294		
D/G20-30S-2		101MC1546	101MC1932	101MC2295	101MC2931	101MC2655
D/G 20-30S-3	Height: 2115 mm	101MC1547	101MC1933	101MC2296	101MC2932	101MC2656
D/G20-30-S-3* G20-30E-3*	Height: 2185 mm	101MC1548	101MC1934	101MC2297	101MC2933	101MC2656
D/G20-33-S-3, D/G20-33-S-3, G20-30P3, G25-33P3*	Model 2006 Doosan: series EM0KL, EM0KM, EM0KH, EM0KJ & EM0KK	101MC1549	101MC1935	101MC2298	101MC2934	101MC2657
D20-33-S-5, G20-30 E/P5, D/G35 C5*		101MC1550	101MC1936	101MC2299	101MC2935	101MC2658
D30G	Chinese model	101MC1551	101MC1937	101MC2300		
D35-45S		101MC1552	101MC1938	101MC2301	101MC2936	101MC2659
D35-45S-2		101MC1553	101MC1939	101MC2302	101MC2937	101MC2660
D35-45 S5		101MC1554	101MC1940	101MC2303		
D/G40-50SC-2		101MC1555	101MC1941	101MC2304	101MC2938	101MC2661
D/G40-50SC-2	Model 2006: series EM0K7 & EM0K9	101MC1556	101MC1942	101MC2305		101MC2662
D50-70		101MC1557	101MC1943	101MC2306	101MC2939	101MC2663
D50-70S EN D50-70 S-2		101MC1558	101MC1944	101MC2307	101MC2940	101MC2664
Used for Hyster						
E1.25-1.75XL		101MC1559	101MC1945	101MC2308	101MC2941	101MC2665
E1.50-1.75XM, E2.00XMS		101MC1560	101MC1946	101MC2309		101MC2666
E2.50XM		101MC1561	101MC1947	101MC2310		
H1.251.75XL		101MC1562	101MC1948	101MC2311	101MC2942	101MC2667

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
H2.00-3.00XL	Series A177B170684	101MC1563	101MC1949	101MC2312	101MC2943	101MC2668
H2.00-3.00XL	Series B177B170684-C177B5053	101MC1564	101MC1950	101MC2313	101MC2944	101MC2669
H2.00-3.00XL	Series from C177B5054 and onwards	101MC1565	101MC1951	101MC2314	101MC2945	101MC2670
Fortens H1.60FT-H2.00FT(S)		101MC1566	101MC1952	101MC2315		101MC2671
Fortens H2.00-3.50FT		101MC1567	101MC1953	101MC2316		101MC2672
Fortens H4.00-5.50FT		101MC1568	101MC1954	101MC2317		
H3.50-5.00XL	Series F5A9456, 86-'91	101MC1569	101MC1955	101MC2318	101MC2946	101MC2673
H3.50-5.00XL	Series G005	101MC1570	101MC1956	101MC2319		101MC2674
H7.00XL	Series F006A10013	101MC1571	101MC1957	101MC2320		101MC2675
1.50-1.75XM, H2.00XMX	Before july 2000	101MC1572	101MC1958	101MC2321	101MC2947	101MC2676
1.50-1.75XM, H2.00XMX	Off July 2000	101MC1573	101MC1959	101MC2322	101MC2948	101MC2677
2.00-3.00XM, H2.50-3.00XMX, H2.50-3.00XML	Before July 2000	101MC1574	101MC1960	101MC2323	101MC2949	101MC2678
2.00-3.00XM, H2.50-3.00XMX, H2.50-3.00XML	Off July 2000	101MC1575	101MC1961	101MC2324	101MC2950	101MC2679
3.50XM-4.00XM-5, H4.00XMS-6	1st version	101MC1576	101MC1962	101MC2325	101MC2951	101MC2680
3.50XM-4.00XM-5, H4.00XMS-6	From series K5A3238X	101MC1577	101MC1963	101MC2326	101MC2952	101MC2681
H4.50-5.00XM	K005	101MC1578	101MC1964	101MC2327		
Used for Nissan						
J01/J02 series 700000-800000 European		101MC1579	101MC1965	101MC2328	101MC2953	101MC2682
J01, J02 Japanese**		101MC1580	101MC1966	101MC2329	101MC2954	101MC2683
J01/J02 series 300000 Japanese import	From 2001/01	101MC1581	101MC1967	101MC2330	101MC2955	101MC2684
H01**		101MC1582	101MC1968	101MC2331	101MC2956	101MC2685
H02**		101MC1583	101MC1969	101MC2332	101MC2957	101MC2686
F03 12 V (gas)		101MC1584	101MC1970	101MC2333	101MC2958	101MC2687
F03 24 V (diesel)		101MC1585	101MC1971	101MC2334	101MC2959	101MC2688
F04 12 V (gas)		101MC1586	101MC1972	101MC2335	101MC2960	101MC2689
F04 24 V (diesel)		101MC1587	101MC1973	101MC2336	101MC2961	101MC2690
F05 12 V (gas)		101MC1588	101MC1974	101MC2337	101MC2962	101MC2691
F05 24 V (diesel)		101MC1589	101MC1974	101MC2338	101MC2963	101MC2692
P (F)D01		101MC1590	101MC1975	101MC2339	101MC2964	101MC2693
P (F)D02		101MC1591	101MC1976	101MC2340	101MC2965	101MC2694
Q02		101MC1592	101MC1977	101MC2341	101MC2966	101MC2695
GQ02		101MC1593	101MC1978	101MC2342	101MC2967	101MC2696
P/F L01		101MC1594	101MC1979	101MC2343	101MC2968	
P/U/Y L02		101MC1595	101MC1980	101MC2344	101MC2969	101MC2697
P02		101MC1596	101MC1981	101MC2345		
Y1F1		101MC1597	101MC1982	101MC2346		
Y1F2		101MC1598	101MC1983	101MC2347		
Used for TCM						
FB20-25 H5		101MC1599	101MC1984	101MC2348	101MC2970	101MC2698
FG/FD10-15-18N6(S)/Z6(S)		101MC1600	101MC1985	101MC2349	101MC2971	101MC2699
FG/FD20-23-25N2/Z2		101MC1601	101MC1986	101MC2350	101MC2972	101MC2700
FG/FD20-23-25 N2(S)/Z2(S)/ N13(S)/Z13(S)	S-series	101MC1602	101MC1987	101MC2351	101MC2973	101MC2701
F(H)G/F(H)D 20-25-30 N2/Z2	Alfa-series	101MC1603	101MC1988	101MC2352	101MC2974	101MC2702
F(H)G/F(H)D 10-14-15-18 N7/ Z7 N17/Z17	Alfa-series	101MC1604	101MC1989	101MC2353	101MC2975	101MC2703
F(H)G/F(H)D 20-25-30N/Z 4	Alfa-series	101MC1605	101MC1990	101MC2354	101MC2976	101MC2704

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
F(H)G/F(H)D 28-30N8/Z8	Alfa-series	101MC1605	101MC1990	101MC2354	101MC2976	101MC2704
F(H)G/F(H)D 20-23-25N3/Z3	Alfa-series	101MC1605	101MC1990	101MC2354	101MC2976	101MC2704
FD/FG20-30 T3	Inoma	101MC1606	101MC1991	101MC2355		
F(H)G/F(H)D20-25N14/Z14	Alfa-series Japanese version	101MC1605	101MC1990	101MC2354	101MC2976	101MC2704
FD/FG 35-40-45 Z7/N7	Alfa-series	101MC1607	101MC1992	101MC2356	101MC2977	101MC2705
F(H)G/F(H)D 10-15-18N8/Z8	700-series	101MC1608	101MC1993	101MC2357	101MC2978	101MC2706
FG10-15-18N18	700-series	101MC1608	101MC1993	101MC2357	101MC2978	101MC2706
F(H)G/F(H)D 20-23-25-30N5/Z5	700-series	101MC1609	101MC1994	101MC2358	101MC2979	101MC2707
FD15-18 T3/T13		101MC1610	101MC1995	101MC2359		
FD/FG15-18 T9 (T19)		101MC1611	101MC1996	101MC2360	101MC2980	101MC2708
FG/FD 20-25-30N9/Z9		101MC1612	101MC1997	101MC2361	101MC2981	101MC2709
FD50 T9		101MC1613	101MC1998	101MC2362		
FB10-6, FB15-6		101MC1614	101MC1999	101MC2363	101MC2982	101MC2710
FD25-30 T6		101MC1615	101MC2000	101MC2364	101MC2983	
FD/FG 20-25 T7		101MC1616	101MC2001	101MC2365		
FB20-6, FB25-6		101MC1617	101MC2002	101MC2366	101MC2984	101MC2711
FB25-7		101MC1618	101MC2003	101MC2367		101MC2712
Used for Boss						
LE16/18	From 1993 and onwards	101MC1619	101MC2004	101MC2368	101MC2985	101MC2713
Used for Clark						
TM15 GEF 7000	1989	101MC1620	101MC2005	101MC2369	101MC2986	101MC2714
CTM10-12S	GEF7096	101MC1621				
CTM16S	GEF7096	101MC1622				
CTM10-12S	From series GEF 7097	101MC1623	101MC2006	101MC2370	101MC2987	101MC2715
CTM12-16S	From series GEF 7097	101MC1624	101MC2007	101MC2371	101MC2988	101MC2716
CEM 16-20S	From series GEF 7102	101MC1625	101MC2008	101MC2372	101MC2989	101MC2717
CEM 20-25S-30S	GEF 6761 up to serial n° 221	101MC1626	101MC2009	101MC2373	101MC2990	101MC2718
CEM 20-25S-30S	GEF 6761 from serial n° 221	101MC1627	101MC2010	101MC2374	101MC2991	101MC2719
CEM 25-30-35	GEF 6761 up to serial n° 221	101MC1628	101MC2011	101MC2375	101MC2992	101MC2720
CEM 25-30-35	GEF 6761 up to serial n° 221	101MC1629	101MC2012	101MC2376	101MC2993	101MC2721
CEM 25S AC-30S AC	GEF6762	101MC1630	101MC2013	101MC2377	101MC2994	101MC2722
CEM 25S AC-30S AC	GEF6762	101MC1631	101MC2014	101MC2378	101MC2995	101MC2723
CDP/CGP 16-18-20S	Series P245	101MC1632	101MC2015	101MC2379	101MC2996	101MC2724
CDP/CGP 20-35	Series P365	101MC1633	101MC2016	101MC2380	101MC2997	101MC2725
CDP/CGP 40-45-50S	Series P460, 470	101MC1634	101MC2017	101MC2381	101MC2998	101MC2726
CMP-18-20S (short)		101MC1635	101MC2018	101MC2382	101MC2999	101MC2727
CMP20-30, CMP25	Serial n° 9065	101MC1636	101MC2019	101MC2383	101MC3000	101MC2728
CMP 40-45 50S		101MC1637	101MC2020	101MC2384	101MC3001	101MC2729
CMP 60/70/75 S		101MC1638		101MC2385		101MC2730
GPM-DPM 20-30	From GEF 6970-GEF6971, GEF 8025, GEF9160	101MC1639	101MC2021	101MC2386	101MC3002	101MC2731
GPM-DPM 20-30	From GEF 6041-6043	101MC1640	101MC2022	101MC2387	101MC3003	101MC2732
GPM-DPM 12-20S	From GEF 6695-7462	101MC1641	101MC2023	101MC2388	101MC3004	101MC2733
GPX 30-50		101MC1642	101MC2024	101MC2389		
C25-35 D/L		101MC1643	101MC2025	101MC2390		
Used for Caterpillar						
DP/GP15-18 12V	Till May '97, right angle, overhead guard	101MC1644	101MC2026	101MC2391		101MC2734
DP/GP15-18 12V	From May '97, rounded corner, overhead guard	101MC1645	101MC2026	101MC2392	101MC3005	101MC2735
DP/GP15K-18K		101MC1646	101MC2027	101MC2393	101MC3006	101MC2736
V40E, V50E, VC60E		101MC1546	101MC1932	101MC2295	101MC2931	101MC2655
DP-GP 20-30	Till May '97, right angle, overhead guard	101MC1647	101MC2028	101MC2394	101MC3007	101MC2737
DP/GP20-35 12V	From May '97, rounded corner, overhead guard	101MC1648	101MC2029	101MC2395	101MC3008	101MC2738

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
DP/GP20K-35K		101MC1649	101MC2030	101MC2396	101MC3009	101MC2739
DP40,45,50/DPL 40 12 V	3CN	101MC1650	101MC2031	101MC2397	101MC3010	101MC2740
DP40,45,50/DPL 40 24 V	3CN	101MC1651	101MC2032	101MC2398	101MC3011	101MC2741
GP/DP40K-50K 12 V	ET17	101MC1652	101MC2033	101MC2399	101MC3012	101MC2742
GP/DP40K-50K 24 V	ET17	101MC1653	101MC2034	101MC2400	101MC3013	101MC2743
DP/GP15-20C N		101MC1654	101MC2035	101MC2401	101MC3014	101MC2744
DP/GP20-35 N		101MC1655	101MC2036	101MC2402	101MC3015	101MC2745
F30, EP15 T	F30 from 5CB5526 or from 5DB3973	101MC1656	101MC2037	101MC2403	101MC3016	101MC2746
F35, FC40, EP18 T, EP20 T		101MC1657	101MC2038	101MC2404	101MC3017	101MC2747
EP16KT-20KCT/EP16K-20KC		101MC1658	101MC2039	101MC2405	101MC3018	101MC2748
EP16-18		101MC1659	101MC2040	101MC2406	101MC3019	101MC2749
EP20-25		101MC1660	101MC2041	101MC2407	101MC3020	101MC2750
EP30		101MC1661	101MC2042	101MC2408	101MC3021	101MC2751
EP20K-25K		101MC1662	101MC2043	101MC2409	101MC3022	101MC2752
EP30K-EP35K		101MC1663	101MC2044	101MC2410	101MC3023	101MC2753
Used for Komatsu						
FB15-4	Attention: NOT the same for FBL	101MC1664	101MC2045	101MC2411	101MC3024	101MC2754
FB18-4	Attention: NOT the same for FBL	101MC1665	101MC2046	101MC2412	101MC3025	101MC2755
FB20-25(G)-3		101MC1666	101MC2047	101MC2413	101MC3026	101MC2756
FB14-18-5		101MC1667	101MC2048	101MC2414	101MC3027	101MC2757
FB 15-18M2		101MC1668	101MC2049	101MC2415	101MC3028	101MC2758
FB13 MV 1E		101MC1669	101MC2050	101MC2416	101MC3029	101MC2759
FB13 MV 1E		101MC1670	101MC2051	101MC2417	101MC3030	101MC2760
FB16-18M1E		101MC1671	101MC2052	101MC2418	101MC3031	101MC2761
FB20M1E		101MC1672	101MC2053	101MC2419	101MC3032	101MC2762
FB16-20(G)H 1E, FB25H		101MC1673	101MC2054	101MC2420	101MC3033	101MC2763
FB16,20H 1E		101MC1674	101MC2055	101MC2421	101MC3034	101MC2764
FB15-18SH-6		101MC1675	101MC2056	101MC2422	101MC3035	101MC2765
FB13M-3E 400AH		101MC1676	101MC2057	101MC2423	101MC3036	101MC2766
FB16/18-2E 500AH		101MC1677	101MC2058	101MC2424	101MC3037	101MC2767
FB16/18M-3E 500AH		101MC1677	101MC2058	101MC2424	101MC3037	101MC2767
FB16/18G-2E 600AH		101MC1678	101MC2059	101MC2425	101MC3038	101MC2768
FB 20-2E 600AH		101MC1678	101MC2059	101MC2425	101MC3038	101MC2768
FB16/18MG-3E 600AH		101MC1678	101MC2059	101MC2425	101MC3038	101MC2768
FB20M-3E 600AH		101MC1678	101MC2059	101MC2425	101MC3038	101MC2768
FB20GH-1R of Fiat		101MC1679	101MC2060	101MC2426	101MC3039	101MC2769
FB20H-1R		101MC1680	101MC2061	101MC2427	101MC3040	101MC2770
FB15(M)-1R		101MC1681	101MC2062	101MC2428	101MC3041	101MC2771
FB17,5(M)-1R		101MC1682	101MC2063	101MC2429	101MC3042	101MC2772
FB25H-1R		101MC1683	101MC2064	101MC2430	101MC3043	101MC2773
FB30H-1R		101MC1684	101MC2065	101MC2431	101MC3044	101MC2774
FD/FG 20-30 T7		101MC1685	101MC2066	101MC2432	101MC3045	101MC2775
FD/FG 20-30 T8		101MC1686	101MC2067	101MC2433	101MC3046	101MC2776
FG20-30 T10		101MC1687	101MC2068	101MC2434	101MC3047	101MC2777
FG20-30-11	Serial no: 6 digits	101MC1688	101MC2069	101MC2435	101MC3048	101MC2778
FD/FG20-30-11E	Serial no: 5 digits	101MC1689	101MC2070	101MC2436	101MC3049	101MC2779
FD15-1, FD15-11, FD15-12		101MC1690	101MC2071	101MC2437	101MC3050	101MC2780
FG 10-14-15-18H(T)12	Serial no: 100000-120000	101MC1691	101MC2072	101MC2438	101MC3051	101MC2781
FD/FG 20-30(H)T12		101MC1692	101MC2073	101MC2439	101MC3052	101MC2782
FD/FG 10-14-15-18H(T14)		101MC1693	101MC2074	101MC2440	101MC3053	101MC2783
FG/FD 20-30 T14		101MC1694	101MC2075	101MC2441	101MC3053	101MC2784
FD/FG 10-14-15-18 T15		101MC1695	101MC2076	101MC2442	101MC3054	101MC2785
FD/FG 15-18(H)T,C-16,17 FG/FD20-30(H)T-12,14		101MC1696	101MC2077	101MC2443	101MC3055	101MC2786
FD/FG20-30 T16R	Europe	101MC1697	101MC2078	101MC2444	101MC3056	

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
FD/FG20-30 T16	Japanese import	101MC1698	101MC2079	101MC2445		
FD/FG15-18 T18		101MC1699	101MC2080	101MC2446		
FD/FG15-18 T20		101MC1700	101MC2081	101MC2447		
FG15 HT 1E		101MC1701	101MC2082	101MC2448	101MC3057	101MC2787
FD70-5		101MC1702	101MC2083	101MC2449		
FD/FG 35-40 T6		101MC1703	101MC2084	101MC2450	101MC3058	
FD 35-45-7 FD50 AT-T	24 V	101MC1704	101MC2085	101MC2451	101MC3059	101MC2788
FG 35-45-7	12 V	101MC1705	101MC2086	101MC2452	101MC3060	101MC2789
FD35-45/50A T8		101MC1706	101MC2087	101MC2451		
FD/FG50-80 T8 (DX)		101MC1707	101MC2088	101MC2453		
Used for Linde						
E15(C) 322 series		101MC1708	101MC2089	101MC2454	101MC3061	101MC2790
E16P-E18P-E18Z 324 series		101MC1709	101MC2090	101MC2455	101MC3062	101MC2791
E12-15 324 series		101MC1710	101MC2091	101MC2456	101MC3063	101MC2792
E12S-15S 324 series		101MC1711	101MC2092	101MC2457	101MC3064	101MC2793
E16P-E16Z 324 series		101MC1712	101MC2093	101MC2458	101MC3065	101MC2794
E16S 324 series		101MC1713	101MC2094	101MC2459	101MC3066	101MC2795
E14-20 335 series	Till 11/99, mechanically command	101MC1714	101MC2095	101MC2460	101MC3067	101MC2796
E14-20 335-02 series	From 06/98 till 2007, controlled with joystick	101MC1715	101MC2096	101MC2461	101MC3068	101MC2797
E20P-30P 325 series	Small battery, 3 wheels	101MC1716	101MC2097	101MC2462	101MC3069	101MC2798
E20Z-30Z 325 series	Big battery, 4 wheels	101MC1717	101MC2098	101MC2463	101MC3070	101MC2799
E20-30 336 series		101MC1718	101MC2099	101MC2464	101MC3071	101MC2800
E40 337 series		101MC1719	101MC2100	101MC2465	101MC3072	101MC2801
H12-16-18 330 series	Only 2 support points	101MC1720	101MC2101	101MC2466	101MC3073	101MC2802
H20-30D 331 series	Attention for overhead guard	101MC1721	101MC2102	101MC2467	101MC3074	101MC2803
H35-40-45D 332 series		101MC1722	101MC2103	101MC2468	101MC3075	101MC2804
H12-16-18 350 series		101MC1723	101MC2104	101MC2469	101MC3076	101MC2805
H20-30D 351 series		101MC1724	101MC2105	101MC2470	101MC3077	101MC2806
H35-40-45D 352 series		101MC1725	101MC2106	101MC2471	101MC3078	101MC2807
H50-60-70 353 series		101MC1726	101MC2107	101MC2472	101MC3079	101MC2808
E12 386 series		101MC1727	101MC2108	101MC2473		
E14/15/16C 386 series		101MC1728	101MC2109	101MC2473		
E16(L/P), E18(L), E20PL 386 series		101MC1729	101MC2110	101MC2473		
E16(P)H, E18(P)H, E20PH(L) 386 series		101MC1730	101MC2111	101MC2473		
391 series		101MC1731	101MC2112	101MC2474		
392 & 393 series		101MC1732	101MC2113	101MC2475	101MC3080	101MC2809
394 series		101MC1733	101MC2114	101MC2476	101MC3081	101MC2810
Used for Still						
R20-16 2001 24 V	Rear with roof Right angle	101MC1734	101MC2115	101MC2477	101MC3082	101MC2811
R20-16 2002 48 V	Rear with roof Right angle	101MC1734	101MC2115	101MC2477	101MC3082	101MC2811
R20-17 2003 24 V	Rear with roof Right angle	101MC1734	101MC2115	101MC2477	101MC3082	101MC2811
R20-17 2004 48 V	Rear with roof Right angle	101MC1734	101MC2115	101MC2477	101MC3082	101MC2811
R20-18 2004	Rear with roof Right angle	101MC1734	101MC2115	101MC2477	101MC3082	101MC2811
R20-15 2006, 2007	Rounded corner	101MC1735	101MC2116	101MC2478	101MC3083	101MC2812
R20-15 512008, R20-16P 512009, R20-18 2015, R20-15 2018, R20-16 2019, R20-15 2038		101MC1736	101MC2117	101MC2479	101MC3084	101MC2813

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
R20-16 512010, R20-18 512011, R20-20 512012, R-16 T 512013, R20-20 512014, R20-20 2005		101MC1737	101MC2118	101MC2480	101MC3085	101MC2814
R50-15 5004		101MC1738	101MC2119	101MC2481		
R50-10 5041		101MC1739	101MC2120	101MC2482	101MC3086	101MC2815
R50-12 5012, R50-15 5013, R50-16 5014, R50-16 5024, R50-12 5032, R50-15 5033, R50-15 5034		101MC1740	101MC2121	101MC2483		
R50-10L 5042, R50-12 5043, R50-15 5044		101MC1741	101MC2122	101MC2484	101MC3087	101MC2816
R50-10L 515042, R50-12 515043, R50-15 515044, R50-15 515044020931 2000		101MC1742	101MC2123	101MC2485	101MC3088	
R60-16 6021, R60-18 6010	Right angle	101MC1743	101MC2124	101MC2486	101MC3089	101MC2817
R60-16 6030, R60-16 6033, R60-18 6031, R60-18 6034, R60-20C 6032, R60-20C 6035	Rounded corner	101MC1744	101MC2125	101MC2487	101MC3090	101MC2818
R60-20 6012, R60-25 6013	Right angle	101MC1745	101MC2126	101MC2488	101MC3091	101MC2819
R60-30 6014	Right angle	101MC1746	101MC2127	101MC2489	101MC3092	101MC2820
R60-20 6022, R60-25 6023, R60-25 604	Rounded corner	101MC1747	101MC2128	101MC2490	101MC3093	101MC2821
R60-25 6024, R60-30 6025		101MC1748	101MC2129	101MC2491	101MC3094	101MC2822
R60-30 6045		101MC1749	101MC2130	101MC2492	101MC3095	
R60-35 6026		101MC1750	101MC2131	101MC2493	101MC3096	101MC2823
R60-40 6027, R60-45 6028, R60- 50 6029		101MC1751	101MC2132	101MC2132	101MC3097	101MC2824
R70-16 7031, R70-16 7037, R70-16 7047		101MC1752	101MC2133	101MC2494		
R70-20 7012, R70-20 7018		101MC1753	101MC2134	101MC2495	101MC3098	101MC2825
R70-20 7032, R70-25 7033, R70-30 7034, R70-20 7038, R70-25 7039, R70-30 7040		101MC1754	101MC2135	101MC2496		101MC2826
R70-16 7052, R70-16 7054, R70-18 7056, R70-18 7058, R70-18 7078, R70-20 7076, R70-20 7079		101MC1755	101MC2136	101MC2497	101MC3099	101MC2827
R70-16 7074, R70-16 7077		101MC1756	101MC2137	101MC2498	101MC3100	101MC2828
R70-20 7062, R70-20 7068, R70-25 7063, R70-25 7069, R70-30 7064, R70-30 7070		101MC1757	101MC2138	101MC2499		101MC2829
R70-20I 7065, R70-25I 7066, R70-30 7067		101MC1758	101MC2139	101MC2500		
R70-35 7048, R70-40 7049, R70-45 7050		101MC1759	101MC2140	101MC2501		101MC2830
R70-60, R70-70, R70-80 7044, 7045, 7046		101MC1760	101MC2141	101MC2502		101MC2831
RX20-15 6210, RX20-16 6211, RX20-18 62.., RX20-20 6216		101MC1761	101MC2142	101MC2503		
RX50-10 5051		101MC1762	101MC2143	101MC2504		
RX50-15 5053-5054-5055		101MC1763	101MC2144	101MC2505		
RX60-16 6311		101MC1764	101MC2145	101MC2506		
RX60-20 6315		101MC1765	101MC2146	101MC2507		
RX60-30		101MC1766	101MC2147	101MC2508		
RX70-25 7322		101MC1767	101MC2148	101MC2509		

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
Used for Yale						
ERP10-15RCL		101MC1768	101MC2149	101MC2510	101MC3101	101MC2832
ERP10-15RCL		101MC1769	101MC2150	101MC2511	101MC3102	101MC2833
ERP 16-20AAF		101MC1770	101MC2151	101MC2512	101MC3103	101MC1661
ERP 16 ATF	"Diabolo" Attention height 1980 mm	101MC1771	101MC2152	101MC2513	101MC3104	101MC2834
ERP 16 ATF	Height: 1965 mm	101MC1772	101MC2153	101MC2514	101MC3105	101MC2835
ERP 16 ATF	Height: 2060 mm	101MC1773	101MC2154	101MC2515	101MC3106	101MC2836
ERP 18-20 ATF	Height: 1980 mm	101MC1774	101MC2155	101MC2516	101MC3107	101MC2837
ERP 18-20 ATF	Height: 2060 mm	101MC1775	101MC2156	101MC2517	101MC3108	101MC2838
ERP 16-20 ATF	From 2002	101MC1776	101MC2157	101MC2518	101MC3109	101MC2839
ERP 20-25 ALF		101MC1777	101MC2158	101MC2519	101MC3110	101MC2840
ERP30 ALF		101MC1778	101MC2159	101MC2520	101MC3111	101MC2841
ERP25 AGF	E108	101MC1779	101MC2160	101MC2521		
ERC25 AGF	R280	101MC1780	101MC2161	101MC2522		
GDP/GLP 16-20 AE		101MC1781	101MC2162	101MC2523	101MC3112	101MC2842
GDP/GLP 20-30 RD/TD		101MC1782	101MC2163	101MC2524		
GDP/GLP 20-30 RE/TE		101MC1783	101MC2164	101MC2525	101MC3113	101MC2843
GDP/GLP 20-25-30 RF/TF		101MC1784	101MC2165	101MC2526	101MC3114	101MC2844
GDP/GLP 16-20 AF/BF		101MC1785	101MC2166	101MC2527	101MC3115	101MC2845
GDP/GLP 35-40LF, GPD/GLP 45-50MF		101MC1786	101MC2167	101MC2528	101MC3116	101MC2846
GDP/GLP 35-55LJ/MJ		101MC1787	101MC2168	101MC2529	101MC3117	101MC2847
GDP 60-75 HC		101MC1788	101MC2169	101MC2530	101MC3118	101MC2848
GDP/GLP16-20S VX (Veracitor)		101MC1789	101MC2170	101MC2531		101MC2849
GDP/GLP20-35VX (Veracitor)		101MC1790	101MC2171	101MC2532		101MC2850
GDP/GLP 40-55VX (Veracitor)		101MC1791	101MC2172	101MC2533		
Used for Jungheinrich						
EFG DF12,5 300AH		101MC1792	101MC2173	101MC2534	101MC3119	101MC2851
EFG DF12,5 400AH		101MC1793	101MC2174	101MC2535	101MC3120	101MC2852
EFG DF15 400AH		101MC1794	101MC2175	101MC2536	101MC3121	101MC2853
EFG DF15 500AH		101MC1795	101MC2176	101MC2537	101MC3122	101MC2854
EFG DF16-18 600AH		101MC1796	101MC2177	101MC2538	101MC3123	101MC2855
EFG DF18 500AH		101MC1797	101MC2178	101MC2539	101MC3124	101MC2856
EFG DH12,5 700AH		101MC1798	101MC2179	101MC2540	101MC3125	101MC2857
EFG DH15 800AH		101MC1799	101MC2180	101MC2541	101MC3126	101MC2858
EFG DF13 440AH		101MC1800	101MC2181	101MC2542	101MC3127	101MC2859
EFG DF16-DF18 550AH		101MC1801	101MC2182	101MC2543	101MC3128	101MC2860
EFG DF16L-DF18L, EFG DF20 550AH		101MC1802	101MC2183	101MC2544	101MC3129	101MC2861
EFG 12 DL		101MC1803	101MC2184	101MC2545	101MC3130	101MC2862
EFG DF V/VAC 16-18		101MC1804	101MC2185	101MC2546	101MC3131	101MC2863
EFG V/VAC 16L-18L, EFG V/VAC 20		101MC1805	101MC2186	101MC2547	101MC3132	101MC2864
EFG V16-20	Steinbock model from '95	101MC1806	101MC2187	101MC2548	101MC3133	101MC2865
EFG V20L-V25		101MC1807	101MC2188	101MC2549	101MC3134	101MC2866
EFGVAC25		101MC1808	101MC2189			
EFG V25L-V30		101MC1809	101MC2190	101MC2550	101MC3135	101MC2867
EFG110-115		101MC1810	101MC2191	101MC2551		101MC2868
EFG216		101MC1811	101MC2192	101MC2552		
EFG 320		101MC1812	101MC2193	101MC2553		
EFG 425		101MC1813	101MC2194	101MC2554		
TFG/DFG3.5-4,0-5,0 LF/MF		101MC1814	101MC2195	101MC2555	101MC3136	101MC2869
TFG/DFG1,6-2,0 AF/BF		101MC1815	101MC2196	101MC2556	101MC3137	101MC2870
TFG/DFG1,5-2,0 AE		101MC1816	101MC2197	101MC2557	101MC3138	101MC2871
TFG/DFG 2,0-2,5-3,0 RE/TE	Till 1994	101MC1817	101MC2198	101MC2558	101MC3139	101MC2872

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
TFG/DFG 2,0-2,5-3,0 RF/TF		101MC1818	101MC2199	101MC2559	101MC3140	101MC2873
TFG/DFG1,6-2,0 AK/AS		101MC1819	101MC2200	101MC2560	101MC3141	101MC2874
TFG/DFG 2,0-2,5-3,0 BK/BS		101MC1820	101MC2201	101MC2561	101MC3142	101MC2875
TFG316-320 FN		101MC1821	101MC2202	101MC2562		101MC2876
DFG425-430 FN		101MC1822	101MC2203	101MC2563		
TFG/DFG 4,0-4,5-5,0 CK/CS		101MC1823	101MC2204	101MC2564	101MC3143	101MC2877
Used for Steinbock						
CL/CD 1,6-2,0 C/H		101MC1824	101MC2205	101MC2565	101MC3144	101MC2878
CL/CD 2,2-2,5-3,3 C/H		101MC1825	101MC2206	101MC2566	101MC3145	101MC2879
CL/CD 4,0-4,5-5,0 C/H		101MC1826	101MC2207	101MC2567	101MC3146	101MC2880
Used for Mitsubishi						
FD/FG 10-15-18****	Serial no starts with F16A, F25	101MC1827	101MC2208	101MC2568	101MC3147	101MC2881
FD/FG20-25-30**** FD/FG35A****	Serial no starts with F18A, F17A, F14B, F13C, F14B, F13C	101MC1828	101MC2209	101MC2569	101MC3148	101MC2882
FD/FG 10-15-18**** Europe	Serial no starts with EF16B, EF25A, EF25B (higher overhead guard	101MC1829	101MC2210	101MC2570	101MC3149	101MC2883
FD/FG 10-15-18**** Japan	Serial no starts with F16B, F25A, F25B (lower overhead guard	101MC1830	101MC2211	101MC2571	101MC3150	101MC2884
FD/FG10K-18K	Serial no starts with EF16B, EF13A, EF31A, EF25A	101MC1831	101MC2212	101MC2572	101MC3151	101MC2885
FD/FG 10-18 Japanese model	Serial no starts with F16C	101MC1832	101MC2213	101MC2573	101MC3152	101MC2886
FD/FG 10-18 European model	Serial no starts with EF16C	101MC1833				
FD/FG20-25-30**** FD/FG35A**** Europe	Serial no starts with EF18B, EF17B, EF14C, EF13D, EF14C, EF13D (higher overhead guard)	101MC1834	101MC2214	101MC2574	101MC3153	101MC2887
FD/FG20-25-30**** FD/FG35A**** Japan	Serial no starts with F18B,F 17B, F14C, F13D (lower overhead guard)	101MC1835	101MC2215	101MC2575	101MC3154	101MC2888
FD/FG20K-25K-30K	Serial no starts with EF17B, EF18B, EF13D, EF14C	101MC1836	101MC2216	101MC2576	101MC3155	101MC2889
FD/FG15-20C N	EF34L (00011-01999, 40001-40999, 600001-60999), EF16D (00011-00999, 40001-40999)	101MC1654	101MC2035	101MC2401	101MC3014	101MC2744
FD/FG15-20C N2 (new Grendia)	EF34L (02001-39999, 41001-59999, 51001-99999), EF16D (01001-39999, 410001-59999)					101MC2890
FD/FG15-18 T	F16D/F25C (50001-54999, 70001-74999)	101MC1837	101MC2217	101MC2577	101MC3156	101MC2891
FD/FG15-18 T N2 Jap truck	F16F/F25C (55001-57999, 75001-77999)	101MC1837	101MC2217	101MC2577	101MC3156	101MC2891
FD/FG20-35 N	EF18C (00001-00999, 50004-54999), EF17D (00011-00999, 0001-52999), EF13FL, EF14E	101MC1655	101MC2036	101MC2402	101MC3015	101MC2745
FD/FG20-35 N2	EF18C (01001-49999, 55001-99999), EF17D (01001-49999, 53001-99999), EF13FL, EF14E	101MC1838	101MC2218	101MC2578		
FD/FG20-30 T	F14E (10001-19999), F18C (00011-19999, 50001-69999), F17D (00011-07999, 50001-57999)	101MC1839	101MC2219	101MC2579	101MC3157	101MC2892
FD/FG20-30 T N2	F14E (20001-49999), F18C (20001-49999, 70001-99999) F17D (10001-19999, 60001-69999)	101MC1839	101MC2220	101MC2579		
FD/FG35-40-45-50**** 12 V	Serial no starts with (E)F19A, EF29, (E)F28A	101MC1840	101MC2221	101MC2580	101MC3158	101MC2893
FD/FG35-40-45-50**** 24 V	Serial no starts with (E)F19A, EF29, (E)F28A	101MC1841	101MC2222	101MC2581	101MC3159	101MC2894
FG40K(L)-45K 12 V	Serial no starts with EF19C, EF28B, Gas	101MC1652	101MC2033	101MC2399	101MC3012	101MC2895
FG50K 12 V	Gas	101MC1842	101MC2033	101MC2582	101MC3160	101MC2896

CANVAS CABS AND FRONT PANELS

Make and type	Remarks	REF				
		Canvas cab	Canvas cab without front panel	Front panel with wiper motor set	Canvas cab with steel roof	Steel cab with PVC doors
FD40K(L)-45K 24 V	Serial no starts with EF19C, EF28B, Diesel	101MC1653	101MC2034	101MC2400	101MC3013	101MC2897
FD50K 24 V	Diesel	101MC1843	101MC2034	101MC2583	101MC3161	101MC2898
FD80	F32BE	101MC1844				
FB16-20K/KT (K: 4 wheels; KT: 3 wheels)	(= Caterpillar EP16KT ...), EFB4A	101MC1658	101MC2039	101MC2405	101MC3018	101MC2748
FBP16/18	(= Caterpillar EP16 ...)	101MC1659	101MC2040	101MC2406	101MC3019	101MC2749
FB20-25K		101MC1662	101MC2043	101MC2409	101MC3022	101MC2752
FBP20-25		101MC1660	101MC2041	101MC2407	101MC3020	101MC2750
FBP30		101MC1661	101MC2042	101MC2408	101MC3021	101MC2751
FB30-35K						
Used for Samsung						
SF20-30		101MC1636	101MC2019	101MC2383	101MC3000	101MC2728
SF45D		101MC1845	101MC2223	101MC2584	101MC3162	101MC2899
Used for Hyundai						
HDF15-5		101MC1846				
HLF/HDF25-30 II		101MC1847				
HDF25-5		101MC1848				
HDF25-7		101MC1849				
Used for BT						
CB1600 T		101MC1850				
CBE 1,2-2,0 (4 wheels)		101MC1851				
CBE 2,5-3,5 (4 wheels)		101MC1852				
Used for Cesab						
Blitz 312, 315, 412, 415		101MC1853	101MC2224			
Blitz 316, 318, 416, 418		101MC1854	101MC2225			
Blitz 316L, 318L, 320, 416L, 418L, 420		101MC1855	101MC2226			
Used for Fiat						
D/G15-23		101MC1856				
DI25C		101MC1857				
FASE 20		101MC1858				
EU3 12-15-17,5		101MC1859				
EU18-20		101MC1860				
EU25		101MC1861				

**** When the letter K proceeds FG/FG for the Mitsubishi models, references below are not valid.

*** When the letter L follows after FG or FD for the Toyota models, for example 5FDL20, references below are not valid.

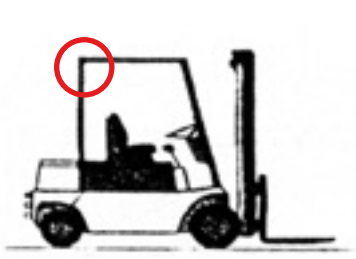
** When the letter N proceeds H01, H02, J01 and J02 for the Nissan models, references below are not valid.

* Higher overhead guard 2185 mm instead of 2115 mm, from serial n° 90-01354 for diesel truck, from serial n° 99-02867 for gas truck.

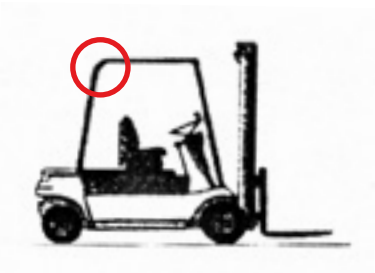
Please be aware that front panels will not fit if other brand steel roof and (or) doors are mounted on the overhead guard.

The brands are only an indication and do not imply that the spare parts actually are coming from the forklift manufacturer.

******* Roof with straight edges**



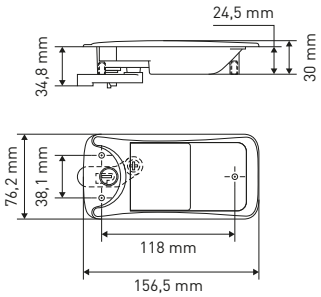
******** Roof with rounded edges**



This list is not complete. If you want the correct reference, please mention brand, type, serial no, date of construction and if possible a picture.

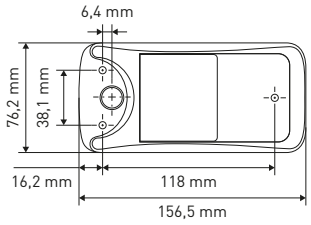
EXTERIOR DOOR LOCKS





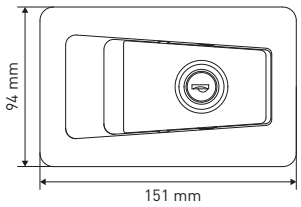
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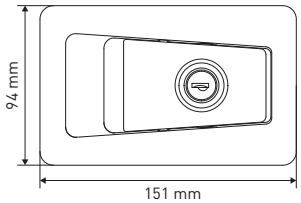
REF 100MC3676





REF 100MC3698





REF 100MC3678

EXTERIOR DOOR LOCKS



- Length: 190 mm
- Width: 120 mm

REF 100MC3681



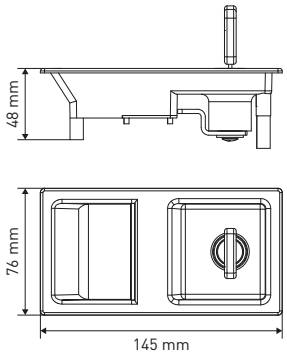
1

2

- Length: 133,4 mm
- Width: 123,8 mm

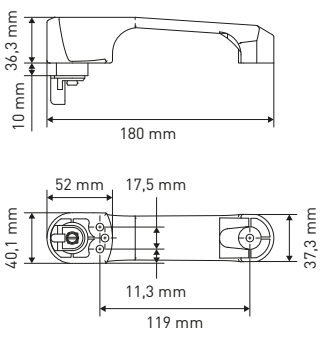
1. **REF 100MC3675**
2. **REF 101MC3163**





REF 100MC3703

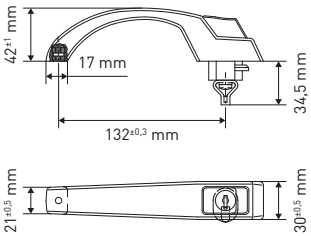




REF 100MC3687

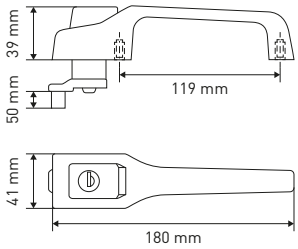
EXTERIOR DOOR LOCKS





REF 100MC3695

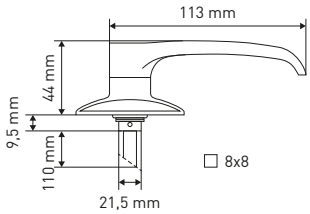




REF 100MC3702

EXTERIOR DOOR HANDLES





REF 100MC3700 – Non-locking version
REF 100MC3701 – Locking version



- Length: 170 mm
- Width: 107 mm
- Used for Kalmar

REF 100MC8949

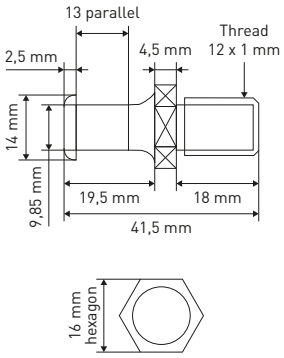


- Length: 162 mm
- Height: 162 mm
- Depth: 148 mm

REF 100MC3685

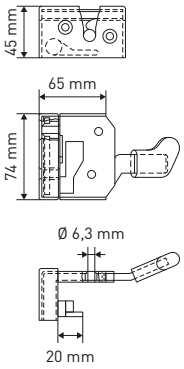
INTERIOR DOOR LOCKS





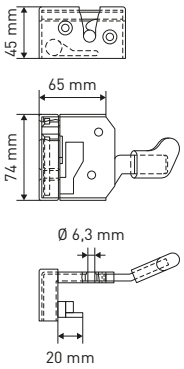
REF 100MC8950 – Striker pin





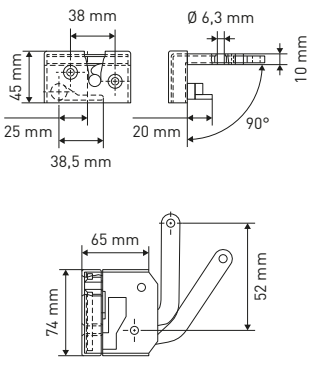
REF 100MC3623





REF 100MC3638





REF 100MC3664

INTERIOR DOOR LOCKS



- Length: 75 mm
- Width: 65 mm

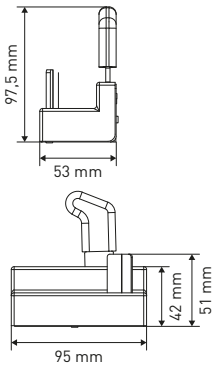
REF 100MC3658



1



2



- Length: 95 mm
- Width: 54 mm

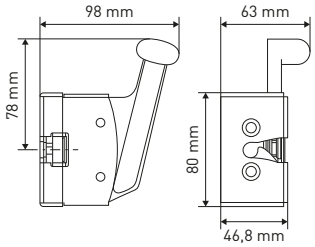
1. **REF 100MC3660**
2. **REF 100MC3629**



1



2



1. **REF 100MC3659**
2. **REF 100MC3697**

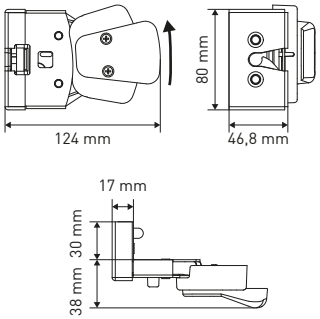




REF 100MC3637

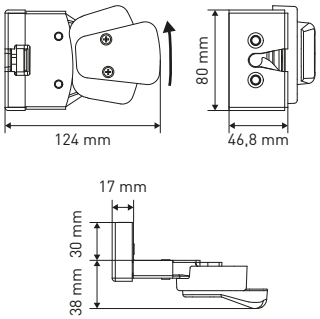
INTERIOR DOOR LOCKS





REF 100MC3643
REF 100MC8966 – Opposite hand





REF 100MC8967
REF 100MC3639 – Opposite hand



REF 100MC3622



· Length: 108 mm
· Width: 63 mm

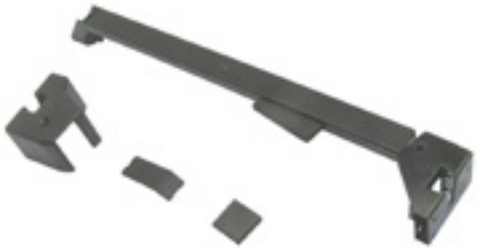
REF 100MC3662

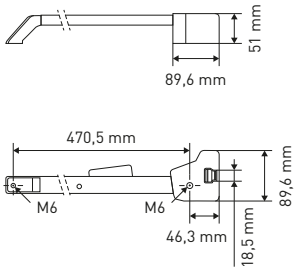
INTERIOR DOOR LOCKS



· Length: 108 mm
· Width: 63 mm

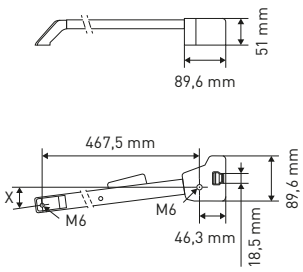
REF 100MC3663





REF 100MC3665
REF 100MC3674 – Opposite hand





REF 100MC3699
REF 100MC8968 – Opposite hand

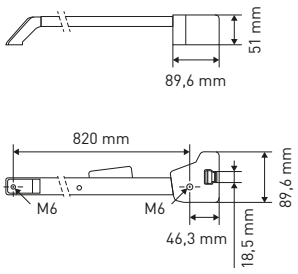


Total length: 490 mm

REF 100MC3670
REF 100MC8969 – Opposite hand

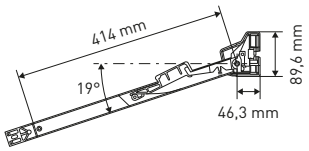
INTERIOR DOOR LOCKS





REF 100MC3668
REF 100MC8970 – Opposite hand

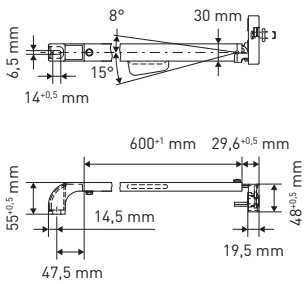




- Total length: 525 mm
- Mounting angle: 19°

REF 100MC3667
REF 100MC8971 – Opposite hand

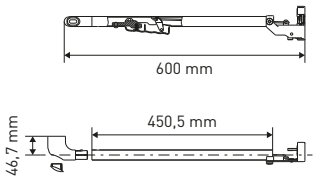




Total length: 690 mm

REF 100MC3686
REF 100MC8972 – Opposite hand



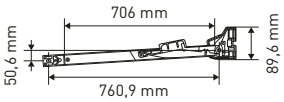


Total length: 600 mm

REF 100MC3646

INTERIOR DOOR LOCKS

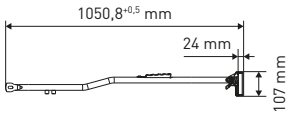




- Total length: 825 mm
- Mounting angle: 4°

REF 100MC3647





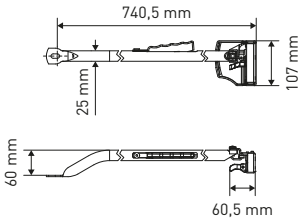
REF 100MC3654



Length: 825 mm

REF 100MC3648





Overal length: 740 mm

REF 100MC3650
REF 100MC8973 – Opposite hand

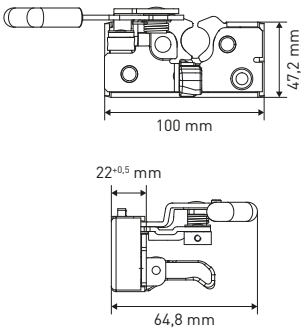
INTERIOR DOOR LOCKS



Used for Linde

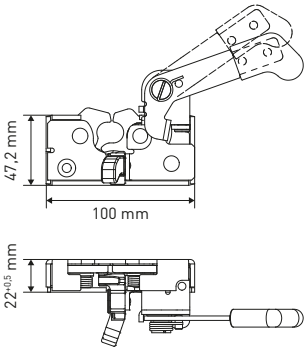
REF 100MC8948





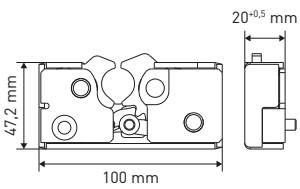
REF 100MC3669





REF 100MC3673

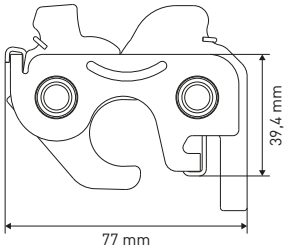




REF 100MC3649

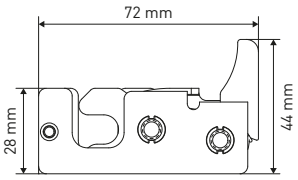
INTERIOR DOOR LOCKS





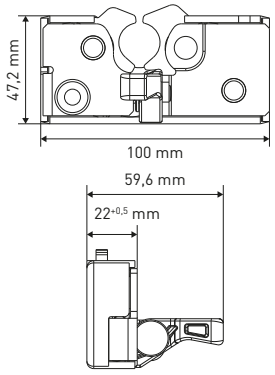
REF 100MC3625





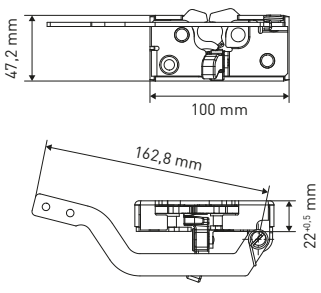
REF 100MC3621





REF 100MC3630





REF 100MC3631

INTERIOR DOOR LOCKS



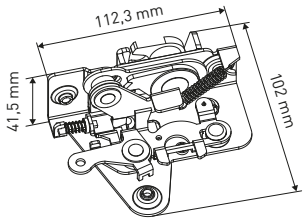
- Length: 100 mm
- Width: 22 mm
- Height: 47,22 mm

REF 100MC3633



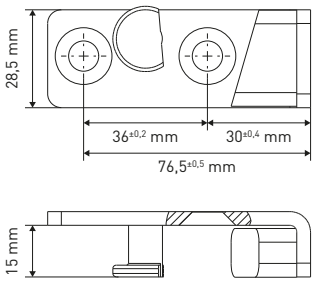
REF 100MC3696





REF 100MC3671
REF 101MC3165 – Opposite version

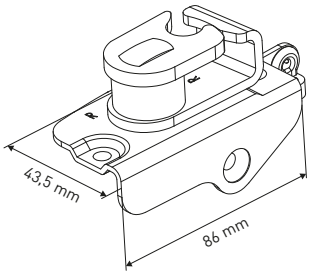




REF 100MC3558
REF 101MC3164 – Opposite version

INTERIOR DOOR LOCKS





REF 100MC3672
REF 101MC3166 – Opposite version

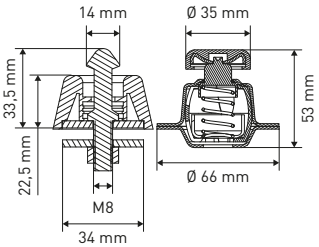
DOOR HOLDS



Black

REF 100MC3706

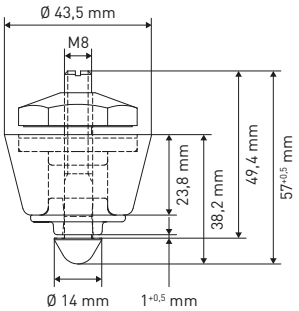




Door stopper

REF 100MC3563



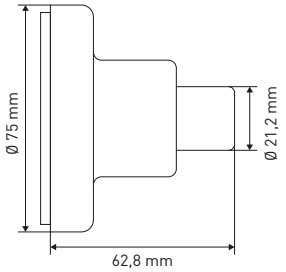


Door stopper

REF 100MC3564

DOOR HOLDS

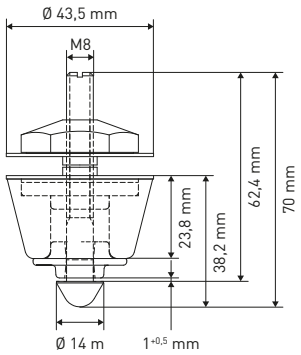




Door handle

REF 100MC3565





Door lock – push button

REF 100MC3566



Door stopper

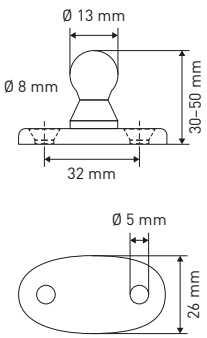
REF 100MC3652



1



2

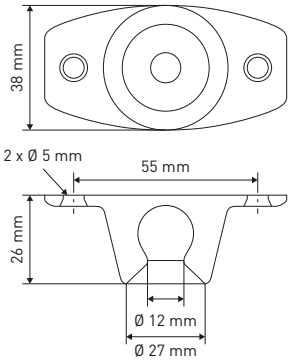


Door holder

1. **REF 100MC3568** – 30 mm
2. **REF 100MC4087** – 50 mm

DOOR HOLDS

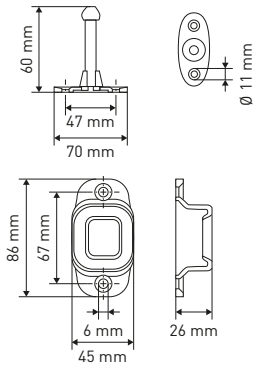




Rubber housing

REF 100MC4088





Aluminium

REF 100MC3704



- Rubber latch
- Male: diameter 25 x 27 mm
- Female: diameter 40 x 35 mm

REF 100MC3559



- Male
- Dimensions: 57 x 25,4 x 30 mm

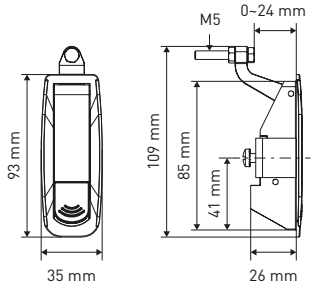
REF 100MC3708

- Female
- Dimensions: 67 x 25,4 x 30 mm

REF 101MC3167

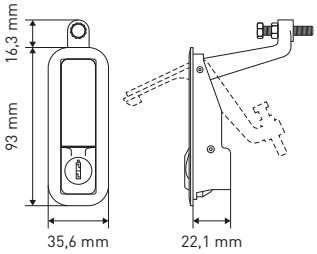
LATCHES





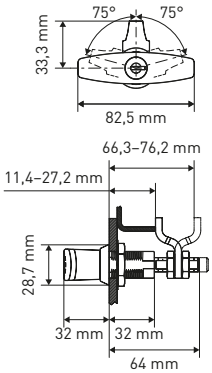
REF 100MC3627





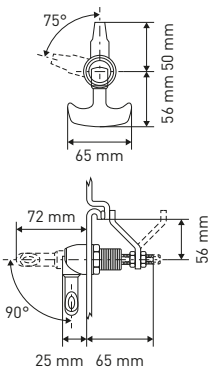
REF 100MC3628





REF 100MC3693

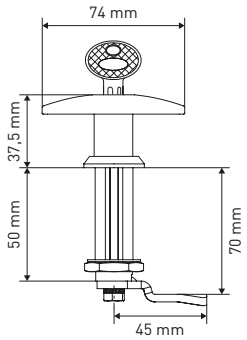




REF 100MC3694

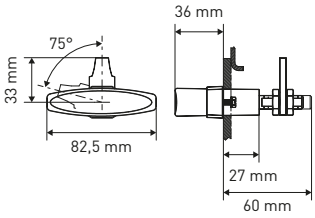
LATCHES





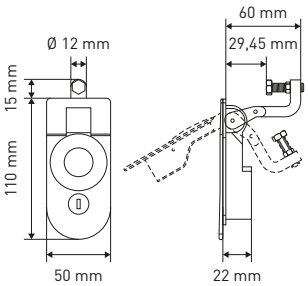
REF 100MC3692





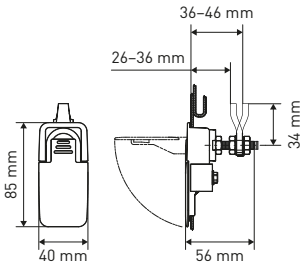
REF 100MC3690





REF 100MC3651





REF 100MC3684

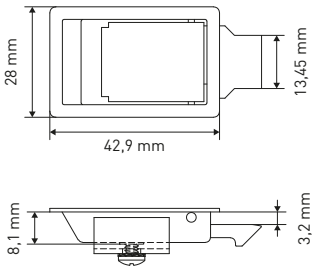
LATCHES



- Length: 94 mm
- Width: 58 mm
- Height: 35 mm
- Supplied without key (REF 101MC3168)

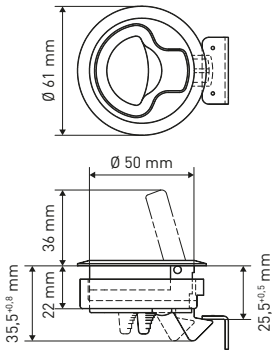
REF 100MC3655





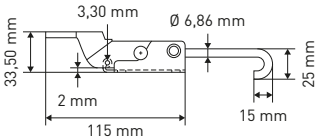
REF 100MC3682





REF 100MC3683

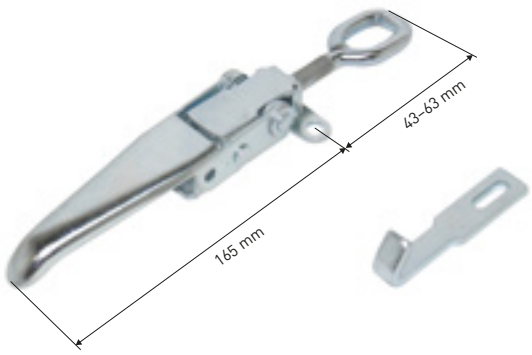




Adjustable latch

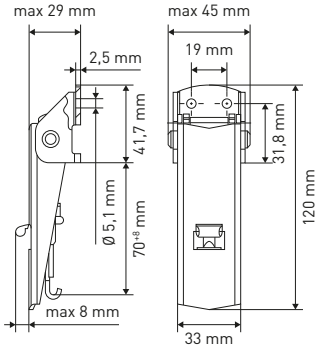
REF 100MC3557

LATCHES



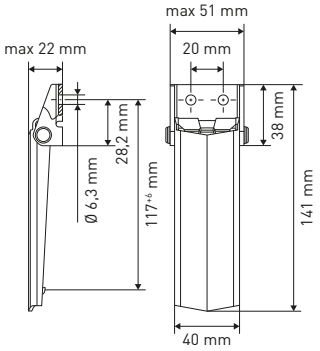
REF 100MC3644





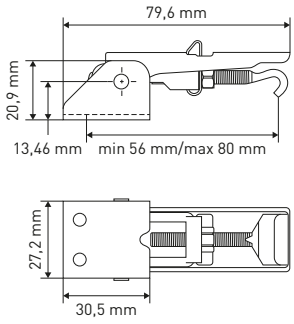
REF 100MC3556





REF 100MC3645

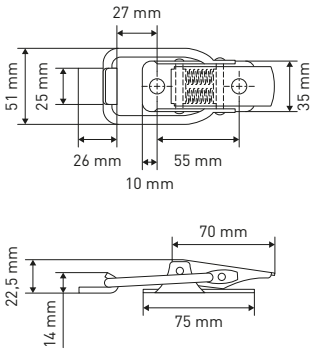




REF 100MC3624

LATCHES





Length: 155 mm

REF 100MC3705



Length: 125 mm

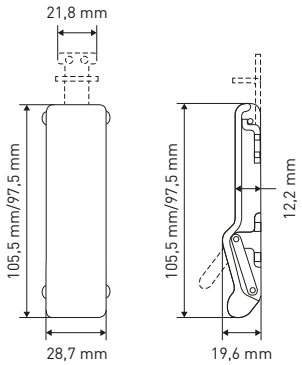
REF 100MC3641



Length: 65 mm

REF 100MC8951

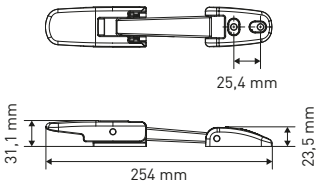




REF 100MC3688

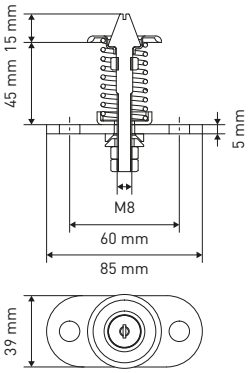
LATCHES





REF 100MC3653

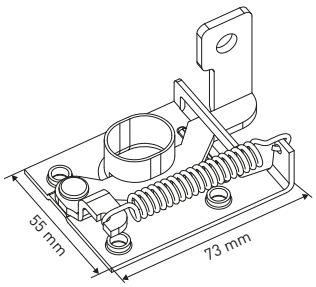




Dimensions: 84 x 38 x 67 mm

REF 100MC8947



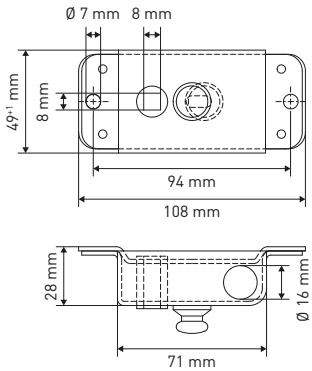


Hood lock

REF 100MC3657

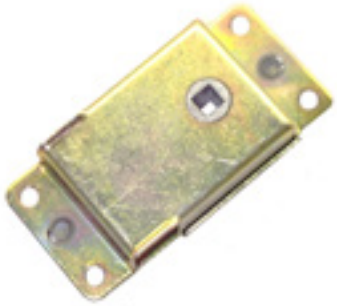






1. **REF 100MC3635** – Without lock
2. **REF 100MC3636** – With lock

LATCHES



- Length: 106 mm
- Width: 52 mm
- Height: 21 mm

REF 100MC3634



- Length: 86 mm
- Width: 68 mm
- Height: 19 mm

REF 100MC3626



- Length: 158 mm
- Width: 86 mm

REF 100MC3689

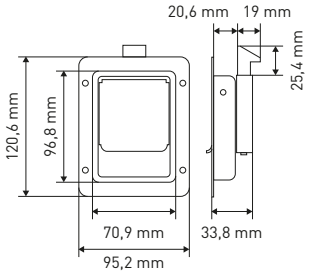


- Length: 125 mm
- Width: 27 mm

REF 100MC3640

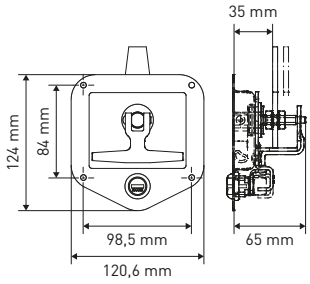
LATCHES





REF 100MC3642





- Length: 120 mm
- Width: 124 mm

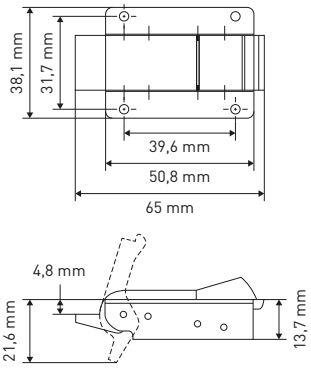
REF 100MC3677



- Length: 100 mm
- Width: 48 mm

REF 100MC3632

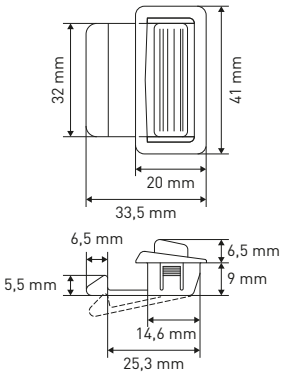




REF 100MC3620

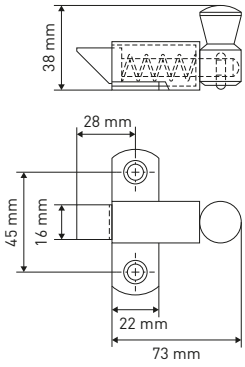
LATCHES





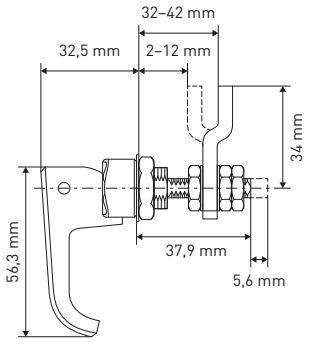
REF 100MC3619





REF 100MC3656





REF 100MC3691



- Length: 51 mm
- M22 length: 12 mm
- Grip range: 14 mm

REF 100MC3560

LATCHES



- Length: 47 mm
- M22 length: 12 mm
- Grip range: 22–24 mm

REF 100MC3707



Other solutions on demand

DOOR SECURITY STOP



Strap: 200 x 30 mm

REF 101MC3170

ACCESSORIES – BELTS



Length mm	Width mm	REF
110	30	100MC3544
118	30	100MC3545
120	30	100MC3546
125	30	100MC3547
135	30	100MC3548
140	30	100MC3549
150	30	100MC3550
175	48	100MC3551
235	44	100MC3552
203	44	100MC8952

ACCESSORIES – SUPPORT GAS SPRINGS



REF 100MC3553

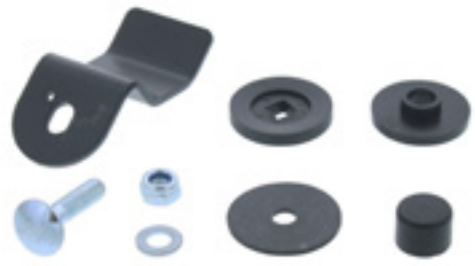


REF 100MC8953



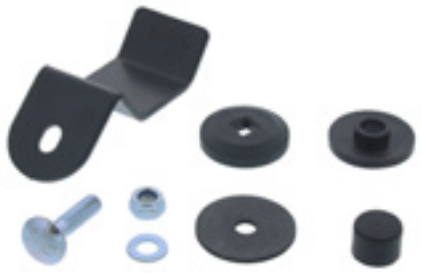
REF 100MC8954

ACCESSORIES – CLAMPS



Mounting kit

REF 100MC3554



Mounting kit

REF 100MC3576



M8

REF 100MC8955



- M8
- Dimensions (L x W x H): 80 x 38 x 36 mm

REF 100MC3555



- M8
- Dimensions (L x W x H): 34 x 30 x 20 mm

REF 100MC8956

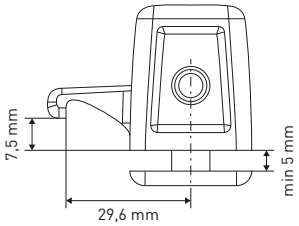
ACCESSORIES – WINDOWS



- Window lock kit
- Length: 62 mm
- Width: 37,5 mm
- Centre distance: 42 mm

REF 100MC3572





- Sliding window catch
- Length: 60,5 mm
- Width: 31 mm

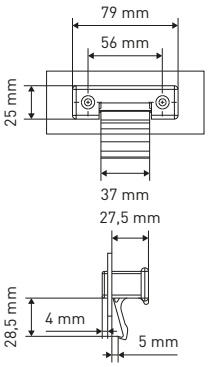
REF 100MC3577



- Window lock
- Length: 59 mm
- Width: 28,4 mm
- Centre distance: 36,5 mm

REF 100MC3574



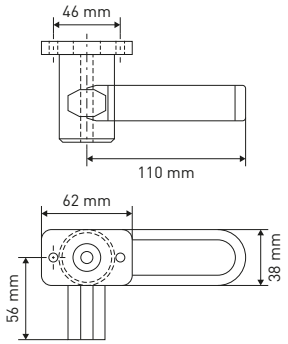


- Window lock
- Length: 79,5 mm
- Width: 36 mm
- Centre distance: 55 mm

REF 100MC3575

ACCESSORIES – WINDOWS

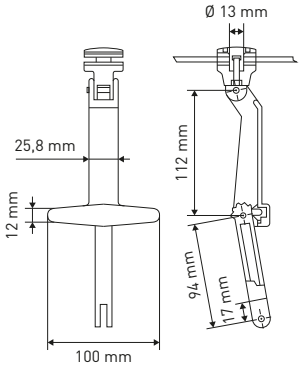




- Window lock
- Length: 130 mm
- Width: 75 mm
- Centre distance: 46 mm

REF 100MC3573

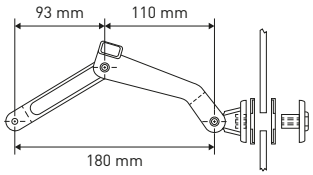




Window 2 positional stay (fully open or fully closed)

REF 100MC3578

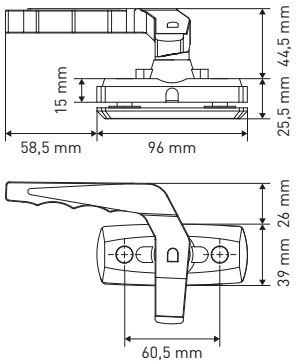




Window multi positional stay (various opening positions)

REF 100MC3579





REF 101MC3449
REF 100MC3580 – Opposite side

ACCESSORIES – WINDOWS



- Sunscreen
- PVC
- Dimensions: 480 x 150 mm

REF 100MC3583



- Sunscreen
- Tinted glass
- Dimensions: 450 x 135 mm

REF 100MC3584



- Wear strip
- Length: 83 mm
- Width: 12 mm
- Height: 9 mm

REF 100MC3570

GAS SPRINGS



Different types available

For references, go to MyProductSearch

GAS SPRINGS – TECHNICAL SHEET

Group	Example	Customer details
08-02-03-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

ATTENTION: a lot of shock absorbers don't have any expansive force and can also be compressed by hand. A shock absorber usually operates in combination with a coil spring.

TY-AT	Application: *D = shock absorber* *V = gas spring*
TY-GA	Type of gas spring/shock absorber (see figures). A shock absorber is always type A
D1	Piston rod diameter
N	Gas spring: strength in Newton Shock absorber: damping force in Newton (can also be 0 Newton)
C1	Centre distance, see figures
L1	Piston rod length, see figures
L2	Operational length, see figures
TY-CO1	Type of connection, piston rod side (see types)
W1a	Width of the connection
C2a	Centre distance mounting holes
D2a	Diameter of the ball
D3a	Diameter of the mounting eye
D4a	Diameter of the mounting
H1a	Mounting height
H2a	Bushing height
L3a	Overall length
L4a	Connecting distance
L5a	Distance between the fork
L6a	Length of thread
Ta	Mounting thickness
TA1a	Thread of mounting
TA2a	Thread of ball

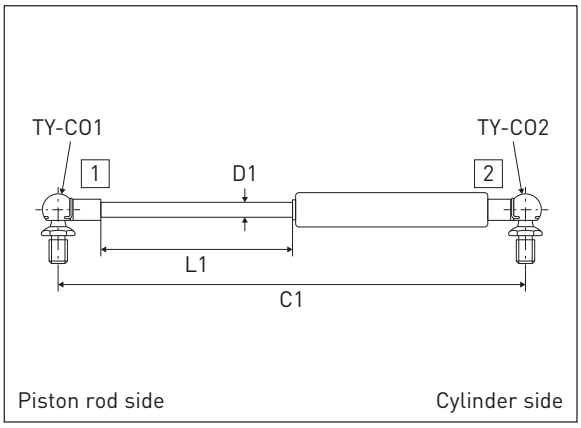
GAS SPRINGS – TECHNICAL SHEET

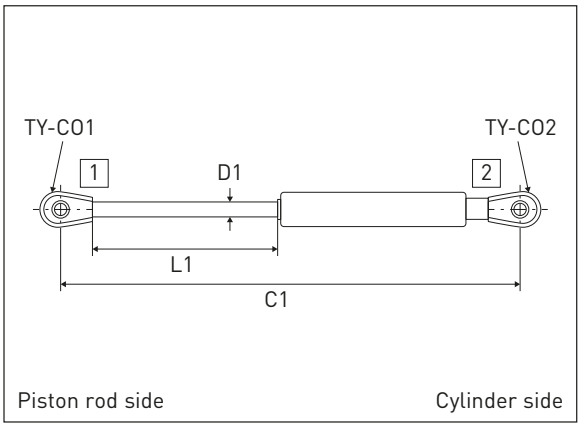
Baa	Ball present (yes/no)
TY-BUa	Bushing present (yes/no)
TY-CO2	Type of connection, piston side (see types)
W1b	Width of the connection
C2b	Centre distance mounting holes
D2b	Diameter of the ball
D3b	Diameter of the mounting eye
D4b	Diameter of the mounting
H1b	Mounting height
H2b	Bushing height
L3b	Overall length
L4b	Connecting distance
L5b	Distance between the fork
L6b	Length of thread
Tb	Mounting thickness
TA1b	Thread of mounting
TA2b	Thread of ball
Bab	Ball present (yes/no)
TY-BUb	Bushing present (yes/no)

GAS SPRINGS – TECHNICAL SHEET

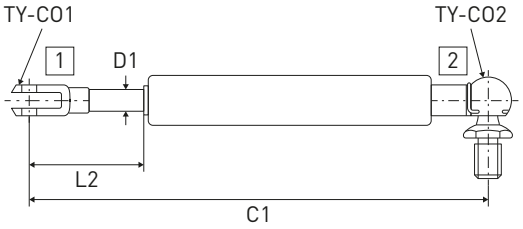
DIMENSIONS

Type A
Push





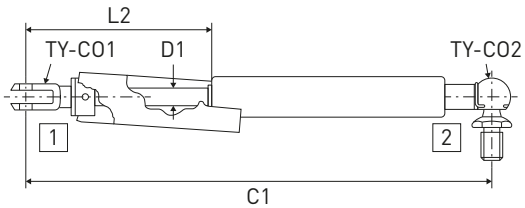
Type B
Pull



Piston rod side

Cylinder side

Type C
Locking



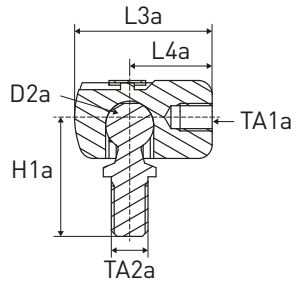
Piston rod side

Cylinder side

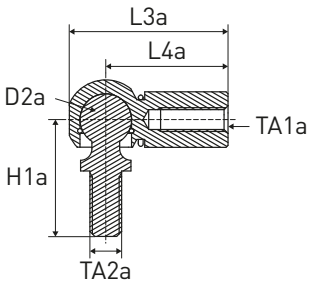
GAS SPRINGS – TECHNICAL SHEET

TY-C01

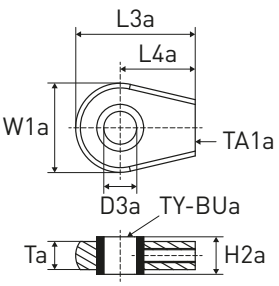
Type A



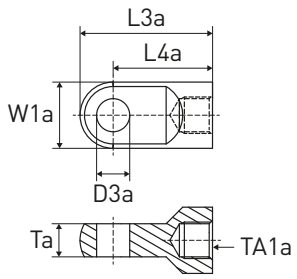
Type B



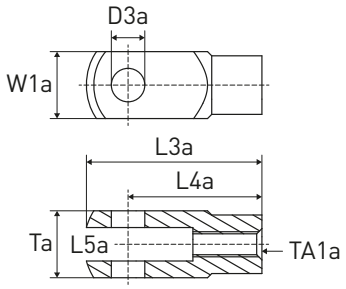
Type C



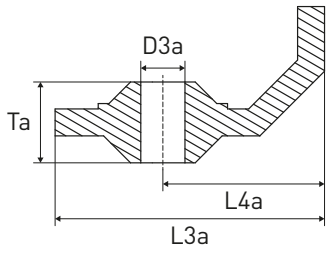
Type D



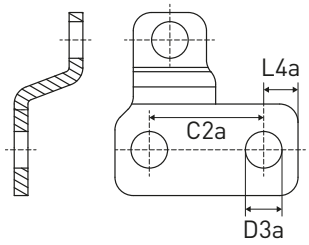
Type E



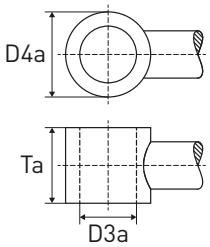
Type F



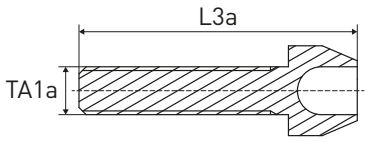
Type G



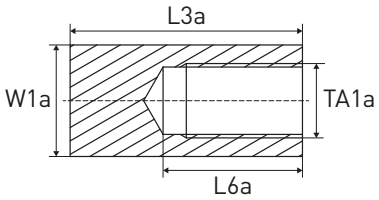
Type H



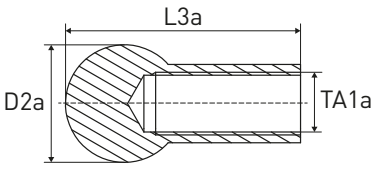
Type I



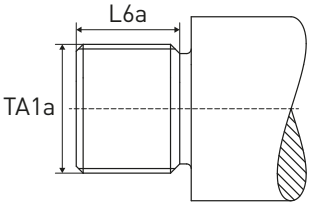
Type J



Type K



Type L



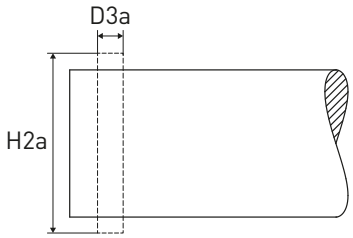
GAS SPRINGS – TECHNICAL SHEET

TY-C01

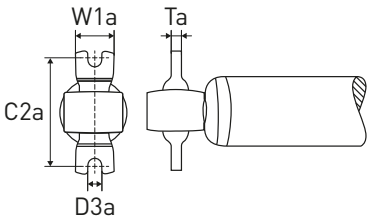
Type M



Type N

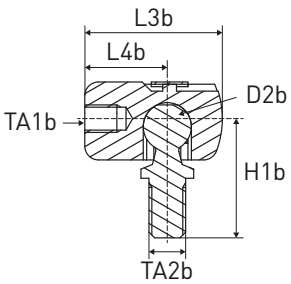


Type O

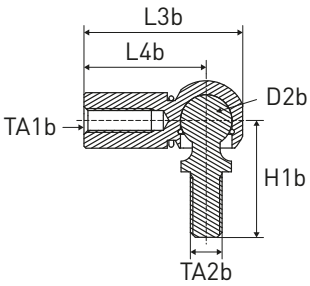


TY-C02

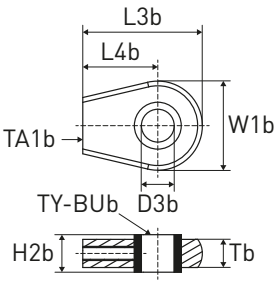
Type A



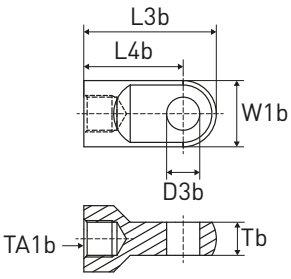
Type B



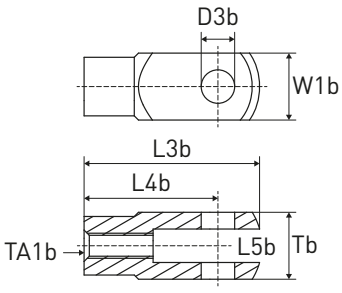
Type C



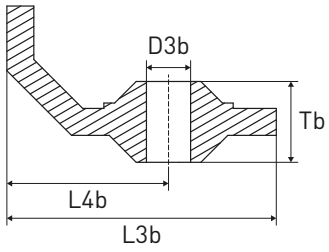
Type D



Type E



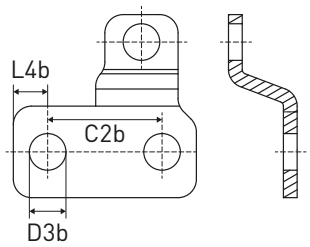
Type F



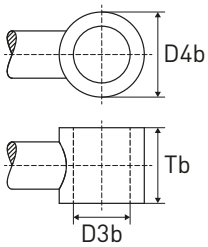
GAS SPRINGS – TECHNICAL SHEET

TY-C02

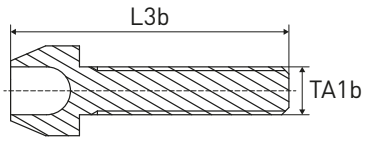
Type G



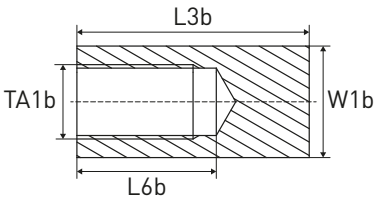
Type H



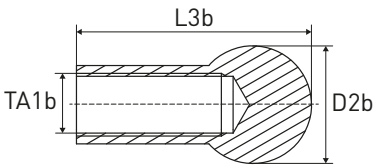
Type I



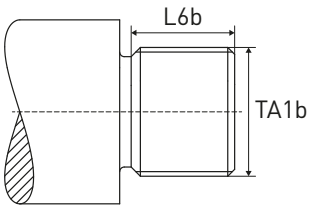
Type J



Type K



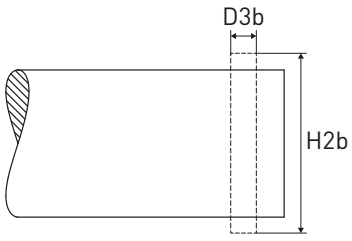
Type L



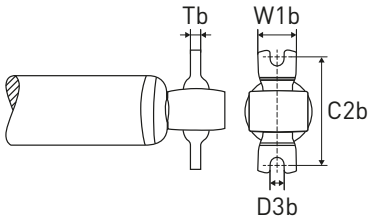
Type M



Type N



Type O

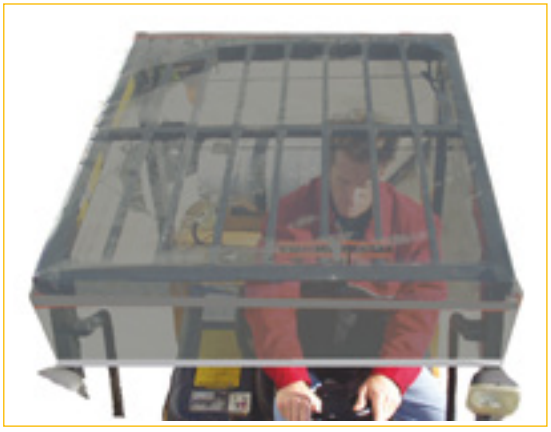


ACCESSORIES – CABS



- Canopy
- Transparent plastic
- Dimensions: 1 x 1 m
- To install, unfold the canopy and stretch over the existing overhead guard

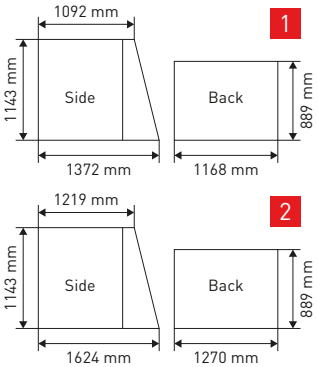
REF 100MC4143



- Tinted canopy protection for forklift trucks
- Protection against debris, rain and snow
- More coverage with the see-through visor
- Attaches to all forklift trucks in seconds
- Dimensions: 1340 x 1170 mm

REF 100MC4144





- PVC weatherguard
- Full enclosure for occasional use
- Assembled and disassembled on a forklift truck in only a couple of minutes

1. **REF 100MC3582** – Small type: up to 3 tonnes
2. **REF 100MC4089** – Large type: up to 6 tonnes

PANORAMIC MIRRORS – ECONOMIC VERSION



- Universal use
- Panoramic view 180°
- Shock-resistant (plastic housing + acrylic)
- Mount with M8-bolt
- Dimensions: 275 x 140 mm

REF 100MC3847

BEST BUY



- Universal use
- Panoramic view 180°
- Shock-resistant (plastic housing + acrylic)
- Adjustable ball joint height
- Dimensions: 275 x 140 mm

REF 100MC3848



- Universal use
- Panoramic view 180°
- Shock-resistant (plastic housing + acrylic)
- Ball joint adjustable laterally and in height
- Dimensions: 247 x 129 mm

REF 100MC3849



- Universal use
- Panoramic view 180°
- Metal frame/glass
- Including bracket for installation in cab
- Dimensions: 338 x 105 mm

REF 100MC3850



- Universal use
- Panoramic view 180°
- Shock-resistant (plastic housing + acrylic)
- Mounting bracket diameter: 10 mm
- Dimensions: 250 x 133 mm

REF 100MC3851



- Universal use
- Panoramic view 180°
- Shock-resistant (plastic housing + acrylic)
- To mount on existing arms (10–20 mm) or on roof with included kit
- Dimensions: 281 x 146 mm

REF 100MC3852

REARVIEW MIRRORS – ECONOMIC VERSION

BEST BUY



- Glass/rectangular shape
- To mount on M8-bolt
- Dimensions: 217 x 151 mm

REF 100MC3853



- Glass/rectangular shape
- To mount on M8-bolt
- Dimensions: 229 x 134 mm

REF 100MC3854



- Glass/rectangular shape
- To mount on M8-bolt
- Dimensions: 225 x 125 mm

REF 100MC3855



- Glass/rectangular shape
- Mounting kit included
- Dimensions: 207 x 106 mm

REF 100MC3856



- Glass/rectangular shape
- With mounting bracket M10
- Dimensions: 326 x 174 mm

REF 100MC3857



- Glass/rectangular shape
- With mounting bracket M8
- Dimensions: 158 x 98 mm

REF 100MC3858



- Glass/rectangular shape
- With mounting bracket M8
- Dimensions: 178 x 129 mm

REF 100MC3859



- Glass/oval shape
- To mount on M8-bolt
- Dimensions: 252 x 132 mm

REF 100MC3860

REARVIEW MIRRORS – ECONOMIC VERSION



- Glass/oval shape
- To mount on M8-bolt (support included)
- Dimensions: 203 x 118 mm

REF 100MC3861



- Glass/rectangular shape
- To mount on existing arms (10–22 mm)
- Dimensions: 195 x 145 mm

REF 100MC3862

BEST BUY



- Glass/rectangular shape
- To mount on M8-bolt
- Dimensions: 242 x 144 mm

REF 100MC3863



- Glass/rectangular shape
- To mount on existing arm diameter: 10 mm
- Dimensions: 420 x 195 mm

REF 100MC3864



- Glass/rectangular shape
- Mounting kit included
- Dimensions: 238 x 139 mm

REF 100MC3865

BEST BUY



- Parabolic surface
- PVC
- Dimensions: 220 x 130 mm

REF 100MC3866

MAGNETIC MIRROR



REF 100MC3867 – Diameter: 110 mm
– Flat

REF 100MC4091 – Diameter: 110 mm
– Panoramic

REF 100MC4092 – Diameter: 160 mm
– Flat

REF 100MC4093 – Diameter: 162 mm
– Panoramic

REF 100MC4094 – For use on non–magnetic surface
– A plated heavy–gauge steel plate with 3 extension arms of 6, 9 and 12"

GLASS-METAL BONDER



- Service temperature: up to 120°
- Viscosity: 2750 mPa·s
- Activator: REF 101MC3752 (included)
- Shear strength: 10 N/mm²
- Fixture time: 1 min
- 5 g

Loctite 319 typical applications include bonding materials such as metals, glass, ceramics or plastics.

REF 100MC9626

DOCUMENT HOLDERS

BEST BUY



- Waterproof
- For A4 documents
- Outer dimensions: 365 x 280 x 55 mm
- Inner dimensions: 320 x 220 x 30 mm
- Material: high-density polyethylene

REF 100MC3594



- Waterproof
- For A5 documents
- Outer dimensions: 295 x 195 x 45 mm
- Inner dimensions: 230 x 160 x 15 mm
- Material: high-density polyethylene

REF 100MC3597



- Economic version
- For A4 documents
- Outer dimensions: 320 x 260 x 55 mm
- Inner dimensions: 295 x 230 x 40 mm
- Material: high-density polyethylene

REF 100MC3595



- For A4 documents
- Dimensions: 305 x 310 mm
- Thickness up to 15 mm

REF 100MC3596



- Document net
- Dimensions: 360 x 340 x 220 mm

REF 100MC3598



- Document net
- Dimensions: 375 x 215 x 8 mm
- Consists of 2 halves

REF 100MC3599



- Waterproof document holder with safety symbol
- Length: 320 mm
- Outer dimensions: 318 x 55 mm
- Inner dimensions: 314 x 50 mm
- Material: polypropylene

REF 100MC3600



- Universal document holder
- Length: 370 mm
- Inner length: 325 mm
- Inner diameter: 70 mm
- Material: PVC
- Supplied with brackets

REF 100MC3601
REF 100MC4090 – Steel bracket for document holder

DOCUMENT HOLDERS



- Universal document holder
- Length: 400 mm
- Outer dimensions: 355 x 88 mm
- Inner dimensions: 348 x 82 mm
- Material: polypropylene

REF 100MC3602



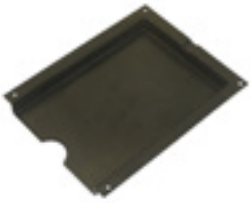
- Dimensions: 270 x 220 x 60 mm
- Material: ABS

REF 100MC3603



- For Sears 1200-series seats
- Dimensions: 230 x 162 x 20 mm

REF 100MC3604 – Plastic box with plexi cover
REF 100MC3605 – Plastic box only
REF 101MC3788 – Cover only



- For A5 documents
- Outer dimensions: 232 x 180 x 20 mm
- Inner dimensions: 214 x 166 x 17 mm
- Material: polyethylene
- Only for use inside cab due to open top

REF 100MC3608



- For Sears seats
- Dimensions: 330 x 270 mm
- Thickness up to 50 mm
- Material: imitation leather

REF 100MC3606



- For Grammer seats
- Dimensions: 365 x 235 mm

REF 100MC3607

RAM® MOUNTS

Composite universal quick draw scanner gun holder





Tough tray II™ universal netbook, iPad & tablet cradle holder





X-Grip® III universal clamping cradle for large tablets





Power-Grip™ universal scanner gun holder





RAM® MOUNTS

RAM® Mounts are fully adjustable for the best viewing angle and made in the USA.

Keep your electronic devices within easy reach using the RAM® Mounts patented ball and socket mounting system. Whether you're securing a tablet, barcode scanner, computer or other device, there's a design to fit your needs.

Depending on which device you want to install, you will need to choose the right holder and the right adapter to connect the holder with arm and base. The right compatible ball diameter is mentioned with the holders.

We supply 2 different ranges with ball diameter of 25,4 mm (1") or 38,1 mm (1 1/2").

Please check the holder and its compatible ball diameter to go to step and 4.

Step 1.
Select holder



See page 62

+

Step 2.
Select adapter (if required)



See page 63

+

Step 3.
Select arm



See page 63

+

Step 4.
Select base



=



See page 64

RAM® MOUNTS – HOLDERS





Power-Grip™ universal scanner gun holder

- Inner dimensions (L x B x H): 88 x 55 x 125 mm
- Compatible adapter diameter: 38,1 mm

REF 101MC3767

Shown: **REF 101MC3768** (required), **REF 101MC3782** and **REF 101MC3773**





Composite universal quick draw scanner gun holder

- Inner dimensions (L x B x H): 63,5 x 37 x 130 mm
- Compatible adapter diameter: 38,1 mm

REF 101MC3772

Shown: **REF 101MC3768** (required), **REF 101MC3782** and **REF 101MC3770**



Universal (i)phone cradle

- Width: 47,5–82,5 mm
- Compatible adapter diameter: 25,4 mm

REF 101MC3771



Universal cradle for 7 and 8" tablets

Compatible adapter diameter: 38,1 mm

REF 101MC3786

RAM® MOUNTS – HOLDERS





X-Grip® III universal clamping cradle for 9–10" tablets
Compatible adapter diameter: 25,4 mm

REF 101MC3774

Shown: **REF 101MC3768** (required), **REF 101MC3775** and **REF 101MC3776**





Tough Tray II™ universal Netbook, iPad and tablet cradle holder
- Dimensions (L x B): 200–280 x 150 mm
- Compatible adapter diameter: 38,1 mm

REF 101MC3787

Shown: **REF 101MC3768** (required), **REF 101MC3782** and **REF 101MC3770**

RAM® MOUNTS – COMPONENTS



Adapter

Diameter connector plate: 63,5 mm

REF 101MC3778 – Ball diameter: 25,4 mm (1")
REF 101MC3768 – Ball diameter: 38,1 mm (1 1/2")

Arms

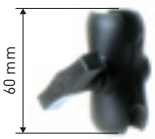
For ball 25,4 mm (1")



REF 101MC3779



REF 101MC3780



REF 101MC3781

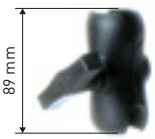
For ball 38,1 mm (1 1/2")



REF 101MC3775



REF 101MC3782



REF 101MC3783

RAM® MOUNTS – COMPONENTS

Bases

With ball 25,4 mm (1")



REF 101MC3789 – For profile max: 63,5 x 54 mm
REF 101MC3790 – For profile max: 101,5 x 54 mm



REF 101MC3791 – For diameter tube min 25,4 mm or max 53,3 mm

With ball 38,1 mm (1 1/2")



REF 101MC3792 – For profile max: 65,5 x 54 mm
REF 101MC3773 – For profile max: 101,5 x 44 mm



REF 101MC3776 – For diameter tube min 25,4 mm or max 53,3 mm



REF 101MC3770 – For diameter tube min 50,8 mm or max 63,5 mm

OTHER STORAGE SYSTEMS



- Cellphone holder
- With suction cup for mounting

REF 100MC3609



- Support assy
- Dimensions: 340 x 223 mm

REF 100MC3610





- Dimensions: 230 x 380 mm
- Superstrong magnet
- Constructed of tough ABS plastic
- Organised and convenient working, anywhere

REF 100MC3611





- Dimensions (L x W x H): 142 x 102 x 84,5 mm (without foot)
- Dimensions (L x W x H): 142 x 102 x 140 mm (foot included)
- Diameter of magnetic foot: 85,7 mm

REF 100MC3612



- Jumbo size magnetic box for hand tools, power tools ...
- Dimensions (L x W x H): 240 x 195 x 138 mm
- Without foot

REF 100MC3613

OTHER STORAGE SYSTEMS





Toolbox with screws, pen and manual that includes the drilling pattern and expansion options

- Dimensions (L x B x H): 510 x 170 x 110 mm
- Self adhesive

REF 100MC3614



- Document clamp
- Dimensions: 80 x 44 mm

REF 100MC3615



- Document clamp
- Dimensions: 120 x 31 mm
- Centre distance: 87 mm

REF 100MC3617



- Document clamp
- Dimensions: 110 x 40 mm
- Centre distance: 93 mm

REF 100MC3618

COCKPIT SPRAY

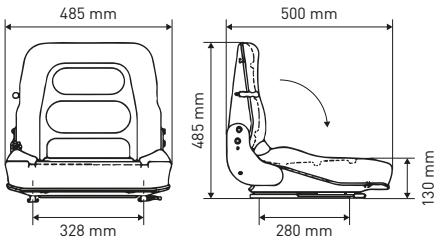


- Cleans and renovates plastics and rubbers
- Does not contain silicone
- Removes stains on dashboards
- Forms a clear, shiny, water-repellent film
- Leaves a fresh fragant smell
- Content: 500 ml

REF 100MC9622

ES10

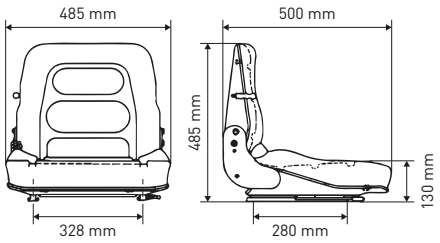




REF 100MC3874 – Seat PVC
REF 100MC4095 – Seat cushion PVC
REF 100MC4096 – Backrest cushion PVC

ES12HD

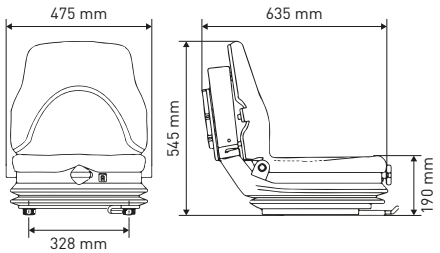




REF 100MC3875 – HD seat PVC
REF 100MC4097 – HD Seat cushion PVC
REF 100MC4098 – HD Seat cushion PVC + switch (OPS)
REF 100MC4099 – HD Backrest cushion

TECHNICO

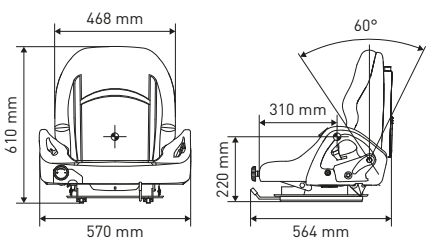




REF 100MC3876 – Seat PVC
REF 100MC4100 – Seat cushion PVC
REF 100MC4101 – Seat cushion grey PVC
REF 100MC4102 – Backrest cushion PVC
REF 100MC4103 – Backrest cushion grey PVC

WINGBACK NEXT GENERATION

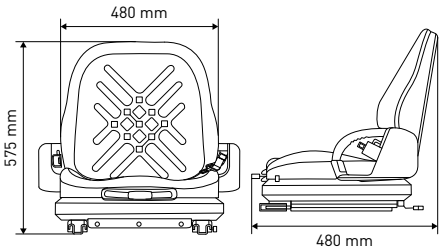




REF 100MC3877 – Seat PVC + switch (OPS) + seat belt
REF 100MC4104 – Seat cushion PVC
REF 100MC4105 – Backrest cushion PVC

TS240

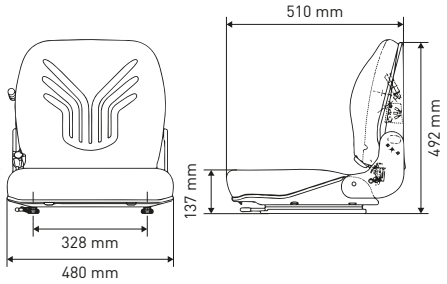




REF 100MC3878 – Seat PVC + switch (OPS) + seat belt PVC
REF 100MC4106 – Seat cushion PVC
REF 100MC4107 – Backrest cushion PVC

B12

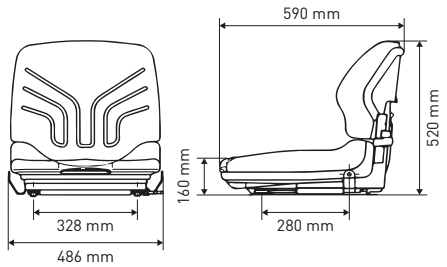




REF 100MC3879 – Seat PVC
REF 100MC4108 – Seat cushion PVC
REF 100MC4109 – Backrest cushion PVC

MSG20

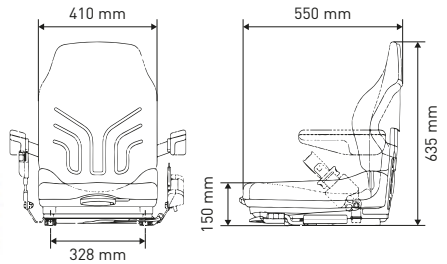




REF 100MC3880 – Seat PVC
REF 100MC4110 – Seat cushion PVC
REF 100MC4111 – Backrest cushion PVC
REF 100MC8977 – Heating kit 12/24 V
REF 100MC8974 – Heating kit 48 V

MSG20 NARROW

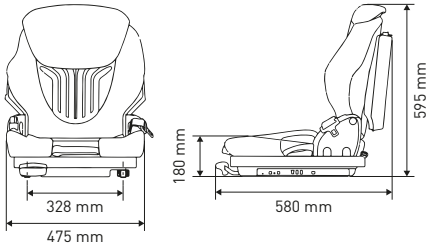




REF 100MC3881 – Seat fabric (black, blue)
REF 100MC4114 – Seat cushion PVC
REF 100MC4115 – Backrest cushion PVC
REF 100MC4116 – Cushion kit heated 12/24 V

PRIMO XM



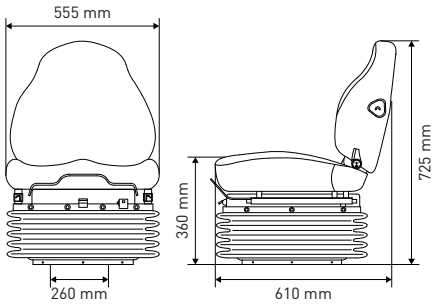


GRAMMER

REF 100MC3882 – Seat PVC + switch (OPS) + seat belt
REF 100MC4117 – Seat cushion PVC
REF 100MC4118 – Backrest cushion PVC
REF 100MC4119 – Backrest extension
REF 100MC4120 – Heated seat cushion (12/24 V)
REF 100MC8975 – Heated backrest cushion (12/24 V)
REF 101MC3172 – Cable set heating, 12 V
REF 101MC3173 – Cable set heating, 24 V

85E6



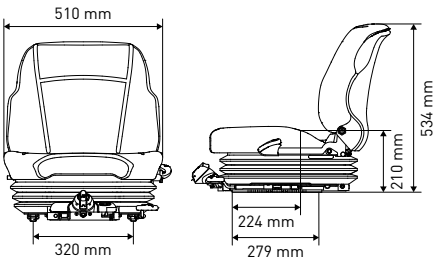


KAB Seating

REF 100MC3883 – Seat 12 V fabric
REF 100MC4121 – Seat cover
REF 100MC4122 – Backrest cover
REF 100MC4123 – Backrest extension
– TotalSource headrest
REF 101MC3174 – Seat foam
REF 101MC3175 – Backrest foam

1700





SEARS SEATING

REF 100MC3884 – Seat PVC + switch (OPS)
REF 100MC4124 – Seat cushion + switch (OPS)
REF 100MC4125 – Backrest cushion

UNIVERSAL SEAT MOUNTING KIT



REF 100MC3885

EZE BELT

securon



Characteristics:

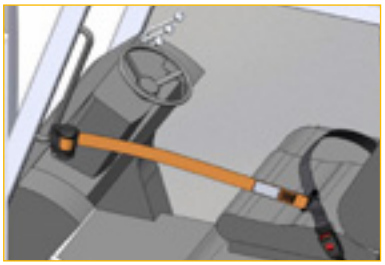
- The EZE belt is designed to encourage use of the provided operator safety belt
- Mounted on the grab handle

REF 101MC3176

This is not a safety belt



1. EZE retractor holds safety belt tongue ready for operator. (N.B. if using an ALR safety belt, ALR webbing must be completely retracted before attempting to fasten safety belt).



2. With safety belt engaged around wearer, EZE retractor webbing stays taut and does not obstruct whilst manoeuvring the vehicle.

SPRINGBELT ALR/ELR







REF 101MC3177 – Springbelt ALR orange electric
REF 101MC3178 – Springbelt ELR orange electric

Springbelt is a remarkable product that has been refined and developed over many years to protect both employees and employers. It's called Springbelt, because as you can see, it springs up when unbuckled making it a real nuisance and cannot be sat on as per a normal belt/buckle.
When it's buckled, it holds the operator firmly, comfortably and safely in their seat. It can be fitted easily to all common types of mobile machinery providing highly visible workplace protection for you and your operators.







SEATS & ACCESSORIES



TVH has a wide range of seats, straight from the manufacturer. It is not just the make, the dimensions and the upholstery (PVC, fabric or velour) that matter: to ensure absolute comfort, you can personalise your seat with lots of options or accessories. As we have an extensive stock, we guarantee a short delivery period. For more detailed info, consult our 'Seats & accessories' catalogue. In case you are specifically looking for a Grammer seat, you can consult the 'Grammer seats' catalogue.

Please consult our Seats & accessories (REF 27506014) and Grammer seats (REF 29127398) catalogues

Go to downloads on www.tvh.com to view the catalogue online.

TEXTILE CLEAN PRO



- Provides the entire car with a fresh and clean feeling
- Powerfull, fast acting cleaning foam, penetrates quickly
- Cleans seat covers, carpets, fabric, vinyl and leather
- Safe to use on all surfaces
- Eliminates unpleasant odours
- Content: 500 ml

REF 101MC3753

MAT

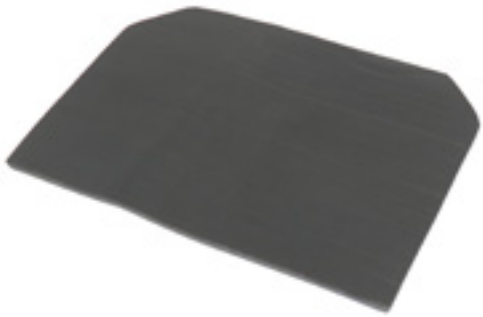


- With profile
- Sold per m²

REF 100MC3503

This is a selection of numbers. For all other rubber floor mats, please contact our sales department!

ERGONOMIC MATS

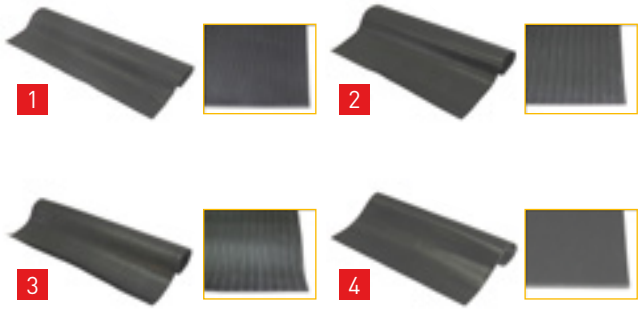


Advantages for the employees:

- Increased antiskid safety
- Reduction of risk of cramp and circulatory problems
- Reduction of muscular activity
- Delay in the onset of tiredness, resulting in an improved work environment
- Increased productivity
- Usage: suitable for dry areas
- Material: charcoal grey polyurethane
- Maximum height: 15 mm
- Bevelled edges
- Elasticity: unusually high, among the very best on the market
- Durability: unbeatable
- 5-year warranty applies if used in dry areas

REF 100MC3504 – Floor mat for BT stand-on truck
REF 100MC4081 – Special ergonomic floor mat
– Dimensions: 600 x 900 x 15 mm

ANTISKID MATS



High resistance to wear and tear

Fig	Grooves	Width mm	Thickness mm	Remark	REF
1	small	1200	3	can be glued	100MC3505
2	thick	1000	3	can be glued	100MC3506
3	thick	1200	6	can be glued	100MC3507
4	small	1200	8	foam rubber on bottom of pad	100MC3508

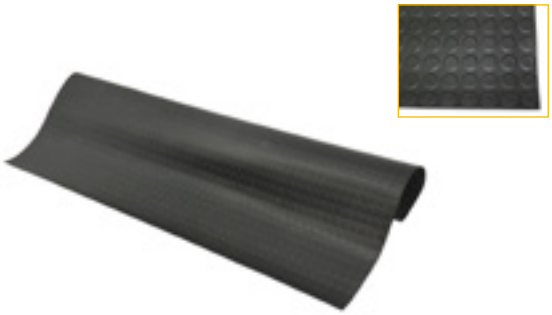
ANTISKID FLOOR MAT



- Length: 585 mm
- Width: 360 mm

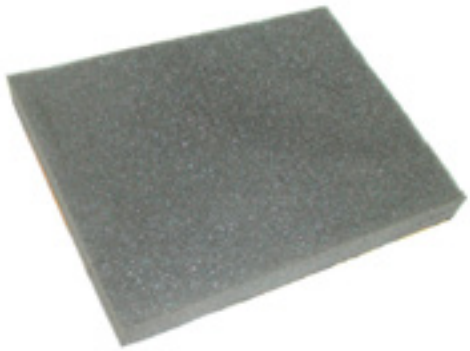
REF 100MC3531

ANTISKID MAT



REF 100MC3509

SOUND-PROOFING



- Cellular rubber
- Dimensions: 2 x 1,5 m
- Strong self-adhesive tape

REF 100MC3536 – Thickness: 20 mm
REF 100MC4083 – Thickness: 25 mm
REF 100MC4084 – Thickness: 30 mm

GLUE





- Universal liquid contact adhesive for general use
- Ready-to-use
- Fast drying
- Temperature resistant (min up to 100 °C)

REF 100MC3510 – 5 l
REF 100MC4082 – 750 ml

ANTISKID SHEETS



Self-adhesive

Length mm	Width mm	REF
120	50	100MC3512
185	102	100MC3532*
190	90	100MC3533*
235	85	100MC3513
204	178	100MC9642
280	180	100MC3514
290	55	100MC3515
350	275	100MC3516
480	140	100MC3517
610	152	100MC3518
900	99	100MC3524
920	150	100MC3525
1000	100	100MC3526
1000	103	100MC3523
1000	305	100MC9643
1000	610	100MC9644
1270	150	100MC3519
1300	102	100MC3527
1400	102	100MC3530
1800	101	100MC3528
2200	100	100MC3529
1000	305	100MC9643
1000	610	100MC9644

* Antiskid floormat

SELF-ADHESIVE ANTISKID ROLLS



Length m	Width mm	REF
18,3	19	100MC9645
18,3	50	100MC3520
18,3	100	100MC9646
18,3	150	100MC9647
18,3	200	100MC9648
18,3	300	100MC9649
18,3	610	100MC9650
18,3	1220	100MC9651

ANTISKID TAPE



- Length: 18,3 m
- Width: 50 mm
- Red/white

REF 100MC3535

ANTISKID SPRAY



- Quick-fix, anti slip coating
- Suitable for in- and outdoor applications
- Can be applied to metal, glass fibre plate, marble and many other bases
- Suitable for pedestrian traffic
- Coverage: 1,5–2,5 m² per spray can
- Content: 400 ml

REF 100MC9618

ANTISLIP COATING



- Protective fluid polyurethane coating on all surfaces
- Contains rubber granules that provide a sound absorbing effect
- For hard-adherent surfaces a primer is advised: REF 101MC3379 (1 l)
- Kit 4 l (contains: paint rollers, gloves, abrasive sheet)

REF 100MC9619

EUROPEAN FIRST-AID CAR KIT

CE



Small first-aid kit, ideal for use in cars ...

Dimensions: 263 x 170 x 83 mm

Contents:

- 1 triangular bandage TNT 96 x 96 x 136 cm (DIN 13168-D)
- 2 adhesive plasters 10 x 6 cm (DIN 13019)
- 1 pair of scissors 10 cm
- 1 pair of plastic tweezers
- 1 cotton wool pack 20 g
- 1 pack of 10 assorted adhesive plasters (DIN 13019)
- 2 gauze bandages 7 cm
- 1 adhesive plaster roll 5 x 2,5 cm
- 1 pair of gloves
- 2 packs of sterile TNT pads 1 x 1 cm
- 1 instant ice pack
- Guidance leaflet 5 languages

REF 100MC9620

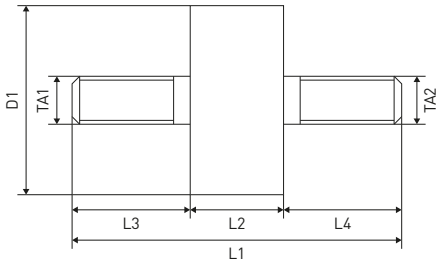
PEDAL PADS



This is a selection of numbers. For all other rubber floor mats, please contact our sales department!

MOUNTING RUBBERS – TYPE A



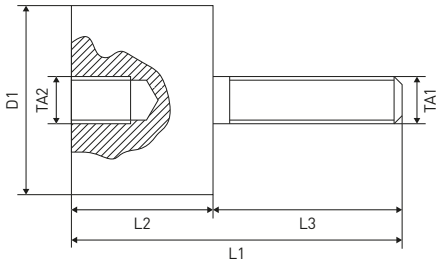


Diameter D1 mm	Length L2 mm	Type of thread TA1= TA2	Length L3 = L4 mm	REF
8	8	M3	15	100MC2538
10	10	M4	10	100MC2539
15	10	M5	10	100MC2540
20	8	M6	15	100MC2543
20	10	M6	15	100MC2541
20	20	M6	18	100MC2544
20	20	M6	20	100MC2542
25	15	M6	18	100MC2548
25	15	M8	20	100MC2550
25	20	M6	18	100MC2547
25	20	M8	20	100MC2545
25	25	M6	15	100MC2546
25	25	M8	20	100MC2549
30	15	M8	15	100MC2555
30	15	M8	20	100MC2552
30	15	M8	23	100MC2559
30	20	M8	20	100MC2558
30	22	M8	20	100MC2553
30	25	M8	20	100MC2556
30	30	M8	20	100MC2557

Diameter D1 mm	Length L2 mm	Type of thread TA1= TA2	Length L3 = L4 mm	REF
30	35	M8	23	100MC2551
30	40	M8	20	100MC2554
40	15	M8	20	100MC2562
40	20	M8	15	100MC2560
40	20	M8	20	100MC2561
40	30	M8	23	100MC2563
40	35	M10	25	100MC2565
40	40	M8	20	100MC2564
50	20	M10	25	100MC2568
50	30	M10	28	100MC2566
50	40	M10	30	100MC2570
50	42	M12	20	100MC2569
50	50	M10	30	100MC2567
60	40	M10	28	100MC2572
60	30	M12	42	100MC2571
70	45	M10	28	100MC2573
75	40	M12	37	100MC2575
75	55	M12	37	100MC2574
100	55	M12	37	100MC2576

MOUNTING RUBBERS – TYPE B



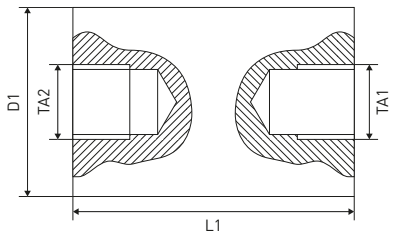


Diameter D1 mm	Length L2 mm	Type of thread TA1= TA2	Length L3 mm	REF
10	10	M4	10	100MC2577
12	10	M4	10	100MC2578
15	15	M6	10	100MC2579
15	20	M4	10	100MC2580
20	15	M6	15	100MC2581
20	20	M6	15	100MC2582
20	25	M6	15	100MC2583
25	15	M6	12	100MC2584
25	20	M6	18	100MC2585
25	25	M6	23	100MC2586
30	15	M8	20	100MC2590
30	18	M10	12	100MC2589
30	20	M8	15	100MC2592
30	20	M8	20	100MC2591
30	30	M8	15	100MC2593
30	30	M8	20	100MC2594
30	35	M8	23	100MC2595

Diameter D1 mm	Length L2 mm	Type of thread TA1= TA2	Length L3 mm	REF
30	40	M8	20	100MC2588
40	28	M10	25	100MC2597
40	30	M8	23	100MC2599
40	30	M10	15	100MC2598
40	30	M10	25	100MC2601
40	40	M8	25	100MC2596
40	45	M10	25	100MC2600
50	20	M10	15	100MC2608
50	20	M10	25	100MC2602
50	20	M10	38	100MC2603
50	30	M10	23	100MC2604
50	30	M10	28	100MC2605
50	40	M10	28	100MC2606
50	45	M10	28	100MC2607
75	40	M12	12	100MC2609
75	40	M12	37	100MC2611
75	40	M12	42	100MC2610

MOUNTING RUBBERS – TYPE C



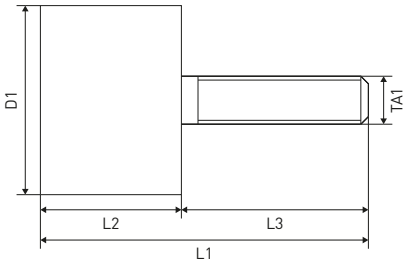


Diameter D1 mm	Length L1 mm	Type of thread TA1= TA2	REF
20	15	M6	100MC2612
20	20	M6	100MC2613
20	25	M6	100MC2614
30	20	M8	100MC2615
30	30	M8	100MC2616
40	30	M8	100MC2617
40	30	M10	100MC2618
40	35	M10	100MC2619
40	40	M8	100MC2620

Diameter D1 mm	Length L1 mm	Type of thread TA1= TA2	REF
50	30	M10	100MC2621
50	40	M10	100MC2622
50	45	M10	100MC2623
50	50	M10	100MC2624
60	45	M10	100MC2625
65	35	M12	100MC2626
70	45	M10	100MC2627
75	40	M12	100MC2628

MOUNTING RUBBERS – TYPE D





Diameter D1 mm	Length L2 mm	Type of thread TA1	Length L3 mm	REF
20	8,5	M6	15	100MC2631
20	15	M6	15	100MC2629
20	20	M6	15	100MC2630
25	8	M6	18	100MC2632
25	12	M10	28	100MC2633
25	13	M6	18	100MC2634
25	15	M8	12	100MC2637
25	17	M6	18	100MC2635
25	25	M8	20	100MC2636
30	15	M8	15	100MC2642
30	15	M8	20	100MC2639
30	15	M8	25	100MC2640
30	15	M8	28	100MC2641
30	17	M8	20	100MC2643
30	20	M8	20	100MC2644
30	25	M8	23	100MC2645
30	30	M8	20	100MC2638

Diameter D1 mm	Length L2 mm	Type of thread TA1	Length L3 mm	REF
40	20	M10	25	100MC2647
40	20	M10	28	100MC2646
40	25	M10	20	100MC2650
40	25	M10	25	100MC2648
40	25	M10	28	100MC2649
40	30	M8	23	100MC2652
40	30	M10	25	100MC2651
50	12	M8	23	100MC2657
50	12	M10	28	100MC2660
50	15	M12	33	100MC2655
50	20	M10	18	100MC2658
50	20	M10	20	100MC2656
50	20	M10	28	100MC2654
50	25	M10	10	100MC2653
50	25	M10	25	100MC2659
75	25	M12	37	100MC2661
100	55	M12	28	100MC2662

STEERING KNOBS – TECHNICAL SHEET

Group	Example	Customer details
12-01-06-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY . . . . . Type of steering knob, see types
L1 . . . . . Total length (see drawing)
D1 . . . . . Biggest outer diameter (see drawing)
L2 . . . . . Length (see drawing)
D2 . . . . . Inner diameter (see drawing)
TA . . . . . Type of thread

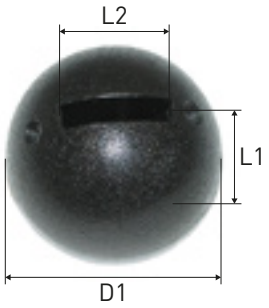
STEERING KNOBS – TECHNICAL SHEET

TYPES

Type A
Steering knob with support

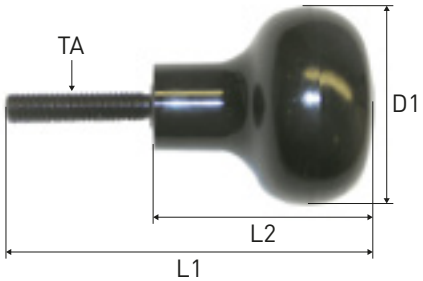


Type B
Steering knob with hole or internal thread





Type C
Steering knob with external thread



Type S
Special

STEERING KNOBS



· Length: 116 mm
· Diameter: 50,5 mm

REF 100MC3784



· Length: 111 mm
· Diameter: 50,5 mm

REF 100MC3825



· Length: 96 mm
· Diameter: 50,5 mm

REF 100MC3826



· Length: 102 mm
· Diameter: 56 mm

REF 100MC3813



· Length: 90 mm
· Diameter: 47 mm

REF 100MC3790



· Length: 112 mm
· Diameter: 55 mm

REF 100MC3791



· Length: 71 mm
· Diameter: 51 mm

REF 100MC3796



· Length: 102 mm
· Diameter: 46,5 mm

REF 100MC3794

For length and diameter see page 81 for the drawing.

STEERING KNOBS



- Length: 99 mm
- Diameter: 52 mm

REF 100MC3803



- Length: 86 mm
- Diameter: 60,5 mm

REF 100MC3805



- Length: 118 mm
- Diameter: 52 mm

REF 100MC3809



- Length: 91 mm
- Diameter: 51 mm

REF 100MC3812



- Length: 95 mm
- Diameter: 49,5 mm

REF 100MC3816



- Length: 107 mm
- Diameter: 52 mm

REF 100MC3817

BEST BUY



- Length: 111 mm
- Diameter: 50 mm

REF 100MC3828



- Length: 89 mm
- Diameter: 52 mm

REF 100MC3837

For length and diameter see page 81 for the drawing.

STEERING KNOBS



· Length: 106 mm
· Diameter: 52 mm

REF 100MC3839



· Length: 105 mm
· Diameter: 52 mm

REF 100MC3840



· Length: 128 mm
· Diameter: 50,5 mm

REF 100MC8957



· Length: 108 mm
· Diameter: 52 mm

REF 100MC8959



· Length: 85 mm
· Diameter: 52 mm

REF 100MC3792



· Length: 63 mm
· Diameter: 53 mm

REF 100MC3795



· Length: 50 mm
· Diameter: 51 mm

REF 100MC3797



· Length: 45 mm
· Diameter: 52 mm

REF 100MC3802

For length and diameter see page 81 for the drawing.

STEERING KNOBS



- Length: 43,5 mm
- Diameter: 52 mm

REF 100MC3818



- Length: 51 mm
- Diameter: 45 mm

REF 100MC3820



- Length: 50 mm
- Diameter: 44 mm

REF 100MC3821



- Length: 63 mm
- Diameter: 56 mm

REF 100MC3822



- Length: 45 mm
- Diameter: 52 mm

REF 100MC3824



- Length: 43 mm
- Diameter: 51 mm

REF 100MC3829



- Length: 64 mm
- Diameter: 49 mm

REF 100MC3830



- Length: 63,5 mm
- Diameter: 50 mm

REF 100MC3831

For length and diameter see page 81 for the drawing.

STEERING KNOBS



- Length: 43,5 mm
- Diameter: 52 mm

REF 100MC3845



- Length: 100,6 mm
- Diameter: 53 mm

REF 100MC3785



- Length: 75,5 mm
- Diameter: 56,5 mm

REF 100MC3786



- Length: 83 mm
- Diameter: 60 mm

REF 100MC3787



- Length: 69,5 mm
- Diameter: 36,5 mm

REF 100MC3788



- Length: 85 mm
- Diameter: 51 mm

REF 100MC3789



- Length: 85 mm
- Diameter: 53 mm

REF 100MC3793



- Length: 84 mm
- Diameter: 52 mm

REF 100MC3798

For length and diameter see page 81 for the drawing.

STEERING KNOBS



· Length: 83 mm
· Diameter: 52 mm

REF 100MC3799



· Length: 69 mm
· Diameter: 50,7 mm

REF 100MC3800



· Length: 74 mm
· Diameter: 52 mm

REF 100MC3801



· Length: 84 mm
· Diameter: 51 mm

REF 100MC3804



· Length: 76 mm
· Diameter: 51 mm

REF 100MC3806



· Length: 84 mm
· Diameter: 51 mm

REF 100MC3807



· Length: 95 mm
· Diameter: 51 mm

REF 100MC3765



· Length: 88 mm
· Diameter: 52 mm

REF 100MC3808

For length and diameter see page 81 for the drawing.

STEERING KNOBS



- Length: 75 mm
- Diameter: 52 mm

REF 100MC3810



- Length: 82 mm
- Diameter: 52 mm

REF 100MC3811



- Length: 95 mm
- Diameter: 60 mm

REF 100MC3814



- Length: 99 mm
- Diameter: 38 mm

REF 100MC3815



- Length: 81,5 mm
- Diameter: 50 mm

REF 100MC3819



- Length: 82,5 mm
- Diameter: 45 mm

REF 100MC3823



- Length: 80 mm
- Diameter: 56 mm

REF 100MC3827



- Length: 81,5 mm
- Diameter: 50 mm

REF 100MC3832

For length and diameter see page 81 for the drawing.

STEERING KNOBS



- Length: 80 mm
- Diameter: 50 mm

REF 100MC3833



- Length: 68,5 mm
- Diameter: 51 mm

REF 100MC3834



- Length: 88 mm
- Diameter: 52 mm

REF 100MC3835



- Length: 81 mm
- Diameter: 54,5 mm

REF 100MC3836



- Length: 80 mm
- Diameter: 44,5 mm

REF 100MC3838



- Length: 88 mm
- Diameter: 58 mm

REF 100MC3841



- Length: 83 mm
- Diameter:50 mm

REF 100MC3842



- Total length: 78 mm
- Diameter: 52 mm

REF 100MC3843

For length and diameter see page 81 for the drawing.

STEERING KNOBS



- Length: 85 mm
- Diameter: 50 mm

REF 100MC3844

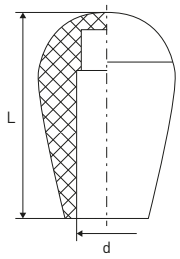


- Length: 82 mm
- Diameter: 50,5 mm

REF 100MC8958

For length and diameter see page 81 for the drawing.

KNOBS

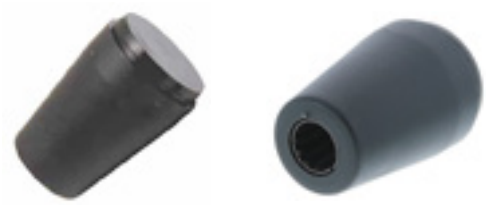


	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Clark, Nissan, Toyota	50 x 35	64,5	Diameter: 12,6	100MC3742
	BT, Clark, Hyster, Toyota, Yale	50 x 35	65	Diameter: 12,5	100MC3751
	Clark, Hyster, Nissan, Samsung, TCM, Yale	51 x 35	64,5	Diameter: 12,5	100MC3752
	BT, Caterpillar, Clark, Hyster, Mitsubishi, Nichiyu, Yale	50 x 35	64	Diameter: 12	100MC8960
	Manitou, Toyota	39 x 31	79	Diameter: 18	100MC3728
	Nissan D01/D02 series	Diameter: 16	25	Diameter: 6	100MC3709

KNOBS

	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Jungheinrich, Komatsu, Steinbock	Diameter: 34,7	41,5	Diameter: 8,25	**100MC3710**
	Jungheinrich	71,5 x 34	90	Diameter: 11	**100MC3712**
	Caterpillar, Jungheinrich, Komatsu Mitsubishi	45 x 31,5	60	13,8 x 8,25	**100MC3713**
	Caterpillar, Manitou, Mitsubhishi, Nissan, Toyota	33 x 39	55	M10 x 1,5	**100MC3714**
	Komatsu, Manitou, Toyota	40 x 33	53	M10 x 1,25	**100MC3715**
	Caterpillar, Manitou, Mitsubishi, Toyota	32,5 x 40,5	56	Diameter: 12,5	**100MC3716**
	Clark, Komatsu, Linde, Mitsubishi, Nissan, Still, Toyota	39,5 x 30	66	Diameter: 13,75	**100MC3717**

KNOBS

	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Hyster, Yale	Diameter: 40	58,5	Diameter: 12,8	**100MC3718**
	Caterpillar, Mitsubishi, Nissan	42,5 x 34,5	65	Diameter: 10,6	**100MC3719**
	Caterpillar, Mitsubishi, Nissan, Unicarriers	42,5 x 34,5	65	Diameter: 10,6	**100MC3720**
	Daewoo/Doosan	19,5 x 31	29,5	Square 8	**100MC3730**
	Komatsu, Nissan, TCM	40 x 34	71	Diameter: 11,5	**100MC3731**
	Linde, Still	Diameter: 25	29,5	M5 x 1,25	**100MC3733**
	Hyster, Yale	Diameter: 27	40	Diameter: 10	**100MC3736**

KNOBS

	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Linde, Still	65 x 47	76	Square 23	100MC3741
	Hyster, Jungheinrich, Komatsu, Yale	33 x 42,5	42,5	M12 x 1,75	100MC3748
	Caterpillar, Crown, Daewoo/Doosan, Mitsubishi	40 x 33	62	M12 x 1,75	100MC3749
	Caterpillar, Hyster, Jungheinrich, Mitsubishi, Yale	43 x 33	44	M12 x 1,75	100MC3750
	Clark, Huyndai, Komatsu, Linde, Nissan, Still, Toyota	39 x 30	66	Diameter: 13,6	100MC3721
	Hyster, Komatsu, Linde, Still, Yale	Diameter: 29,9	69,2	Diameter: 10/14	100MC3737
	BT, Clark, Hyster, Nissan, Yale	Diameter: 41,5	30	Diameter: 8	100MC3757

KNOBS

	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Clark, Heli, OMG, Still, TCM, Unicarriers	38 x 33	74	Diameter: 11,7	100MC3760
	Clark, Nissan, TCM, Climax, Still, OMG, Unicarriers, Heli,	40,5 x 33,5	70	Diameter: 11	100MC3761
	Caterpillar, Clark, Halla, Hyuandai, Hyster, Komatsu, Linde, Mitsubishi, Still, Toyota, Yale	40 x 30	64,5	Diameter: 13,8	100MC3723
	EP Forklift, Hangcha, Hyster, Nissan, TCM, Yale,	41 x 32	64	Diameter: 13	100MC3762
	BT, Manitou, Toyota	41,5 x 31,5	61	Diameter: 13	100MC3763
	BT, Manitou, Nissan, TCM, Toyota, Unicarriers	41 x 32,5	66	Diameter: 12,6	100MC3764
	Caterpillar, EP forklift, Mitsubishi, Nissan, Unicarriers	40 x 31,5	65,5	Diameter: 13	100MC3722

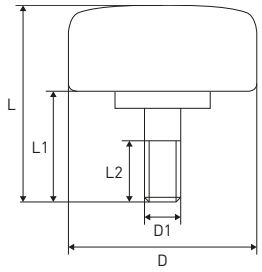
KNOBS

	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Halla, Hyundai, Kalmar, Komatsu, Still	Diameter: 26	70	Diameter: 13,7	100MC3766
	Halla, Hyundai, JL forklift, Kalmar, Komatsu, Linde, Nissan, Still	49 x 42	89	Diameter: 17	100MC3768
	Caterpillar, Hyster, Mitsubishi, Yale	Diameter: 47,8	38	3/8" UNF 24 G	100MC3769
	Caterpillar, Hyster, Mitsubishi, Yale	Diameter: 48	37,5	3/8" UNF 24 G	100MC3770
	Fiat, Komatsu, Linde, OM-Pimespo, Still	Diameter: 40	37	M8	100MC3773
	Caterpillar, Jungheinrich, Mitsubishi	Diameter: 28,5	63	M8	100MC3774
	TCM, Unicarriers	Diameter: 36	65	M10	100MC3776

KNOBS

	Used for	Width x thickness mm	Length mm	Fitting size mm	REF
	Caterpillar, Daewoo/ Doosan, Mitsubishi	31 x 20	50	M12	100MC3777

KNOBS

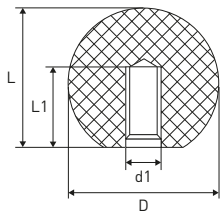


	Used for	Diameter (D) mm	Overall length (L) mm	Length (L1) mm	Thread length (L2) mm	Diameter (D1)	REF
	Komatsu, Linde	48	76,5	49	49	M10	100MC3747
	Climax, Nissan, TCM	38	40	20	20	M8	100MC3746
	Komatsu, Linde, Still	29	38	20	8	M8	100MC3745
	Caterpillar, Clark, Hyster, Mitsubishi, Toyota, Yale	56	41	20	20	M8	100MC3744

KNOBS

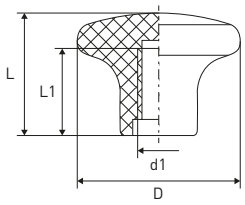
	Used for	Diameter (D) mm	Overall length (L) mm	Length (L1) mm	Thread length (L2) mm	Diameter (D1)	REF
	Linde	30	31	21	21	M8	100MC3743
	Nissan, TCM, Yale	39	43	16	16	M8	100MC3735
	BT, Caterpillar, Clark, Hyster, Manitou, Mitsubishi, Nichiyu, Nissan, Toyota, Yale	30	37	25	15	M8	100MC3711
	Nissan, TCM	20	31	16	16	M6	100MC3732

KNOBS



	Used for	Diameter (D) mm	Diameter (d1) mm	Overall length (L) mm	Thread length (L1) mm	REF
		32	M6	29	12	100MC3782
	BT, Caterpillar, Clark, Hyster, Jungheinrich, Nissan, Toyota, Yale	32	3/8" UNF	32	15	100MC3783
	BT, Caterpillar, Clark, Fiat, Fenwick, Hyster, Jungheinrich, Komatsu, Manitou, Mitsubishi, Steinbock, Still, Toyota, Yale	32	M8 x 1,25	29	18	100MC3738
	Caterpillar, Clark, Daewoo/Doosan, Hyster, Huyndai, Mitsubishi, Toyota, Yale	40	12	37,3		100MC3779
	Linde	40	14	37	24	100MC3781
	BT, Caterpillar, Clark, Fenwick, Hyster, Jungheinrich, Linde, Mitsubishi, OM-Pimespo, Still, TCM, Yale	40	M10 x 1,5	37	25	100MC3739
	Crown, Hyster, Hyundai, Jungheinrich, Still, Toyota, Yale	40	M12 x 1,75	36	25	100MC3740

KNOBS



	Used for	Diameter (D) mm	Diameter (d1) mm	Overall length (L) mm	Thread length (L1) mm	REF
	Komatsu, Linde	31	M8	27	19	100MC3729
	Clark, Hyster, Yale	26	1/4" UNC	18	11	100MC3734
	Manitou	32	M6	23	19	100MC3725
	Hyster, Linde, Yale	37,5	8,5	30	25	100MC3726

TOTALSOURCE® RADIO SET



Radio:
- FM band
- AM band
- Radio Data System
- Bluetooth

Media player:
- Playback formats: MP3, WMA
- Fast playback from USB and SD card
- MP3/WMA comfort browsing
- Selectable display modes (D3-tags, folder, file, play time, clock, all mode)

Data carrier:
- USB
- SD
- MP3

Input:
- Front USB (standard A-type)
- Front SD

Amplifier:
4 x 50 W max power

General:
- Remote control
- Permanent preset memory (after battery disconnect)
- 3,5" monitor

Features:



REF 100MC3868

CASABLANCA 2012 RADIO SET



Radio:
- High-quality FM, AM tuner
- Radio Data System (RDS, PS, AF, REF, EON, TPTA)
- Preset memory
- Volume encoder FPR intuitive volume control

Input:
- Front USB (standard A-type)
- Front Aux-in

Amplifier:
- Sinus power: 14,4 V/2 x 10 W
- 2 x 20 W max power

General:
- Permanent preset memory (after battery disconnect)
- 2 speakers built-in
- Voltage supply
- 1-DIN with fix panel
- Operating energy consumption: ~ 0,2 A
- Current consumption standby: < 0,2 mA

Features:



REF 100MC3869

BUILT-IN DOOR SPEAKER SET 6,6”

BLAUPUNKT



Features:
- 35 W speaker
- Range: 60–20 000 Hz
- Impedance: 4 Ω
- Diameter: 165 mm
- Installation depth: 53 mm

REF 100MC3870

SURFACE MOUNTED SPEAKER SET

Pioneer



Features:
- Coaxial speakers
- Frequency response: 180–20 000 Hz
- Sensitivity: 88 dB
- Maximum power input: 40 W
- Nominal output power: 10 W

REF 100MC3871

ACCESSORIES

BOSCH



Frame

Dimensions: 55 x 184 x 48 mm

REF 100MC3872

BLAUPUNKT

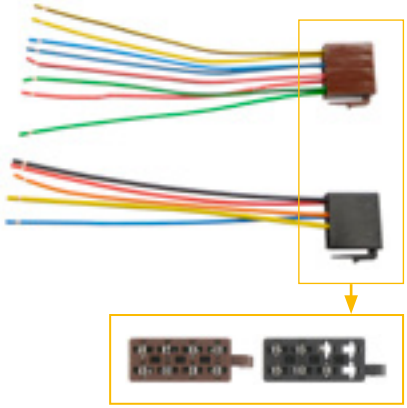


Antenna

- Frequency range:
  - Band III: 174–240 MHz
  - Band length: 1452–1492 MHz
- Impedance: 50 Ω
- Length: 270 mm
- Cable: RG174
- Cable length: 2,50 m
- Connector: SMB (f)

REF 101MC3380

BLAUPUNKT



Cable loom

REF 100MC3873

ELECTRONIC ACCESSORIES

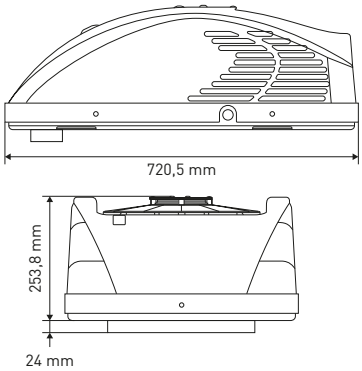


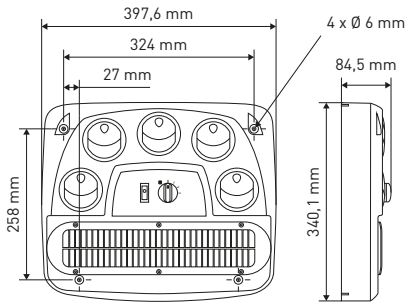
Please consult our Electronic accessories catalogue (REF 39427595)

Go to downloads on www.tvh.com to view the catalogue online.

AIR CONDITIONING UNITS







Compressor powered by electric motor:
- Interior cab air diffuser
- Quick installation
- Electric consumption up to 80 A
- Suitable for spaces up to 3 m³
- With installation kit (plug and play)
- Suitable alternator capacity required
- Possible for 48 V and 80 V (converter needed)

Technical characteristics:
- Cooling output: 3,5 kW
- Air flow: 400 m³/h
- Electrical power: 950 W
- Number of ventilation speeds: 3
- Weight: 32 kg

REF 100MC2879 – 12 V
REF 100MC2880 – 24 V

AIR CONDITIONING UNITS



- 12 V and 24 V unit with 2,0 kW (12 V)/3,2 kW (24 V) cooling capacity
- Electric motor/compressor and motor unit in one unit
- Manual control
- With installation kit plug and play
- Suitable alternator capacity required
- Possible for 48 V and 80 V converter needed

Off-road applications:
- Construction vehicles
- Heavy lifting equipment
- Mining vehicles
- Agricultural vehicles

Technical specifications 12/24 V:
- Use: night/day
- Compressor: powerful motor/compressor unit
- Refrigerant gas: R134A
- Pre-charged with gas
- Maximum air flow: 700 m³
- Air curtain speeds: 5
- Standard compressor control unit
- Standard double battery protection
- Dimensions (L x W x H): 664 x 763 x 217 mm
- Weight: 43,5 kg

- Voltage: 12 V
- Power: 2000 W*
- 6824 BTU*
- 1720 kcal/h*
- Electrical consumption: 32–65 A/h**
- Required alternator capacity: 80 A/h – 15 V

REF 100MC2881

- Voltage: 24 V
- Power: 3200 W*
- 10921 BTU*
- 2752 kcal/h*
- Electrical consumption: 20–48 A/h**
- Required alternator capacity: 75 A/h – 28 V

REF 100MC2882

* In accordance with JIS standard, test conditions: outside temperature 35 °C, return 27 °C
** Test conditions: outside between 30 °C and 42 °C

AIR CONDITIONING UNITS



- Composed of an exterior condenser unit and an interior evaporator unit
- The ideal volume of the cab is approximately 2 m³. Suitable for compact machines with small cabs or limited driving power, or machines of which the cab is situated far from the engine
- Fast and easy installation: the 2 units are connected by 2 hoses (high and low pressure) and a wiring harness

Condenser unit:
- Dimensions (L x W x H): 690 x 420 x 205 mm
- Can be mounted horizontally or vertically
- Weight: 30 kg

Evaporator unit:
- Dimensions (L x W x H): 410 x 155 x 415 mm
- Cooling capacity: 2900 W with 31 °C air intake and 50% air humidity
- Weight: 10 kg
- Not included: refrigerant HFC R134a and oil: PAG 150 46

Features:
- Cooling power: 2,9 kW (31 °C, 50% humidity)
- Peak flow: 600 m³/h
- Power: 960 W

REF 101MC3754 – 12 V
REF 101MC3755 – 24 V

HOSES AIR CONDITIONING



Hose number	Diameter					REF
	Hose	Inner		Outer		
	Inch	Inch	mm	Inch	mm	
6	5/16	0,322	8	0,75	19,1	100MC3288
8	13/32	0,418	10	0,906	23,0	100MC3289
10	1/2	0,512	13	1	25,4	100MC3290
12	5/8	0,635	16	1,13	28,6	101MC3179

FEMALE AIR CONDITIONING FITTINGS



Steel standard

Module	Diameter pipe		Thread	Coupler	REF
	Inch	mm			
6	5/16	8	M	16 x 1,5	100MC3291
6	5/16	8	UNF	5/8" x 18	100MC3292
8	13/32	10	M	20 x 1,5	100MC3293
8	13/32	10	UNF	3/4" x 16	100MC3294
10	1/2	13	M	22 x 1,5	100MC3295
10	1/2	13	UNF	7/8 x 14	100MC3296
12	5/8	16	UNF	1 1/16" x 14	100MC3297

FEMALE 45° AIR CONDITIONING FITTINGS



Steel standard

Module	Diameter pipe		Thread	Coupler	REF
	Inch	mm			
6	5/16	8	M	16 x 1,5	100MC3298
6	5/16	8	UNF	5/8" x 18	100MC3299
8	13/32	10	M	20 x 1,5	100MC3301
8	13/32	10	UNF	3/4" x 16	100MC3300
10	1/2	13	M	22 x 1,5	100MC3303
10	1/2	13	UNF	7/8" x 14	100MC3302
12	5/8	16	UNF	1 1/16" x 14	100MC3304

FEMALE 90° AIR CONDITIONING FITTINGS



Steel standard

Module	Diameter pipe		Thread	Coupler	REF
	Inch	mm			
6	5/16	8	M	16 x 1,5	100MC3305
6	5/16	8	UNF	5/8" x 18	100MC3306
8	13/32	10	M	20 x 1,5	100MC3308
8	13/32	10	UNF	3/4" x 16	100MC3307
10	1/2	13	M	22 x 1,5	100MC3309
10	1/2	13	UNF	7/8" x 14	100MC3310
12	5/8	16	UNF	1 1/16" x 14	100MC3311

COMPRESSOR FITTINGS



Module	Male Inch	Female Inch	REF
10	7/8	1 UNF	100MC3312
6	5/8 UNF	5/8 UNF	100MC3313
10	7/8 UNF	7/8 UNF	100MC3314
8	3/4 UNF	1 UNF	100MC3315
8	3/4 UNF	3/4 UNF	100MC3316

CABIN COOLING FANS



Variable speed

REF 100MC3317 – 12 V
REF 100MC4058 – 24 V

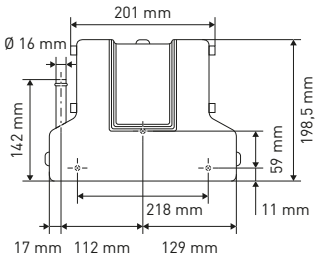


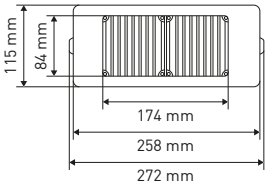
2-speed with 3 stop positions

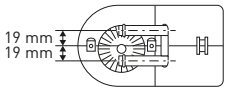
REF 100MC3318 – 12 V
REF 100MC4059 – 24 V
REF 100MC4061 – 48 V

CAB HEATERS FOR USE WITH WATER OR OIL SYSTEM









- 3600 kcal/h
- Power: 70 W
- Air movement: 290 m³/h
- 2-speed fan (adjustable)
- Pressure: max 30 bar
- Housing: ABS
- 65 dB
- Weight: 1,6 kg
- Also provides cooled air, ideal for cab volume < 2 m³
- Works on vehicle water or oil system

- 12 V
- Water diameter outlet: 14/16

REF 100MC4142

- 12 V
- Oil diameter outlet: M18 x 1,5

REF 100MC4056

Mounting kits:

REF 100MC3319 – For use with oil (12 V)
REF 100MC3352 – For use with water (12–24 V)

CAB HEATERS FOR USE WITH WATER SYSTEM



- 1800 kcal/h
- Power: 30 W
- Water hose fitting: diameter 12 mm
- Air movement: 114 m³/h
- Dimensions (L x W x H): 350 x 120 x 120 mm
- Housing: ABS
- 64 dB
- Weight: 1,7 kg
- Ideal for cab heating and demisting (possible to switch air flow direction)
- Works on vehicle water system

REF 100MC3320 – 12 V
REF 100MC4062 – 24 V
REF 100MC3350 – Mounting kit, see page 117

Easy installation

CAB HEATER FOR AIR CIRCULATION

HEAT-ON



- 2-speed blower
- 12 V
- New mounting kit
- 2 extra air outlets
- More compact design

REF 100MC3324 – 12 V

CAB HEATERS FOR USE WITH WATER SYSTEM

Kalori



1



2



3

- 3-speed fan
- Water hose fitting: diameter 16 mm
- Voltage: 12 V

- Electrical power: 70 W
- Performance: 4,3 kW
- Air flow: 230 m³/h
- Weight: 2,2 kg

1. **REF 100MC3325** – EVO2 E
2. **REF 100MC4067** – EVO2 ED4
3. **REF 100MC4068** – EVO2 G

Kalori



1



2



3

- 3-speed fan
- Water hose fitting: diameter 16 mm
- Voltage: 12 V

- Electrical power: 100 W
- Performance: 5,2 kW
- Air flow: 350 m³/h
- Weight: 2,5 kg

1. **REF 100MC3326** – EVO2 E
2. **REF 100MC4069** – EVO2 ED4
3. **REF 100MC4070** – EVO2 G

Kalori

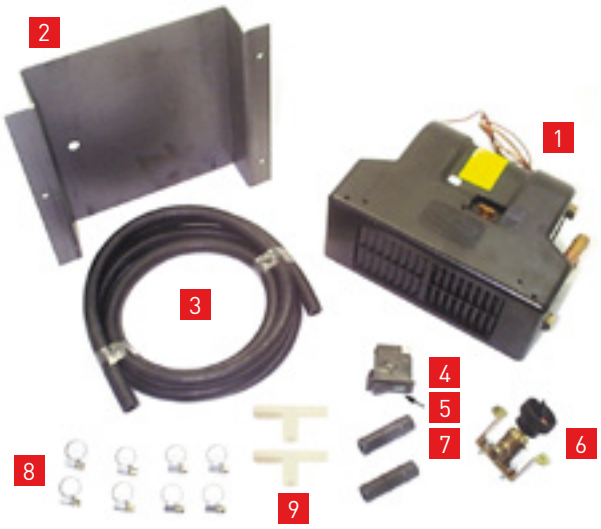


- 3-speed fan (valve and 3-speed switch included)
- Water hose fitting: diameter 16 mm

- Electrical power: 70 W
- Performance: 4,3 kW
- Air flow: 230 m³/h
- Weight: 2,5 kg

REF 100MC3327 – 12 V
REF 100MC4071 – 24 V

WATER HEATERS



Used for Linde 351 H20–25–30D (Perkins engine)

REF 100MC3353

Contains:

1. **REF 100MC4142** – Heater (water)
2. **REF 100MC8984** – Mounting plate
3. **REF 100MC2935** – Water hose (3 m)
4. **REF 100MC8979** – Switch
5. **REF 100MC8987** – Symbol
6. **REF 100MC3349** – Valve
7. **REF 100MC8993** – Tube connector (2x)
8. **REF 100MC8991** – Clamps (8x)
9. **REF 100MC8990** – Three-way connection (2x)

Kalori



- Water heat exchanger for forklift truck or small cabin (to be connected to the engine cooling circuit and to a power supply)
- Water valve and ventilation switch included
- Repleacable air filter integrated
- Also available in an electric version for electric traction vehicles

- Air flow: 210 m³/h
- Ventilation speed: 3
- Heating power: 3,4 kW
- Electrical power: 70 W
- Water fitting: diameter 16 mm

REF 100MC3348 – 12 V
REF 100MC4076 – 24 V

WATER VALVES



- Water valve operated by button
- Diameter: 12–14 mm

REF 100MC3349



Water valve operated by cable (for fitting away from driver)

REF 100MC4077 – Kit
REF 100MC4079 – Only control cable

CAB HEATERS FOR WATER-COOLED ENGINE APPLICATIONS



- Used for Linde type 350/351/352, with Perkins engine
- Complete with switch, valve, blower and jets 3500 kcal/h

REF 100MC3354

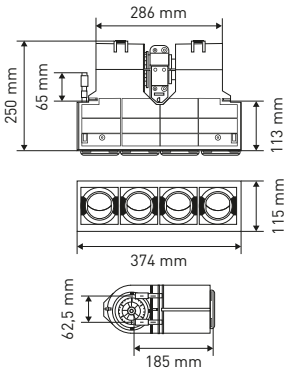


- Used for Linde type 392, with VW engine
- Complete with switch, valve, blower and jets 4200 kcal/h – 270 m³/h

REF 100MC4080

2-SPEED CAB HEATERS



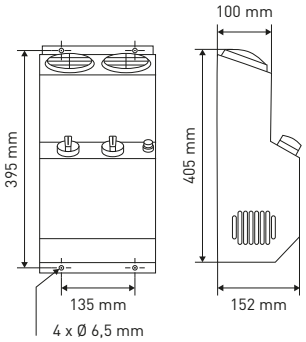


- ABS plastic
- Power rad. 0 °C: 8600 kcal/h
- Power: 150 W
- Air movement: 600–320 m³/h
- 68 dB
- Weight: 3,1 kg
- Max operating pressure: 30 bar

REF 100MC3321 – 12 V
REF 100MC4063 – 24 V
REF 100MC3351 – Mounting kit, see page 118

ELECTRIC CAB HEATERS





- Air movement: 160 m³/h
- Dimensions (L x W x H): 400 x 190 x 100/155 mm
- 2-speed fan
- Weight: 6,5 kg

- 48 V
- Rating: 1600 W

REF 100MC3328

- 80 V
- Rating: 2000 W

REF 100MC4072

ELECTRIC CAB HEATERS



- Dimensions (L x W x H): 152 x 145 x 195 mm
- 2-speed fan
- Housing: metal box
- Filter element included

Speed 1		Speed 2	REF
V	W	W	
12	220	400	100MC3329
24	380	720	100MC3330
48	720	1070	100MC3331

MOVABLE ELECTRIC CAB HEATERS



- Movable heater
- Capacity: 1000 W
- Air flow: 180 m³/h
- Dimensions: 275 x 145 x 140 mm

REF 100MC3332 – 48 V
REF 100MC4073 – 80 V

ELECTRIC CAB HEATERS



HEAT-ON

- This compact heater is easily to install in any electric vehicle
- The built-in filter protects the heating core, and keeps the driver's environment fresh and clean
- The 2-speed fan distributes air throughout the cab cia 4 adjustable air vents

Heating: built-in overheat protection

Fan:
- 2-speed
- 126 m³/h air flow
- 54/63 dB(A) sound level

- 12 V
- 625 W

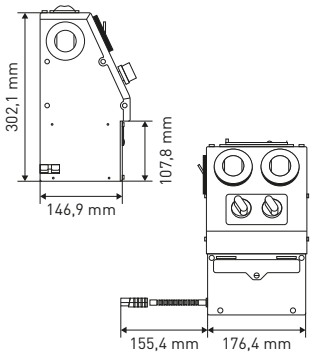
REF 100MC3333

- 48 V
- 1000 W

REF 100MC4074

ELECTRIC DC VOLTAGE HEATERS





Features:
- Compact design with low weight
- High efficiency and quiet operation
- Integrated speed and temperature control
- Four direction air-flow louvres/vents
- Flexible mounting for bottom or side
- No maintenance other than filter cleaning
- Easy access and reusable filter
- Industry leading power management
- MCC optimised electronic controller
- CAN (J1939) capability

Technical specifications:
- Air flow: 297 m³/h

- 80 V
- 1600 W

REF 100MC3334

- 48 V
- 1600 W

REF 100MC4075

ELECTRIC CAB HEATERS

Kalori Driver comfort



1



2

- Electric heater with secured PTC resistance
- 3-speed fan
- Dimensions (L x H x W): 255 x 114 x 234 mm

Fig	Resistance V	Electrical consumption A	Electrical power W	REF
1	24	71	1700	100MC3335
	48	36	1700	100MC3336
	80	22	1700	100MC3337
2	24	71	1700	100MC3338
	48	36	1700	100MC3340
	48	18	850	100MC3339

ELECTRIC HEATERS



- Heater for forklift truck or electric handling machine
- Electric heater with secured PTC resistance
- Equipped with a thermal safety switch
- Other capacities available on request
- Heater settings controlled by an integrated relay
- Serial micron air filter
- Available in a water heater version

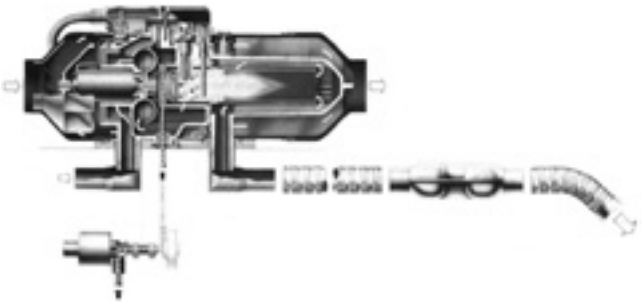
- Air flow: 210 m³/h
- Ventilation speed: 3

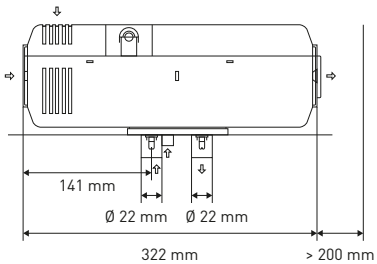
Ventilation V	Resistance V	Electrical consumption A	Electrical power W	REF
12	48	33	1600	100MC3341
12	80	28	2200	100MC3342
12	96	23	2200	100MC3343
12	120	18	2200	100MC3344
24	80	28	2200	100MC3345
24	96	23	2200	100MC3346
24	120	18	2200	100MC3347

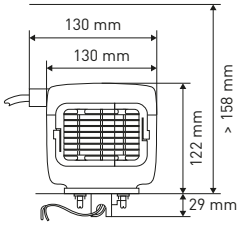
Recommendation: heater must be protected against humidity and dust – install an air filter on the blower suction side

CAB HEATERS FOR USE WITH EXTERNAL DIESEL SUPPLY









- Performance: 2000 W
- Low consumption: max 0,24 l/h
- Mounting kit: complete with exhaust tube, performance switch, pump 12 or 24 V, cables and terminals
- Brand: Webasto

REF 100MC3322 – 12 V
REF 100MC4064 – 24 V

No water or oil required

Easy-to-fit cab heating

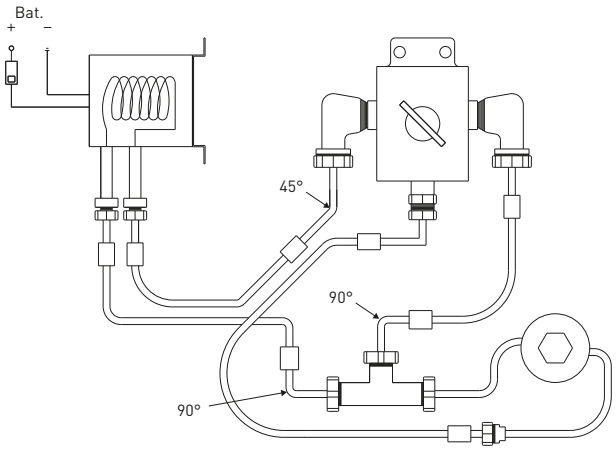
CAB HEATERS FOR USE WITH EXTERNAL DIESEL SUPPLY



- Air hose fitting: Ø 75 mm
- Air flow: 25 m³/h -> 70 m³/h
- Heating capacity:
  - Max: 1900 W + 5%
  - Min: 900 W + 5%
- Rated voltage: 12/24 V
- Operating voltage range:
  - 12 V: 10,5 V – 15 V
  - 24 V: 21 V – 30 V
- Power consumption:
  - On start: max 100 W
  - During operation: max 35 W
- Fuel: diesel oil, light fuel oil
- Fuel consumption:
  - At max capacity: 0,22 l/h + 3%
  - At min capacity: 0,10 l/h + 3%
- Dimensions (L x W x H): 355 x 126 x 124 mm
- Weight: 2,7 kg
- Brand: Brano

REF 100MC3323 – 12 V cab heater (mounting kit included)
REF 100MC4065 – 24 V cab heater (mounting kit included)

MOUNTING KIT FOR OIL HEATER



Mounting kit for Linde 351 (12 V – oil)

REF 100MC3319

Attention: oil level

Contains:

REF 100MC8979 – Switch
REF 100MC8987 – Symbol
REF 100MC4056 – Heater (12 V)
REF 100MC8984 – Mounting plate
REF 100MC8986 – Valve 1–0
REF 100MC8989 – Fitting 90° (2x)
REF 100MC8992 – Fitting
REF 100MC8995 – Hose 100 mm
REF 100MC8998 – Hose 500 mm
REF 100MC9001 – Hose 600 mm
REF 100MC9003 – Three–way connection
REF 100MC9005 – Bolt
REF 100MC9008 – Oil support
REF 100MC9010 – O–ring

MOUNTING KIT FOR CAB HEATER



Complete mounting kit for REF 100MC3320 (12 V) and REF 100MC4062 (24 V), see page 109

REF 100MC3350

Contains:

REF 100MC2934 – Water hose (3 m)
REF 100MC8981 – Cable black 1,5 mm² (1 m)
REF 100MC8980 – Cable brown 1,5 mm² (1 m)
REF 100MC8982 – Fuse holder
REF 100MC8985 – Switch
REF 100MC3349 – Valve
REF 100MC8990 – Three–way connection
REF 100MC8994 – Fuse 2,5 A (24 V)
REF 100MC8996 – Fuse 3,15 A (12 V)
REF 100MC8999 – Cable connector (2x)
REF 100MC9002 – Cable connector (2x)
REF 100MC9004 – Cable connector(2x)
REF 100MC9006 – Clamps (6x)
REF 100MC9000 – Fitting (2x)
REF 100MC8997 – Fitting (2x)

MOUNTING KIT FOR CAB HEATER



Complete mounting kit for REF 100MC3321 (12 V) and REF 100MC4063 (24 V), see page 113

REF 100MC3351

Contains:

REF 100MC2935 – Water hose (3 m)
REF 101MC3803 – Cable yellow 1,5 mm² (1 m)
REF 100MC8981 – Cable black 1,5 mm² (1 m)
REF 100MC8983 – Cable red 1,5 mm² (1 m)
REF 100MC8982 – Fuse holder
REF 100MC8988 – Switch
REF 100MC8991 – Clamps (10x)
REF 100MC8990 – Three–way
REF 100MC8997 – Fitting (2x)
REF 100MC9000 – Fitting (2x)
REF 100MC9002 – Cable connector (2x)
REF 100MC8999 – Cable connector (3x)
REF 100MC9007 – Fuse 6,3 A (250 V)
REF 100MC9009 – Fuse 16 A (12 V)
REF 100MC3349 – Valve

MOUNTING KIT FOR CAB HEATER



Complete mounting kit for REF 100MC4142 (12 V), see page 109

REF 100MC3352

Contains:

REF 100MC2935 – Water hose (3 m)
REF 101MC3804 – Cable blue 1,5 mm² (1 m)
REF 100MC8981 – Cable black 1,5 mm² (1 m)
REF 100MC8983 – Cable red 1,5 mm² (1 m)
REF 100MC8982 – Fuse holder
REF 100MC8988 – Switch
REF 100MC8991 – Clamps (10x)
REF 100MC8990 – Three–way
REF 100MC8997 – Fitting (2x)
REF 100MC9000 – Fitting (2x)
REF 100MC9002 – Cable connector (2x)
REF 100MC8999 – Cable connector (3x)
REF 100MC9007 – Fuse 6,3 A (250 V)
REF 100MC8996 – Fuse 3 A (24 V)
REF 100MC3349 – Valve

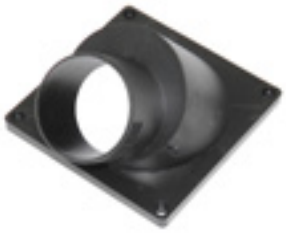
AIRCO CLEANER PRO

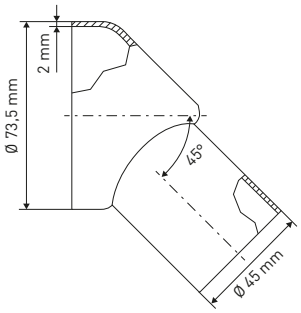


- Cleans the evaporator, air conducts from all contaminations (bacteria, fungi ...)
- Spray with sprayhose
- Fast and easy-to-use
- Content: 500 ml

REF 100MC9617

AIR OUTLETS

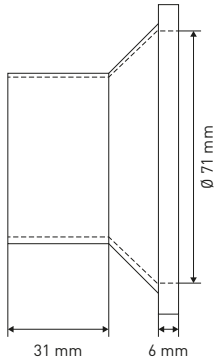




- ABS
- Air outlet: 45°

REF 100MC3355

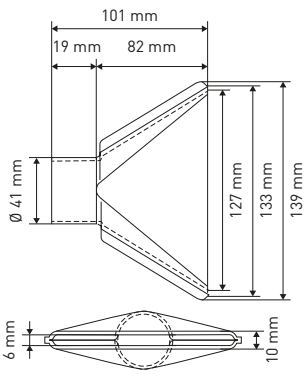




- ABS
- Air outlet: 40°

REF 100MC3356





- ABS
- Air outlet: 40°

REF 100MC3357

AIR GRIDS ROUND

	Outer diameter mm	Mounting diameter mm	Height mm	Plate thickness mm	REF
	63	54,5	20	3	100MC3451
	73	68	16	1–2,5	100MC3452
	72	68	39,5	1–3	100MC3453
	72	68	18	3	100MC3454
	82	76	34	4,7	100MC3455
	84	76	34	2–5	100MC3456
	84	76/55	63	2–5	100MC3457
	86,5	82	12,5		100MC3458

AIR GRIDS ROUND

	Outer diameter mm	Mounting diameter mm	Height mm	Plate thickness mm	REF
	86,5	82	30	0,2–3	100MC3459
	92	67	26	3	100MC3460
	92	76/55	70	3	100MC3461
	92	76/45	80	3	100MC3462
	97	59	96		100MC3463
	100	76	58	3	100MC3464
	100	71	22		100MC3465
	100	76	28	3	100MC3466

AIR GRIDS ROUND

	Outer diameter mm	Mounting diameter mm	Height mm	Plate thickness mm	REF
	101	76	34	1,5–7	100MC3467
	100	76/49	77	3	100MC3468
	100	71/50	44		100MC3469
	101	76	28	4	100MC3470
	101	76	35	3,5	100MC3471

AIR GRIDS RECTANGULAR

	Inlet or outlet	Outer length mm	Outer width mm	Remark	REF
	Inlet	80	60		100MC3472
	Inlet	85	65		100MC3473

AIR GRIDS RECTANGULAR

	Inlet or outlet	Outer length mm	Outer width mm	Remark	REF
	Outlet	90	90		100MC3474
	Outlet	121	48		100MC3475
	Inlet	131	80		100MC3476
	Outlet	132	52		100MC3477
	Outlet	143	52		100MC3478
	Inlet	143	70		100MC3479
	Inlet	144	71		100MC3480

AIR GRIDS RECTANGULAR

	Inlet or outlet	Outer length mm	Outer width mm	Remark	REF
	Inlet	150	65		100MC3481
	Inlet	150	65		100MC3482
	Inlet	151	64		100MC3483
	Outlet	152	37		100MC3484
	Outlet	155	35		100MC3485
	Outlet	155	36		100MC3486
	Outlet	168	25		100MC3487

AIR GRIDS RECTANGULAR

	Inlet or outlet	Outer length mm	Outer width mm	Remark	REF
	Outlet	200	40		100MC3358
	Outlet	200	85		100MC3488
	Inlet	218	76		100MC3489
	Inlet	240	55		100MC3490
	Inlet	240	78		100MC3491
	Inlet	241	56		100MC3492
	Inlet	130	50		100MC3498

AIR GRIDS RECTANGULAR

	Inlet or outlet	Outer length mm	Outer width mm	Remark	REF
	Inlet	256	120		100MC3494
	Inlet	260	78		100MC3495
	Inlet	314	138		100MC3496
	Inlet	265/230	170/145	Meassured from corner to corner	100MC3497
	Inlet	236/185	245/225	Right	100MC3499
	Inlet	236/185	245/225	Left	100MC3493
	Inlet	207	87	Diameter: 40 mm	100MC3500

DC/DC 24–12 V CONVERTERS FOR UNIVERSAL APPLICATIONS



- Input: 24 VDC
- Output:12 VDC
- Dimensions (W x H x L): 100 x 50 x 150 mm

Output		REF
A	W	
5	60	100MC3359
20/25	240	100MC3360
30	360	100MC3361

The picture shown is for illustration purpose only. Actual product may vary.

DC/DC CONVERTER FOR UNIVERSAL APPLICATIONS (80–120 W)*



Dimensions (W x H x L): 77 x 70 x 161 mm

Input	Output			REF
VDC	VDC	A	W	
12	12	6,6	80	100MC3362
12	24	3,3	80	100MC3363
24	24	4,2	100	100MC3364
24–36–48	12	6,6	80	100MC3365
24–36–48	24	8,4	80	100MC3366
48	12	10	120	100MC3367
48	24	5	120	100MC3368
72	12	10	120	100MC3369
72	24	5	120	100MC3370
80	12	10	120	100MC3371
80	24	5	120	100MC3372

DC/DC CONVERTER FOR UNIVERSAL APPLICATIONS (200 W)*



Dimensions (W x H x L): 102 x 57 x 135 mm

Input	Output			REF
VDC	VDC	A	W	
48	24	8,33	200	100MC3374
72	12	16,66	200	100MC3375
72	24	8,33	200	100MC3376
80	24	8,33	200	100MC3377

* See page 129 for the specifications

DC/DC 150–240 W CONVERTERS FOR UNIVERSAL APPLICATIONS*



Dimensions (W x H x L): 130 x 100 x 126 mm

Input	Output			REF
VDC	VDC	A	W	
12	24	6	150	100MC3378
24	24	8,3	200	100MC3379
48	12	20	240	100MC3380
48	24	10	240	100MC3381
72	12	20	240	100MC3382
72	24	10	240	100MC3383
80	12	20	240	100MC3384
80	24	10	240	100MC3385

DC/DC 240–500 W CONVERTERS FOR UNIVERSAL APPLICATIONS*



Dimensions (W x H x L): 122 x 100 x 238 mm

Input	Output			REF
VDC	VDC	A	W	
12	12	20	240	100MC3386
12	24	10	240	100MC3387
24	24	16,5	400	100MC3388
36	12	33	400	100MC3389
36	24	16,5	400	100MC3390
48	12	40	500	100MC3391
48	24	20	500	100MC3392
72	12	40	500	100MC3393
72	24	20	500	100MC3394
80	12	40	500	100MC3395
80	24	20	500	100MC3396
80	48	10	500	100MC3397
96	24	20	500	100MC3398

DC/DC 750 W CONVERTERS FOR UNIVERSAL APPLICATIONS*



Dimensions (W x H x L): 155 x 137 x 276 mm

Input	Output			REF
VDC	VDC	A	W	
48	12	62	750	100MC3399
48	24	31	750	100MC3400
80	12	62	750	100MC3401
80	24	31	750	100MC3402

* See page 129 for the specifications

* SPECIFICATIONS FOR 80–750 W CONVERTERS

Specifications:
- Short-circuit protection
- Resistant against peak voltages up to 10 times the input voltage
- Temperature range: –25 °C to 60 °C
- Fully insulated output (galvanically separated)
- High efficiency
- Input protected against overload and reverse connection
- LED for operational status

DC/AC CONVERTERS WITH 48 V INPUT



Technical specifications:
- Output voltage: 200/220/230/240 VAC, selectable by setting button
- Frequency: 50/60 Hz, selectable by setting button S.W
- True sine wave (THD < 3%) at rated input voltage
- With on/off-switch and front panel indicator
- Input nominal voltage: 48 V
- Input voltage rating: 42–60 VDC

Input protection:
- Overvoltage
- Low battery alarm and shutdown
- Reverse polarity

Output protection:
- Output short
- Overload
- Overheating

Dimensions W x H x L mm	Input VDC	Max continuous W	Surge capacity W	REF
184 x 70 x 295	48	700	1400	100MC3409
220 x 88 x 420	48	1500	3000	100MC3410

DC/AC CONVERTERS WITH 80 V INPUT



- Dimensions (W x H x L): 198 x 81 x 408 mm
- Output: 230 VAC

Input VDC	Output W	REF
80	750	100MC3411
80	1500	100MC3412
80	3000	100MC3413

NOISE FILTER



As an option we recommend the installation of a voltage regulator for vehicles with impulse control and a motor output of 20 kW. This regulator must be incorporated between the supply voltage of the electric vehicle and the DC/DC converter. In this way, noise and interference peaks are suppressed and an undisturbed and reliable running of the converter is ensured.

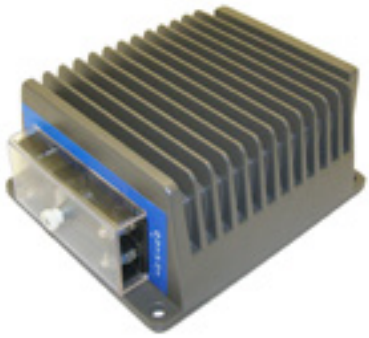
Specifications:

- Input voltage: 15–100 V
- Output voltage: 15–100 V
- Output current: 7 A
- Insulation voltage: > 1,5 kV
- Temperature range: –25 °C to 60 °C

REF 100MC3414

CURTIS DC/DC CONVERTERS

CURTIS



Dimensions W x H x L mm	Input VDC	Output VDC	Output A	Output W	REF
143 x 80 x 150	48	24	8,4	200	100MC3415
143 x 80 x 150	48	28	7,1	200	100MC3416
143 x 80 x 150	72–96	13,5	14,8	200	100MC3417
143 x 80 x 150	72–96	28	7,1	200	100MC3418
143 x 74 x 164	24–36	12	25	300	100MC3419
143 x 74 x 164	24–36	13,5	25	300	100MC3420
143 x 74 x 164	48–60	12	25	300	100MC3421
143 x 74 x 164	48–60	13,5	22,2	300	100MC3422
143 x 74 x 164	48–60	24	12,5	300	100MC3423
143 x 74 x 164	48–60	28	10,7	300	100MC3424
143 x 74 x 164	72–96	12	25	300	100MC3425
143 x 74 x 164	72–96	13,5	22,2	300	100MC3426
143 x 74 x 164	72–96	24	12,5	300	100MC3427
143 x 74 x 164	72–96	28	10,7	300	100MC3428

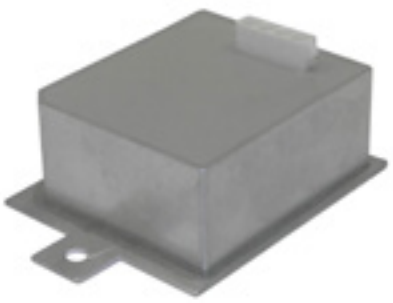
DC/DC CONVERTERS USED FOR CLARK



Dimensions (W x H x L): 143 x 80 x 150 mm

Input VDC	Output VDC	Output A	Output W	REF
48	12	20	240	100MC3429
80	12	20	240	100MC3430

DC/DC CONVERTERS USED FOR STEINBOCK, JUNGHEINRICH, KOMATSU



Specifications:

- Wide input voltage range
- Regulated output
- Input filter against interference of thyristor drives
- Rugged construction
- High efficiency
- Protection rating (without connector): IP67

Input		Output			Details	REF
VDC (nominal)	VDC (tolerance)	A	A	W		
48	33–68	12	8	100	Dimensions (W x H x L): 85 x 52,4 x 130 mm With 4-pole connector AMP Mate-N-Lock	100MC3431
48–80	38–96	24	5	125	Dimensions (W x H x L): 80 x 47 x 130 mm	100MC3432
80	64–96	12–24 (dual output)	3,0–5,2	160	Dimensions (W x H x L): 90 x 54 x 158 mm With 6-pole single row connector AMP Mate-N-Lock	100MC3433
48	33–90	24	10,5	250	Dimensions (W x H x L): 131 x 50 x 165 mm With 6-pole double row connector AMP Mate-N-Lock	100MC3434
80	56–154	12,5	20	250	Dimensions (W x H x L): 131 x 50 x 153 mm	100MC3435

Accessories:

REF 100MC4127 – Mating connectors AMP Mate-N-Lock: 4-pole
REF 100MC4128 – 6-pole single row
REF 100MC4129 – 6-pole double row
REF 100MC4130 – Mating pin: 0,5–2,1 mm²

DC/DC CONVERTERS USED FOR LINDE, MCF



Input		Output			Dimensions	Remark	REF
VDC (nominal)	VDC (tolerance)	VDC	A	W	W x H x L mm		
80	64–110	12	2,5	30	115 x 33,5 x 115	With 6-pole connector Yazaki	100MC3436
48	30–75	24	3	75	100 x 36 x 110	With 6-pole connector AMP Mate-N-Lock	100MC3437
80	50–150	24	3	75			100MC3438
24	10,6–45	24	1,5	35	100 x 36 x 110	With 6-pole connector AMP/Saab	100MC3439
48	35–75	24	3	75			100MC3440
48	30–55	12	4,4	55	100 x 36 x 110	With 4-pole connector AMP fastin-faston	100MC3441
80	50–150	24	3	75	100 x 36 x 110	With 4-pole connector AMP/SAAB	100MC3442
48	35–75	12	10,5	125	88 x 38 x 143	With 4-pole connector AMP Mate-N-Lock	100MC3443
80	50–150	12	10,5	125			100MC3444
80	50–150	12	12,5	150	115 x 38 x 170	With 6-pole connector Yazaki	100MC3445

Accessories:

REF 100MC4131 – Mating connectors: AMP Mate-N-Lock 6-pole
REF 100MC4132 – AMP Mate-N-Lock 4-pole
REF 100MC4133 – AMP Saab connector 4-pole
REF 100MC4134 – AMP Saab connector 6-pole
REF 100MC4135 – AMP Fastin-faston 4-pole
REF 100MC4136 – Yazaki 6-pole
REF 100MC4130 – Mating pins: AMP Mate-N-lock
REF 100MC4137 – AMP Saab 0,5–1 mm²
REF 100MC4138 – AMP fastin-faston 0,3–0,8 mm²
REF 100MC4139 – Yazaki 0,85–2 mm²

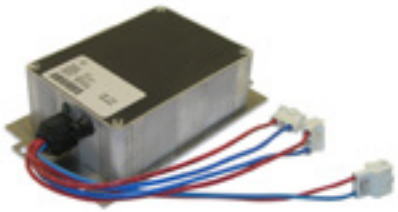
DC/DC CONVERTERS USED FOR STILL, WAGNER, JUNGHEINRICH



Dimensions (W x H x L): 90 x 26 x 90 mm

Input		Output			REF
VDC (nominal)	VDC (tolerance)	VDC	A	W	
48–80	28–110	24	13	300	100MC3446

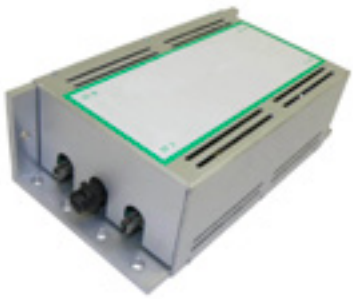
DC/DC CONVERTERS LINDE



Dimensions (W x H x L): 115 x 54 x 200 mm

Input		Output			REF
VDC (nominal)	VDC (tolerance)	VDC	A	W	
80	56–100	12	6,3	200	100MC3448

DC/DC CONVERTER USED FOR CESAB



Dimensions (W x H x L): 117 x 67 x 215 mm

Input		Output			REF
VDC (nominal)	VDC (tolerance)	VDC	A	W	
80	36–120	24	15	340	100MC3449

DASHBOARD METER – OIL PRESSURE



- 0–150 psi
- Diameter: 52 mm

REF 100MC4041

DASHBOARD METER – AIR PRESSURE



- 12 V
- 0–150 psi
- 0–10 bar
- Diameter: 52 mm

REF 100MC4141

DASHBOARD METER – AIR PRESSURE



- 12 V
- 0–10 bar
- 10–184 Ω
- Diameter: 52 mm

REF 100MC4042
REF 101MC3799 – Air pressure sensor for 12 V
REF 101MC3800 – Air pressure sensor for 24 V

DASHBOARD METER – VDO AIR PRESSURE



- 24 V
- 0–10 bar
- 10–184 Ω
- Diameter: 52 mm

REF 100MC4043
REF 101MC3799 – Air pressure sensor for 12 V
REF 101MC3800 – Air pressure sensor for 24 V

DASHBOARD METER – CURTIS STEERING INDICATOR

CURTIS



- 24–48 V
- Diameter: 52 mm

REF 100MC4046

DASHBOARD METER – CURTIS STEERING INDICATOR

CURTIS



- 36–48 V
- Diameter: 52 mm

REF 100MC4047

DASHBOARD METER – VDO SPEEDOMETER



- 0–40 mph
- Diameter: 85 mm
- Exclusive for JCB

REF 100MC4048

DASHBOARD METER – SPEED METER



- 24 V
- 0–130 km/h
- 0–80 mph
- Diameter: 95 mm
- Inclusive km counter
- Exclusive for Kalmar–Ottawa

REF 100MC4049

DASHBOARD METER – AMPERE METER



- 60–60 A
- Diameter: 52 mm

REF 100MC4051

DASHBOARD METER – AMPERE METER



- 30–30 A
- Diameter: 52 mm

REF 100MC4052

DASHBOARD METER – VDO ANALOG CLOCK



- 12 V
- Diameter: 52 mm

REF 100MC4054

DASHBOARD METER – HOUR METER

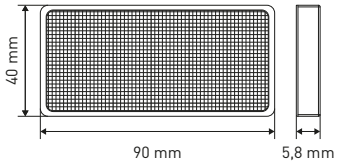


- Diameter: 52 mm
- Sevcon

REF 100MC4055

REFLECTORS



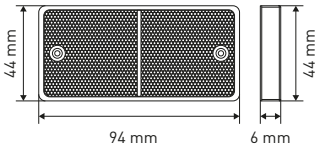


- Colour: red
- Shape: rectangular
- Mounting: adhesive

REF 100MC3537

E-approved

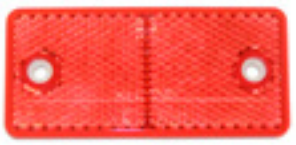


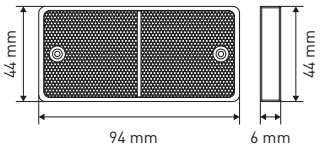


- Colour: white
- Shape: rectangular
- Mounting: screws
- Centre distance: 70 mm

REF 100MC3538

E-approved



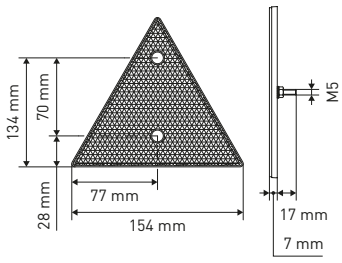


- Colour: red
- Shape: rectangular
- Mounting: screws
- Centre distance: 70 mm

REF 100MC3539

E-approved





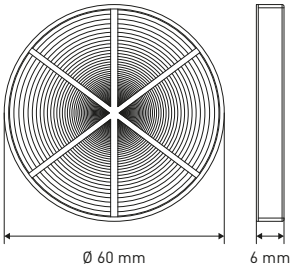
- Colour: red
- Shape: triangular
- Mounting: screws
- Centre distance: 70 mm

REF 100MC3540

E-approved

REFLECTORS



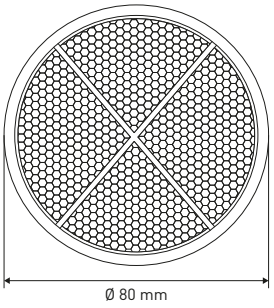


- Shape: round
- Mounting: adhesive

REF 100MC3541 – Orange
REF 100MC4085 – Red
REF 100MC4086 – White

E-approved



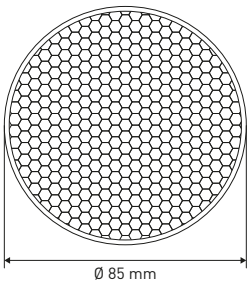


- Colour: red
- Shape: round
- Mounting: adhesive

REF 100MC3542

E-approved





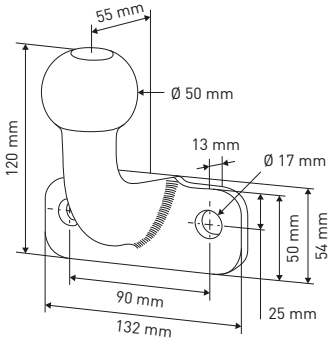
- Colour: red
- Shape: round
- Mounting: screw

REF 100MC3543

E-approved

TOWING HOOKS

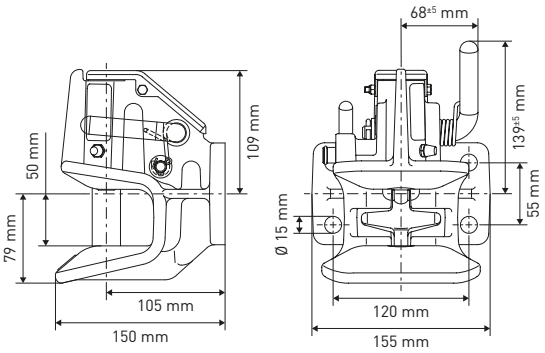




- Ball diameter: 50 mm
- Zinc-plated steel towing ball
- Capacity: 3500 kg
- Approved for public roads

REF 100MC3588

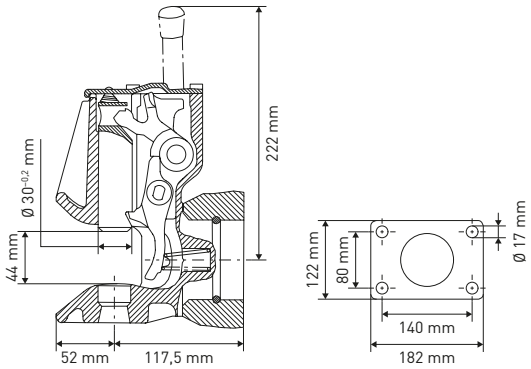




- Automatic trailer coupling
- Capacity: 4000 kg
- Universal use
- Approved for public roads, in confirmity with standard ECE 011802
- Pin diameter: 25 mm
- Fits for drawbar eye Ø 40 mm, DIN 74054, DIN 8454, CUNA 438/40

REF 100MC3589

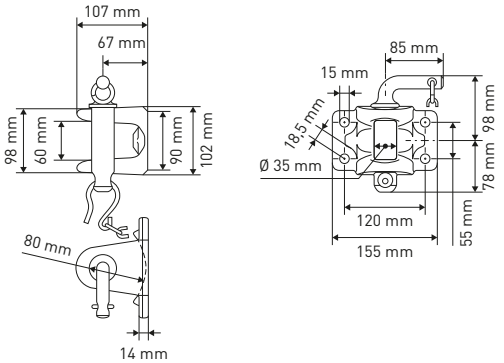




- Automatic trailer coupling
- Compact tow hook for internal transport
- Not approved for public roads
- Connection size see drawing
- Pin diameter: 30 mm
- Fits for drawbar eye Ø 35 mm, DIN 8454 and Ø 40 mm, DIN 74054

REF 100MC3587



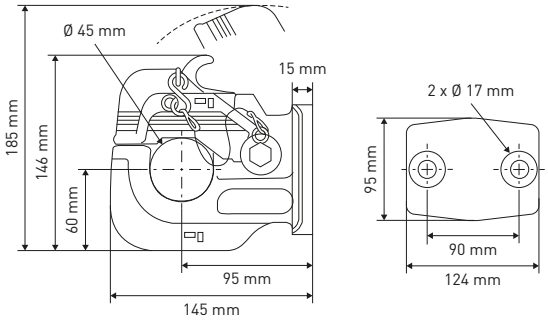


- Capacity: 2500 kg
- Universal use
- Pin diameter: 35 mm

REF 100MC3592

FIXED COUPLINGS

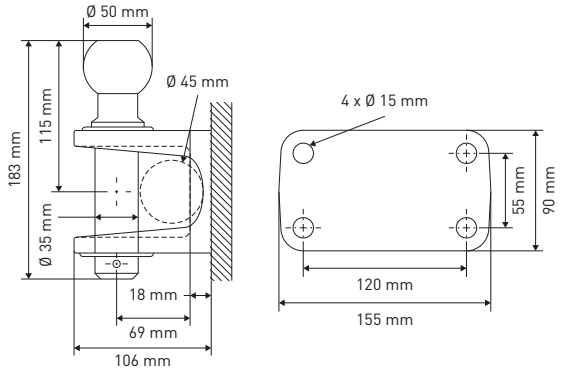




- Used for Manitou
- Approved for public roads
- Connection size see drawing

REF 100MC3590



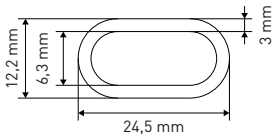


- Ball diameter: 50 mm
- Capacity ball: 2500 kg
- Axe: 6500 kg
- Yokes must be screwed on and never welded
- 4 holes diameter: 15 mm
- Yoke with pin diameter: 35 mm
- In conformity with E.E.C. standard 94/20 and U.T.A.C. homologation

REF 100MC3591

CHAIN FOR TOWING HOOK





- Length: sold per metre
- Diameter: 3 mm

REF 100MC3593

WINDSHIELDS & GLAZING – NICE TO KNOW

About Glassinter

GLASSINTER®

With the brand Glassinter, TVH builds on more than 35 years of experience in the glass industry. Thanks to the expertise of the French GDI-group (Glaces Distribution Internationale), Glassinter guarantees a high-quality range of replacement glazing, specifically designed for cabins of agricultural machinery and industrial equipment. Glassinter glazing meets the European and American quality standards (R43 and DOT), is OEM-approved and is primarily manufactured in Europe. Since the acquisition of the GDI-group by TVH in 2016, Glassinter has reinforced the range of TVH, the one-stop shop supplier for material handling and industrial equipment. Glassinter is your safest choice.



Please consult our Windshields & Glazing catalogue (REF 34609026)

Go to downloads on www.tvh.com to view the catalogue online.

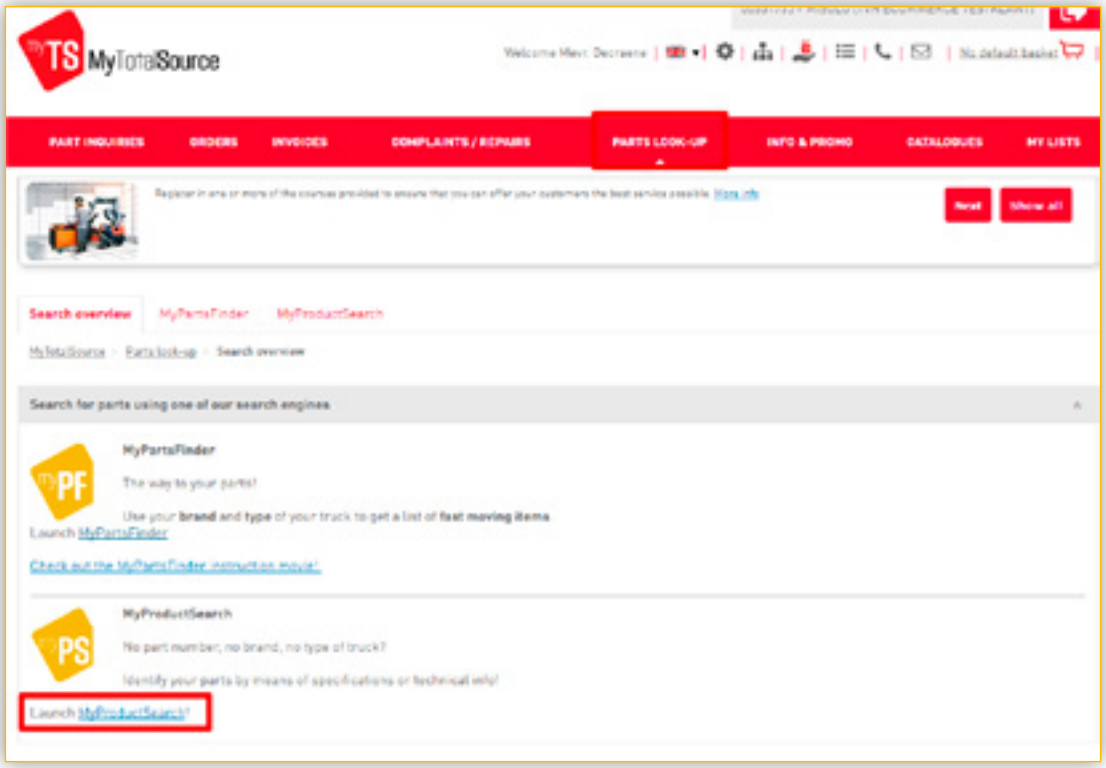
WINDSHIELDS & GLAZING – NICE TO KNOW

MyTotalSource

Your interactive online webshop for spare parts

The user-friendly search modules **MyPartsFinder** (search by brand and truck type) and **MyProductSearch** (search by specifications/technical info) allow you to always find the correct part!

Dimensions shown in this catalogue are standard dimensions.
Measured dimensions may vary slightly.



Want to search for a windshield?
Use our MyPartsFinder search engine to get started.

Log on to **MyTotalSource**
1. Go to 'Parts Look-up' and choose MyProductSearch
2. Choose the group **'Cabs, seats and hoods'**
3. Enter the right measurements to get a list of possible options
4. Click on the Euro symbol to get a pop-up inquiry or click on the i-button to see the technical details.

No login yet? Request your login details now via ecommerce@tvh.com

Help desk: T +32 56 43 48 66

WINDSHIELDS & GLAZING – NICE TO KNOW

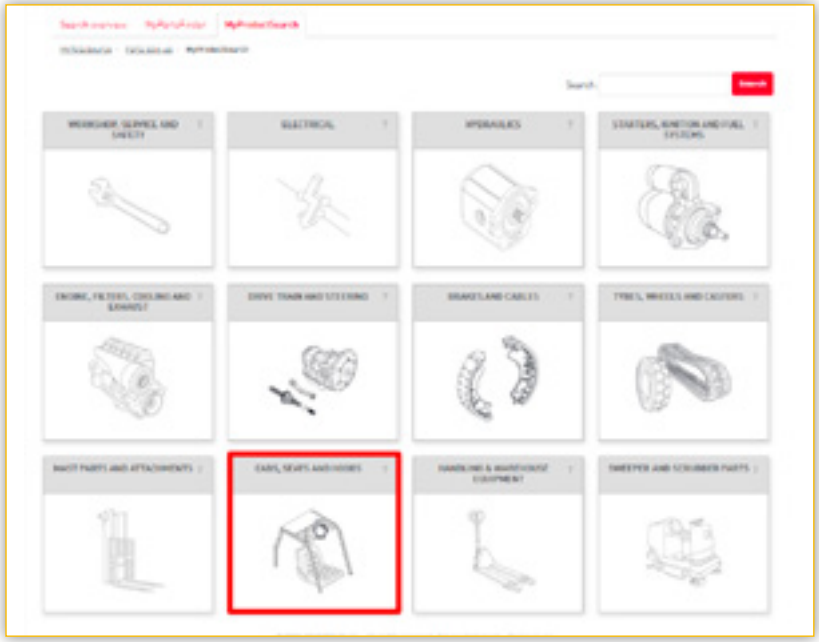
MyTotalSource

Your interactive online webshop for spare parts

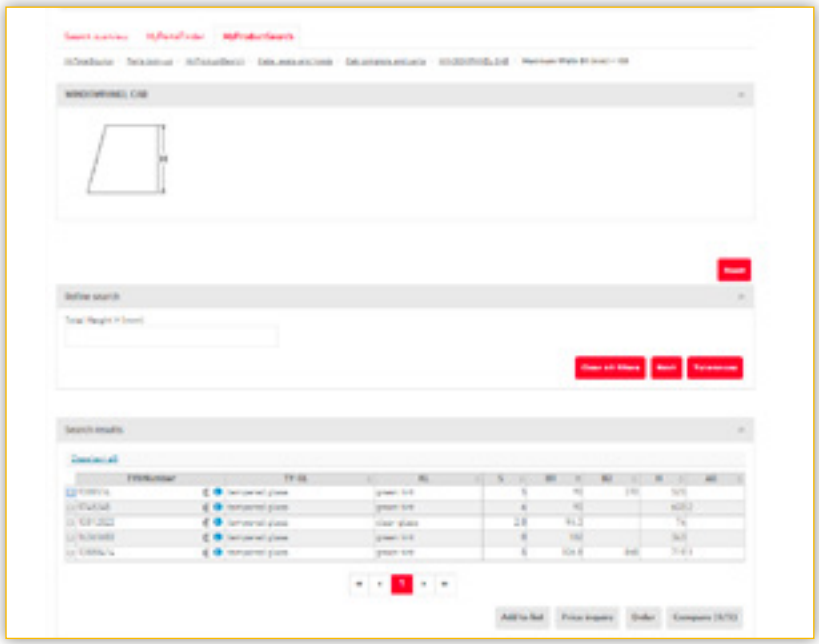
myTS MyTotalSource

The user-friendly search modules **MyPartsFinder** (search by brand and truck type) and **MyProductSearch** (search by specifications/technical info) allow you to always find the correct part!

Dimensions shown in this catalogue are standard dimensions. Measured dimensions may vary slightly.



MyProductSearch
Find your product

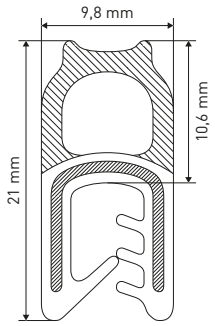


Click on the Euro-symbol to get a price inquiry in pop-up, click on the i-button to see the technical info.

No login yet? Request your login details now via ecommerce@tvh.com

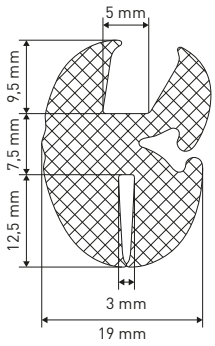
Help desk: T +32 56 43 48 66

RUBBER PROFILES

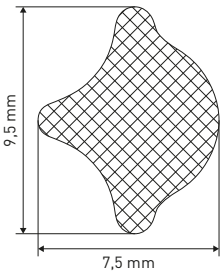


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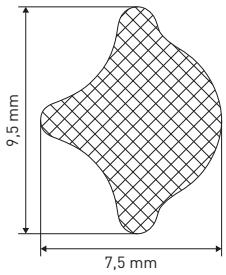


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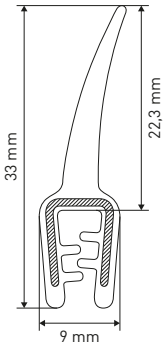
PVC

REF 101MC3383



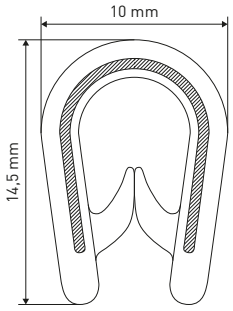
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REF 101MC3384



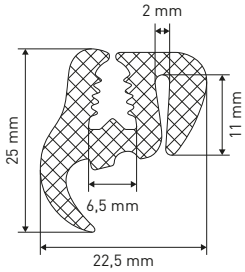
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REF 101MC3385

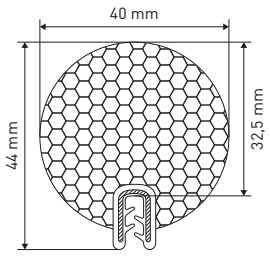


Clamping range: 1–4 mm

REF 101MC3386



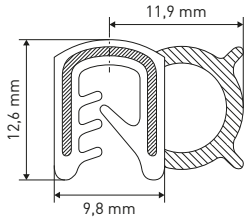
REF 101MC3387



Camping range: 1–2,5 mm

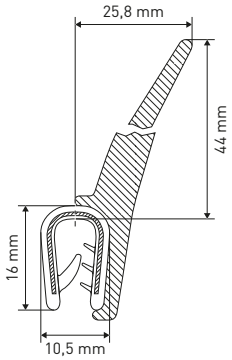
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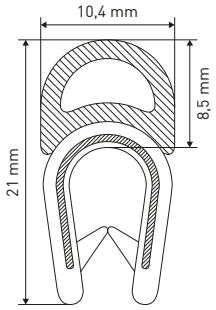
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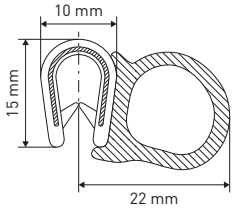
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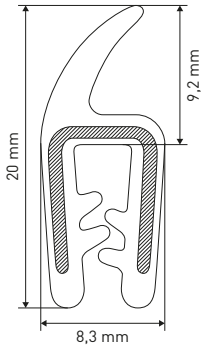
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REF 101MC3391



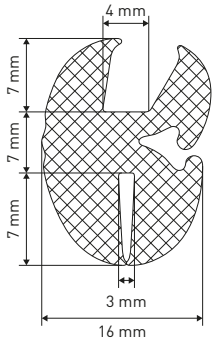
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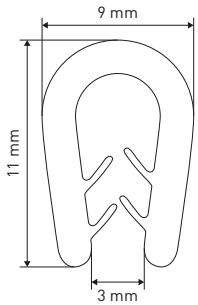


Clamping range: 1–5 mm

REF 101MC3393

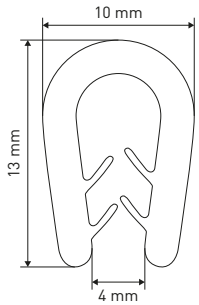


REF 101MC3394



Clamping range: 1,5–2,5 mm

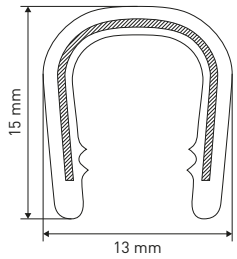
REF 101MC3395



Clamping range: 2,5–3,5 mm

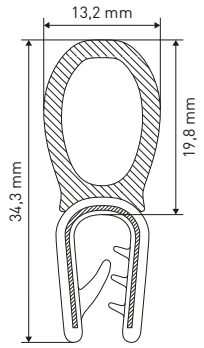
REF 101MC3396

RUBBER PROFILES



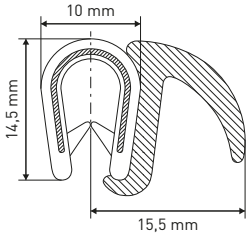
Clamping range: 6–8 mm

REF 101MC3397



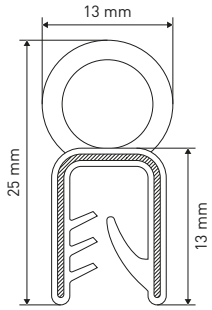
Clamping range: 2–4 mm

REF 101MC3398



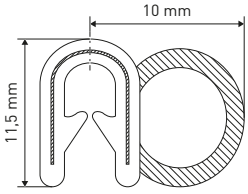
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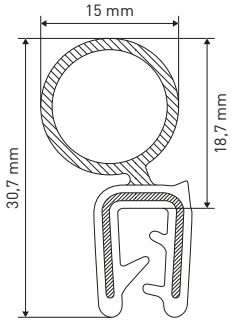
Clamping range: 3–5 mm

REF 101MC3400



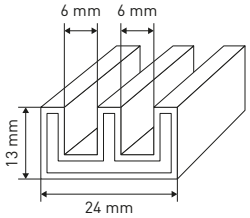
Clamping range: 1–2,5 mm

REF 101MC3401



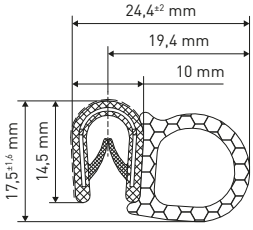
Clamping range: 1–3 mm

REF 101MC3402



Clamping range: 1–4 mm

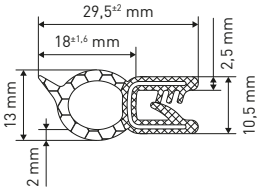
REF 101MC3403



Clamping range: 1–4 mm

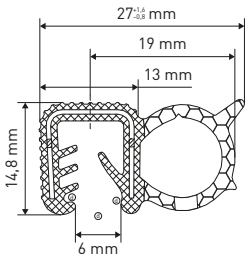
REF 101MC3404

RUBBER PROFILES



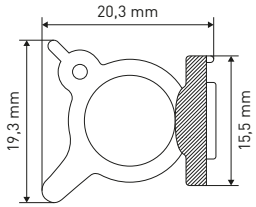
Clamping range: 1–2,5 mm

REF 101MC3405

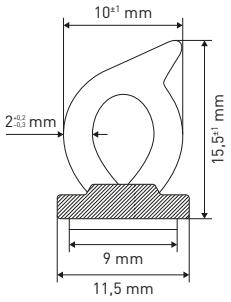


Clamping range: 5–6 mm

REF 101MC3406



REF 101MC3407



REF 101MC3408

EMERGENCY HAMMER



- To put inside the cabin
- Emergency hammer with seat-belt cutting blade incl bracket
- Tip: hardened metal

REF 100MC9621

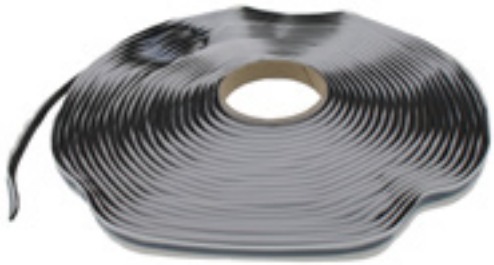
EMERGENCY GLASS BREAKER



- Glass hammer
- Length: 150 mm
- Width: 55 mm
- Bracket for glass hammer REF 101MC3171

REF 100MC3581

GASKET



- Adhesive paste for mounting glass 6 mm
- Black

REF 100MC9628

WINDOW REMOVAL TOOL



Work tool for windscreens

REF 101MC3409

TWO DOUBLE SUCTION PADS WITH STRAP



Facilitates the (dis)assembly of windshields

REF 100MC9635

WINDSHIELD INSTALLATION KIT



Contains:

- Rope insert tool: use this tool to insert the rope into rubber gaskets. The handle feeds rope through its stem as you pull it around the gasket
- Assort tip for insert tool: for inserting locking strip into windshield seal. Different shaped heads interchangeable for most types of locking strip
- Curved hook tool: used for inserting and cleaning rubber gaskets
- Straight hook tool: used for inserting and cleaning rubber gaskets
- Cleaning tool: designed for the removal of broken glass for the side rummers without removing them

REF 100MC9636

STRUCTURAL BONDING – POLYURETHANE



- Service temperature range (short exposure): –40 to 90 °C (120 °C)
- Viscosity: pasty
- Open time at 23 °C: 15 min
- Initial strength: 15 min
- Curing time: 5–7 days
- Tensile shear strength: > 4 at 5 mm layer
- 310 ml

Terostat-8599 HMLC is a one-component, extremely sag-resistant direct glazing adhesive/sealant based on polyurethane, which crosslinks (cures) to a rubber-elastic material under the influence of atmospheric moisture. The skin formation time and the curing time depend on the moisture of the air and the temperature; in addition, the curing time depends on the depth of the joint. An increase in temperature and atmospheric humidity can accelerate skin formation and curing, whereas a lower content of atmospheric humidity and lower temperatures delay the reaction. Under the given conditions of use, the high position tack of Terostat 8599 HMLC is ensured irrespective of atmospheric humidity and temperature.

The direct glazing sealant is outstanding for the following properties:

- Very good sag resistance
- Extremely high position tack immediately after the parts have been joined, i.e. no slipping of the windows (of advantage, should large and heavy windows be bonded)
- High elasticity and shear modulus
- Excellent adhesion to glass, glass with a ceramic coating and to painted surfaces, in connection with primer Terostat 8519P
- Good adhesion to the remaining material
- High curing rate
- High UV resistance in connection with primer Terostat 8519P
- High tensile shear strength, even after ageing
- Very low electrical conductivity

Application areas:
Bonding of front, rear and side windows into the body of motor vehicles (cars, trucks, driver cabins of tractors/fork lift trucks and special-purpose vehicles). Bonding of side windows made of single-pane glass or insulating glass in bus and rail coach manufacture.
The properties of the product have been particularly adjusted to uses which require elevated initial strength of the bond (no slipping of heavy windows, and repair glazing).
Furthermore, Terostat 8599 HMLC is suitable for all applications which require very high electrical insulation of the adhesive used for the bonding of windows (for example an adhesive compatible with aerials).

REF 101MC3757

STRUCTURAL BONDING KIT – POLYURETHANE



Contents:

- Single-component glue Terostat 8596: REF 101MC3410
- Primer
- Primer applicator: REF 101MC3758
- Nozzle
- Cutting wire
- Cleaner
- Cloth
- Manual

REF 101MC3756

DIRECT GLAZING REPAIR SET

TEROSON



Contents:
- Single-component glue Terostat 8597
- Primer (10 ml)
- Primer applicator
- 2 shafts
- Cleaner (20 ml)
- Wiper
- Sleeve for glue
- User manual

REF 100MC9629

CARTRIDGE GUN FOR PATTERNS WITH EPOXY GRIP AND TEMPERED PISTON ROD



REF 101MC3411

FLEXIDYN PU GLOVES

Honeywell



Recommendations:
Handling sharp parts in a dry or greasy environment

Applications:
- Handling of paper, fine sheet metal, sheets of glass, plastic items, cutting tools and finishing operations with cutters (Dynaflex)
- Handling of damp and slippery objects such as steel rods and sheet metal



Advantages:
- Excellent protection against cuts
- Excellent dexterity
- The fresh touch of Dyneema® provides a feeling of comfort

Characteristics:
- Cat II
- EN 420
- EN 388: 4543

REF 100MC9630 – Size 7
REF 100MC9631 – Size 8
REF 100MC9632 – Size 9
REF 100MC9633 – Size 10
REF 100MC9634 – Size 11

GLASS CLEAN PRO



- Harmless to paint finish
- Leaves no film
- Highly effective cleaning foam
- Removes grease, fingerprints, smoke haze, squashed insects and residues from glass surfaces
- Biodegradable
- Content: 500 ml

REF 100MC9637

WINDOW CLEANER



- Cleans, degreases and makes windows and other washable surfaces, such as mirrors shine
- Content: 5 l

REF 100MC9640

WINDOW CLEANER



- Glass cleaner, for cleaning windscreens, other windows and mirrors
- Removes exhaust film, grease and tobacco
- Content: 20 l

REF 100MC9639

DE-ICER



- A high-performance de-icer spray, suitable for use on vehicle windscreens
- Contains antifreeze to help prevent refreezing
- Content: 500 ml

REF 100MC9641

SCREENWASH READY FOR USE



- Antifreeze screenwash
- This screenwash is already diluted and is ready-to-use
- Quickly and easily removes dirt and insects from your windscreen
- Prevents the windscreen and spray nozzles from freezing
- Protects in temperatures as low as –24 °C
- Content: 5 l

REF 100MC3975

KIT SCREENWASH



- 2 nozzles
- 1 I-shaped connection
- 1 T-shaped connection
- 3,5 m hose
- Cable, switch + fixing parts

REF 100MC3976

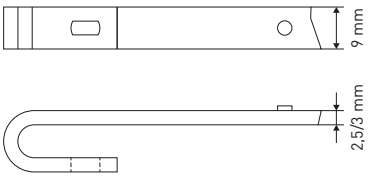
WIPER ARM ADAPTERS

Combination 1

Adapter type
Hook size 9 x 2,5 or 9 x 3 mm



Wiper arm

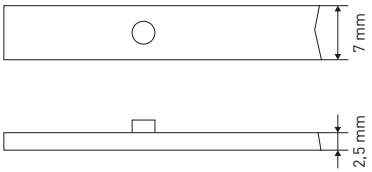


Combination 2

Adapter type
Bayonet



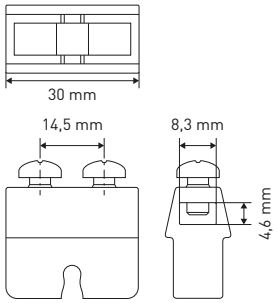
Wiper arm



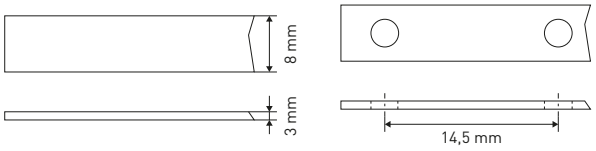
Combination 3

Adapter type





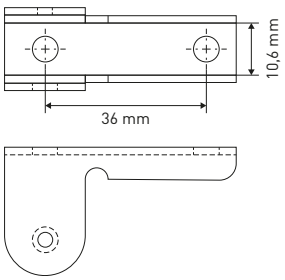
Wiper arm
Type 1 Type 2



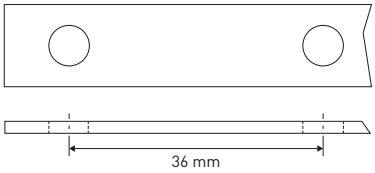
Combination 4

Adapter type





Wiper arm



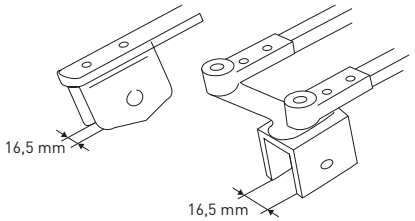
WIPER ARM ADAPTERS

Combination 5

Adapter type
Saddle type width: 16,5 mm



Wiper arm

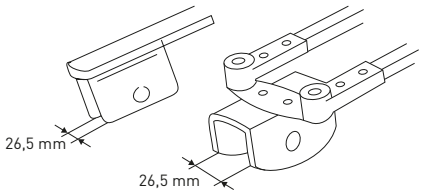


Combination 6

Adapter type
Saddle type width: 26,5 mm

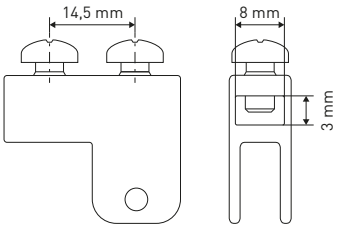


Wiper arm

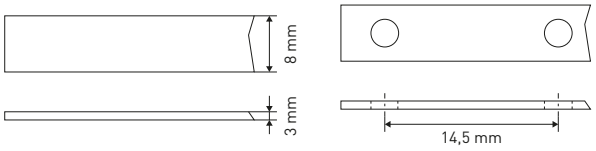


Combination 7

Adapter type



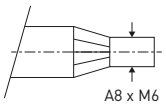
Wiper arm
Type 1 Type 2



WIPER ARMS



Detail wiper motor drive axle

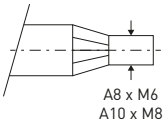


Single wiper arm

Length mm	Fitting size	Wiper section mm	Suitable for wiper blade with adapter type (see page 152)	REF
300–400	A8 x M6	8 x 3	1	100MC3936
400–500	A8 x M6	8 x 3	1	100MC3928



Detail wiper motor drive axle

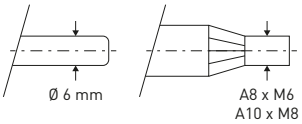


Single wiper arm

Length mm	Fitting size	Wiper section mm	Suitable for wiper blade with adapter type (see page 152)	REF
300–400	A10 x M8	7,1 x 2,5	2	100MC3935
400–500	A10 x M8	7,1 x 2,5	2	100MC3938
400–500	A8 x M6	7,1 x 2,5	2	100MC3937



Detail wiper motor drive axle



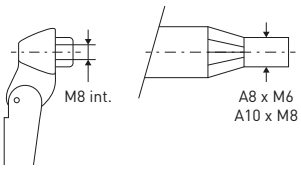
Single wiper arm

Length mm	Fitting size of wiper arm to fit on the motor shaft	Wiper section mm	Suitable for wiper blade with adapter type (see page 152)	REF
300–400	6 mm	8 x 3	3	100MC3921
400–500	6 mm	8 x 3	3	100MC3922
300–400	A8 x M6	8 x 3	3	100MC3923
400–500	A8 x M6	8 x 3	3	100MC3924
400–500	A10 x M8	8 x 3	3	100MC3925

WIPER ARMS



Detail wiper motor drive axle

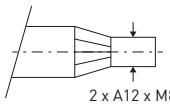


Parallel wiper arm

Length mm	Fitting size hole 1	Fitting size hole 2	Centre to centre size holes mm	Suitable for wiper blade with adapter type (see page 152)	REF
400–500	M8	A8 x M6	57	3	100MC3940
500–600	M8	A8 x M6	57	3	100MC3941
500–600	M8	A10 x M8	57	3	100MC3942
620–655	M8	A10 x M8	57	3	100MC3943

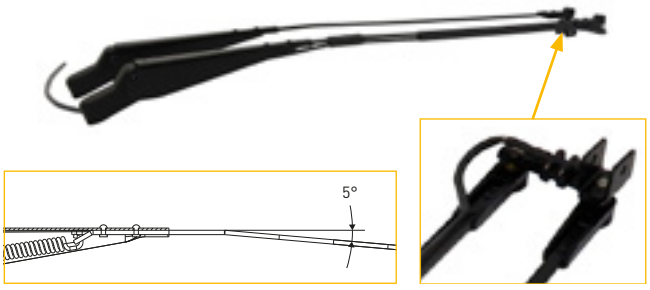


Detail wiper motor drive axle

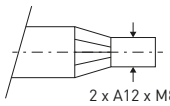


Parallel wiper arm

Length mm	Fitting size hole 1	Fitting size hole 2	Centre to centre size holes mm	Suitable for wiper blade with adapter type (see page 153)	REF
500	A12 x M8	A12 x M8	60	5	100MC3945
550	A12 x M8	A12 x M8	60	5	100MC3946
600	A12 x M8	A12 x M8	60	5	100MC3947
650	A12 x M8	A12 x M8	60	5	100MC3948
680	A12 x M8	A12 x M8	60	5	100MC3949
700	A12 x M8	A12 x M8	60	5	100MC3950
800	A12 x M8	A12 x M8	60	5	100MC3951



Detail wiper motor drive axle



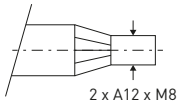
- Parallel wiper arm
- Used for Kalmar

Length mm	Fitting size of wiper arm to fit on the motor shaft hole 1	Fitting size of wiper arm to fit on the motor shaft hole 2	Centre to centre size holes mm	Suitable for wiper blade with adapter type (see page 153)	REF
800	A12 x M8	A12 x M8	60	5	100MC3957

WIPER ARMS



Detail wiper motor drive axle

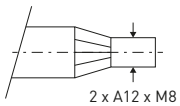


Parallel wiper arm

Length mm	Fitting size of wiper arm to fit on the motor shaft hole 1	Fitting size of wiper arm to fit on the motor shaft hole 2	Centre to centre size holes mm	Suitable for wiper blade with adapter type (see page 153)	REF
800	A12 x M8	A12 x M8	60	6	100MC3952
900	A12 x M8	A12 x M8	60	6	100MC3953
1000	A12 x M8	A12 x M8	60	6	100MC3954



Detail wiper motor drive axle



- Parallel wiper arm
- Used for Kalmar

Length mm	Fitting size of wiper arm to fit on the motor shaft hole 1	Fitting size of wiper arm to fit on the motor shaft hole 2	Centre to centre size holes mm	Suitable for wiper blade with adapter type (see page 153)	REF
800	A12 x M8	A12 x M8	60	6	101MC3448

WIPER BLADES



Length mm	Suitable for wiper arm with adapter type (see page 152)	REF
250	1, 2, 3	100MC8961
280	1, 2, 3	100MC8962
300	1, 2, 3	100MC3887
330	1, 2, 3	100MC3958
350	1, 2, 3	100MC3888
380	1, 2, 3	100MC8963
400	1, 2, 3	100MC3889
450	1, 2, 3	100MC3890
480	1, 2, 3	100MC3903
500	1, 2, 3	100MC3891
550	1, 2, 3	100MC3959
600	1, 2, 3	100MC3960
700	1, 2, 3	100MC3893

WIPER BLADES



Length mm	Suitable for wiper arm with adapter type (see page 152)	REF
510	4	100MC3904
550	4	100MC3905
580	4	100MC3906
600	4	100MC3907
650	4	100MC8964
700	4	100MC3908
800	4	100MC3909



Length mm	Suitable for wiper arm with adapter type (see page 153)	REF
500	5	100MC3894
600	5	100MC3895
650	5	100MC3896
700	5	100MC3897
800	5	100MC3898

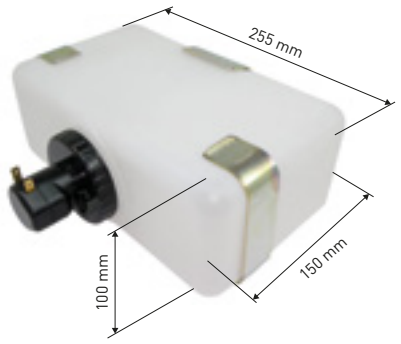


Length mm	Suitable for wiper arm with adapter type (see page 153)	REF
800	6	100MC3899
900	6	100MC3900
1000	6	100MC3901



Length mm	Fits on max wiper section mm	Suitable for wiper arm with adapter type (see page 153)	REF
300	8 x 3	7	100MC3910
350	8 x 3	7	100MC3913
400	8 x 3	7	100MC3914
450	8 x 3	7	100MC8965
500	8 x 3	7	100MC3919

WASHER BOTTLES



- Bottle 3,5 l
- Including 1 pump
- Voltage: 12 V

REF 100MC3977 – 12 V
REF 100MC4126 – 24 V

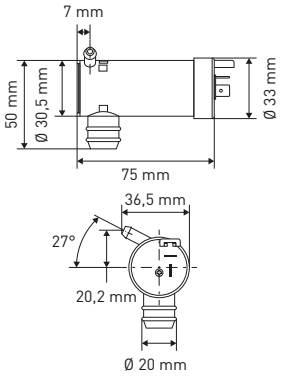


- Bottle 2,2 l
- Including 1 pump
- Voltage: 12 V

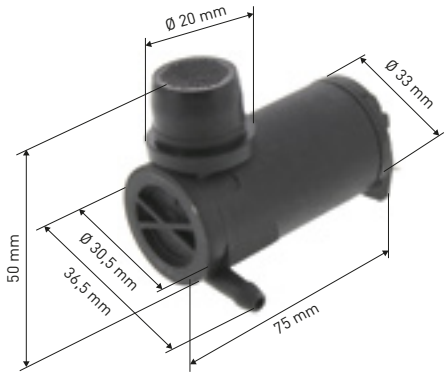
REF 100MC3978 – 12 V
REF 100MC3979 – 24 V

PUMPS



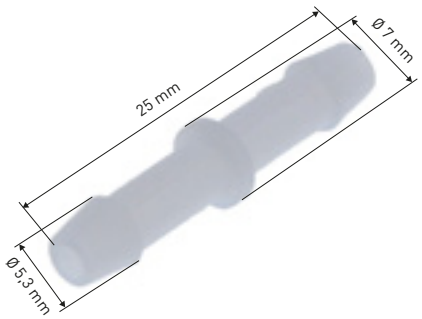


Voltage V	Nominal current	IP classification	REF
12	2	54	100MC3971
24	2	54	100MC3973



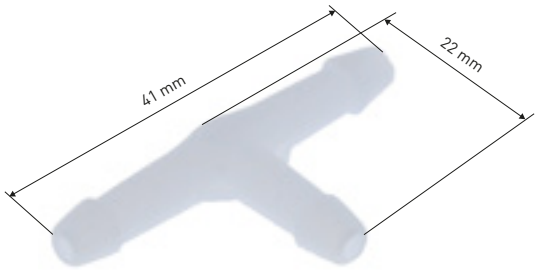
Voltage V	REF
12	100MC3970
24	100MC3972

HOSE CONNECTIONS



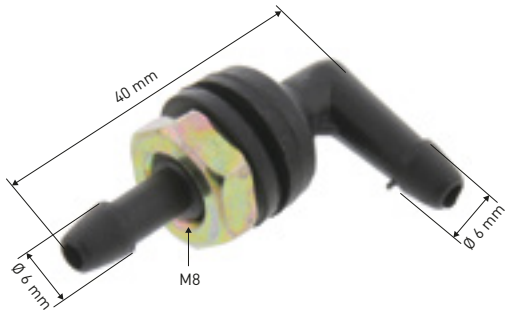
Connector for hose inner diameter: 4 mm

REF 100MC3980



Connector for hose inner diameter: 4 mm

REF 100MC3981



- Length: 26 mm
- Diameter: 15 mm
- For hose inner diameter: 3–4 mm

REF 100MC3982

NON-RETURN VALVES



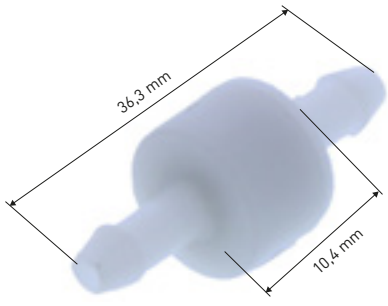
- Length: 36 mm
- Biggest outer diameter: 11,5 mm
- Nozzle for hose inner diameter: 4 mm
- Maximum pressure: 13 750 Pa

REF 100MC3961



- Length: 42 mm
- Biggest outer diameter: 15 mm
- Nozzle for hose inner diameter: 4 mm
- Maximum pressure: 24 500 Pa

REF 100MC3963



- Length: 36,3 mm
- Biggest outer diameter: 14,5 mm
- Nozzle for hose inner diameter: 4 mm

REF 100MC3962

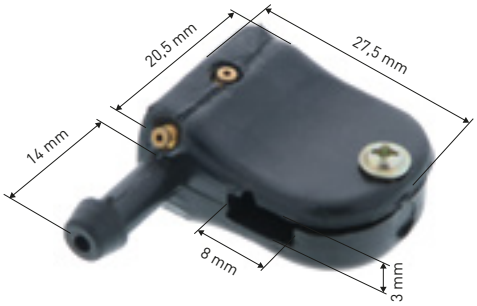
PVC HOSES



Please indicate the length and the diameter

Inside diameter mm	Outside diameter mm	REF Per metre
3	5	100MC2923
4	6	100MC2924
4	7	100MC2925
5	7	100MC2926
5	8	100MC2927
6	8	100MC2928
7	10	100MC2929
9	13	100MC2930
12	16	100MC2931
14	18	100MC2932
18	24	100MC2933

NOZZLES



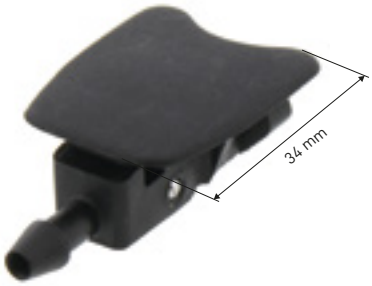
- Nozzle for hose inner diameter: 4 mm
- 3 jets
- To fit on wiper section 8 x 3 mm

REF 100MC3964



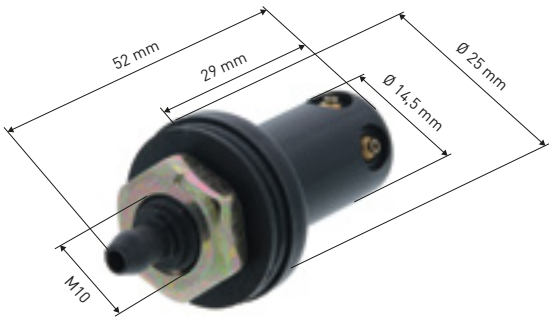
- Nozzle for hose inner diameter: 4 mm
- 1 jet

REF 100MC3965



- Nozzle for hose inner diameter: 4 mm
- 1 jet

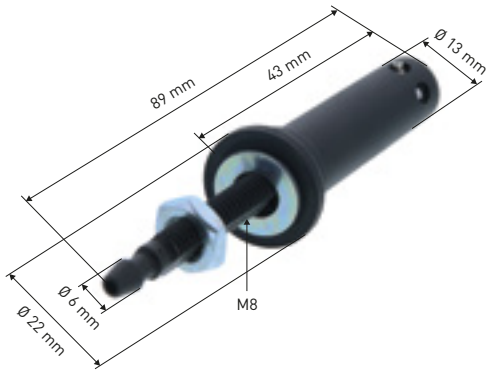
REF 100MC3966



- Nozzle for hose inner diameter: 4 mm
- 2 jets

REF 100MC3967

NOZZLES

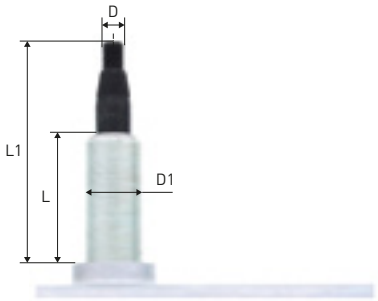


- Nozzle for hose inner diameter: 3–4 mm
- 2 jets

REF 100MC3968

WIPER MOTORS



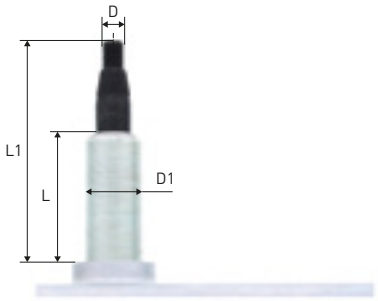


- Switch on/off: yes
- Number of speed: 1
- Automatic park position: no
- Thermal cut-off: no
- RFI suppression: no

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Length L mm	Length L1 mm	REF
12	85	6	M10 x 0,75	47	62	100MC3983
12	110	6	M10 x 0,75	46	62	100MC3984
24	85	6	M10 x 0,75	47	62	100MC3985
24	110	6	M10 x 0,75	46	62	100MC3986
12	85	6	M10 x 0,75	100	115	100MC3987
12	110	6	M10 x 1	100	115	100MC3988
24	85	6	M10 x 0,75	99	115	100MC3989
24	110	6	M10 x 1	100	115	100MC3990
24	85	6	M10 x 1	46,3	62,5	100MC4036

WIPER MOTORS



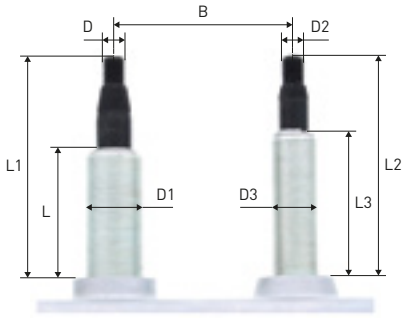


- Switch on/off: yes
- Number of speed: 1
- Automatic park position: no
- Thermal cut-off: no
- RFI suppression: no

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Length L mm	Length L1 mm	REF
12	85	A8 x M6	M12 x 1	47	71	100MC4022

WIPER MOTORS



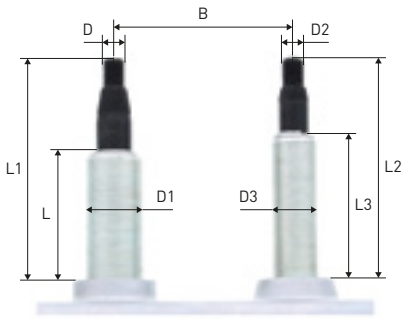


- Switch on/off: yes
- Number of speed: 1
- Automatic park possition: no
- Thermal cut-off: no
- RFI suppression: no

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Length L mm	Length L1 mm	Length L2 mm	Center B mm	REF
12	90	A8 x M6	M14 x 1	M8	36	55,5	30	57	100MC3991
24	90	A8 x M6	M14 x 1	M8	35,5	56	30	57	100MC3992
12	110	A8 x M6	M14 x 1	M8	35,5	55,5	30	57	100MC3993
24	110	A8 x M6	M14 x 1	M8	36	55,5	30	57	100MC3994

WIPER MOTORS



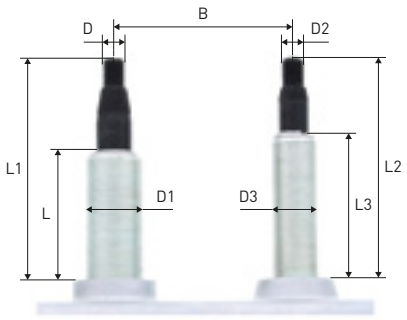


- Switch on/off: yes
- Number of speed: 1
- Automatic park position: yes
- Automatic park side: left
- Thermal cut-off: no
- RFI suppression: yes

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Length L mm	Length L1 mm	Length L2 mm	Center B mm	REF
12	80	A8 x M6	M12 x 1	M8	70	89,5	48,5	57	100MC3995
24	80	A8 x M6	M12 x 1	M8	69,5	89	48,4	57	100MC3996
12	90	A8 x M6	M12 x 1	M8	68,5	89	48,5	57	100MC3997
24	90	A8 x M6	M12 x 1	M8	68,5	89	48	57	100MC3998
12	110	A8 x M6	M12 x 1	M8	70	89,5	48,5	57	100MC3999
24	110	A8 x M6	M12 x 1	M8	70	89,5	48,5	57	100MC4000

WIPER MOTORS FOR FORKLIFTS

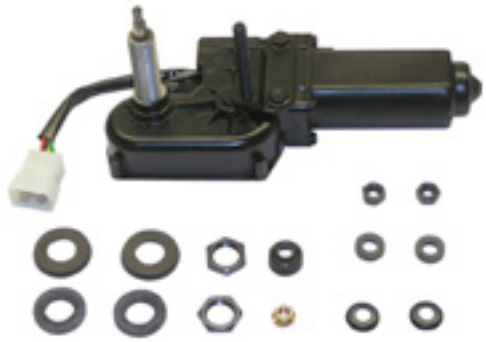


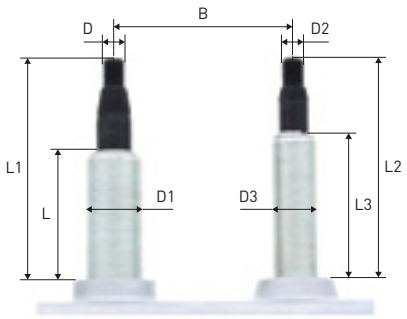


- Number of speed: 1
- Automatic park position: yes
- Automatic park side: left
- Thermal cut-off: yes
- RFI suppression: yes

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Length L mm	Length L1 mm	Length L2 mm	Center B mm	Switch on/ off Yes/no	REF
12	70	A8 x M6	M16 x 1	M8	48,9	68,5	56	57	Yes	100MC4001
12	90	A8 x M6	M16 x 1	M8	48	69	55	57	Yes	100MC4002
12	90	A8 x M6	M16 x 1	M8	48,9	68,4	56	57	No	100MC4003
24	90	A8 x M6	M16 x 1	M8	48,9	68,5	56,5	57	Yes	100MC4004
24	90	A8 x M6	M16 x 1	M8	48,9	68,3	56	57	No	100MC4005

WIPER MOTORS



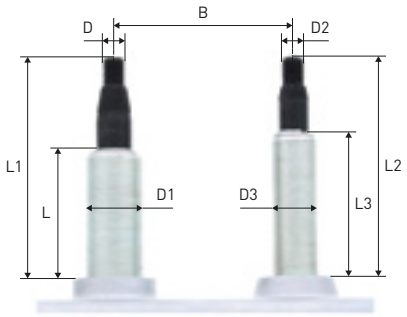


- Diameter D1: M16 x 1 mm
- Diameter D2: M8
- Center B: 57 mm
- Switch on/off: no
- Number of speed: 1
- Automatic park position: yes

Voltage V	Wiping angle °	Dia D mm	Length L mm	Length L1 mm	Length L2 mm	Automatic park side	Thermal cut-off Yes/no	RFI suppression Yes/no	RFI suppression Yes/no	REF
12	85	A8 x M6	49,5	69,5	55	Left	No	No	Yes	100MC4006
12	90	A8 x M6	49,5	69,5	55	Right	No	Yes		100MC4007
12	90	A8 x M6	49,5	69,5	55	Left	No	Yes		100MC4008
12	110	A8 x M6	49,5	69,5	55	Left	No	Yes		100MC4009
12	105	A10 x M8	48	70	42	Left	Yes	Yes		100MC4010
12	85	A10 x M8	34,5	57,5	30	Right	Yes	No		100MC4020

WIPER MOTORS



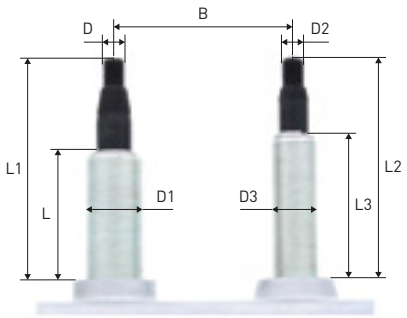


- Diameter D2: M8
- Center B: 57 mm
- Switch on/off: no
- Automatic park position: yes

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Length L mm	Length L1 mm	Length L2 mm	Number of speed	Automatic park side	Thermal cut-off Yes/no	RFI suppression Yes/no	REF
12	90	A8 x M6	M16 x 1	49,5	69,5	38	1	Left	No	Yes	100MC4026
24	90	A8 x M6	M14 x 1	48,5	69,5	55	2	Right	No	Yes	100MC4031
12	60	A10 x M8	M16 x 1	34,5	57,5	30	1	Right	Yes	No	100MC4032
12	110	A10 x M8	M16 x 1	49,5	72,2	44	2	Left	Yes	Yes	100MC4033

WIPER MOTORS



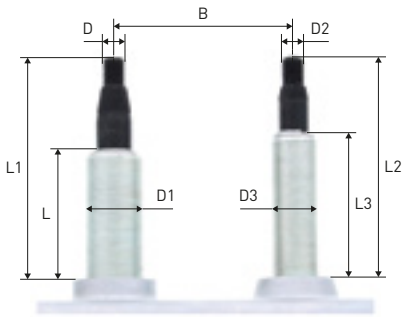


- Switch on/off: no
- Number of speed: 2
- Automatic park position: yes
- Thermal cut-off:no
- RFI suppression: yes

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Dia D3 mm	Length L mm	Length L1 mm	Length L2 mm	Length L3 mm	Center B mm	Automatic park side	REF
12	60	A12 x M8	M20 x 1	A10 x M8	M16 x 1	75	106	106	81	60	Left	100MC4011
24	75	A12 x M8	M20 x 1	A10 x M8	M16 x 1	75,5	106,5	106,5	81,5	60	Right	100MC4012
12	80	A12 x M8	M20 x 1	A10 x M8	M16 x 1	43	74	74	49	60	Left	100MC4013
24	80	A12 x M8	M20 x 1	A10 x M8	M16 x 1	43,5	74	74	49	60	Left	100MC4014
12	80	A12 x M8	M20 x 1	A10 x M8	M16 x 1	75,5	106,5	106,5	81,5	60	Left	100MC4015
24	80	A12 x M8	M20 x 1	A10 x M8	M16 x 1	75,5	106,5	106,5	81,5	60	Left	100MC4016

WIPER MOTORS



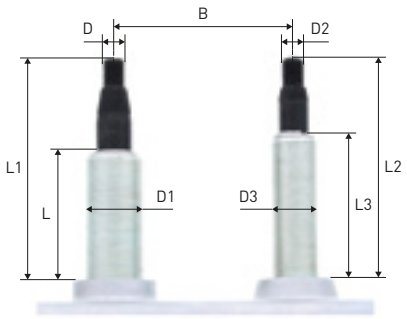


- Switch on/off: no
- Number of speed: 2
- Automatic park position: yes
- Thermal cut-off:yes
- RFI suppression: yes

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Dia D3 mm	Length L mm	Length L1 mm	Length L2 mm	Length L3 mm	Center B mm	Automatic park side	REF
24	90	A12 x M8	M20 x 1	A10 x M8	M16 x 1	76	107	106,5	81,5	60	Right	100MC4040
12	80	A12 x M8	M20 x 1	A10 x M8	M16 x 1	44	75	74	48,7	60	Left	100MC4024
12	80	A12 x M8	M20 x 1,5	A10 x M8	M16 x 1	48,7	79,4	73	48	60	Left	100MC4025

WIPER MOTORS



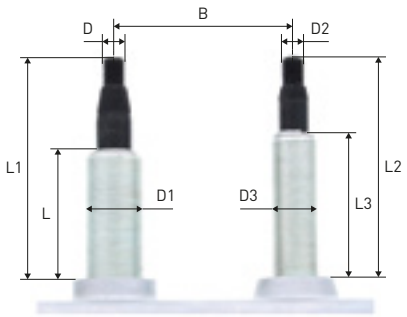


- Switch on/off: no
- Number of speed: 2
- Automatic park position: yes
- Automatic park side: left
- Thermal cut-off: no
- RFI suppression: yes

Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Dia D3 mm	Length L mm	Length L1 mm	Length L2 mm	Length L3 mm	Center B mm	Switch on/off Yes/no	REF
12	60–70–80	A12 x M8	M20 x 1	A12 x M8	M20 x 1	83	110	110	83	60	No	100MC4017
24	60–70–80	A12 x M8	M20 x 1	A12 x M8	M20 x 1	83,5	110,5	110,5	83,5	60	No	100MC4018
12	70	A12 x M8	M20 x 1	A12 x M8	M20 x 1	52,5	79,5	83	53	60	No	100MC4019

WIPER MOTORS





- Switch on/off: no
- Automatic park position: yes
- Automatic park side: left
- RFI suppresion: yes

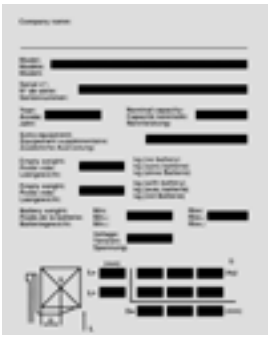
Voltage V	Wiping angle °	Dia D mm	Dia D1 mm	Dia D2	Dia D3 mm	Length L mm	Length L1 mm	Length L2 mm	Length L3 mm	Center B mm	Switch on/off Yes/no	Number of speed	Thermal cut-off Yes/no	REF
12	60–70–80	A12 x M8	M20 x 1	A12 x M8	M20 x 1	53,5	80,5	80,5	53,5	60	No	2	No	**100MC4037**
12	60	A12 x M8	M20 x 1	A10 x M8	M16 x 1	113	143	142,5	111	60	No	2	Yes	**100MC4038**
24	80	A12 x M8	M20 x 1	A12 x M8	M20 x 1	38	68	68	38	60	No	1	Yes	**100MC4039**

TYPE PLATES



- Dimensions: 120 x 150 mm
- Loading diagram

REF 100MC9623



- Dimensions: 120 x 150 mm
- Loading diagram

REF 100MC9624

COMPLETE KIT OF SAFETY DECALS



Complete kit of safety decals

REF 100MC9625

LABELS & DECALS



Please consult our Labels & decals catalogue (REF 12594102)

Go to downloads on www.tvh.com to view the catalogue online.



ELECTRICAL EQUIPMENT

ALKALINE BATTERIES



Size	Type	Voltage	Blister	Box	REF	
					Blister	Box
	3LR12	4,5	1		100MC5076	
AAA	LR3	1,5	4	10	100MC5077	100MC5082
AA	LR6	1,5	4	40	100MC5078	100MC5083
C	LR14	1,5	2	20	100MC5079	100MC5084
D	LR20	1,5	2	20	100MC5080	100MC5085
E	6LR61	9	1	20	100MC5081	100MC5086

RECHARGEABLE BATTERIES NI-MH



Size	Type	Voltage	mAh	Blister	REF
AAA	LR3	1,2	900	4	100MC5087
AA	LR6	1,2	2100	4	100MC5088
C	LR14	1,2	2200	2	100MC5089
D	LR20	1,2	2600	2	100MC5090
E	6LR61	8,4	150	1	100MC5091

BUTTON CELL BATTERIES



Type	Voltage	Units	REF
SR44W	1,55	1	100MC5092
LR44	1,5	1	100MC5093
CR1620	3	1	100MC5094
CR2016	3	1	100MC5095
CR2025	3	1	100MC5096
CR2032	3	1	100MC5097
CR2430	3	1	100MC5098
CR2450	3	1	100MC5099

MULTI-CHARGER NI-MH

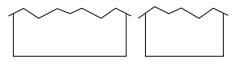
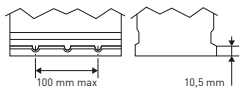
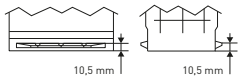
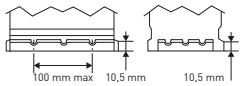
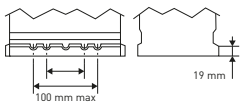
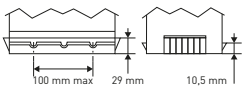
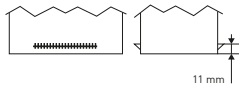
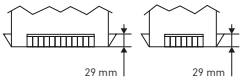
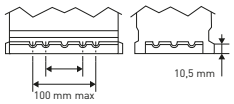


- For batteries AA, AAA, C, D, 9 V
- Possibility to charge up to 8 batteries at once (8 x AA, 8 x AAA, 4 x C, 4 x D, 1 x 9 V)

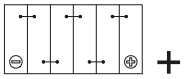
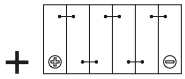
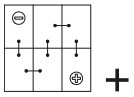
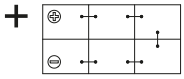
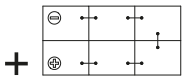
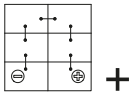
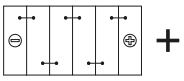
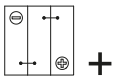
REF 100MC5165

HEAVY-DUTY STARTER BATTERIES

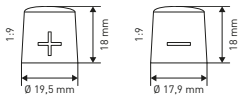
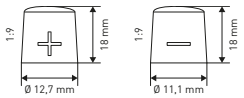
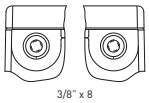
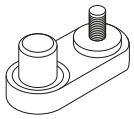
Fixation

 B00/B0	 B01/B1	 Korean B01	 B03/B3	 B4
 B05/B5	 B07/B7	 B09/B9	 B13	

Layout

 0 (+RL)	 1 (+LL)	 2 (cross)	 3 (+LK)
 4 (+RK)	 6	 9 (centre)	 6 Volt: 0

Terminal type

 1 (DIN)	 3 (JIS)	 19 (Ford)	 21 (side term FT)	 DT

HEAVY-DUTY STARTER BATTERIES





Starter batteries for vehicles "Exellent"

The Extreme and Exellent is a private label range of high-quality starter batteries at attractive prices for cars, vans, trucks ...

- VRLA battery (no refilling needed)
- CaCa technology
- +15% of starting capacity
- Maintenance-free
- Leakproof

Type	Capacity range Ah	CCA (EN) A	L x W x H mm	Weight kg	Layout	Fixation	Terminal type	REF
Voltage: 12 V								
535.020.030SMF	35	300	187 x 127 x 220	9,0	0	B00	3	100MC5100
535.022.030SMF	35	300	187 x 127 x 220	8,9	1	B00	3	100MC5101
535.087.030SMF	35	300	187 x 127 x 220	8,9	0	B01	3	100MC5102
540.008.034SMF	40	340	174 x 174 x 190	10,3	0	B13	1	100MC5103
545.023.034SMF	45	340	234 x 127 x 220	10,7	0	B00	1	100MC5104
545.024.034SMF	45	340	234 x 127 x 220	10,7	1	B00	1	100MC5105
545.051.034SMF	45	340	234 x 127 x 220	10,7	1	B00	3	100MC5106
545.084.034SMF	45	340	234 x 127 x 220	10,7	0	B00	3	100MC5107
545.059.039SMF (E1)	45	390	208 x 174 x 175	11,0	0	B13(B04)	1	100MC5108
545.077.036SMF	45	360	218 x 133 x 223	10,7	0	B01	1	100MC5109
545.079.036SMF	45	360	218 x 133 x 223	10,7	1	B01	1	100MC5110
550.041.039SMF	50	390	200 x 172 x 220	12,8	0	B01	1	100MC5111
550.042.039SMF	50	390	200 x 172 x 220	12,8	1	B01	1	100MC5112
550.054.042SMF	50	420	208 x 174 x 190	11,8	0	B13	1	100MC5113
554.059.048SMF	55	480	242 x 174 x 175	13,0	0	B13(B04)	1	100MC5114
555.059.048SMF	55	480	242 x 174 x 190	13,9	0	B13	1	100MC5115
555.065.048SMF	55	480	242 x 174 x 190	13,9	1	B13	1	100MC5116
560.068.048SMF	60	480	230 x 172 x 220	15,0	0	B00	1	100MC5117
560.069.048SMF	60	480	230 x 172 x 220	15,0	1	B00	1	100MC5118
560.077.054SMF (E2)	60	540	242 x 174 x 175	13,7	0	B13(B04)	1	100MC5119
566.019.064SMF (E2-640)	66	640	242 x 175 x 190	15,2	0	B13	1	100MC5120
570.024.054SMF	70	540	266 x 172 x 220	16,2	1	B01	1	100MC5121
570.029.054SMF	70	540	266 x 172 x 220	16,2	0	B01	1	100MC5122
571.013.064SMF (E3)	72	640	277 x 174 x 175	15,7	0	B13(B04)	1	100MC5123
574.020.068SMF	74	680	277 x 174 x 190	17,3	0	B13	1	100MC5124
574.026.068SMF	74	680	277 x 174 x 190	17,3	1	B13	1	100MC5125
580.035.072SMF (E4)	80	720	315 x 174 x 175	18,5	0	B13(B04)	1	100MC5126
580.043.064SMF	80	640	315 x 174 x 190	19,5	0	B13	1	100MC5127
585.019.075SMF	85	750	315 x 174 x 190	20,3	1	B13	1	100MC5128
585.015.072SMF (E5)	85	720	354 x 174 x 175	19,7	0	B13(B04)	1	100MC5129
588.015.067SMF	88	680	354 x 174 x 190	21,6	0	B13(B04)	1	100MC5130
588.021.067SMF	88	680	354 x 174 x 190	21,4	1	B13(B04)	1	100MC5131
600.032.072SMF	100	720	302 x 172 x 220	21,3	0	B01	1	100MC5132
600.033.072SMF	100	720	302 x 172 x 220	21,3	1	B01	1	100MC5133
600.038.085SMF (E5H)	100	850	354 x 174 x 190	22,7	0	B13(B04)	1	100MC5134

For layout, fixation and terminal type you can go to page 176 for the drawings

HEAVY-DUTY STARTER BATTERIES



Truck batteries “Exellent”

- Sealed maintenance-free SMF
- Designed for extreme power demands
- Higher operational availability and safety
- Extended service life
- Suitable for commercial vehicles, buses and trucks with latest electrical equipment

Type	Capacity range Ah	CCA (EN) A	L x W x H mm	Weight kg	Layout	Fixation	Terminal type	REF
Voltage: 12 V								
640.020.095SMF	140	950	513 x 189 x 220	35,3	3	B00	1	**100MC5135**
680.045.115SMF	180	1150	513 x 223 x 223	44,3	3	B00	1	**100MC5136**
730.012.140SMF	230	1400	514 x 276 x 242	56,3	3	B00	1	**100MC5137**

For layout, fixation and terminal type you can go to page 176 for the drawings

HEAVY-DUTY STARTER BATTERIES (XTREME)





Truck batteries “Xtreme”

These starting batteries are top quality for lorries, tractors and machines that have a high fuel power consumption and have to work in extreme conditions or drive on bad roads.

- High resistance against vibrations
- Additional cell fixing
- Glass fibre separators
- High starting capacity at low temperatures
- Low self-discharge

Type	Capacity range Ah	CCA (EN) A	L x W x H mm	Weight kg	Layout	Fixation	Terminal type	REF
Voltage: 12 V								
605.027.076	110	760	345 x 175 x 230	24,4	1	B00	1	100MC5138
610.028.077	110	770	345 x 175 x 230	24,3	0	B00	1	100MC5139
610.013.080	110	800	514 x 175 x 210	31,7	3	B03	1	100MC5140
610.042.100	110	1000	394 x 175 x 190	25,7	0	B03	1	100MC5141
620.034.076	120	760	513 x 189 x 220	32,0	3	B00	1	100MC5142
625.023.080	125	850	286 x 260 x 226	30,5	2	B00	1	100MC5143
628.011.070	130	840	345 x 175 x 285	29,2	0	B00	1	100MC5144
635.039.095	135	950	514 x 175 x 210	35,0	3	B03	1	100MC5145
640.020.090	140	800	513 x 189 x 220	32,9	3	B00	1	100MC5146
640.021.076	140	800	513 x 189 x 223	32,9	4	B00	1	100MC5147
650.020.100	150	1000	513 x 189 x 220	35,3	3	B00	1	100MC5148
650.089.100	150	1050	513 x 223 x 223	41,2	3	B00	1	100MC5149
660.038.100	160	1050	513 x 189 x 220	37,1	3	B00	1	100MC5150
680.045.115	180	1150	513 x 223 x 223	44,3	3	B00	1	100MC5151
700.032.140	200	1400	514 x 218 x 218	40,7	3	B03	1	100MC5152
700.088.125	200	1250	513 x 223 x 223	44,2	3	B00	1	100MC5153
700.027.125	200	1250	514 x 276 x 242	54,6	3	B00	1	100MC5154
730.027.130	230	1300	514 x 276 x 242	56,2	3	B00	1	100MC5155

For layout, fixation and terminal type you can go to page 176 for the drawings

SPECIAL TYPES OF STARTER BATTERIES

	Type	Capacity range Ah	CCA (EN) A	L x W x H mm	Weight kg	Layout	Fixation	Terminal type	REF
Voltage: 6 V									
	1-640	90	640	231 x 176 x 222	14	2	B00	1	100MC5156
	2-700	135	610	260 x 174 x 221	17	2	B00	1	100MC5157
	4H-950	150	950	321 x 178 x 241	29	2	B00	1	100MC5158
	112.013.052	112	875	487 x 109 x 248	23	9	B00	1	100MC5159
Voltage: 12 V									
	570.016.054	70	400	487 x 109 x 217	19,30	9	B00	1	100MC5160
	75-650	70	650	230 x 179 x 187	17	1	B00	21	100MC5161
	78-800	70	800	260 x 179 x 187	19	1	B00	21	100MC5162
	31A-1100	105	1100	330 x 171 x 240	27	9	B00	1	100MC5163
	635.042.076	135	760	360 x 253 x 240	32,80	0	B00	1	100MC5164

For layout, fixation and terminal type you can go to page 176 for the drawings

OPTIMA SPIRALCELL BATTERIES



OPTIMA spiralcell technology®

OPTIMA's unique anatomy is built on SpiralCell® Technology. Instead of flat plates used in ordinary batteries, OPTIMA uses two thin lead plates wound into a spiral cell with a glass mat in between to contain the acid. The technique of winding the cells, which are linked with solid connections, gives maximum performance at a minimum of size and weight. This makes the battery compact, robust and easy to mount.

Advantages:

- Absolutely maintenance-free
- Maximum vibration resistance
- Large cycle capacity
- Long storage period, high resistance to corrosion
- Leakproof, can be built-in in every position
- Quick charge, more capacity
- Better resistant to extreme temperatures

OPTIMA REDTOP™



OPTIMA RedTop™

Starter battery for professional use

- Maximum starting power for big diesel engines and heavy machines
- This technology guarantees a maximum of starting power, also at extreme temperature differences of 40 °C to –40 °C

Type	Capacity (EN) Ah	CCA (EN) A	L x W x H mm	Weight kg	Layout	Terminal type	REF
Voltage: 6 V							
RT S-2.1	50	815	255 x 90 x 206	8,4	1	1	100MC5195
Voltage: 12 V							
RT S-3.7	44	730	237 x 171 x 197	14,4	1	1	100MC5191
RT U-3.7	44	730	237 x 171 x 197	15,0	1	1 + 21	100MC5196
RT R-3.7	44	730	237 x 171 x 197	14,4	0	1	100MC5197
RT S-4.2	50	815	254 x 175 x 200	17,2	1	1	100MC5192
RT U-4.2	50	815	254 x 175 x 200	17,6	1	1 + 21	100MC5193
RT R-4.2	50	815	254 x 175 x 200	17,2	0	1	100MC5194
RT C-4.2	50	815	254 x 175 x 200	17,2	1	1	100MC5198

For layout, fixation and terminal type you can go to page 176 for the drawings

OPTIMA YELLOWTOP™



OPTIMA YellowTop™

Dual power batteries for professional use
OPTIMA YellowTop is a battery that combines the advantages of a starter battery with those of a traction battery.

Type	Capacity (EN) Ah	CCA (EN)	L x W x H mm	Weight kg	Layout	Terminal type	REF
Voltage: 12 V							
YT S-2.7 J	38	460	237 x 129 x 227	12,4	1	3	100MC5202
YT S-2.7	38	460	237 x 129 x 227	11,8	1	1	100MC5203
YT R-2.7 J	38	460	237 x 129 x 227	11,8	0	3	100MC5204
YT R-2.7	38	460	237 x 129 x 227	11,8	0	1	100MC5205
YT R-3.7	48	660	237 x 172 x 197	16,6	0	1	100MC5206
YT S-4.2	55	765	254 x 175 x 200	19,5	1	1	100MC5199
YT U-4.2	55	765	254 x 175 x 200	19,9	1	1 + 21	100MC5200
YT S-5.5	75	975	325 x 165 x 238	26,5	1	1	100MC5201

For layout, fixation and terminal type you can go to page 176 for the drawings

OPTIMA BLUETOP™



OPTIMA BlueTop™

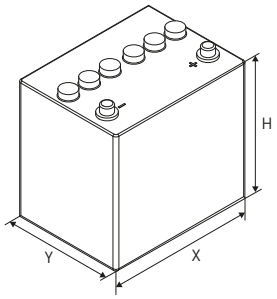
Starter & deep-cycle battery for marine applications
BT DC 4,2/BT DC 5,5: dual-purpose batteries. Designed for engine starting and deep cycle applications and for use in boats with large accessory loads.

Type	Capacity (EN) Ah	CCA (EN)	L x W x H mm	Weight kg	Layout	Terminal type	REF
Voltage: 12 V							
BT DC 4.2	55	765	254 x 175 x 200	19,7	1	DT	101MC1402
BT DC 5.5	75	975	325 x 165 x 238	26,5	1	DT	100MC8447
BT DC 5.0	66	845	309 x 172 x 221	24,4	1	DT	100MC8448

For layout, fixation and terminal type you can go to page 176 for the drawings

SEMI-TRACTION BATTERIES: FLAT PLATE



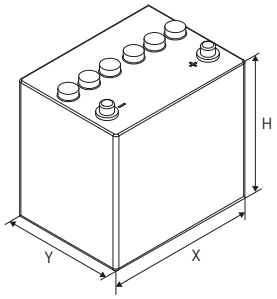


Type	Capacity (20 h) Ah	Capacity (5 h) Ah	Length (X) x width (Y) x height (H) mm	Weight kg	Layout	Terminal type	REF
Voltage: 6 V							
9.080.1	100	80	231 x 176 x 222	14,0	0	1	100MC5207
9.095.2	120	96	260 x 175 x 221	17,0	0	1	100MC5208
9.180.1	240	185	244 x 190 x 274	29,4	0	1	100MC5209
Voltage: 12 V							
9.540.1	50	40	207 x 175 x 190	12,4	0	1	100MC5210
9.550.2	60	50	242 x 175 x 190	15,3	0	1	100MC5211
9.560.2	75	60	278 x 175 x 190	18,2	0	1	100MC5212
9.555.1	85	65	270 x 175 x 220	18,8	1	1	100MC5213
9.575.1	90	80	353 x 178 x 190	22,4	0	1	100MC5214
9.580.3	100	80	304 x 175 x 220	23,7	0	1	100MC5215
MF31DC	100	80	330 x 172 x 242	23,0	1	DT	100MC5163
9.580.4	105	90	345 x 175 x 230	27,2	0	1	100MC5217
9.590.3	120	90	304 x 175 x 220	24,0	0	1	100MC5218
9.600.2	125	100	345 x 175 x 285	31,9	0	1	100MC5220
9.820.0	135	100	360 x 253 x 240	37,5	0	1	100MC5219
9.605.1	140	120	513 x 189 x 223	39,0	3	1	100MC5221
9.635.1	180	155	513 x 223 x 223	45,1	3	1	100MC5223
9.680.1	230	190	518 x 274 x 242	58,3	3	1	100MC5224

For layout, fixation and terminal type you can go to page 176 for the drawings

MONOBLOC TRACTION BATTERIES: TUBULAR PLATE



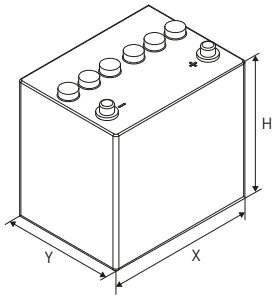


Type	Capacity (20 h) Ah	Capacity (5 h) Ah	Length (X) x width (Y) x height (H) mm	Weight kg	Layout	Terminal type	REF
Voltage: 6 V							
6PZS180	227	175	260 x 180 x 275	30,0	0	1	100MC5227
6PZS195	240	195	244 x 190 x 275	30,5	0	1	100MC5225
6PZS205	250	205	244 x 190 x 275	31,5	0	1	100MC5226
PZS320	425	320	311 x 185 x 360	51,0	0	1	100MC5228
Voltage: 12 V							
2PZS38	50	36	205 x 175 x 190	13,5	0	1	100MC5229
3PZS57	60	55	278 x 175 x 190	18,2	0	1	100MC5231
2PZS56	75	56	265 x 175 x 210	20,2	0	1	100MC5230
3PZS75	110	90	303 x 175 x 228	28,7	0	1	100MC5232
4PZS90	115	95	344 x 172 x 234	30,0	0	1	100MC5233
4PZS118	140	120	344 x 170 x 284	37,3	0	1	100MC5234
4PZS126	167	126	510 x 175 x 225	39,0	4	1	100MC5235
PZS150	200	150	510 x 222 x 225	51,4	4	1	100MC5236

For layout, fixation and terminal type you can go to page 176 for the drawings

AGM-BATTERIES: HEAVY-DUTY CYCLIC APPLICATIONS



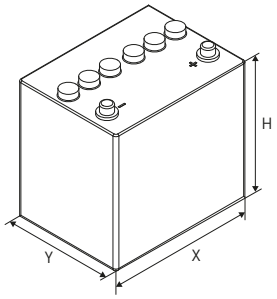


Type	Capacity (20 h) Ah	Capacity (5 h) Ah	Length (X) x width (Y) x height (H) mm	Weight kg	Layout	Terminal type	REF
Voltage: 6 V							
DAB6-110EV	122	94,7	193 x 168 x 208	17,9	1	M8	100MC5237
DAB6-160EV	178	145	298 x 171 x 229	26,4	1	M8	100MC5238
DAB6-200EV	227	182	323 x 178 x 228	31,8	1	M8	100MC5240
DAB6-225EV	243	198	244 x 188 x 275	32,8	1	M8	100MC5241
Voltage: 8 V							
DAB8-160EV	161	131	260 x 182 x 298	36,8	1	M8	100MC5242
Voltage: 12 V							
DAB12-14EV	12,3	10,0	151 x 98 x 106	3,9	3	T2	100MC5243
DAB12-18EV	18,5	15,5	181 x 76 x 167	5,5	0	M5	100MC5245
DAB12-26EV	29,5	22,2	168 x 178 x 124	8,4	0	M5	100MC5246
DAB12-28EV	29,7	24,3	166 x 125 x 175	9,1	0	M5	100MC5247
DAB12-33EV	34,0	28,0	196 x 131 x 160	10,4	1	M6	100MC5248
DAB12-44EV	46,2	37,7	198 x 167 x 158	13,3	0	M6	100MC5249
DAB12-55EV	60,7	49,8	229 x 138 x 214	17,0	1	M6	100MC5250
DAB12-70EV	86,6	71,2	260 x 168 x 212	23,6	1	M6	100MC5252
DAB12-70JEV	73,3	58,7	349 x 168 x 176	21,6	0	M6	100MC5251
DAB12-80EV	92,0	72,8	260 x 168 x 212	24,6	1	M8	100MC5253
DAB12-100EV	108,0	83,9	306 x 168 x 212	30,4	1	M8	100MC5255
DAB12-110EV	118,0	94,4	329 x 173 x 210	32,5	1	M8	100MC5256
DAB12-120EV	128,0	109,0	409 x 177 x 227	37,0	1	M8	100MC5257
DAB12-135EV	166,0	136,0	342 x 173 x 286	43,3	1	M8	100MC5258
DAB12-150EV	163,0	134,0	483 x 170 x 242	44,0	1	M8	100MC5259
DAB12-160EV	181,0	146,0	530 x 209 x 217	55,0	4	M8	100MC5260
DAB12-200EV	226,0	182,0	522 x 242 x 225	63,7	4	M8	100MC5261
DAB12-230EV	254,0	208,0	521 x 270 x 208	73,5	4	M8	100MC5262

For layout, fixation and terminal type you can go to page 176 for the drawings

SEMI-TRACTION BATTERIES: GEL



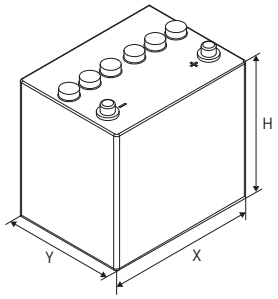


Type	Capacity (20 h) Ah	Capacity (5 h) Ah	Length (X) x width (Y) x height (H) mm	Weight kg	Layout	Terminal type	REF
Voltage: 6 V							
DGY6-7.5EV	7,7	6,2	150 x 34 x 100	1,2	1	T1	100MC5263
DGY6-10EV	10,3	8,4	151 x 50 x 101	1,8	1	T1	100MC5264
DGY6-12EV	12,3	10,3	151 x 50 x 103	1,8	1	T2	100MC5265
DGY6-110EV	123	102	193 x 168 x 208	17,9	1	M8	100MC5266
DGY6-160EV	189	157	298 x 171 x 229	26,9	1	M8	100MC5267
DGY6-180EV	210	167	260 x 180 x 252	29,5	0	M8	100MC5269
DGY6-200EV	221	178	323 x 178 x 228	31,1	1	M8	100MC5270
Voltage: 8 V							
DGY8-180EV	157	128	260 x 182 x 298	36,4	1	DT	100MC5271
Voltage: 12 V							
DGY12-18EV	17,7	14,7	181 x 76 x 167	5,5	0	M5	100MC5272
DGY12-26EV	26,3	22,2	168 x 178 x 124	8,8	0	M5	100MC5273
DGY12-30DEV	30,0	24,0	197 x 132 x 186	12,0	1	F	100MC5274
DGY12-33EV	36,4	28,3	195 x 130 x 160	10,2	1	M6	100MC5275
DGY12-40DEV	40,0	29,0	210 x 175 x 175	15,0	0	F	100MC5276
DGY12-44EV	45,4	36,8	198 x 167 x 158	13,5	0	M6	100MC5277
DGY12-55EV	59,7	49,7	229 x 138 x 214	16,8	1	M6	100MC5278
DGY12-60DEV	60,0	50,0	278 x 175 x 190	19,7	0	1	100MC5279
DGY12-65EV	75,0	61,1	279 x 175 x 190	22,1	0	M6	100MC5280
DGY12-70JEV	71,5	57,8	349 x 168 x 176	22,6	0	M6	100MC5281
DGY12-80DEV	80,0	70,0	353 x 175 x 190	25,5	0	1	100MC5283
DGY12-85DEV	85,0	75,0	352 x 175 x 232	29,2	0	1	100MC5284
DGY12-100EV	105,0	80,9	306 x 168 x 212	28,3	1	M8	100MC5285
DGY12-110EV	119,0	94,0	329 x 173 x 227	30,9	1	M8	100MC5286
DGY12-110DEV	110,0	90,0	286 x 270 x 230	38,7	2	1	100MC5287
DGY12-120DEV	120,0	95,0	513 x 189 x 223	40,0	3	1	100MC5288
DGY12-135EV	161,0	133,0	340 x 173 x 286	41,9	1	1	100MC5289
DGY12-140DEV	150,0	130,0	509 x 223 x 222	47,5	3	1	100MC5290
DGY12-150EV	159,0	130,0	482 x 170 x 242	45,0	1	M8	100MC5291
DGY12-160EV	191,0	158,0	530 x 209 x 217	54,9	4	M8	100MC5292
DGY12-200EV	246,0	205,0	520 x 240 x 223	63,3	4	M8	100MC5293
DGY12-210DEV	210,0	180,0	518 x 273 x 240	71,2	3	1	100MC5294
DGY12-225EV	263,0	216,0	521 x 269 x 208	74,5	4	M8	100MC5295

For layout, fixation and terminal type you can go to page 176 for the drawings

DEEP-CYCLE BATTERIES FOR ACCESS EQUIPMENT



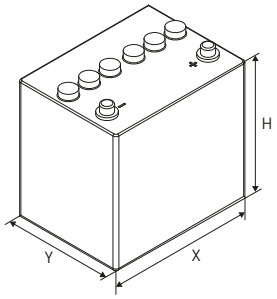


Type Dyno Europe	Capacity (20 h) Ah	Capacity (5 h) Ah	Length (X) x width (Y) x height (H) mm	Weight kg	Layout	Terminal type	Pro eye	REF
Voltage: 6 V								
GC2E-HD	205	170	260 x 179 x 278	25,4	0	DT	No	100MC5296
GC2-HD	220	180	260 x 179 x 278	27,2	0	DT	No	100MC5297
GC2C-HD	235	190	260 x 179 x 278	28,6	0	DT	No	100MC5298
GD2B-HD	240	195	260 x 179 x 278	30,8	0	DT	No	100MC5299
6DCS195	240	195	245 x 191 x 273	29,0	0	1	No	100MC5300
GC2H-HD	260	215	260 x 183 x 295	34,0	0	DT	No	100MC5301
S3H	250	200	298 x 183 x 283	33,1	0	DT	No	100MC5302
S3HH	275	225	298 x 183 x 283	34,5	0	DT	No	100MC5303
S4-HD	305	255	310 x 183 x 359	40,8	0	DT	Yes	100MC5304
S4H-HD	330	270	310 x 183 x 359	42,2	0	DT	Yes	100MC5305
S4HH-HD	350	290	310 x 183 x 359	45,8	0	DT	Yes	100MC5306
L16-HD	370	295	314 x 183 x 410	46,0	0	DT	Yes	100MC5307
L16H-HD	390	310	314 x 183 x 410	52,2	0	DT	Yes	100MC5308
L16HH-HD	430	340	314 x 183 x 410	55,3	0	DT	Yes	100MC5309
Voltage: 8 V								
8VGC	165	140	262 x 179 x 275	29,0	1	S	No	100MC5310
8VGH	190	155	262 x 179 x 275	31,3	1	S	No	100MC5311
Voltage: 12 V								
M24DH	95	75	278 x 171 x 238	22,7	1	DT	No	100MC5312
M27D	105	85	321 x 171 x 238	23,6	1	DT	No	100MC5313
M27DH	115	95	321 x 171 x 238	23,6	1	DT	No	100MC5314
31H	130	105	330 x 171 x 238	30,4	1	DT	No	100MC5315
12VGCE	150	123	328 x 179 x 267	36,7	1	DT	No	100MC5316
12VGC	155	125	328 x 179 x 267	39,9	1	DT	No	100MC5317
SSW-HD	185	150	394 x 178 x 372	48,5	0	DT	Yes	100MC5318
SSWM-HD	195	160	394 x 178 x 372	49,9	0	DT	Yes	100MC5319
SSWH-HD	215	180	394 x 178 x 372	54,4	0	DT	Yes	100MC5320

For layout, fixation and terminal type you can go to page 176 for the drawings

VRLA-AGM DAS-SERIES





Valve-regulated lead-acid (VRLA) batteries for standby applications (floating use) such as UPS systems, emergency centres, telephone exchanges, medical applications, solar panels, navy navigation ...

- 5-year life design "floating use"
- VRLA: valve-regulated lead-acid
- SLA: sealed lead-acid
- AGM: absorbed glass mat

Type	Capacity (20 h) Ah	Capacity (5 h) Ah	Length (X) x width (Y) x height (H) mm	Weight kg	Layout	Terminal type	REF
Voltage: 6 V							
DAS6-1	1,0	0,8	51 x 42 x 56	0,23	1	T1	100MC5166
DAS6-1.3	1,3	1,0	97 x 24 x 7	0,30	1	T1	100MC5167
DAS6-3.2	3,2	2,7	134 x 35 x 66	0,73	1	T1	100MC5168
DAS6-4.5	4,0	3,4	70 x 47 x 106	0,63	1	T1	100MC5169
DAS6-7.2	7,0	5,9	150 x 34 x 100	1,05	1	T1	100MC5170
DAS6-10	10,0	8,5	150 x 50 x 100	1,45	1	T1	100MC5171
DAS6-12	12,0	10,2	150 x 50 x 100	1,70	1	T1	100MC5172
DAS6-14	14,0	11,9	108 x 71 x 140	2,26	4	T1	100MC5173
Voltage: 12 V							
DAS12-0.8	0,8	0,7	96 x 25 x 62	0,36	Cable and bullet connection		100MC5174
DAS12-1.3	1,2	1,1	97 x 43 x 58	0,60	4	T1	100MC5175
DAS12-2.2	2,3	1,2	177 x 34 x 66	0,90	1	T1	100MC5177
DAS12-2.9	2,9	2,5	79 x 55 x 105	1,10	1	T1	100MC5178
DAS12-3.3	3,2	2,7	134 x 67 x 67	1,40	0	T1	100MC5179
DAS12-4	4,0	4,0	90 x 70 x 107	1,58		T1	100MC5180
DAS12-5	5,0	4,2	90 x 70 x 107	1,44	3	T1	100MC5181
DAS12-7.5	7,0	6,0	151 x 65 x 101	2,00	3	T1	100MC5182
DAS12-9	9,0	7,7	151 x 65 x 101	2,48	3	T2	100MC5183
DAS12-12	12,0	10,2	150 x 98 x 99	3,27	3	T2	100MC5184
DAS12-14	14,0	11,9	150 x 98 x 99	4,18	3	T2	100MC5185
DAS12-18	18,0	15,3	180 x 76 x 167	5,00	0	M5	100MC5186
DAS12-26	25,0	21,3	165 x 175 x 125	7,40	0	M5	100MC5187
DAS12-44	42,0	36,0	197 x 165 x 170	13,50	0	M6	100MC5188
DAS12-70	65,0	55,0	349 x 167 x 179	23,60	0	M6	100MC5189
DAS12-100	100,0	85,0	305 x 168 x 210	28,50	1	M6	100MC5190

For layout, fixation and terminal type you can go to page 176 for the drawings

DOMESTIC CHARGER





- Input: 230 V ~ 50/60 Hz 115 W
- Output: 12 V
- 4–8 A
- 24–120 Ah
- 210 x 125 x 160 mm
- 3,5 kg

REF 100MC7310

CHARGER – TESTER





- Input: 230 V ~ 50/60 Hz 540 W
- Output: 12–24 V
- 10–20 A
- 92–250 Ah
- 290 x 170 x 240 mm
- 11,37 kg

REF 100MC7311

CHARGER – BOOSTER





- Input: 230 V ~ 50/60 Hz 800 W
- Output: 12–24 V
- 30 A
- 30–400 Ah
- 285 x 200 x 220 mm
- 9 kg

REF 100MC7312

RX-SERIES

BEST BUY

ENERGIC Plus



Single-phase

Three-phase

Ask for our FREE detailed CD-ROM manual: **REF 101MC1403**

Box S	Box A
	
250 x 200 x 320 mm	430 x 285 x 270 mm
Box B	**Box C**
	
500 x 340 x 360 mm	500 x 360 x 700 mm

1-year warranty on all charger parts!

We stock over 90% of charger spare parts

General information RX:

- Fully automatic, microprocessor-controlled battery charger
- Compact and simple construction
- LED control panel:
  - Battery connected – in charge
  - Final charge
  - Charge complete – equalisation
  - Emergency stop
  - Black-out of the mains
  - Ammeter 0–100%
- Automatic equalisation of the battery
- Automatic start on battery connection, with 3 delays to avoid arcing between the connectors. Automatic shutdown on battery disconnection during the charge
- Automatic saving of the charge parameters in case of black-out of the mains and automatic restart when the input is available
- Input voltages single-phase 220 VAC or three-phase 380 VAC. Other input voltages available on request
- Charge curve Wa (DIN 41774)
- 1-year warranty on all charger parts

RX-SERIES

Voltage	Current A	Capacity range vs time of charge Ah	Box	Weight kg	Input power kVA	Cable section mm²	REF
RX/single-phase/220 VAC							
24	20	100–120	S	13	0,7	10	100MC8234
24	25	125–150	S	14	0,85	10	100MC8235
24	30	150–180	S	17	1	10	100MC8236
24	40	200–240	A	19	1,3	10	100MC6981
24	50	250–300	A	22	1,7	16	100MC8237
24	60	300–360	A	24	2	16	100MC8238
24	80	360–500	B	40	2,8	25	100MC8239
48	60	300–360	B	43	4,2	16	100MC8240
48	80	360–500	B	48	5,6	25	100MC8241
48	100	500–599	B	47	7	25	100MC8242
48	120	600–749	B	51	8,4	35	100MC8243
RX/three-phase/380 VAC							
24	60	300–360	B	37	2,1	16	100MC8244
24	80	360–500	B	41	2,8	25	100MC8245
24	100	500–600	B	44	3,5	25	100MC8246
24	120	600–749	B	50	4,2	35	100MC8277
24	140	750–899	C	52	4,9	35	100MC8247
24	160	900–1024	C	56	5,6	50	100MC8248
24	180	1025–1149	C	58	6,3	50	100MC8249
24	200	1185–1299	C	65	7	50	100MC8250
36	60	300–360	B	41	3,1	16	100MC8251
36	80	360–500	B	45	4,2	25	100MC8252
36	100	500–600	B	48	5,2	25	100MC8253
36	120	600–749	B	50	6,2	35	100MC8254
36	140	750–899	C	55	7,3	35	100MC8255
36	160	900–1024	C	62	8,3	50	100MC8256
36	180	1025–1149	C	68	9,4	50	100MC8257
36	200	1185–1299	C	80	10,4	50	100MC8258
40	50	250–300	B	40	4,4	16	100MC8259
40	60	300–360	B	42	5,3	16	100MC8260
40	80	360–500	B	48	7	25	100MC8261
48	50	250–300	B	39	2,8	16	100MC8262
48	60	300–360Ah	B	43	4,2	16	100MC8263
48	80	360–500Ah	B	49	5,6	25	100MC6982
48	100	500–600	B	53	7	25	100MC8264
48	120	600–749	B	62	8,4	35	100MC8265
48	140	750–899	C	70	9,8	35	100MC8266
48	160	900–1024	C	79	11,2	50	100MC8267
48	180	1025–1149	C	86	12,6	50	100MC8268
48	200	1185–1299	C	94	14	50	100MC8269
72	60	300–360	B	53	6,3	16	100MC8270
72	80	360–500	B	55	8,3	25	100MC8271
72	100	500–599	C	71	10,5	25	100MC8272
72	120	600–749	C	83	12,5	35	100MC8273
80	60	300–360	B	55	6,9	16	100MC8274
80	80	360–500	B	65	9,2	25	100MC8275
80	100	500–599	C	80	11,5	25	100MC8276
80	120	600–749	C	87	13,8	35	100MC6983

THREE-PHASE TRACTION BATTERY CHARGERS: AR DIGITAL

ENERGIC Plus

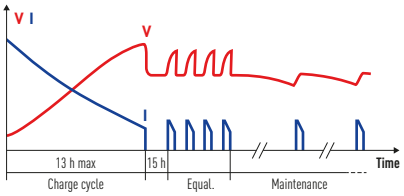


3-year warranty on all charger parts!

We stock over 90% of charger spare parts

Three-phase

Ask for our FREE detailed manuals:
REF 101MC1403



Box A	Box B	Box C
		
500 x 700 mm	500 x 900 x 440 mm	620 x 1050 x 550 mm

General information AR digital:

- Three-phase 230/400 VAC – 50/60 Hz input
- Single-phase 230 V available on request
- Fully automatic
- CE/UL-approved
- 5-year warranty on transformer, 3-year warranty on all charger parts
- 10–12 h charge system: Wa (DIN 41774)
- Microprocessor-controlled electronic card
- Derivative dV/dT charge control
- Digital display: V/cell, current, capacity charged, time of charge, error messages
- Increase in lifespan of battery
- Built-in maintenance system

Advantages:
Less chance of damage during transport – if the side becomes dented, the damage is reduced thanks to the spherical shape.

SPARES FOR ARD

ENERGIC Plus



Other spares available on request:
Please provide full charger details: type – voltage – mps – serial number

REF 100MC8284 – Control board for RD Wa
REF 100MC8449 – Control board for RD WoWa
REF 100MC8530 – Wall support bracket

THREE-PHASE TRACTION BATTERY CHARGERS: AR DIGITAL

Current	Input	Weight	Cable section	Box	Standard charger (8–12 h) charging curve Wa		Fast charger (8–10 h) charging curve WoWa		Fast charger air pump (8–10 h) charging curve WoWa	
					Capacity range	REF	Capacity range	REF	Capacity range	REF
A	kVA	kg	mm²		Ah		Ah		Ah	
Voltage: 24 V										
40	1,40	48	10	A	199–263	100MC8590	166–220	100MC8736	166–220	100MC8866
60	2,10	57	16	A	323–395	100MC8591	276–330	100MC8737	276–330	100MC8867
80	2,80	62	25	A	396–526	100MC8592	331–440	100MC8738	331–440	100MC8868
100	3,50	66	25	A	527–658	100MC8593	441–550	100MC8739	441–550	100MC8869
120	4,20	68	35	A	659–789	100MC8594	551–660	100MC8740	551–660	100MC8870
140	4,90	76	35	A	790–921	100MC8595	661–770	100MC8741	661–770	100MC8871
160	5,60	77	50	A	922–1052	100MC8596	771–880	100MC8742	771–880	100MC8872
180	6,30	82	50	A	1053–1184	100MC8597	881–990	100MC8743	881–990	100MC8873
200	7,00	88	50	A	1185–1315	100MC8598	991–1100	100MC8744	991–1100	100MC8874
Voltage: 36 V										
60	3,10	59	16	A	323–395	100MC8599	276–330	100MC8745	276–330	100MC8875
80	4,20	64	25	A	396–526	100MC8600	331–440	100MC8746	331–440	100MC8876
100	5,20	73	25	A	527–658	100MC8601	441–550	100MC8747	441–550	100MC8877
120	6,20	81	35	A	659–789	100MC8602	551–660	100MC8748	551–660	100MC8878
140	7,30	90	35	A	790–921	100MC8603	661–770	100MC8749	661–770	100MC8879
160	8,30	95	50	A	922–1052	100MC8604	771–880	100MC8750	771–880	100MC8880
180	9,40	104	50	A	1053–1184	100MC8605	881–990	100MC8751	881–990	100MC8881
200	10,40	110	50	A	1185–1315	100MC8606	991–1100	100MC8752	991–1100	100MC8882
Voltage: 40 V										
50	2,90	45	16	A	264–329	100MC8607	221–275	100MC8753	221–275	100MC8883
60	3,50	49	16	A	323–395	100MC8608	276–330	100MC8754	276–330	100MC8884
80	4,60	57	25	A	396–526	100MC8609	331–440	100MC8755	331–440	100MC8885
100	5,70	70	25	A	527–658	100MC8610	441–550	100MC8756	441–550	100MC8886
Voltage: 48 V										
40	2,80	56	10	A	199–263	100MC8611	166–220	100MC8757	166–220	100MC8887
50	3,50	60	16	A	264–329	100MC8612	221–275	100MC8758	221–275	100MC8888
60	4,20	66	16	A	323–395	100MC8613	276–330	100MC8759	276–330	100MC8889
80	5,60	75	25	A	396–526	100MC8614	331–440	100MC8760	331–440	100MC8890
100	7,00	82	25	A	527–658	100MC8615	441–550	100MC8761	441–550	100MC8891
120	8,40	89	35	A	659–789	100MC8616	551–660	100MC8762	551–660	100MC8892
140	9,80	99	35	A	790–921	100MC8617	661–770	100MC8763	661–770	100MC8893
160	11,20	113	50	A	922–1052	100MC8618	771–880	100MC8764	771–880	100MC8894
180	12,60	122	50	A	1053–1184	100MC8619	881–990	100MC8765	881–990	100MC8895
200	14,00	132	50	B	1185–1315	100MC8620	991–1100	100MC8766	991–1100	100MC8896
Voltage: 72 V										
60	6,30	80	16	A	323–395	100MC8621	276–330	100MC8767	276–330	100MC8897
80	8,30	88	25	A	396–526	100MC8622	331–440	100MC8768	331–440	100MC8898
100	10,50	94	25	A	527–658	100MC8623	441–550	100MC8769	441–550	100MC8899
120	12,50	113	35	A	659–789	100MC8624	551–660	100MC8770	551–660	100MC8900
140	14,60	122	35	A	790–921	100MC8625	661–770	100MC8771	661–770	100MC8901
160	16,60	131	50	A	922–1052	100MC8626	771–880	100MC8772	771–880	100MC8902

THREE-PHASE TRACTION BATTERY CHARGERS: AR DIGITAL

Current	Input	Weight	Cable section	Box	Standard charger (8–12 h) charging curve Wa		Fast charger (8–10 h) charging curve WoWa		Fast charger air pump (8–10 h) charging curve WoWa	
					Capacity range	REF	Capacity range	REF	Capacity range	REF
A	kVA	kg	mm²		Ah		Ah		Ah	
Voltage: 80 V										
40	4,60	66	10	A	199–263	100MC8627	166–220	100MC8773	166–220	100MC8903
60	6,90	81	16	A	323–395	100MC8628	276–330	100MC8774	276–330	100MC8904
80	9,20	93	25	A	396–526	100MC6985	331–440	100MC8775	331–440	100MC8905
100	11,50	105	25	A	527–658	100MC8629	441–550	100MC8776	441–550	100MC8906
120	13,80	117	35	A	659–789	100MC8630	551–660	100MC8777	551–660	100MC8907
140	16,10	124	35	A	790–921	100MC8631	661–770	100MC8778	661–770	100MC8908
160	18,40	129	50	B	922–1052	100MC8632	771–880	100MC8779	771–880	100MC8909
180	20,70	135	50	B	1053–1184	100MC8633	881–990	100MC8780	881–990	100MC8910
200	13,00	142	50	B	1185–1315	100MC8634	991–1100	100MC8781	991–1100	100MC8911
220	15,30	180	50	B	1316–1446	100MC8635	1101–1210	100MC8782	1101–1210	100MC8912
240	27,60	185	70	B	1447–1577	100MC8636	1211–1320	100MC8783	1211–1320	100MC8913
260	29,90	190	70	B	1578–1708	100MC8637	1321–1430	100MC8784	1321–1430	100MC8914
280	32,20	195	70	B	1709–1839	100MC8638	1431–1540	100MC8785	1431–1540	100MC8915
Voltage: 96 V										
60	8,40	90	16	A	323–395	100MC8639	276–330	100MC8786	276–330	100MC8916
80	11,20	100	25	A	396–526	100MC8640	331–440	100MC8787	331–440	100MC8917
100	14,00	118	25	A	527–658	100MC8641	441–550	100MC8788	441–550	100MC8918
120	16,80	123	35	B	659–789	100MC8642	551–660	100MC8789	551–660	100MC8919
140	19,60	135	35	B	790–921	100MC8643	661–770	100MC8790	661–770	100MC8920
160	22,40	148	50	B	922–1052	100MC8644	771–880	100MC8791	771–880	100MC8921
200	28,00	180	50	B	1185–1315	100MC8645	991–1100	100MC8792	991–1100	100MC8922
240	33,60	195	70	C	1447–1577	100MC8646	1211–1320	100MC8793	1211–1320	100MC8923
260	36,40	205	70	C	1578–1708	100MC8647	1321–1430	100MC8794	1321–1430	100MC8924
280	39,20	215	70	C	1709–1839	100MC8648	1431–1540	100MC8795	1431–1540	100MC8919
320	44,80	230	95	B	1840–2104	100MC8649	1541–1760	100MC8796	1541–1760	100MC8925

AR DIGITAL THREE-PHASE BATTERY CHARGER

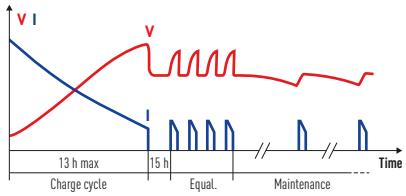


- Three-phase 230/400 VAC – 50/60 Hz input
- Single-phase 230 V available on request
- Fully automatic
- CE/UL-approved
- 3-year warranty on all charger parts
- 10–12 h charge system: Wa (DIN 41774)
- Microprocessor-controlled electronic card
- Derivative dV/dT charge control
- Digital display: V/cell, current, capacity charged, time of charge, error messages
- Increase in lifespan of battery
- Built-in maintenance system
- Box: 500 x 700 mm

Voltage	Current	Input	Weight	Cable section	Standard charger (10–12 h) charging curve Wa	REF
	A	kVA	kg	mm²	Capacity range Ah	
48	100	7	82	25	527–658	100MC6984

RE/SINGLE-PHASE





3-year warranty on all charger parts!

We stock over 90% of charger spare parts

Single-phase

Ask for our FREE detailed CD-rom manual: **REF 101MC1403**

Box S	Box A
	
250 x 200 x 320 mm	430 x 285 x 270 mm
Box B	**Box C**
	
500 x 340 x 360 mm	500 x 360 x 700 mm

General information RE:

- Single-phase 230 VAC – 50/60 Hz input (other versions available on request)
- Fully automatic
- CE/UL approved
- 10–12 h charge system: Wa (DIN 41774)
- Microprocessor-controlled electronic card
- Equalisation
- 5-year warranty on transformer, 3-year warranty on all charger parts

RE/SINGLE-PHASE

Current	Input	Weight	Cable section	Box	Standard charger (10–12 h) charging curve Wa		Fast charger (8 h) charging curve WoWa		Fast charger air pump (8 h) charging curve WoWa	
A	kVA	kg	mm²		Capacity range (Ah)	REF	Capacity range (Ah)	REF	Capacity range (Ah)	REF
Voltage: 12 V										
10	0,16	8	6	S	60–95	100MC8650	42–69	100MC8797		
15	0,25	8	6	S	96–110	100MC8651	70–83	100MC8798		
20	0,33	9	6	S	111–132	100MC8652	84–109	100MC8799		
25	0,40	11	10	S	133–165	100MC8653	110–137	100MC8800		
30	0,50	13	10	S	166–198	100MC8654	138–165	100MC8801		
40	0,65	14	10	S	199–263	100MC8655	166–220	100MC8802		
50	0,80	20	16	A	264–329	100MC8656	221–275	100MC8803		
60	1,00	21	16	A	323–395	100MC8657	276–330	100MC8804		
80	1,30	25	25	A	396–526	100MC8658	331–440	100MC8805		
Voltage: 24 V										
10	0,33	10	6	S	60–95	100MC8659	42–69	100MC8806		
15	0,50	11	6	S	96–110	100MC8660	70–83	100MC8807		
20	0,65	12	6	S	111–132	100MC8661	84–109	100MC8808		
25	0,80	15	10	S	133–165	100MC8662	110–137	100MC8809		
30	1,00	19	10	A	166–198	100MC8663	138–165	100MC8810		
40	1,30	21	10	A	199–263	100MC6986*	166–220	100MC8811		
50	1,60	24	16	A	264–329	100MC8664	221–275	100MC8812		
60	2,00	26	16	A	323–395	100MC8665	276–330	100MC8813		
80	2,60	38	25	B	396–526	100MC8666	331–440	100MC8814		
100	3,20	41	25	C	527–658	100MC8667	441–550	100MC8815	441–550	100MC8926
120	4,00	48	35	C	659–789	100MC8668	551–660	100MC8816	551–660	100MC8927
140	4,60	52	35	C	790–921	100MC8669	661–770	100MC8817	661–770	100MC8928
Voltage: 36 V										
30	1,50	23	10	A	166–198	100MC8670	138–165	100MC8818		
40	2,00	25	10	A	199–263	100MC8671	166–220	100MC8819		
50	2,40	30	16	A	264–329	100MC8672	221–275	100MC8820		
60	3,00	38	16	B	323–395	100MC8673	276–330	100MC8821		
80	4,00	40	25	B	396–526	100MC8674	331–440	100MC8822		
100	4,80	53	25	C	527–658	100MC8675	441–550	100MC8823	441–550	100MC8929
120	6,00	55	35	C	659–789	100MC8676	551–660	100MC8824	551–660	100MC8930
Voltage: 40 V										
50	2,88	34	16	B	264–329	100MC8677	221–275	100MC8825		
60	3,45	39	16	B	323–395	100MC8678	276–330	100MC8826		
80	4,60	59	25	C	396–526	100MC8679	331–440	100MC8827	331–440	100MC8931
100	5,75	67	25	C	527–658	100MC8680	441–550	100MC8828	441–550	100MC8932
Voltage: 48 V										
10	0,65	12	6	S	60–95	100MC8681	42–69	100MC8829		
15	1,00	20	6	A	96–110	100MC8682	70–83	100MC8830		
30	2,00	30	10	A	166–198	100MC8683	138–165	100MC8831		
40	2,60	35	10	B	199–263	100MC8684	166–220	100MC8832		
50	3,25	36	16	B	264–329	100MC8685	221–275	100MC8833*		
60	4,00	40	16	B	323–395	100MC8686	276–330	100MC8834		
80	5,20	53	25	C	396–526	100MC8687	331–440	100MC8835	331–440	100MC8933
100	6,50	57	25	C	527–658	100MC8688	441–550	100MC8836	441–550	100MC8934
120	8,00	62	35	C	659–789	100MC8689	551–660	100MC8837	551–660	100MC8935
Voltage: 72 V										
60	6,00	55	16	C	323–395	100MC8690	276–330	100MC8838	276–330	100MC8936
80	8,00	62	25	C	396–526	100MC8691	331–440	100MC8839	331–440	100MC8937
100	9,60	68	25	C	527–658	100MC8692	441–550	100MC8840	441–550	100MC8938
Voltage: 80 V										
40	4,60	46	10	C	199–263	100MC8693	166–220	100MC8841	166–220	100MC8939
60	6,90	55	16	C	323–395	100MC8694	221–330	100MC8695	221–330	100MC8940
80	9,20	67	25	C	396–526	100MC8695	331–440	100MC8842	331–440	100MC8941

* 3 years warranty

HF CHARGERS

Why choose a HF charger?

- **Maximum** energy saving
- **Longer** total battery life
- **Greater** total cycle life
- **Reduced** battery heating
- **Reduced** charging times
- **Reduced** water consumption
- **Reduced** labour and need for water
- **Optimised** charge curves
- **Thermal** compensation
- **Superior** safety and self-protection
- **Minimised** weight and size



18-month warranty on all charger parts!

HF battery chargers feature state-of-the-art HF technology:

- Coated printed circuit boards
- Metal case and self-extinguishing ABS
- Weight and size are minimised
- Adaptable to every use and very flexible
- All HF battery chargers are microprocessor-controlled and internally protected against overload, short circuit, incorrect battery connection and transient voltages
- Thanks to internal selector switches, the chargers can be adjusted to a wide range of battery capacities
- HF battery chargers operate at 85–90% efficiency, resulting in a maximum saving of electric power cost
- With the thermal sensor option, the charger's output electronically compensates the gasification voltage according to the battery temperature
- CE-certified (in conformity with EC directive 89/336/EEC regarding electromagnetic compatibility)

General information:

- Operating temperature: –20 °C to 50 °C
- Output short circuit protection
- Reverse polarity protection
- Audible alarm system
- Automatic thermal compensation
- 18-month warranty on all charger parts

HF CHARGERS

ENERGIC Plus



1



2



3



4

Fig	Charging times			Model	Type	I1	I MAX	Input voltage	Net input current	Voltage	REF
	7–8,5 h Ah	9–11 h Ah	12–13 h Ah			A	A	VAC	A		
1	80	100	125	UBC	12 18	12,5	15	230	3	24	**100MC5928***
2	145–215	240–290	310–335	NG1	24 35	30	36	230	7	24	**100MC5929***
3	240–360	400–480	520–560	NG3	48 60	50	60	230	22**	48	**100MC5930****
4	385–575	640–770	830–895	NG9	80 100	80	96	400	18	80	**100MC5931**

* Only lead acid and gel/AGM on demand
** Attention: current consumption ≥ 16 A

BATTERY REGENERATORS



When we speak about battery maintenance, diagnostics and regeneration, we find that this is somewhat of a complicated conversation for many people. If you want to analyse and maintain batteries properly and restore their capacity if necessary, then this consumes a lot of time and the answer is often: is this even possible? This takes up too much time and it is too labour-intensive? Don't we need specialised battery engineers for that ...? Does this even work?

Our answer is YES, the REPLUS technology is the most professional and easy-to-use piece of equipment available on today's market! Fast, accurate, efficient, practically effortless, provides fully detailed reports on the battery condition before and after + analysis of the battery down to cell level!

The Energic Plus battery regenerator is a proven technology we have sold in more than 75 countries and that is used by more than 1000 customers.

The **Energic Replus battery regenerator** ensures a quick regeneration and expands the lifespan of the batteries significantly.
This process is fully automatic and doesn't require any special attention since the entire process is temperature-controlled and fully monitored by software. After 30–40 hours, the regenerator will have finished the entire operation which consists of 2 complete charge and discharge cycles specifically designed to desulphate your battery completely.

Battery regeneration is very popular. 80% of the batteries that break down and lose their capacity are sulphated, but these can be restored with the right equipment. If your battery is maintained properly, it can easily continue for another 2–3 years.

With minimum maintenance costs and only the highest quality components used during the production, the regenerator is an investment that only brings benefits for your business.
You will be able to analyse your batteries like you have never done before, no stone will be left unturned ... If used in combination with our BMS technology, the Replus regenerator will analyse your battery down to cell level, after which the recovery mode will start completely automatic and it will completely desulphate your battery. Once it is finished you can print out the fully detailed report on the battery condition before and after. Don't wait any longer, stop wasting valuable money and get the best out of your batteries with Energic Plus®.

ENERGIC REPLUS BATTERY REGENERATORS

Expand the lifespan of your batteries: restore your sulphated batteries by means of the electrical high-frequency pulsation process of the battery regenerator.

Regenerate your sulphated batteries
Battery regeneration is very popular. **80% of the batteries breaking down and losing capacity are sulphated, but can be restored with the right equipment.** Our Energic Replus battery regenerator successfully replaces sulphation by active material thanks to an electrical high-frequency pulsation process. This process restores the battery capacity, giving you the ability to reuse old and sulphated batteries. You can also use the battery regenerator for annual maintenance to considerably prolong the lifespan of your batteries. The battery regenerator can be used in every lead-acid-based battery: starter batteries, stationary batteries, traction & semi-traction batteries, Ni-Cad batteries ...

What is sulphation?
During use, small sulphate crystals form, but these are normal and are not harmful. During prolonged charge deprivation however, the amorphous lead sulphate converts to a crystalline form that deposits on the negative plates. This leads to the development of large crystals, which reduce the battery's active material that is responsible for high capacity and low resistance. Sulphation also lowers the charge acceptance.

This lead sulphate increases internal resistance and decreases the specific gravity of the electrolyte. The process of sulphation build-up is unavoidable. Worse yet, after 3–4 years the process accelerates substantially. Batteries sulphate due to a mix of reasons:
- The battery was inactive for too long
- The battery was discharged too deeply
- The wrong charger was used
- A bad cell was left untreated
- The battery has reached too high/low temperatures
- The charge cycles weren't observed

Advantages of using the battery regenerator:
- Combination of battery discharger and battery charger, all combined into 1
- Detailed test reports
- Minimum maintenance cost
- Extended lifespan of batteries
- Quick regenerations
- Free analysing software
- Automation program applied
- 18-month warranty
- CE-certified, MET-certified (US market)
- Wireless connection between regenerator and computer
- Possibility to monitor the regenerator process on smartphone or laptop (within local network)



ENERGIC REPLUS BATTERY REGENERATORS

Regeneration reports

The Replus software allows you to create fully detailled reports in PDF, Word or Excel which give you an excellent ide on the condition of the battery prior and after the process. This is how you should interpret the below report: when you compare 1 & 4, you can see that the time needed to discharge the battery is much longer in step 4. This is a direct result of the restoration in mode 2 & 3. When comparing step 5 to step 2, you can see that the set battery voltage is reached much later than in step 2. This means that your battery lasts longer and has been restored to a good condition.

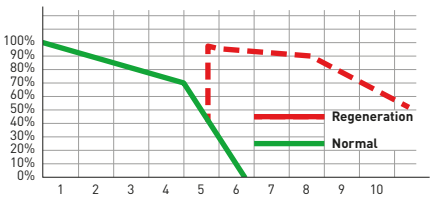
This curve shows a complete restoration:

1. Controlled discharge
2. Restoration
3. Restoration
4. Discharge
5. Restoration



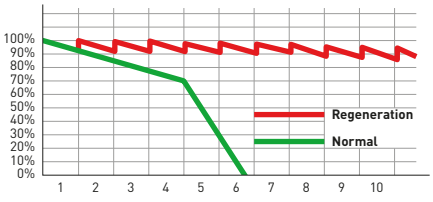
Index	Method	Pulse	Setup Time	Elapsed Time	Setup Volt	Max Volt	Min Volt	Setup Amp	AH	Temperature
1	Discharge	1	12:01:00	03:44:38	40.8	50.5	40.8	63.2	-236.4	+ 23
2	Restoration	1	08:01:00	08:01:00	62.4	61.7	44.1	63.2	506.1	+ 47
3	Restoration	2	08:01:00	08:01:00	62.4	60.3	54.5	31.6	128.3	+ 47
4	Discharge	1	12:01:00	08:08:18	40.8	54.9	40.8	63.2	-514.1	+ 42
5	Restoration	1	08:01:00	08:01:00	62.4	58.2	43.5	63.2	494.4	+ 48
				35:55:56						

2 ways to use the battery regenerator:



Reconditioning regeneration:

Reconditioning regeneration allows you to restore old (5, 6, 7 ... years), medium to well-maintained batteries that have 'silted up' as a result of natural sulphation, to a 90–100% productivity.



Maintenance regeneration:

Maintenance regeneration allows you to keep your battery in optimal, sulphate-free condition, by means of a yearly short regeneration.

OVERVIEW REPLUS MODELS



ENERGIC Plus

Specifications:
- Input power: AC 1P2W + PE 220 V – 50/60 Hz, 35 A max
- Output: DC 1,2–100 V, 0–30 A charging/discharging*
- Battery capacity: 300 Ah (c10)
- Transformer: 7,5 kW
- Certification: CE/UL

REF 100MC8278



ENERGIC Plus

Specifications:
- Input power: AC 3P3W + PE 380/400 V – 50/60 Hz, 20 A max
- Output: DC 1,2–120 V, 0–50 A
- Battery capacity: 500 Ah (c10)
- Transformer: 10 kW
- Certification: CE

REF 100MC8279



ENERGIC Plus

Specifications:
- Input power: AC 3P3W + PE 380/400 V – 50/60 Hz, 35 A max
- Output: DC 1,2–125 V, 0–100 A charging/discharging*
- Battery capacity: 1000 Ah (c10)
- Transformer: 20 kW
- Certification: CE/UL

REF 100MC8280



ENERGIC Plus

Specifications:
- Input power: AC 3P3W + PE 380/400 V – 50/60 Hz, 125 A max
- Output: DC 1,2–75 V, 0–350 A charging/discharging*
- Battery capacity: 3500 Ah
- Transformer: 70 kW
- Certification: CE

REF 100MC8281

* (Discharge capacity can be increased to 200 A if you connect D1007H in sync)

NEW AND UNIQUE FLOAT VALVES SUITABLE FOR ALL BATTERIES





Universal battery filling system with minimal parts

In addition to being easy-to-install, this universal battery filling system with minimal parts offers a host of additional benefits:

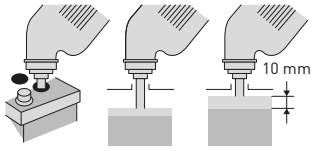
- Easily accessible hydrometer access ports
- Maximum visibility of the level float
- A water trap
- A low profile
- Compatible with common industry standards for fill heights and tube widths

The float kits include floats, tubing, input couplings and filter assemblies, cable ties and instructions for installation and operating.

Description	Technical information	REF
Float kit 12 V	Float valve kit for 6-cell DIN battery	100MC5321
Float kit 18 V	Float valve kit for 9-cell DIN battery	100MC5322
Float kit 24 V	Float valve kit for 12-cell DIN battery	100MC5323
Float kit 36 V	Float valve kit for 18-cell DIN battery	100MC5324
Float kit 40 V	Float valve kit for 20-cell DIN battery	100MC5325
Float kit 48 V	Float valve kit for 24-cell DIN battery	100MC5326
Float kit 72 V	Float valve kit for 36-cell DIN battery	100MC5327
Float kit 80 V	Float valve kit for 40-cell DIN battery	100MC5328
Float kit 96 V	Float valve kit for 48-cell DIN battery	100MC5329

WATER TOPPING-UP BOTTLES





- Specially for battery filling
- Automatic stop

REF 100MC9460 – 1 l
REF 100MC9459 – 2 l

WATER TANK 20 L



REF 101MC1418

WATER TANK 60 L



REF 101MC1419

BATTERY ACID TESTER



- Chemical-resistant hydrometer of professional quality
- Direct-reading and accurate at all electrolyte temperatures
- Readings independent of vertical positioning of instrument
- Fast, bubble-free intake of fluid sample
- Automatic airlock prevents fluid loss and formation of bubbles
- Sturdy, shock-resistant materials, non-corrosive throughout

Benefits:

- Handy compact size for use with hard-to-reach batteries
- Large, easy-to-read scale with quick-check coloured sectors
- Unexcelled temperature compensation and measuring accuracy

REF 100MC5331

TESTER FOR STARTER BATTERIES



Battery tester 6–12 V 100 A 1000 CCA

REF 100MC5332

BATTERY TESTER AND ANALYSER



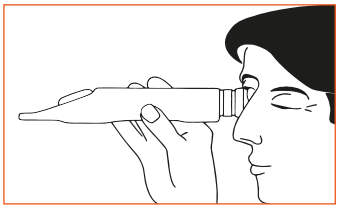
- 12 V car and motorcycle batteries
- Fully graphical interface on LCD display
- Integrated printer

REF 100MC8282 – With printer function
REF 100MC5333 – Version without printer

HANDHELD REFRACTOMETER FOR ANTIFREEZE AND BATTERY FLUID

LIFE WARRANTY





- Instantaneous measurement of the battery density or the freezing point of the coolant
- Automatic compensation of the measurement depending on the temperature
- Measurement range:
  - Battery acid: 1,1–1,3 kg/l
  - Propylene & ethylene coolant: –85 °C to –50 °C
  - Windscreen fluid: –25 °C to –40 °C
  - Ad blue: 30–45% urea

REF 100MC9457 – Optical refractometer (Beta)
REF 100MC9458 – Optical refractometer

Top quality

MAGNETIC SUPPORT FOR BATTERY CABLE



Keeping cables well-organised can be a difficult task. The magnetic cable support can solve this through a precise positioning of the cables, and by keeping them off the ground, thus protecting them against damage. Good cable management results in an orderly battery room.

Features:
- Holds battery cables in place
- Prevents damage to cables and connectors through a good organization
- Allows precise positioning of cable and connector

- 45 kg/100 lb magnet
- Used for 2 standard battery cables
- Supports up to 10" (3 m) of 2/0 charger leads

REF 100MC8446

HEAT-SHRINK PVC BATTERY CABLE PROTECTOR



1



2

Features:
- Battery cable protector with heat-shrink technique
- Shrinks on heating causing a tight closure
- Protects forklift battery cables and connectors against short circuits and friction wear

How to use:
- Cut the heat-shrink to the desired size
- Mount the heat-shrink over both cable and connector
- Use heat gun to melt the heat-shrink
- While still warm, place back into the connector so that it takes the correct shape

1. **REF 101MC3482** – Shrink ratio 12"
2. **REF 101MC3483** – Shrink ratio 18"

DISTILLED WATER STATION





HydroPure

The HydroPure is a low-cost deioniser system that allows you to make pure water straight from the tap!
This deioniser reduces the high price of buying bottled water and it's more convenient as well. Each disposable cartridge purifies about 2400 l of water and the purity light will tell you exactly when the cartridge is used up.

Features:
Professional quality deionisers: not just a filter, which only removes particles, but a real ion-exchange medium which electrostatically removes dissolved impurities. Purity is comparable with distilled water and ideal for batteries.

Large capacity: the cartridge is rated for 2400 l of pure water.

Purity light: this "magic eye" monitors the conductivity of the output water continuously and signals when it is time to change the cartridge.

Pressurised system, easy installation, easy cartridge replacement.

Flow rates:
- Maximum intermittent flow: 8 l/min
- Maximum continuous flow: 2 l/min

Indication:
- Purity light indication water OK: steady green flash
- Purity light indication water BAD: double red flash
- Purity light OK max threshold: 50 ppm

HydroPure 300: complete deioniser system supplied with DC battery-powered purity light and 1 replaceable cartridge

1. **Output:**
   - Maximum output (input purity 50 ppm): 5760 l
   - Typical output (input purity 120 ppm): 2400 l
   - Poor water output (input purity 250 ppm): 1150 l
   - Maximum input pressure: 80 psi
   - Cartridge resin volume: 4,5 l

REF 100MC8286

2. **Output**:
   - Maximum output (input purity 50 ppm): 11 520 l
   - Typical output (input purity 4800 ppm): 2400 l
   - Poor water output (input purity 2300 ppm): 1150 l
   - Maximum input pressure: 80 psi
   - Cartridge resin volume: 4,5 l

REF 100MC8285

Recommended optional items:



Replacement deioniser cartridge for 300/400

REF 101MC1415



Connector

REF 101MC1416



Water filling pistol

REF 100MC5334

DEIONISED WATER





REF 100MC9461 – 5 l
REF 100MC9462 – 25 l

WATER FILLING PISTOL



- Integrated flow indicator
- Pressure regulator incorporated in nozzle
- 45° bend nozzle
- Secure level control
- 6,4 l per minute
- With flow diffuser

REF 100MC5334

BATTERY BRUSH (TO BE FITTED TO A DRILL)



- Diameter: 51 mm
- For standard 18 mm battery terminals

REF 100MC5335

BATTERY BRUSH CLEANING SET



REF 100MC5338

MANUAL POLE AND TERMINAL REAMER



REF 100MC5337

BATTERY TERMINAL CLEANER



REF 100MC9463

BATTERY DRILL BIT (TO BE FITTED TO A DRILL)



Diameter: 19 mm

REF 100MC5336

BATTERY TERMINAL PULLER



The one-hand automatics allow for safe work, even in tight spaces.
The thin pulling hooks are suitable for narrow, difficult to access locations.

- Max width: 60 mm
- Max height: 40 mm
- Weight: 225 g

REF 100MC9467

BATTERY TERMINAL SPREADER & CLEANER



- Sharp milled teeth for effective cleaning
- Die-cast construction with vinyl grips
- OAL: 7" (178 mm)

REF 100MC9468

BATTERY STATION CLEANING KIT – ACID EATER



- Kit contains everything needed to clean forklift batteries
- Neutralises and cleans batteries, stands, rollers, forklifts, battery compartments and concrete floors
- Eliminates trickle discharge to ensure optimum performance
- Minimises safety risks by eliminating acid burns and shock
- pH color indicators alert users of acidic corrosion
- Easy to apply and safe to use on metal, plastic and rubber
- Durable kit can withstand any environment

REF 100MC9470 – Complete kit

Accessories:

REF 100MC9492 – Acid eater neutraliser and degreaser
REF 100MC9493 – Acid-resistant PVC apron
REF 100MC9494 – Hazmat boot covers
REF 100MC9495 – Acid-resistant goggles
REF 100MC9496 – Acid-resistant gloves
REF 100MC9497 – Utility brush

BATTERY SAFETY KITS



Contents:
- 1 pair of safety goggles
- 1 hydrometer
- 1 pair of standard safety gloves

REF 100MC9469



Contents:
1. Acid sleeves
2. First-aid box
3. Safety glasses
4. Gloves
5. Acid-resistant apron

REF 100MC9471

SPILL KIT FOR CHEMICALS



Technical characteristics:
- Capacity: 75 l
- Security suitcase: robust collection box with lid, wheels and handle

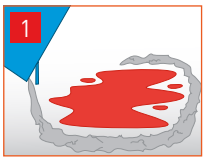
Contents:
- 50 absorption cloths double thickness 40 x 50 cm
- 2 absorbing socks 8 cm x 1,2 m
- 1 absorbing cushion 40 x 40 cm
- 10 cleaning cloths
- 1 pair of gloves
- 1 pair of safety goggles
- 3 recycling bags 50 l

REF 100MC9472

NEUTRAL PLUS+

ENERGIC Plus





Surround spill with Neutral Plus powder



Sweep powder into the spill



Dispose of powder, repeat as needed

- Content: 2,3 kg
- Advanced spill-absorbing powder with acid neutraliser

For:
- Industrial battery acid spills
- Hydraulic and motor oils
- Solvents and paints

Precautions:
Do not use on hydrofluoric acid

REF 100MC5341

BATTERY PAINT FOR BOX





- Black battery paint
- Resistant rubber paint

REF 100MC9465 – 0,5 l
REF 100MC9466 – 5 l

BATTERY PROTECTION SPRAY

TOTAL SOURCE



- With acid indicator
- Eliminates and prevents corrosion
- Turns pink in the presence of acid
- Content: 400 ml

REF 100MC5340

WATER PROTECTOR



- Protection from ingressing moisture
- Slight lubricating effect
- Good protection of electronical components

REF 100MC9464 – 1 l

ANTI-CORROSION BATTERY GREASE



- Tube of anti-corrosive grease for battery terminals
- Content: 20 ml

REF 100MC5339

ANTI-CORROSION GEL



Content: 236 ml

REF 101MC1417

CLEAR RTV SILICONE

LOCTITE



- Crystal clear silicone adhesive and sealant to waterproof lights and electronic housings
- Cures at room temprature
- Forms a tough rubber scal
- Cannot be painted
- Formulated to withstand extreme temperature cycling UV light and ozon
- Content: 100 ml

REF 100MC9473

SILICONE GREASE

LOCTITE



- Silicone grease for waterproofing and insulating plugs, battery clamps and sockets
- Suitable for incidental food contact
- NSF H1
- NLGI 2–3
- Content: 75 g

REF 100MC9474

UNIVERSAL TRAILER PLUGS AND SOCKETS

Universal trailer plugs				
	5P 12 V DIN 72576 ISO 1724 N-type	7P 12 V DIN 72577 ISO 1724 N-type	7P 24 V DIN 72579 ISO 1185 N-type	7P 24 V ISO 3731 S-type
Synthetic	 REF 100MC5374	 REF 100MC5375	 REF 100MC5376	 REF 100MC5377
Metal	 REF 100MC5378	 REF 100MC5379	 REF 100MC5380	 REF 100MC5381

Universal trailer sockets						
	5P 12 V DIN 72576 ISO 1724 N-type	7P 12 V DIN 72577 ISO 1724 N-type	7P 12 V DIN 72577 ISO 1724 N-type with rear fog light, cut-off	7P 12 V ISO 1724 Coupling socket	7P 24 V DIN 72579 ISO 1185 N-type	7P 24 V ISO 3731 S-type
Synthetic	 REF 100MC5382	 REF 100MC5383	 REF 100MC5384	 REF 100MC5385	 REF 100MC5386	 REF 100MC5387
Metal	 REF 100MC5388	 REF 100MC5389	 REF 100MC5390		 REF 100MC5391	 REF 100MC5392

BOLT-ON BATTERY TERMINALS WITH CRIMP CONNECTION



Type	Terminal mm²	REF
Positive	16	100MC5394
	25	100MC5395
	35	100MC5396
	50	100MC5397
	70	100MC5398
Negative	16	100MC5399
	25	100MC5400
	35	100MC5401
	50	100MC5402
	70	100MC5403

BOLT-ON BATTERY TERMINALS WITH CLAMP CONNECTION



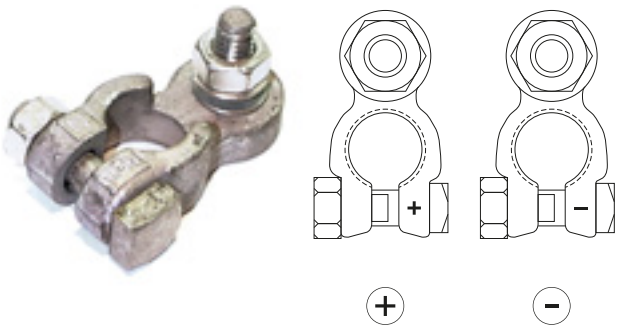
Type	Terminal mm²	REF
Positive	16–35	100MC5404
	50–70	100MC5405
Negative	16–35	100MC5406
	50–70	100MC5407

BOLT-ON BATTERY TERMINALS WITH CLAMP CONNECTION



Type	Terminal mm²	REF
Positive	16–35	100MC5408
	50–70	100MC5409
Negative	16–35	100MC5410
	50–70	100MC5411

BOLT-ON BATTERY TERMINALS



Type	Screw	Inner diameter mm	REF Per piece
Positive	M8	17,5	100MC5412
	M10	17,5	100MC5413
Negative	M8	15,9	100MC5414
	M10	15,9	100MC5415

BOLT-ON BATTERY TERMINALS





Type	Screw	Inner diameter mm	REF Per piece
Positive	M8	17,5	100MC5416
	M10	17,5	100MC5417
Negative	M8	15,9	100MC5418
	M10	15,9	100MC5419

BOLT-ON BATTERY TERMINALS





Type	Section mm²	REF Per piece
Positive	35	100MC5420
Negative	35	100MC5421
Positive	50	100MC5422
Negative	50	100MC5423

BOLT-ON BATTERY TERMINALS





Type	Screw	Color	REF Per piece
Positive	M8	Red	100MC5424
Negative	M8	Green	100MC5425

SCREW-ON BATTERY POLES





Sold per pair of + and – pole

Screw	REF
M6 (inner)	100MC5426
M8 (inner)	100MC5427
3/8" (inner)	100MC5428
M6 (outer)	100MC5429
M8 (outer)	100MC5430

FLEXIBLE BATTERY CONNECTORS



Cross section mm²	Length mm	REF
25	75	100MC5431
	95	100MC5432
	110	100MC5433
	130	100MC5434
	150	100MC5435
	170	100MC5436
	190	100MC5437
	210	100MC5438
	300	100MC5439
35	75	100MC5440
	95	100MC5441
	110	100MC5442
	130	100MC5443
	150	100MC5444
	170	100MC5445
	190	100MC5446

Cross section mm²	Length mm	REF
35	210	100MC5447
	230	100MC5448
	250	100MC5449
	300	100MC5450
50	75	100MC5451
	85	100MC5452
	95	100MC5453
	110	100MC5454
	130	100MC5455
	150	100MC5456
	170	100MC5457
	190	100MC5458
	210	100MC5459
	230	100MC5460
	250	100MC5461
	300	100MC5462

Cross section mm²	Length mm	REF
70	95	100MC5463
	110	100MC5464
	130	100MC5465
	150	100MC5466
	170	100MC5467
	190	100MC5468
	210	100MC5469
	250	100MC5470
	300	100MC5471
95	110	100MC5472
	130	100MC5473
	150	100MC5474
	170	100MC5475
	190	100MC5476
	210	100MC5477
	300	100MC5478

Other lengths on request

SCREWS AND CAPS FOR FLEXIBLE BATTERY CONNECTORS



Dimensions	Testing point	REF
M10 x 18	Yes	100MC5480
M10 x 18	No	100MC8287
M10 x 22	Yes	100MC8289
M10 x 22	No	100MC8288
M10 x 25	Yes	100MC8290
M10 x 22 with aux contact	Yes	100MC8291

PERFECT FLEXIBLE BATTERY CONNECTORS



Cross section mm²	Length (L) mm	Pieces	REF
25	80	216	100MC5482
	95	192	100MC5483
	110	168	100MC5484
	130	156	100MC5485
	150	144	100MC5486
	200	120	100MC5487
	250	84	100MC5488
	300	48	100MC5489
35	80	216	100MC5490
	95	192	100MC5491
	110	168	100MC5492
	130	156	100MC5493
	150	144	100MC5494
	170	120	100MC5495
35	200	120	100MC5496
	250	48	100MC5497
	300	48	100MC5498
50	95	180	100MC5499
	110	144	100MC5500
	130	144	100MC5501

Cross section mm²	Length (L) mm	Pieces	REF
50	150	144	100MC5502
	200	120	100MC5503
	250	120	100MC5504
	300	60	100MC5505
70	95	180	100MC5506
	110	144	100MC5507
	130	144	100MC5508
	150	144	100MC5509
70	170	120	100MC5510
	200	108	100MC5511
	250	84	100MC5512
	300	60	100MC5513
95	95	180	100MC5514
	110	144	100MC5515
	130	120	100MC5516
	150	120	100MC5517
	170	120	100MC5518
	190	100	100MC5519
	210	90	100MC5520
	300	60	100MC5521

SCREWS AND CAPS FOR FLEXIBLE BATTERY CONNECTORS



1



2

Fig	Dimensions	Testing point	REF
1	M10 x 20	Yes	100MC5522
2	Black cap	Yes	100MC5523
	Black cap	No	100MC5524

FLEX-END TAKE-OFFS



Cross section mm²	Length mm	Pieces	REF
25	300	100	100MC5603
	500	70	100MC5604
	1000	40	100MC5605
	1200	40	100MC5606
	1500	30	100MC5607
	2200	20	100MC5608
35	300	100	100MC5609
	500	70	100MC5610
	1000	40	100MC5611
	1200	40	100MC5612
	1500	30	100MC5613
	1600	20	100MC5614
	2000	20	100MC5615
	2500	16	100MC5616
	3000	16	100MC5617
	3500	10	100MC5618
50	300	100	100MC5619
	500	50	100MC5620
	1000	30	100MC5621
	1100	26	100MC5622
	1200	26	100MC5623
	1500	26	100MC5624
	1600	26	100MC5625
	2000	16	100MC5626

Cross section mm²	Length mm	Pieces	REF
50	2500	10	100MC5627
	3000	6	100MC5628
	3200	6	100MC5629
	4000	6	100MC5630
	5000	6	100MC5631
70	300	80	100MC5632
	500	50	100MC5633
	1000	20	100MC5634
70	1200	16	100MC5635
	1500	16	100MC5636
	2000	10	100MC5637
	2500	8	100MC5638
	3000	6	100MC5639
	4000	6	100MC5640
	5000	6	100MC5641
	7000	2	100MC5642
95	1000	15	100MC5643
	1200	15	100MC5644
	1500	10	100MC5645
	1600	10	100MC5646
	2000	6	100MC5647
	2500	6	100MC5648
	3000	6	100MC5649

PERFECT END TAKE-OFFS



Cross section mm²	Length mm	Pieces	REF
25	700	45	100MC5525
	800	50	100MC5526
	900	45	100MC5527
	1000	40	100MC5528
	1200	40	100MC5529
	1400	30	100MC5530
	1500	30	100MC5531
	1800	30	100MC5532
	2200	15	100MC5533
	3000	10	100MC5534
35	650	45	100MC5535
	800	50	100MC5536
	850	45	100MC5537
	1000	40	100MC5538
	1250	40	100MC5539
35	1400	30	100MC5540
	1500	30	100MC5541
	1800	30	100MC5542
	2200	15	100MC5543
	3000	10	100MC5544
50	600	25	100MC5545
	800	25	100MC5546

Cross section mm²	Length mm	Pieces	REF
50	1000	25	100MC5547
	1400	20	100MC5548
	1500	20	100MC5549
	1800	15	100MC5550
	2000	15	100MC5551
	2200	10	100MC5552
	2600	10	100MC5553
	3000	5	100MC5554
70	600	25	100MC5555
	800	25	100MC5556
	1000	25	100MC5557
	1400	20	100MC5558
	1500	20	100MC5559
	1800	15	100MC5560
	2200	10	100MC5561
	3000	5	100MC5562
95	1000	20	100MC5563
	1200	20	100MC5564
	1500	15	100MC5565
	2000	10	100MC5566
	2500	5	100MC5567
	3000	5	100MC5568

RIGID CONNECTORS



Cross section mm²	Length mm	Width mm	Thickness mm	REF
90	60	30	3	100MC5569
	80	30	3	100MC5570
	82	30	3	100MC5571
	85	30	3	100MC5572
	92	30	3	100MC5573
	115	30	3	100MC5574
	123	30	3	100MC5575
	125	30	3	100MC5576
	135	30	3	100MC5577
	143	30	3	100MC5578
	155	30	3	100MC5579
	163	30	3	100MC5580
	175	30	3	100MC5581
	178	30	3	100MC5582

Cross section mm²	Length mm	Width mm	Thickness mm	REF
150	115	30	5	100MC5583
	125	30	5	100MC5584
	132	30	5	100MC5585
	135	30	5	100MC5586
	155	30	5	100MC5587
	163	30	5	100MC5588
	175	30	5	100MC5589
	195	30	5	100MC5590
300	115	30	10	100MC5591
	125	30	10	100MC5592
	132	30	10	100MC5593
	135	30	10	100MC5594
	155	30	10	100MC5595

SET OF HEAVY-DUTY CABLE LUGS

BEST BUY





REF 100MC5342

Section mm²	Ø mm	Quantity
10	6	10
	8	10
	10	10
	12	10
16	6	10
	8	10
	10	10
	12	10

Section mm²	Ø mm	Quantity
25	6	10
	8	10
	10	10
	12	10
35	6	10
	8	10
	10	10
	12	10
	14	10

Section mm²	Ø mm	Quantity
50	6	10
	8	10
	10	10
	12	10
	14	10
70	8	10
	10	10
	14	10
95	10	10

BOX OF CABLE LUGS – DEUTSCH DT-SERIES



REF 100MC5373 – Complete box

Description	Contents	Pieces	REF
Connector	male 2-pole	5	100MC5343
	male 3-pole	5	100MC5345
	male 4-pole	5	100MC5346
	male 6-pole	5	100MC5347
	male 8-pole	2	100MC5350
	male 12-pole	2	100MC5353
	female 2-pole	5	100MC8283
	female 3-pole	5	100MC5344
	female 4-pole	5	100MC5348
	female 6-pole	5	100MC5349
	female 8-pole	2	100MC5351
	female 12-pole	2	100MC5352
Connector lock	male 2-pole	5	100MC5355
	male 3-pole	5	100MC5356
	male 4-pole	5	100MC5357
	male 6-pole	5	100MC5365

Description	Contents	Pieces	REF
Connector lock	male 8-pole	2	100MC5354
	male 12-pole	2	100MC5358
	female 2-pole	5	100MC5359
	female 3-pole	5	100MC5360
	female 4-pole	5	100MC5361
	female 6-pole	5	100MC5362
	female 8-pole	2	100MC5363
	female 12-pole	2	100MC5364
Kit cavity plug		1	100MC5366
Pin connector	male 0,75–1,5 mm²	50	100MC5367
	male 1,5–2,5 mm²	50	100MC5368
Socket	female 0,8–1,3 mm²	50	100MC5369
Connector	female 1,5–2,5 mm²	50	100MC5370
Extraction tool		1	100MC5371
		1	100MC5372

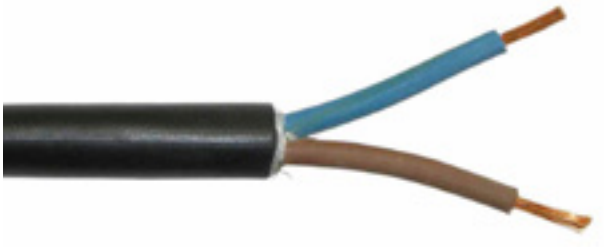
CRIMPING TOOL



- For wire sizes 0,75–2,5 mm²
- Size: 12/16/20

Description	Pieces	REF
Crimptool	1	100MC8292

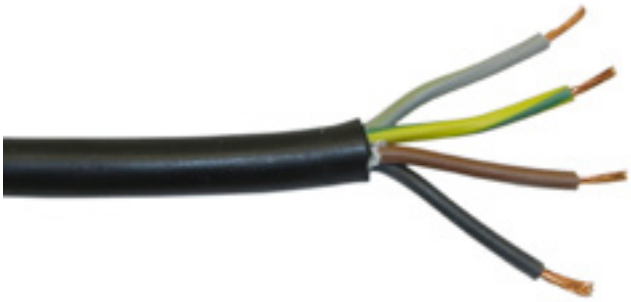
RUBBER-INSULATED MULTI-POLE ROUND CABLES



- Type: H05RR-F
- "G" indicates with Ground (green/yellow) cable

Number of cores x section mm²	REF Per metre
2 x 0,75	100MC5650
3G x 0,75	100MC5651
4G x 0,75	100MC5652

RUBBER-INSULATED MULTI-POLE ROUND CABLES



- Type: H07RN-F
- "G" indicates with Ground (green/yellow) cable

Number of cores x section mm²	REF Per metre
2 x 1,5	100MC5653
2 x 2,5	100MC5654
2 x 6	100MC5655
3G x 1,5	100MC5656
3G x 2,5	100MC5657
3G x 10	100MC5658
4G x 1,5	100MC5659
4G x 2,5	100MC5660
4G x 6	100MC5661
4G x 10	100MC5662
4G x 16	100MC5663
5G x 1,5	100MC5664
5G x 2,5	100MC5665
5G x 4	100MC5666
5G x 6	100MC5667
7G x 1,5	100MC5668
7G x 2,5	100MC5669

PVC-INSULATED SINGLE-CORE CABLES



Sold per 100 m box

Section mm²	Colour	REF Box (100 m)
Type: H05VK		
0,5	Grey	100MC5680
	Green/yellow	100MC5681
	Red	100MC5682
	Green	100MC5683
	White	100MC5684
	Yellow	100MC5685
	Blue	100MC5686
	Orange	100MC5687
	Brown	100MC5688
	Violet	100MC5689
	Black	100MC5690
0,75	Blue	100MC5691
	Brown	100MC5692
	Yellow	100MC5693
	Green/yellow	100MC5694
	Grey	100MC5695
	Green	100MC5696
	Orange	100MC5697
	Red	100MC5698
	Violet	100MC5699
	White	100MC5700
	Black	100MC5701
1	Black	100MC5702
	Brown	100MC5703

Section mm²	Colour	REF Box (100 m)
1	Green/yellow	100MC5704
	Grey	100MC5705
	Blue	100MC5706
	Brown	100MC5707
	Green	100MC5708
	Red	100MC5709
	Pink	100MC5710
	Violet	100MC5711
	White	100MC5712
	Yellow	100MC5713
	Black	100MC5714
1,5	Blue	100MC5715
	Brown	100MC5716
	Yellow	100MC5717
	Green/yellow	100MC5718
	Grey	100MC5719
	Green	100MC5720
	Orange	100MC5721
	Violet	100MC5722
	Red	100MC5723
	White	100MC5724
	Black	100MC5725
Type: H07VK		
2,5	Blue	100MC5726
	Orange	100MC5727

Section mm²	Colour	REF Box (100 m)
2,5	Brown	100MC5728
	Green/yellow	100MC5729
	Yellow	100MC5730
	Grey	100MC5731
	Green	100MC5732
	Red	100MC5733
	Violet	100MC5734
	White	100MC5735
	Black	100MC5736
4	Brown	100MC5737
	Grey	100MC5738
	Red	100MC5739
	White	100MC5740
	Black	100MC5741
6	Blue	100MC5742
	Brown	100MC5743
	Grey	100MC5744
	Blue	101MC3658
	Brown	101MC3659
	Grey	101MC3660
	Red	100MC5745
	Red	101MC3661
	Black	101MC3662
	Black	100MC5746

BATTERY CABLES



- Rated voltage Uo/U 100/100 V
- Tested in conformity with DIN VDE0472
- Flexible

Special quantity discounts

BEST BUY

Section	REF/metre	
mm²	Black	Red
10	100MC5747	100MC5760
16	100MC5748	100MC5761
25	100MC5749	100MC5762
35	100MC5750	100MC5763
50	100MC5751	100MC5764
70	100MC5752	100MC5765
95	100MC5753	100MC5766

Section	REF/25 metres	
mm²	Black	Red
10	100MC5754	100MC5767
16	100MC5755	100MC5768
25	100MC5756	100MC5769
35	100MC5757	100MC5770
50	100MC5758	100MC5771
70	100MC5759	100MC5772

Number of cores cross-sectional	Overall diameter	
	min	max
mm²	mm	mm
10	7,7	9,7
16	8,8	11,0
25	10,1	12,7
35	11,4	14,2
50	13,2	16,5
70	15,3	19,2
95	17,1	21,4

Nominal cross section	Charging current in Amp for the following duty cycles			
mm²	100%	85%	60%	30%
16	135	145	175	245
25	180	195	230	330
35	225	245	290	410
50	285	310	370	520
70	355	385	460	650
95	430	470	560	790

BATTERY CABLES



Section	REF/metre		REF/25 metres	
mm²	Black	Red	Black	Red
10	100MC5773	100MC5787		100MC5779
16	100MC5782	100MC5788	100MC5774	100MC5780
25	100MC5783	100MC5789	100MC5775	100MC5781
35	100MC5784	100MC5790	100MC5776	
70	100MC5785	100MC5791	100MC5777	100MC5799
95	100MC5786	100MC5792	100MC5778	100MC5800

Extra flexible

TWINFLEX CABLE RED AND BLACK



Flexible twin cable

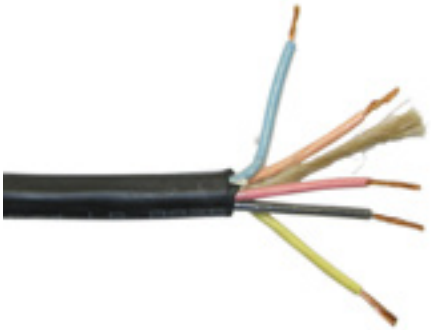
Width	REF	
mm²	Per metre	Per 25 metres
2 x 6	100MC5793	100MC5801
2 x 10	100MC5794	100MC5802
2 x 16	100MC5795	100MC5803
2 x 25	100MC5796	100MC5804
2 x 35	100MC5797	100MC5805
2 x 50	100MC5798	100MC5806

MULTI-POLE CABLE – USED FOR CROWN



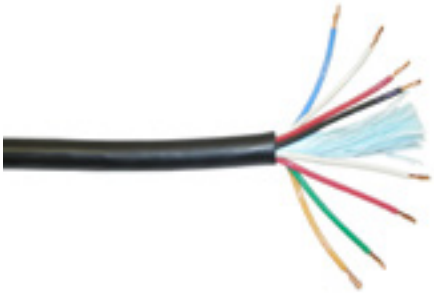
3 cores

REF 100MC6987 – Per foot
REF 100MC6988 – Per reel of 250 feet
REF 100MC6989 – Per reel of 500 feet



5 cores

REF 100MC6990 – Per foot
REF 100MC6991 – Per reel of 250 feet
REF 100MC6992 – Per reel of 500 feet



8 cores

REF 100MC6993 – Per foot
REF 100MC6994 – Per reel of 250 feet
REF 100MC6995 – Per reel of 500 feet

OIL-RESISTANT/HIGH-TEMPERATURE CABLES



Type	Section mm²	Colour	REF Per metre
PTFE	0,5	Orange	100MC5807
		Black	100MC5808
		Yellow	100MC5809
		Blue	100MC5810
		Brown	100MC5811
		Red	100MC5812

Send us your request for more combinations of cores/section cables

1 foot: 0,305 m

INSTALLATION CABLES NUMBERED



Grey sheath

Section mm²	No	REF Per metre
0,5	1	100MC5813
	2	100MC5814
	3	100MC5815
0,75	1	100MC5816
	2	100MC5817
	3	100MC5818

Send us your request for more combinations of cores/section cables

HARD-WEARING CABLES



- Outer sheath: PUR
- "G" indicates with Ground (green/yellow) cable

Type	Number of cores x section mm²	REF Per metre
H05BQ-F	3G x 1,0	100MC5819
	4G x 1,5	100MC5820
	4G x 1,0	100MC5821
	3G x 2,5	100MC5822
	2G x 1,5	100MC5823

Send us your request for more combinations of cores/section cables

WIRE ABBREVIATIONS AND DESCRIPTIONS

O or OB	0,14 mm² ≤ section ≥ 0,35 mm²: type O: colour code according to DIN 47100 section ≥ 0,5 mm²: type O: coloured conductors without yellow/green conductor
J or JB	coloured conductors with yellow/green conductor
OZ	numbered, black conductors without yellow/green conductor
JZ	numbered, black conductors with yellow/green conductor
DIN	coloured conductors without yellow/green conductor
LIYY	type of cable

PVC-INSULATED COLOURED MULTI-POLE CABLES



Type	Number of cores x section mm²	REF Per metre
LIYY-O	2 x 0,50	100MC5824
	2 x 2,50	100MC5825
	3 x 0,50	100MC5826
	4 x 0,34	100MC5827
	7 x 0,75	100MC5828
LIYY-J	4 x 2,50	100MC5829
	5 x 0,50	100MC5830

Send us your request for more combinations of cores/section cables

ELECTRICAL EQUIPMENT

PVC-INSULATED NUMBERED MULTI-POLE CABLES

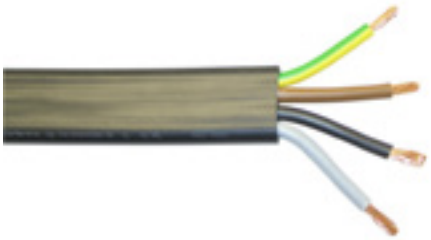


"G" indicates with Ground (green/yellow) cable

Type	Number of cores x section mm²	REF Per metre
LIYY-JZ	3G x 0,5	100MC5831
	4G x 0,5	100MC5832
	4G x 1,5	100MC5833
	5G x 1,5	100MC5834
	12G x 0,75	100MC5835
	12G x 1,5	100MC5836
	16G x 1	100MC5837
	18G x 0,5	100MC5838
	18G x 1	100MC5839
	25G x 1	100MC5840
LIYY-OZ	2 x 0,75	100MC5841
	2 x 1,5	100MC5842
	3 x 0,5	100MC5843
	3 x 1	100MC5844
	4 x 0,75	100MC5845
	7 x 0,75	100MC5846
	21 x 1,5	100MC5847

Send us your request for more combinations of cores/section cables

RUBBER-INSULATED MULTI-POLE FLAT CABLES



"G" indicates with Ground (green/yellow) cable

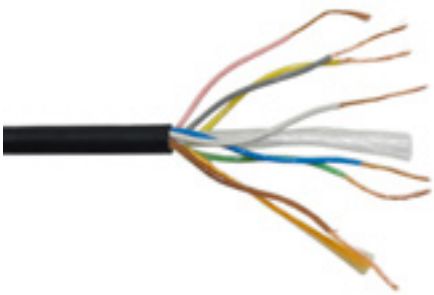
Type	Number of cores x section mm²	REF Per metre
H07VVH6F	4G x 10	100MC5848
	4G x 16	100MC5849
	4G x 25	100MC5850

CAR/TRAILER CABLE



Number of cores x section mm²	REF Per metre
2 x 1,5	100MC5851

CABLE GUIDE



- Ölflex Robust 210
- Number of wires: 7
- Wire section: 0,50 mm²
- Type: chainflex
- Copper conductor: multi-core

REF 100MC7309

SPECIAL MOTOR CABLES



Section mm²	REF Per metre
16	100MC5852
25	100MC5853

AUTOMATIC WIRE STRIPPER



- For solid cables with diameter 0,5–4,0 mm²
- Scanning system automatically adjusts to the correct diameter
- Integrated side cutter for wires up to 2 mm
- Optical linear measure of 8–12 mm

REF 100MC9477

HIGH-LEVERAGE DIAGONAL CUTTER



KNIPEX®

- Precision cutting edges additionally induction-hardened (cutting edge hardness approx 64 HRC), for all sorts of wire including piano wire
- Chrome-vanadium heavy-duty steel, forged, oil-hardened
- Length: 250 mm
- Special:
  - 20% less effort required compared to conventional diagonal cutters of the same length
  - With integrated forged joint axle for very tough, continuous use

REF 100MC9478

CABLE CUTTER



KNIPEX®

- For cutting copper and aluminium cables, single and multi-wire
- Clean cable cut
- Easy handling (one-handed grip)
- Maximum diamter: 32 mm
- Maximum section: 240 mm²

REF 100MC9479

INSULATION TAPE



Each reference number corresponds to 10 rolls of 10 m insulation tape (19 mm width).

REF 100MC9483 – Black
REF 100MC9484 – Red
REF 100MC9485 – Blue
REF 100MC9480 – Yellow
REF 100MC9481 – White

INSULATION TAPE



Kit of 10 rolls of different colours (19 mm x 10 m):
- 4 black rolls
- 2 yellow rolls
- 2 red rolls
- 1 blue roll
- 1 white roll

REF 100MC9482

WORK EASY GLOVES BLACK

Honeywell





Recommendations:
Fine handling in a dry environment

Applications:
- Assembly and electrical components (semi-conductors, microprocessors)
- Separation of small items (household appliances, automotive industry, nuts and bolts)
- Electronic

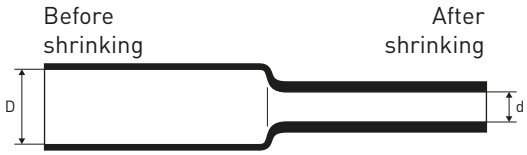
Advantages:
- Exceptional dexterity and breathability
- PU coated glove without silicone

Standard:
- Cat II
- EN 420
- EN 388:3121

REF 100MC9486 – Size 6
REF 100MC9487 – Size 7
REF 100MC9488 – Size 8
REF 100MC9489 – Size 9
REF 101MC3480 – Size 10
REF 101MC3481 – Size 11

HEAT-SHRINK TUBINGS 3/1





D		d	Colour	REF
mm	Inch	mm		Per metre
1,6	1/16	0,5	Black	100MC5854
3,2	1/8	1	Black	100MC5855
6,4	1/4	2	Transparent	100MC5856
			Black	100MC5857
			Red	100MC5858
			Blue	100MC5859
9,5	3/8	3	Red	100MC5860
			Blue	100MC5861
12,7	1/2	4	Transparent	100MC5862
			Black	100MC5863
			Green	100MC5864
			Red	100MC5865
			Blue	100MC5866
19	3/4	6	Black	100MC5867
			Yellow	100MC5868
			Green	100MC5869
			Transparent	100MC5870
			Black	100MC5871
			Transparent	100MC5872
25,4	1	8	Black	100MC5873
			Transparent	100MC5874
			Blue	100MC7313
			Red	100MC7314
39	1 1/2	13	Black	100MC5875

HEAT GUN

BOSCH

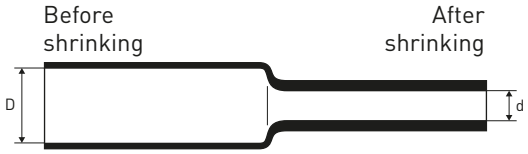


- Universal tool for forming and shrinking with hot air
- Heat setting: 100 °C to 600 °C
- Airflow rate: 350–550 l/min
- Power input: 240 V – 2000 W
- Weight: 0,7 kg

REF 100MC5876

HEAT-SHRINK TUBING KIT 2/1



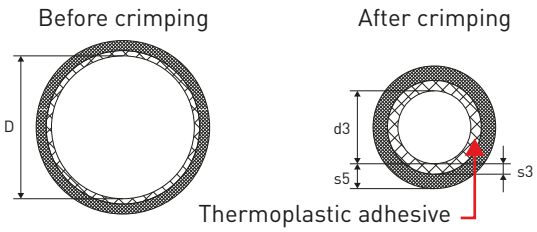


REF 100MC5877

Size		Length	Pieces	Colour
D mm	d mm	mm		
3,2	1,6	50	15	Black
				Blue
				Yellow
				Red
				White
4,8	2,4	50	6	Black
				Blue
				Yellow
				Red
				White
9,5	4,8	50	10	Black
				Blue
				Yellow
				Red
				White
12,7	6,4	70	5	Black
				Blue
				Yellow
				Red
				White

HEAT-SHRINK TUBING WITH THERMOPLASTIC ADHESIVE



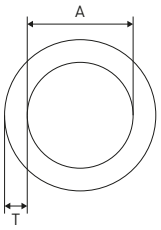


- This flexible heat-shrink tubing is ideal for effective moisture-resistant insulation of electric connections
- Colour: black

Before crimping	After crimping			REF
D mm	d3 mm	s3 mm	s5 mm	Per metre
19	6	0,6	2,1	100MC5878
24	6	0,7	2,4	100MC5879
32	8	0,7	2,4	100MC5880
40	13	0,7	2,4	100MC5881
52	13	0,7	2,4	100MC5882

SPIRAL TUBINGS





Colour: black

For use with cable Ø mm	A mm	T (thickness) mm	REF Per metre
5–20	4	1	100MC5883
10–40	9	1,5	100MC5884
25–100	19	1,5	100MC5885

CORRUGATED LOOM TUBINGS (OPEN VERSION)







Inner Ø	Outer Ø	REF	
mm	mm	Per metre	Tool
6,7	9,9	100MC5887	100MC5886
8,9	12,7	100MC5888	100MC5886
10,5	14,1	100MC5889	100MC5886
12,8	17	100MC5890	100MC5886
16,9	21,1	100MC5891	100MC5886
23,2	27,7	100MC5892	100MC5886
32,8	38,1	100MC5893	100MC5886

CORRUGATED LOOM TUBINGS (CLOSED VERSION)



Inner Ø mm	Outer Ø mm	REF Per metre
5	7,1	100MC5894
6,5	10	100MC5895
9,6	13	100MC5896
11,8	15,8	100MC5897
14,2	18,6	100MC5898
21,7	28,5	100MC5899

ENERGIC PLUS® BOOSTERS



Professional start booster to start each type of vehicle, from an engine-powered lift truck to an electric aerial work platform. Even if there is no battery present or if the battery is completely discharged.
Select your booster according to your machine by means of the required peak amperage (cranking current).

Characteristics:
- Excellent Swiss quality
- Starts any type of vehicle, from ICE lift trucks over aerial work platforms to cars
- Replaces any exhausted or missing battery

Range:
Select your booster depending on your fleet by means of the required peak amperage (cranking current)

Start boosters – Energic Plus®
1. Does your engine won't start due to an empty battery
2. No problem, simply use our Energic Plus professional start booster
3. Our booster can start anything, even when the battery is completely drained, or if there is no battery present at all
4. And that for every type of vehicle: lift truck, aerial work platform, cars ...
5. Our unique safety system prevents any malfunction
6. Our range features 5 types that differ in weight, voltage ...
7. The peak current is the most important characteristic when selecting the correct device
8. Our 2 heaviest models are equipped with wheels, to make life as easy as possible for you

Fig	Voltage	Starting current	Peak current	Maximum discharge kW	Car plug output 12 V A	Weight kg	Dimensions mm	REF
1	12	850 A	2500 A	10,20	16	9,96	370 x 310 x 160	100MC5900
2	12	1170 A	3100 A	14,04	16	12,63	390 x 315 x 205	100MC5901
3	12–24	2340 A – 12 V 1170 A – 24 V	6200 A – 12 V 3100 A – 24 V	28,08	16	22,79	440 x 320 x 220	100MC5902
4	12–24	2400 A – 12 V 1200 A – 24 V	5400 A – 12 V 2700 A – 24 V	28,80	16	29,11	540 x 410 x 260	100MC5903
5	12–24	6400 A – 12 V 3200 A – 24 V	15 500 A – 12 V 7750 A – 24 V	64,50	16	69,80	1100 x 610 x 650	100MC5904

ENERGICCAP 12 VDC



Features:
- 1 million cycles
- Ultrafast charge
- No built-in battery, so no need to keep it constantly charged
- No start limits
- Lightweight
- Reverse polarity alarm
- Built-in fuse
- 10-year shelf life
- Cold weather resistant (–40 °C)
- ABS® shockproof case
- Heavy-duty insulated clamps

Technical characteristics:
- Maximum cranking capacity: 1800 Amp
- Short circuit current: 9000 peak Amp
- Capacity: 500 Farad
- Charging voltage: 12 VDC – 220 VAC (50 Hz)
- Rated Voltage: 15 V
- Charged in less than 2 minutes
- Operating temperature: –40 °C to 50 °C
- Weight: 9,5 kg

REF 100MC9456

KIT START BOOSTER



Mini booster, jumper cables and clamps, 3-in-1 mobile cable, wall adapter, EVA bag.

- Battery type: lithium-polymer battery
- Input: 15 V 1 A
- Output: 12 V 10 A, 5 V 2 A, 5 V 1 A
- Battery capacity: 15 000 mAh (55,5 Wh)
- Starting current: 250 A
- Peak current: 500 A
- Dimensions (L x W x D): 186 x 92,5 x 42 mm
- Weight: 620 g

REF 100MC5905

UNIVERSAL BATTERY CHARGER BOX



Protect your battery chargers

Technical data:

- Max dimensions of the battery charger (W x L x H): 620 x 620 x 945 mm
- Dimensions of the box (W x L x H): 700 x 700 x 1175 mm
- Capacity: 160 kg
- Weight: 81 kg
- Fork pocket inner dimensions (W x H): 190 x 90 mm
- Min fork spread: 310 mm

Features:

- Suitable for transport of different sizes of battery chargers
- The box is adjustable in height
- Fitted onto the forks of the lift truck
- The battery charger is secured with 2 straps, allowing the battery charger door to be opened at all times
- The cables with electrical plug are safely stored underneath the battery charger
- Can be stacked up to 3 rows high

REF 100MC5906

BATTERY MONITORING DEVICE

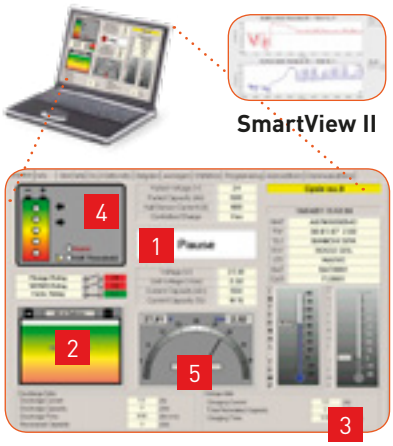


Battery control



Data download via USB





Software SmartView II

1. System status
2. Battery level indicator
3. Smart.up inside temperature
4. Smart.up panel
5. Battery voltage

Software can be download on the Energic plus website www.energicplus.com

SMART.UP monitoring device

Useful tool to check if the batteries are being charged correctly and are being discharged to the optimum level.

Monitoring battery data:
- Measured instantaneous data: V, I, T and Ah
- Storage and analysis of history data
- Statistics analysis
- Data download via USB to the PC

Sending battery data to a PC:
Through the USB connection data is sent to the SMARTVIEW Program, which makes it possible to display the data in form of working cycles and diagrams.

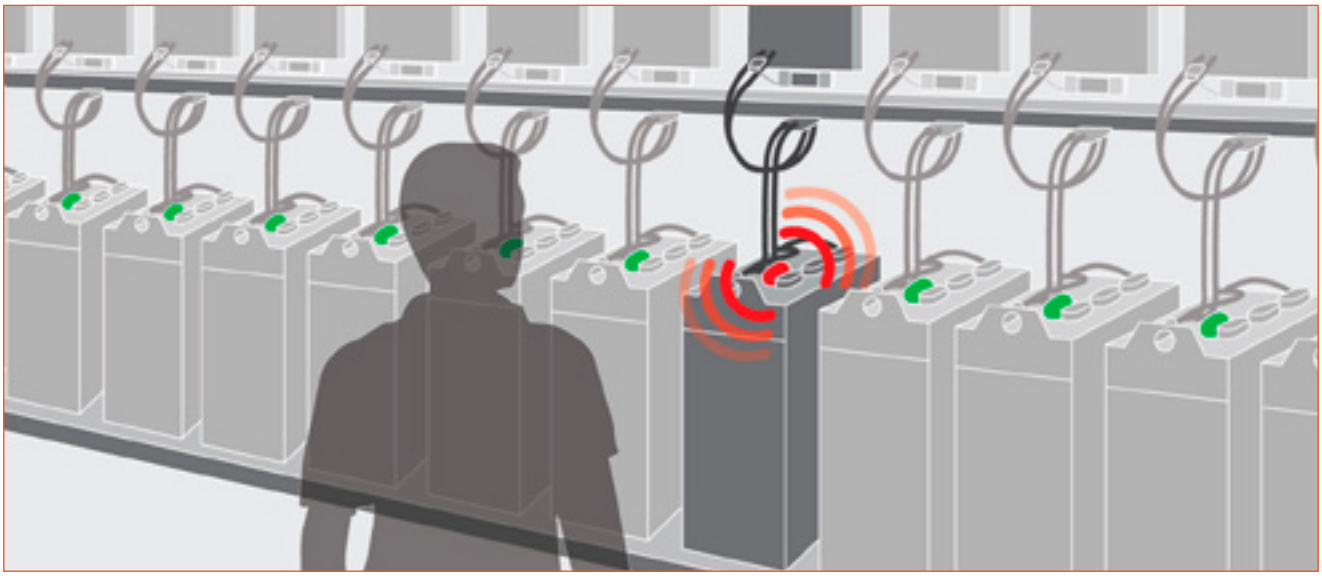
Sending battery data to the web:
Data stored on a flash USB drive can be uploaded to the SmartService WEB application for:
- Automatic analysis and reports
- Integrated "SmartIC-like" management fleet

For the entire lifespan of the battery, Smart.up monitors the following data:
- Voltage
- Current
- Capacity
- Temperature

Features:
- Data memory 400 working cycles
- For batteries 24/36/48/72/80/96 V (12 V available on request)
- Hall effect sensor
- Discharge time and capacity
- Registers battery faults and failures occurring during the charging process
- Temperature indication (when sensor is fitted)
- Low electrolyte level (when electrolyte level probe is fitted)
- Possibility of serial connection RS 485 and CAN bus
- Protection IP54
- Working temperature from –20 °C to 50 °C
- USB flash memory
- USB cable
- Measured instantaneous data: V, I, T, and Ah
- Storage and analysis of history data
- Statistics analyses
- Data download onto a PC
- Graphic display of voltage and current
- Programming of charging and discharging parameters

Voltage	Ah battery	REF
24–96 V	100 ÷ 340	101MC1399
	350 ÷ 740	101MC1400
	750 ÷ 1500	101MC1401

SMARTBLINKY







SmartBlinky®

Let your batteries tell you when they're thirsty

Problem:
Batteries may sustain damage if the electrolyte level is too low

Solution:
SmartBlinky alerts and reminds you when it is time to top up your batteries

SmartBlinky advantages:

Saves money:
- Low investment cost, helps to prevent costly battery replacement
- Prolongs battery life: never lets a battery dry out

Saves time:
- Reduces labour time wasted by checking battery levels
- Advanced technology eliminates false indications, maximises watering intervals

Easy maintenance:
Allows you to quickly detect the machines of which the batteries need water

Helps to protect your battery:
SmartBlinky informs you when the electrolyte level drops below a set level

Easy-to-use:
- Produces bright clear signals
- Variety of options to meet your needs

Safest electrolyte level monitor on the market:
- Low voltage (4 V nominal)
- Fuse-protected
- Low current draw
- Internationally certified

Durable design:
Built to withstand the harsh industrial battery applications

SMARTBLINKY RANGE



Blinky®

- LED blinks green when electrolyte is OK
- LED goes out when water is needed
- Reverse polarity protected
- Translucent overmold super bright LED
- Low-cost solution for electrolyte monitoring

REF 100MC5921



SmartBlinky Cyclops®

- Ideal for batteries that don't leave the vehicle
- LED is mounted in a rugged connector which is located behind the battery connector
- Whenever battery is disconnected from the charger, LED is in the operatives hand so the warning signal can't be missed

REF 100MC5922

Drill bit for SmartBlinky Cyclops®



- Installation tool
- Diameter: 11,7 mm

REF 100MC9691



SmartBlinky®

- LED blinks green when electrolyte is OK
- LED blinks red when water is needed
- Super bright LED
- Eliminates false indication and maximises watering intervals to prevent unnecessary watering
- 5-day delay option

REF 100MC5923

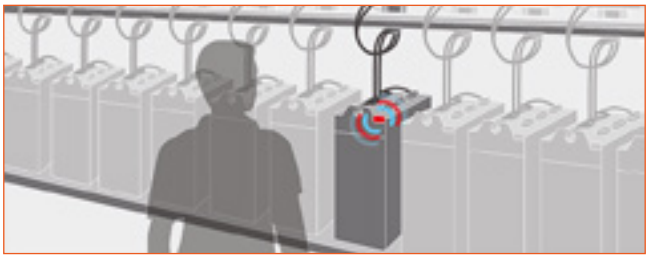


SmartBlinky Pro®

- Intelligent battery monitoring system with light and sound
- SmartBlinky Pro produces an audible alarm that alerts you even when you can't see the battery. The signal informs you if a battery needs watering and the variable frequency even tells you how long the electrolyte level has been low
- Brightest light indication on the market
- Revolutionary ease of installation
- SmartBlinky Pro indication to avoid boil over

REF 100MC5924

BATTERY BOX MONITOR





- Warns the user when electrolyte is detected on the bottom of the battery box
- Reduces the risk of damage to the battery
- Easy-to-install and use
- Suitable for all lead-acid batteries

REF 100MC5927

BATTERY TEMPERATURE MONITOR

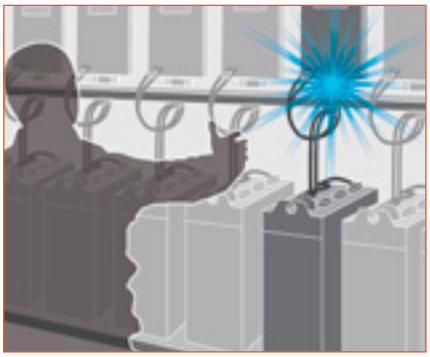


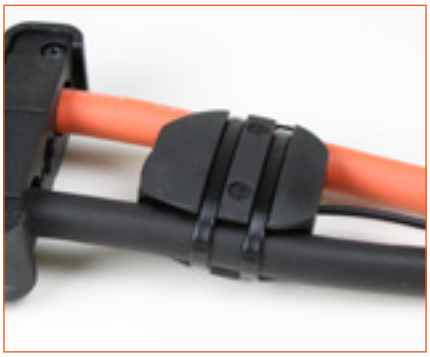


- Warns when the temperature of the battery rises above 40 °C
- Reduces the risk of damage to the battery as a result of excessive temperature
- Easy-to-use

REF 100MC5920

IBOS® LITE: THE SIMPLEST WAY TO MANAGE YOUR BATTERY ROOM







Features:

- Simple operation – bright, easy-to-see blue light tells you which charger to go to for the fully charged and most cooled down battery
- Protected – pick light is in enclosed container protecting it from dirt and grime

Simple installation:

- Universal voltage sentinels and controller
- Cable is included with sentinels and controller
- Daisy-chained data cable connections mean only 15 minutes of installation time per charger
- Charger labels are not required
- Can be done with local maintenance staff and standard tools
- No certified installation required and no system configuration needed

Benefits:

- Balanced battery selection – simplified and directed battery selection to make sure that all batteries are fully charged and properly cooled down
- Faster battery changes – save 2 to 5 minutes per change
- Fewer battery changes – 10 to 20% fewer battery changes and 30 minutes longer battery run time
- Longer battery life – (6 months additional life) due to longer battery cool down times, which equates to fewer battery purchases each year

REF 100MC5925 – iBOS® Lite controller
REF 100MC6996 – iBOS® Lite sentinel unit

Options:

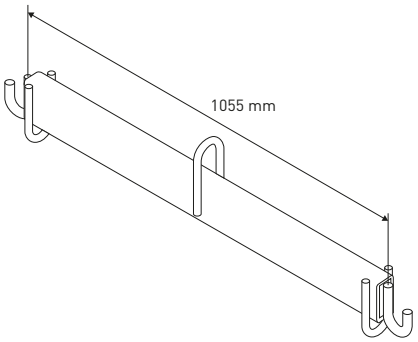
REF 100MC5926 – Extension cable 8 m
REF 100MC6997 – Extension cable 30 m

BATTERY MOVER ASSEMBLY









- To remove traction batteries from forklifts
- Capacity: 2000 kg

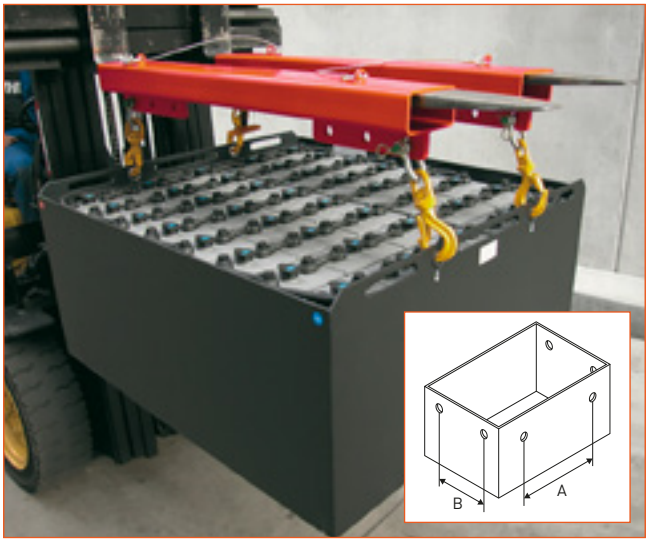
REF 100MC5907 – Complete kit includes:
- 1 x REF 100MC5908
- 1 x REF 100MC5909
- 2 x REF 100MC5910

REF 100MC5908 – Battery mover supplied without upper and lower chains

REF 100MC5909 – Upper chains, with red hook
– Length: 1000 mm

REF 100MC5910 – Lower chains, with yellow hooks
– Length: 800 mm

BATTERY CHANGING BEAMS



Lifting beams are specifically designed to remove and replace forklift truck batteries safely and economically without the risk of damage. Supplied complete with 4 swivel hooks. Secured safely to the forks by thumb screws.

Technical specifications:
- Maximum fork section (w x h): 150 x 70 mm
- A: min 590 mm – max 1010 mm
- B: min 180 mm – max 900 mm
- Dimensions (w x l): 900 x 1100 mm
- Capacity: 2000 kg

REF 100MC5911

CLAMPS



Clamp to lift traction cells

REF 100MC5912



- Manual hoist: 250 kg
- Lift capacity: 250 kg
- Total length: 250 mm
- Chain: 1500 mm
- Weight: 1,5 kg

REF 100MC5913

MANUAL PALLET TRUCK – STEEL





- Load capacity: 2500 kg
- Type of pump: standard – painted steel
- Minimum height: 80 mm
- Lifting height: 200 mm
- Length of the forks: 1150 mm
- Width across the forks: 540 mm
- Material of the steering wheels: rubber
- Fork wheels: tandem/polyurethane
- Model: TRP 0007

REF 100MC5914

Economic version

HAND TROLLEY – STEEL





- Load capacity: 200 kg
- Total height: 1100 mm
- Total width: 480 mm
- Length of the loading platform: 200 mm
- Width of the loading platform: 300 mm
- Own weight: 9 kg

REF 100MC5915 – Tyres solid
REF 100MC9455 – Tyres pneumatic

LIFT TABLE – MANUAL

Climax



- Load capacity: 150 kg
- Platform length: 700 mm
- Platform width: 450 mm
- Lifting height: 720 mm
- Max height: 950 mm
- Own weight: 46 kg
- Foot brake

REF 100MC5919

Also available in stainless steel

ATTACHMENTS & HANDLING EQUIPMENT



Please consult our 'Attachments & handling equipment' catalogue (REF 29193029) for more information.

Go to downloads on www.tvh.com to view the catalogue online.

BATTERY CONNECTOR CHART

Battery connector chart

APP Anderson Power Products®



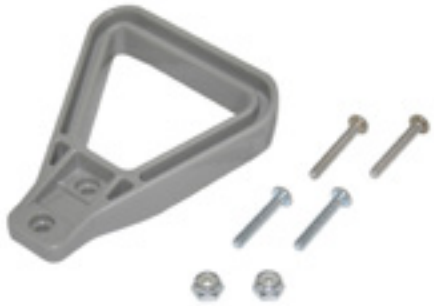
Type	Wire size			REF								
	AWG	Exact mm²	European mm²	Yellow 12 V	Orange 18 V	Red 24 V	Grey 36 V	Blue 48 V	Green 72 V	Black 80 V	Brown 96 V	Purple 120 V
SB50	#6	13,3	16	100MC8535	100MC8552	100MC8569	100MC8696	100MC8716	100MC8843	100MC8857		
	#10/12	5,3/3,3	6/4	100MC8536	100MC8553	100MC8570	100MC8697	100MC8717	100MC8844	100MC8858		
SB120	#2	33,6	35			100MC8571	100MC8698	100MC8718				
	#4	21,1	25			100MC8572	100MC8699	100MC8719				
	#6	13,3	16			100MC8573	100MC8700	100MC8720				
SB175	1/0	53,5	50	100MC8537	100MC8554	100MC8574	100MC8701	100MC8721				
	#2	33,6	35	100MC8538	100MC8555	100MC8575	100MC8702	100MC8722				
	#4	21,1	25	100MC8539	100MC8556	100MC8576	100MC8703	100MC8723				
SB350	2/0	67,4	70	100MC8540	100MC8557	100MC8577	100MC8704	100MC8724	100MC8845			
	3/0	85,0		100MC8541	100MC8558	100MC8578	100MC8705	100MC8725	100MC8846			
	4/0	107,2		100MC8542	100MC8559	100MC8579	100MC8706	100MC8726	100MC8847			
SBE80	#6	13,3	16			100MC8580						
SBE160	1/0	53,5	50	100MC8543	100MC8560	100MC8581	100MC8707	100MC8727	100MC8848	100MC8859		
	#2	33,6	35	100MC8544	100MC8561	100MC8582	100MC8708	100MC8728	100MC8849	100MC8860		
SBE320	2/0	67,4	70	100MC8545	100MC8562	100MC8583	100MC8709	100MC8729	100MC8850	100MC8861	100MC8942	100MC8946
			50	100MC8546	100MC8563	100MC8584	100MC8710	100MC8730	100MC8851	100MC8862	100MC8943	100MC8945
SBX175	1/0	53,5	50	100MC8547	100MC8564	100MC8585	100MC8711	100MC8731	100MC8852			
			35	100MC8548	100MC8565	100MC8586	100MC8712	100MC8732	100MC8853			
SBX350	2/0	67,4	70	100MC8549	100MC8566	100MC8587	100MC8713	100MC8733	100MC8854	100MC8863		
	3/0	85,0		100MC8550	100MC8567	100MC8588	100MC8714	100MC8734	100MC8855	100MC8864		
	4/0	107,2		100MC8551	100MC8568	100MC8589	100MC8715	100MC8735	100MC8856	100MC8865		

Voltage colour code

- Mechanical keys molded in connectors will engage only with connectors of same colour.
- This colour code given for various voltages is only a suggestion.

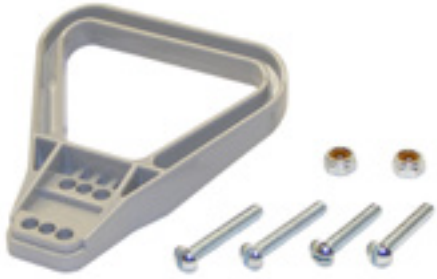
Colour	Suggested voltage VDC	Colour	Suggested voltage VDC	Colour	Suggested voltage VDC
Yellow	12	Grey	36	Black	80
Orange	18	Blue	48	Brown	96
Red	24	Green	72	Purple	120

HANDLES FOR SB50 – SB120



Colour	REF
Grey	100MC5934
Black	100MC5935
Red	100MC5936

HANDLES FOR SB175 – SB350



Colour	REF
Grey	100MC5937
Black	100MC5939
Red	100MC5938

HANDLES FOR REMA/ANDERSON



Colour	For connectors A	REF
Red	50	100MC5932
Red	120	100MC5933

PIN/SOCKET AUXILIARY KITS



1



2

Fig	For use with	Description	Wire		REF
			AWG	mm²	
1	SBE160/320 A	Truck/charger pin kit	#16/12	1,31/3,31	100MC6998
2	SBX175/350 A	Battery tube kit	#16/12	1,31/3,31	100MC6999

AUXILIARY CONTACT KIT



For use with	Description	Wire		REF
		AWG	mm²	
SBX175/350 A	Battery tube kit	#16/12	1,31/3,31	100MC8293

AIR SUPPLY SYSTEM



For use with	REF
SBE160/320 A	100MC5940

REMA MRC CONNECTORS – NICE TO KNOW



MRC® Power Solution Series

Unmatched durability and efficiency

The REMA® exclusive MRC® Power Solution Series utilises an engineered system of components molded into a composite cable and connector assembly with unmatched durability and efficiency. The customer benefits are a substantially reduced assembly time and minimised maintenance costs!

The MRC® Power Solution Series features:

- 75% current overload capability
- Fully compatible and interchangeable with existing cable and connector assemblies according to DIN 43589
- Connector housing and cable insulation material in one molded piece resulting in increased durability and environmental protection
- Acid-resistant housing and cable insulation
- RemaFlex® power cable suitable for applications requiring small bend radius
- Cable insulation and connector housing halogen-free
- Operating temperature range: –40 °C to 120 °C
- Definition of new amperage classes:
  - MRC 120 > DIN 80
  - MRC 260 > DIN 160
  - MRC 400 > DIN 320

How to order?

Please indicate following specifications:

- Truck details and/or
- Part number mentioned on the wire ending of the battery cable

REMA MRC CONNECTORS – SOCKET FEMALE



Amp	Cable size mm²	Length mm	REF
80	25	800	100MC5986
		1200	100MC5987
160	35	1000	100MC5988
		1200	100MC5989
		1500	100MC5990
		1800	100MC5991
	50	1000	100MC5992
		1200	100MC5993
		1500	100MC5994
		1800	100MC5995
320	70	1200	100MC5996
		1500	100MC5997
		1800	100MC5998
	95	2000	100MC5999
		2300	100MC6000

REMA MRC CONNECTORS – PIN MALE



Amp	Cable size mm²	Length mm	REF
80	16	3000	100MC6001
	25	3000	100MC6002
160	25	3000	100MC6003
	35	3000	100MC6004
320	25	3000	100MC6005

REMA DIN CONNECTORS

REMA®

Cable size	80 A				160 A			
mm²	Plug (male)	Plug with handle	Socket (female)	Socket with handle	Plug (male)	Plug with handle	Socket (female)	Socket with handle
16	101MC3485	101MC3488	101MC3506	101MC3509	101MC3663	101MC3534	101MC3664	101MC3665
25	101MC3486	101MC3489	101MC3507	101MC3510	101MC3531	101MC3535	101MC3547	101MC3550
35	101MC3487	101MC3490	101MC3508	101MC3511	101MC3532	101MC3536	101MC3548	101MC3551
50					101MC3533	101MC3537	101MC3549	101MC3552
With auxiliary contacts								
16	101MC3491	101MC3674	101MC3513	101MC3515	101MC3744			101MC3681
25	101MC3492	101MC3675	101MC3514	101MC3516	101MC3538	101MC3676	101MC3553	101MC3556
35	101MC3493			101MC3745	101MC3539	101MC3677	101MC3554	101MC3557
50					101MC3540	101MC3678	101MC3555	101MC3558
70					101MC3588	101MC3679	101MC3606	101MC3609
95					101MC3589	101MC3680	101MC3607	101MC3610
With air supply system								
16	101MC3497	101MC3500	101MC3683	101MC3520				
25	101MC3498	101MC3501	101MC3684	101MC3521	101MC3541	101MC3687	101MC3690	101MC3559
35	101MC3499	101MC3502	101MC3685	101MC3686	101MC3542	101MC3688	101MC3691	101MC3560
50					101MC3543	101MC3689	101MC3692	101MC3561
With air supply and auxiliary contacts								
16	101MC3503	101MC3693	101MC3696	101MC3698				
25	101MC3504	101MC3694	101MC3697	101MC3699	101MC3544	101MC3700	101MC3703	101MC3565
35	101MC3505	101MC3695		101MC3746	101MC3545	101MC3701	101MC3704	101MC3566
50					101MC3546	101MC3702	101MC3705	101MC3567
With pilot and auxiliary contacts								
16	101MC3712	101MC3714	101MC3716	101MC3718				
25	101MC3713	101MC3715	101MC3717	101MC3719	101MC3720	101MC3723	101MC3726	101MC3729
35					101MC3721	101MC3724	101MC3727	101MC3730
50					101MC3722	101MC3725	101MC3728	101MC3731

Cable size	320 A				640 A	
mm²	Plug (male)	Plug with handle	Socket (female)	Socket with handle	Plug (male)	Socket (female)
50	101MC3581	101MC3584	101MC3599	101MC3602		
70	101MC3582	101MC3585	101MC3600	101MC3603	101MC3666	101MC3670
95	101MC3583	101MC3586	101MC3601	101MC3604	101MC3667	101MC3671
120					101MC3668	101MC3672
240					101MC3669	101MC3673
With auxiliary contacts						
50	101MC3587	101MC3682	101MC3605	101MC3608		
With air supply system						
50	101MC3590	101MC3593	101MC3611	101MC3614		
70	101MC3591	101MC3594	101MC3612	101MC3615		
95	101MC3592	101MC3595	101MC3613	101MC3616		
With air supply and auxiliary contacts						
50	101MC3596	101MC3706	101MC3709	101MC3617		
70	101MC3597	101MC3707	101MC3710	101MC3618		
95	101MC3598	101MC3708	101MC3711	101MC3619		
With pilot and auxiliary contacts						
50	101MC3732	101MC3735	101MC3738	101MC3741		
70	101MC3733	101MC3736	101MC3739	101MC3742		
95	101MC3734	101MC3737	101MC3740	101MC3743		

REMA DIN 80 A TWIN PLUG AND SOCKET CONNECTORS



DIN 80 A plugs, grey coding, acid-resistant

REF 101MC3485 – 16 mm²
REF 101MC3486 – 25 mm²
REF 101MC3487 – 35 mm²



DIN 80 A plugs, grey coding, acid-resistant, separate handle

REF 101MC3488 – 16 mm²
REF 101MC3489 – 25 mm²
REF 101MC3490 – 35 mm²



DIN 80 A plugs, grey coding, acid-resistant, pilot contacts

REF 101MC3491 – 16 mm²
REF 101MC3492 – 25 mm²
REF 101MC3493 – 35 mm²



DIN 80 A plug, yellow coding, 90° angle contacts

REF 101MC3494 – 25 mm²



DIN 80 A plug, grey coding, red housing

REF 101MC3495 – 16 mm²
REF 101MC3496 – 25 mm²



DIN 80 A plugs, grey coding, AIR, acid-resistant

REF 101MC3497 – 16 mm²
REF 101MC3498 – 25 mm²
REF 101MC3499 – 35 mm²



DIN 80 A plugs, grey coding, AIR, acid-resistant, separate handle

REF 101MC3500 – 16 mm²
REF 101MC3501 – 25 mm²
REF 101MC3502 – 35 mm²



DIN 80 A plugs, grey coding, AIR, acid-resistant, aux. contacts

REF 101MC3503 – 16 mm²
REF 101MC3504 – 25 mm²
REF 101MC3505 – 35 mm²

REMA DIN 80 A TWIN PLUG AND SOCKET CONNECTORS



DIN 80 A sockets, grey coding, acid-resistant

REF 101MC3506 – 16 mm²
REF 101MC3507 – 25 mm²
REF 101MC3508 – 35 mm²



DIN 80 A sockets, grey coding, acid-resistant, fixed handle

REF 101MC3509 – 16 mm²
REF 101MC3510 – 25 mm²
REF 101MC3511 – 35 mm²



DIN 80 A sockets, grey coding, acid-resistant, separate handle

REF 101MC3512 – 25 mm²



DIN 80 A sockets, grey coding, acid-resistant, pilot contacts

REF 101MC3513 – 16 mm²
REF 101MC3514 – 25 mm²



DIN 80 A sockets, grey coding, acid-resistant, pilot contacts, fixed handle

REF 101MC3515 – 16 mm²
REF 101MC3516 – 25 mm²



DIN 80 A socket, grey coding, red housing, fixed handle

REF 101MC3517 – 16 mm²
REF 101MC3518 – 25 mm²
REF 101MC3519 – 35 mm²



DIN 80 A sockets, grey coding, AIR, acid-resistant, fixed handle

REF 101MC3520 – 16 mm²
REF 101MC3521 – 25 mm²



DIN 80 A sockets, grey coding, AIR, acid-resistant, separate handle

REF 101MC3522 – 16 mm²
REF 101MC3523 – 25 mm²

SPARE PARTS DIN 80 A



DIN 80 A plug housing (cable clamp, locking device), acid-resistant

REF 101MC3524



DIN 80 A socket housing (cable clamp, locking device), acid-resistant

REF 101MC3525



DIN 80 A socket housing (cable clamp, locking device), fixed handle, acid-resistant

REF 101MC3526



DIN 80 A main contact set for plug (2 pieces)

REF 100MC5944 – 16 mm²
REF 100MC5945 – 25 mm²
REF 100MC5946 – 35 mm²



DIN 80 A main contact set for socket (2 pieces)

REF 100MC5947 – 16 mm²
REF 100MC5948 – 25 mm²
REF 100MC5949 – 35 mm²



DIN 80 A angle contact 90° for plug

REF 101MC3527 – 25 mm²



DIN 80 A pilot contact set

REF 100MC5966 – For plug
REF 100MC5967 – For socket



DIN 80 A aux contact set

REF 100MC5972 – For plug
REF 100MC5973 – For socket

SPARE PARTS DIN 80 A



DIN 80 A coding pin

REF 100MC5980 – Grey (wet)
REF 100MC5981 – Green (dry)
REF 100MC5982 – Yellow (wet/dry)



DIN 80 A handle, flat, with 2 screws M6 x 30, acid-resistant

REF 101MC3528



DIN 80 A handle

REF 100MC5941 – Grey (clip), acid-resistant
REF 101MC3529 – Red (clip)
REF 101MC3530 – Red, with screws M6 x 35



DIN 80 A air adapter 6/8 mm connection

REF 100MC5976 – For plug
REF 100MC5977 – For socket

REMA DIN 160 A TWIN PLUG AND SOCKET CONNECTORS



DIN 160 A plugs, grey coding, acid-resistant

REF 101MC3531 – 25 mm²
REF 101MC3532 – 35 mm²
REF 101MC3533 – 50 mm²



DIN 160 A plugs, grey coding, acid-resistant, separate handle

REF 101MC3534 – 16 mm²
REF 101MC3535 – 25 mm²
REF 101MC3536 – 35 mm²
REF 101MC3537 – 50 mm²



DIN 160 A plugs, grey coding, acid-resistant, pilot contacts

REF 101MC3538 – 25 mm²
REF 101MC3539 – 35 mm²
REF 101MC3540 – 50 mm²



DIN 160 A plugs, grey coding, AIR, acid-resistant

REF 101MC3541 – 25 mm²
REF 101MC3542 – 35 mm²
REF 101MC3543 – 50 mm²



DIN 160 A plugs, grey coding, AIR, acid-resistant, aux contacts

REF 101MC3544 – 25 mm²
REF 101MC3545 – 35 mm²
REF 101MC3546 – 50 mm²



DIN 160 A sockets, grey coding, acid-resistant

REF 101MC3547 – 25 mm²
REF 101MC3548 – 35 mm²
REF 101MC3549 – 50 mm²



DIN 160 A sockets, grey coding, acid-resistant, fixed handle

REF 101MC3550 – 25 mm²
REF 101MC3551 – 35 mm²
REF 101MC3552 – 50 mm²



DIN 160 A sockets, grey coding, acid-resistant, pilot contacts

REF 101MC3553 – 25 mm²
REF 101MC3554 – 35 mm²
REF 101MC3555 – 50 mm²

REMA DIN 160 A TWIN PLUG AND SOCKET CONNECTORS



DIN 160 A sockets, grey coding, acid-resistant, pilot contacts, fixed handle

REF 101MC3556 – 25 mm²
REF 101MC3557 – 35 mm²
REF 101MC3558 – 50 mm²



DIN 160 A sockets, grey coding, AIR, acid-resistant, fixed handle

REF 101MC3559 – 25 mm²
REF 101MC3560 – 35 mm²
REF 101MC3561 – 50 mm²



DIN 160 A sockets, grey coding, AIR, acid-resistant, separate handle

REF 101MC3562 – 25 mm²
REF 101MC3563 – 35 mm²
REF 101MC3564 – 50 mm²



DIN 160 A sockets, grey coding, AIR, acid-resistant, fixed handle, aux contacts

REF 101MC3565 – 25 mm²
REF 101MC3566 – 35 mm²
REF 101MC3567 – 50 mm²

SPARE PARTS DIN 160 A



DIN 160 A plug housing (cable clamp, locking device), acid-resistant

REF 101MC3568



DIN 160 A socket, compl. (cable clamp, locking device), acid-resistant

REF 101MC3569



DIN 160 A socket, compl. (cable clamp, locking device), fixed handle, acid-resistant

REF 101MC3570



DIN 160 A main contact set for plug (2 pieces)

REF 100MC5950 – 16 mm²
REF 100MC5951 – 25 mm²
REF 100MC5952 – 35 mm²
REF 100MC5953 – 50 mm²
REF 100MC5954 – 70 mm²



DIN 160 A main contact set for socket (2 pieces)

REF 100MC5955 – 16 mm²
REF 100MC5956 – 25 mm²
REF 100MC5957 – 35 mm²
REF 100MC5958 – 50 mm²
REF 100MC5959 – 70 mm²



DIN 160 A pilot contact set

REF 100MC5968 – For plug
REF 100MC5969 – For socket



DIN 160 A aux contact set

REF 100MC5972 – For plug



DIN 160 A aux contact set

REF 101MC3571 – For scoket

SPARE PARTS DIN 160 A



Handle acid-resistant

REF 101MC3572 – DIN 160 A, flat, with 2 screws + lock nut
REF 100MC5942 – DIN 160 A, grey, bended, with 4 screws
REF 101MC3573 – DIN 160/320 A grey, bended, with 8 screws



Handle

REF 101MC3574 – DIN 160 A, red, bended, with 4 screws
REF 101MC3575 – DIN 160/320 A, red, bended, with 8 screws



DIN 160/320 metal handle

REF 101MC3576



DIN 160 A air adapter

REF 101MC3577 – For plug (6/8 mm connection)
REF 101MC3578 – For plug (6/9 mm connection)
REF 101MC3579 – For socket (6/9 mm connection)



DIN 160/320 A coding pin

REF 100MC5983 – Grey (wet)
REF 100MC5984 – Green (dry)
REF 100MC5985 – Yellow (wet/dry)

REMA DIN 320 A TWIN PLUG AND SOCKET CONNECTORS



DIN 320 A plugs, grey coding, acid-resistant

REF 101MC3581 – 50 mm²
REF 101MC3582 – 70 mm²
REF 101MC3583 – 95 mm²



DIN 320 A plugs, grey coding, acid-resistant, separate handle

REF 101MC3584 – 50 mm²
REF 101MC3585 – 70 mm²
REF 101MC3586 – 95 mm²



DIN 320 A plugs, grey coding, acid-resistant, pilot contacts

REF 101MC3587 – 50 mm²
REF 101MC3588 – 70 mm²
REF 101MC3589 – 95 mm²



DIN 320 A plugs, grey coding, AIR, acid-resistant

REF 101MC3590 – 50 mm²
REF 101MC3591 – 70 mm²
REF 101MC3592 – 95 mm²



DIN 320 A plugs, grey coding, AIR, acid-resistant, separate handle

REF 101MC3593 – 50 mm²
REF 101MC3594 – 70 mm²
REF 101MC3595 – 95 mm²



DIN 320 A plugs, grey coding, AIR, acid-resistant, aux contacts

REF 101MC3596 – 50 mm²
REF 101MC3597 – 70 mm²
REF 101MC3598 – 95 mm²



DIN 320 A sockets, grey coding, acid-resistant

REF 101MC3599 – 50 mm²
REF 101MC3600 – 70 mm²
REF 101MC3601 – 95 mm²



DIN 320 A sockets, grey coding, acid-resistant, separate handle

REF 101MC3602 – 50 mm²
REF 101MC3603 – 70 mm²
REF 101MC3604 – 95 mm²

REMA DIN 320 A TWIN PLUG AND SOCKET CONNECTORS



DIN 320 A sockets, grey coding, acid-resistant, pilot contacts

REF 101MC3605 – 50 mm²
REF 101MC3606 – 70 mm²
REF 101MC3607 – 95 mm²



DIN 320 A sockets, grey coding, acid-resistant, pilot contacts, separate handle

REF 101MC3608 – 50 mm²
REF 101MC3609 – 70 mm²
REF 101MC3610 – 95 mm²



DIN 320 A sockets, grey coding, AIR, acid-resistant

REF 101MC3611 – 50 mm²
REF 101MC3612 – 70 mm²
REF 101MC3613 – 95 mm²



DIN 320 A sockets, grey coding, AIR, acid-resistant, separate handle

REF 101MC3614 – 50 mm²
REF 101MC3615 – 70 mm²
REF 101MC3616 – 95 mm²



DIN 320 A sockets, grey coding, AIR, acid-resistant, separate handle, aux contacts

REF 101MC3617 – 50 mm²
REF 101MC3618 – 70 mm²
REF 101MC3619 – 95 mm²

SPARE PARTS DIN 320 A



DIN 320 A plug, compl. (cable clamp, locking device), acid-resistant

REF 101MC3620



DIN 320 A housing (cable clamp, locking device, threat screw), acid-resistant

REF 101MC3621



DIN 320 A main contact set for plug (2 pieces)

REF 100MC5960 – 50 mm²
REF 100MC5961 – 70 mm²
REF 100MC5962 – 95 mm²



DIN 320 A main contact set for socket (2 pieces)

REF 100MC5963 – 50 mm²
REF 100MC5964 – 70 mm²
REF 100MC5965 – 95 mm²



DIN 320 A pilot contact set

REF 100MC5970 – For plug
REF 100MC5971 – For socket



DIN 320 A aux contact set

REF 100MC5974 – For plug



DIN 320 A aux contact set

REF 100MC5975 – For socket



Handle acid-resistant

REF 101MC3622 – DIN 320 A, flat, with 2 screws
REF 100MC5943 – DIN 320 A, grey, bended, with 4 screws
REF 101MC3573 – DIN 160/320 A, grey, bended, with 8 screws

SPARE PARTS DIN 320 A



DIN 320 A handle red, flat, with 2 screws, only for DIN 320 A

REF 101MC3623 – DIN 320 A, red, flat, with 2 screws



DIN 320 A handle

REF 101MC3574 – DIN 320 A, red, bended, with 4 screws



DIN 160/320 A handle red, bended, with 8 screws for DIN 160/320 A

REF 101MC3575 – DIN 160/320 A, red, bended, with 8 screws



DIN 320 A air adapter (6/8 mm connection)

REF 100MC5978 – For plug
REF 100MC5979 – For socket



DIN 160/320 A pin

REF 100MC5983 – Grey (wet)
REF 100MC5984 – Green (dry)
REF 100MC5985 – Yellow (wet/dry)

REMA FT80 TWIN PLUG AND SOCKET CONNECTORS



FT80, plugs, red coding

REF 101MC3625 – 16 mm²
REF 101MC3626 – 25 mm²



FT80, plugs, red coding, pilot contacts

REF 101MC3627 – 16 mm²
REF 101MC3628 – 25 mm²



FT80, sockets, red coding

REF 101MC3629 – 16 mm²
REF 101MC3630 – 25 mm²



FT80, sockets, red coding, separate handle

REF 101MC3631 – 16 mm²
REF 101MC3632 – 25 mm²



FT80, sockets, red coding, pilot contacts

REF 101MC3633 – 16 mm²
REF 101MC3634 – 25 mm²



FT80, sockets, red coding, pilot contacts, separate handle

REF 101MC3635 – 16 mm²
REF 101MC3636 – 25 mm²

SPARE PARTS FT80



Contact for plug (1 piece)

REF 101MC3637 – 16 mm²
REF 101MC3638 – 25 mm²



Contact for socket (1 piece)

REF 101MC3639 – 16 mm²
REF 101MC3640 – 25 mm²



Pilot contact (1 piece)

REF 101MC3641 – For plug
REF 101MC3642 – For socket



Handle

REF 101MC3643



Coding pin

REF 101MC3644

REMA TWIN PLUG AND SOCKET CONNECTORS FOR TRAILER AND TOWING MACHINES

- Service voltage: max 48 V
- Housing made of polyamide

Complete connector (housing and contacts)

	Type	Nominal	Mounting to	Wire size	REF
	Plug (male)	160 A	Battery	35 mm²	100MC6006
		200 A	Battery	50 mm²	100MC6007
	Socket (female)	Fixing holes distance: 82,6 x 48 mm and 80 x 35 mm			
		160 A	Truck	35 mm²	100MC6008
		200 A	Truck	50 mm²	100MC6009
	Charger socket (female)	160 A	Charger	35 mm²	100MC6010
		200 A	Charger	50 mm²	100MC6011

Complete connector (housing and contacts)

	Type	Nominal	Mounting to	Wire size	REF
	Socket (female)	160 A	Battery	35 mm²	100MC6012
		200 A	Battery	50 mm²	100MC6013
	Plug (male)	Fixing holes distance: 82,6 x 48 mm			
		160 A	Truck	35 mm²	100MC6014
		200 A	Truck	50 mm²	100MC6015
		Fixing holes distance: 80 x 35 mm			
		160 A	Truck	35 mm²	100MC6016
		200 A	Truck	50 mm²	100MC6017
	Charger plug (male)	160 A	Charger	35 mm²	100MC6018
		200 A	Charger	50 mm²	100MC6011

- Remark: these connectors are supplied with crimpable contacts
- Spare parts: see next page

MAIN CONTACTS



1



2

Crimping version

Fig	Contact pin	Wire mm²	REF
1	Male	35	100MC6019
	Male	50	100MC6020
2	Female	35	100MC6021
	Female	50	100MC6022

RETAINING PINS



Description	Size mm	REF
Retaining pin	30,5	100MC6023
Retaining pin	33,5	100MC6024

CABLE CLAMP



Description	Colour	REF
Cable clamp	Black	100MC6025

COMPLETE CONNECTORS (HOUSING + CONTACT SET)



1



2

Fig	Description	Wire size mm²	REF
1	Socket (female)	50	100MC6012
2	Plug (male)	50	100MC6026

CONTACT SETS



1 2

Fig	Description	Wire size mm²	REF
1	Female	50	100MC6027
2	Male	50	100MC6028

AUX CONTACT SETS



1 2

Fig	Description	REF
1	Aux (female)	100MC6029
2	Aux (male)	100MC6030

PROTECTIVE COVERS



Description	REF
For socket	100MC6031
For plug	100MC6032

REDUCER BUSHINGS



Reduces from		REF
AWP	mm²	
#6 to #10/12	13,3 to 5,3/3,3	100MC6033
#6 to #8	13,3 to 8,4	101MC1420
#6 to #14/16	13,3 to 2,1/1,3	101MC1421
#2 to #4	33,6/21,2	101MC1422
#2 to #6	33,6/13,3	101MC1423
#2 to #8	33,6/8,4	101MC1424
1/0 to #10	53,5 to 5,1	101MC1425
1/0 to #6	53,5 to 13,3	101MC1426
1/0 to #1	53,5 to 42,4	101MC1427
1/0 to #2	53,5 to 33,6	101MC1428
1/0 to #4	53,5 to 21,2	101MC1429
2/0 to 1/0	67,4 to 53,5	101MC1430

CONTACT CLEANERS



- Effective precision cleaner for electrical/electronic equipment
- Quickly cleans contacts and components
- Removes welding traces, light oils, fingerprints and other contaminants
- NSF registered: K2
- Evaporated completely, leaves no residue
- 500 ml

REF 100MC9475



- High-quality spray designed to clean electrical contacts such as switches, batteries, terminals, printed circuit board switches and multiple sockets
- 400 ml

REF 100MC9476

BRAIDS – TECHNICAL SHEET

Group	Example	Customer details
02-01-04-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

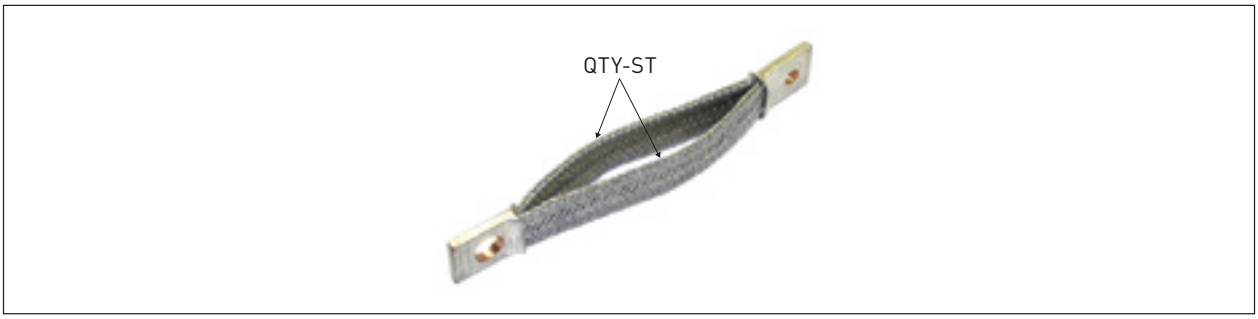
☐ Order

C1 ..... Biggest centre distance (mm)
W1 ..... Width of the braid (mm)
TH1 ..... Thickness of the braid (mm)
D1 ..... Diameter of the braid (mm)
QTY-ST ..... Number of strips
D2 ..... Diameter of the smallest hole (mm)
D3 ..... Diameter of the largest hole (mm)
QTY-CO ..... Number of connections
TY-CO ..... Type of connection:

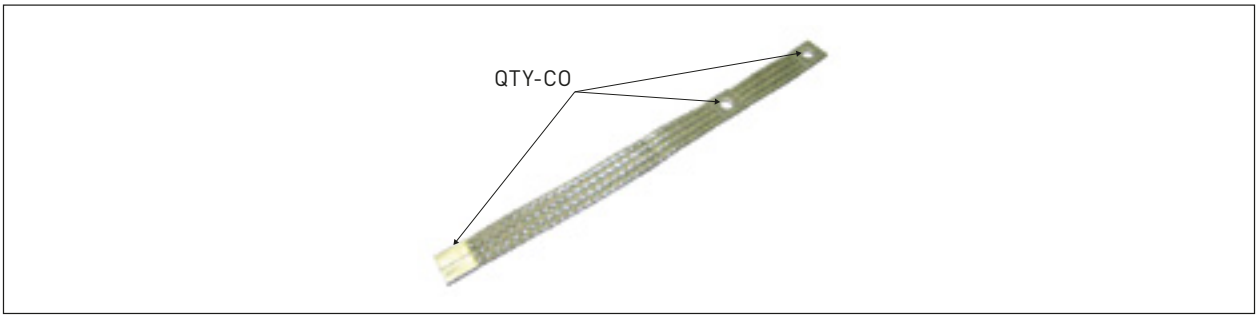
A = with battery clamp
B = with double holes
C = with single hole
D = without hole
S = special

BRAIDS – TECHNICAL SHEET

QTY-ST: NUMBER OF STRIPS

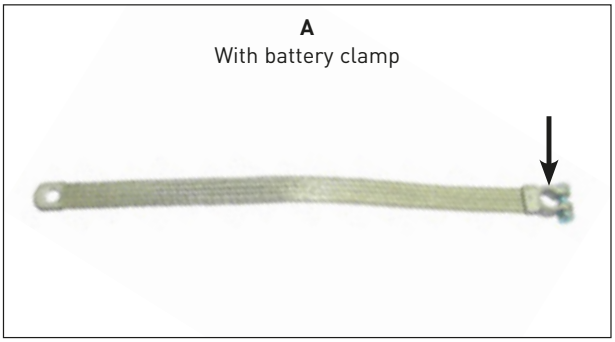


QTY-CO: NUMBER OF CONNECTIONS

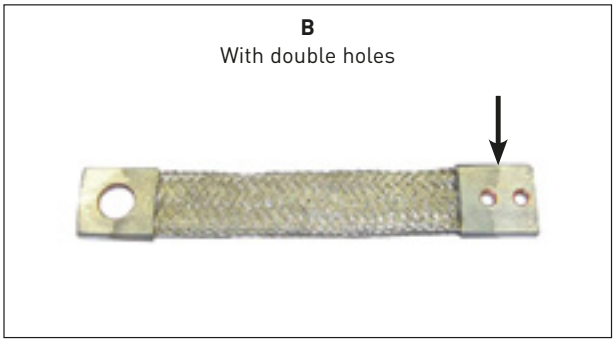


TY-CO: TYPE OF CONNECTION

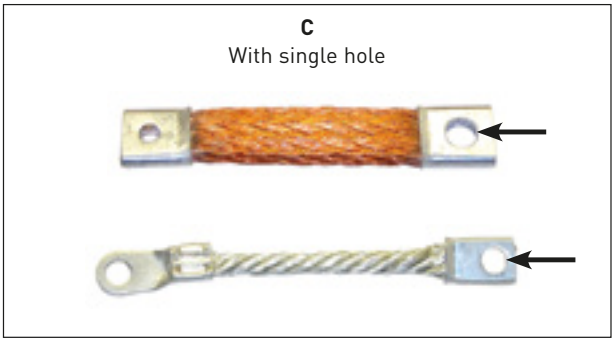
A
With battery clamp



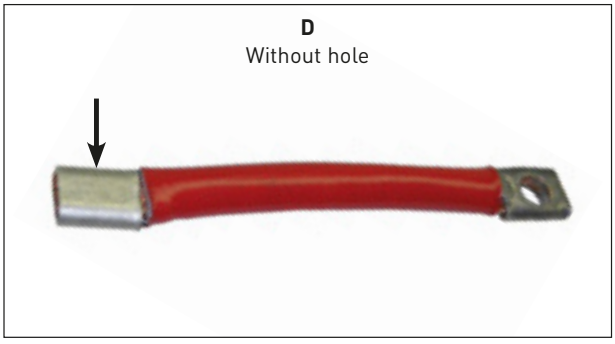
B
With double holes



C
With single hole



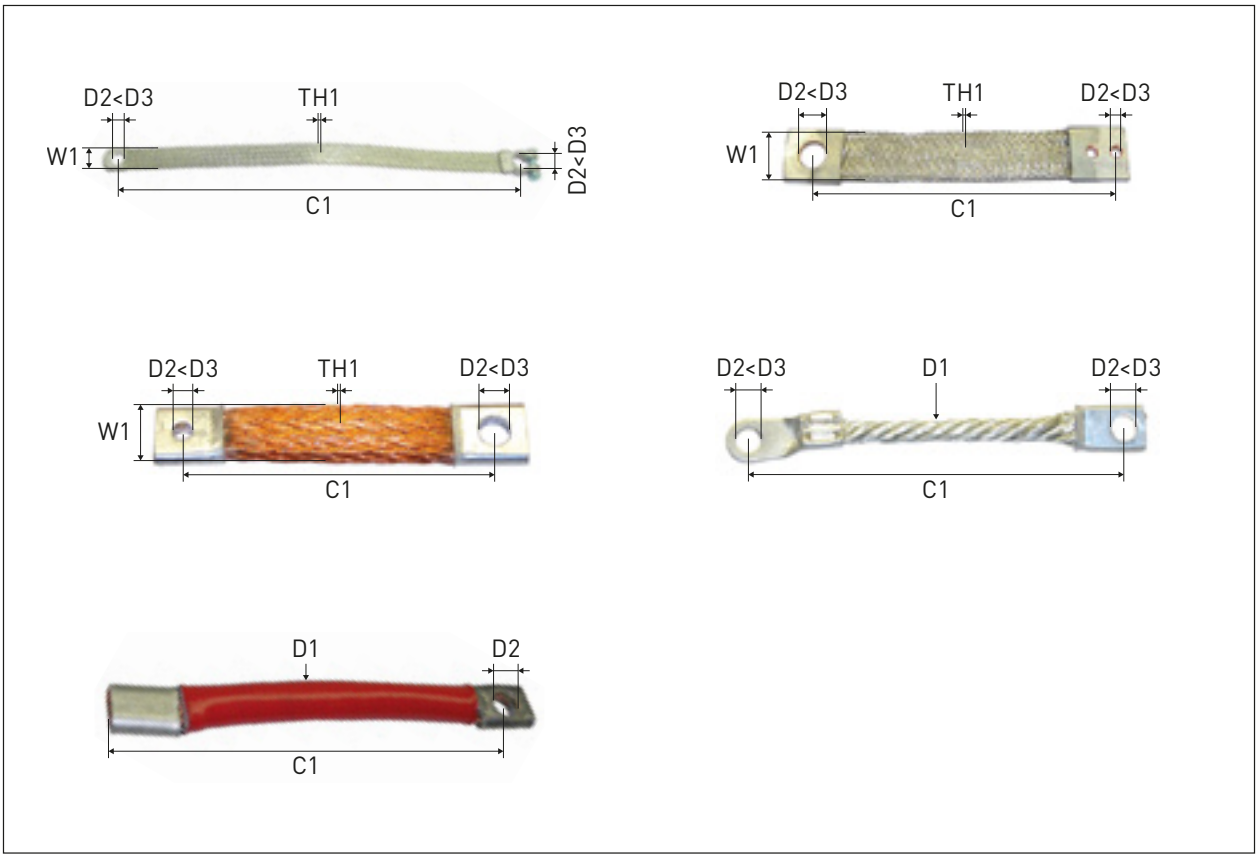
D
Without hole



S
Special

BRAIDS – TECHNICAL SHEET

DIMENSIONS



BRAIDS



Centre distance mm	Thickness mm	Number of strips	Number of connections	REF
108	16	2	2	100MC6034
80	5	2	2	100MC6035
80	2	1	3	100MC6037

SAFE-T-LOCK STL 1000



SAFE-T-LOCK™

Suitable for all types of voltages, the Safe-T-Lock is the most easy-to-use and fast-to-program access control device in our range. It can hold up to 99 user codes.

Features:

- 12–120 VDC
- Waterproof IP65
- Up to 99 different users/drivers (settings can only be changed by a supervisor)
- 1 programmable supervisor code
- Last user identification
- Automatic shut-off after 3 minutes (fixed time) of vehicle inactivity
- Maintenance alert after 250 hours

REF 100MC6038

KEY/IGNITION SWITCHES – TECHNICAL SHEET

Group	Example	Customer details
02-03-04-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

QTY-CO. . . . . Number of connections

QTY-POS . . . . . Number of positions. The first (neutral) position included

D1. . . . . Built-in diameter (mm)

NR-SC . . . . . Number of diagram

TY-CO. . . . . Type of connection:

A = blade 4,8 mm
B = blade 6,3 mm
C = blade 9,5 mm
D = pin
E = screw
F = connector
G = solder
H = bolt
I = connector

L1. . . . . Total length (mm)

L2. . . . . Length of thread (mm)

KEY-PR . . . . . Key present (yes/no)

TY-POS. . . . . Key extraction

KEY-NR . . . . . Key number

TVH-KEY . . . . . TVH-ref of key

QTY-LI . . . . . Number of links between connections

QTY-PL. . . . . Number of plugs

QTY-PI . . . . . Number of pins

AN-RE . . . . . Anti-restart (yes/no)

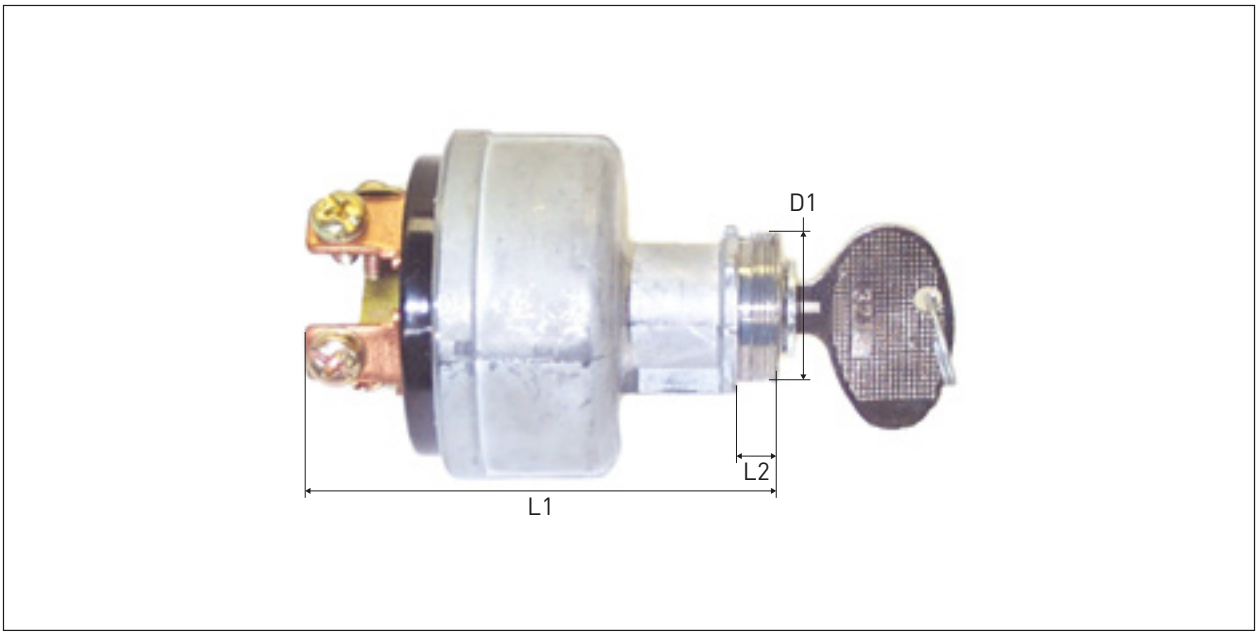
AN-TH . . . . . Anti-theft (yes/no)

WI-HA . . . . . Wiring harness present:

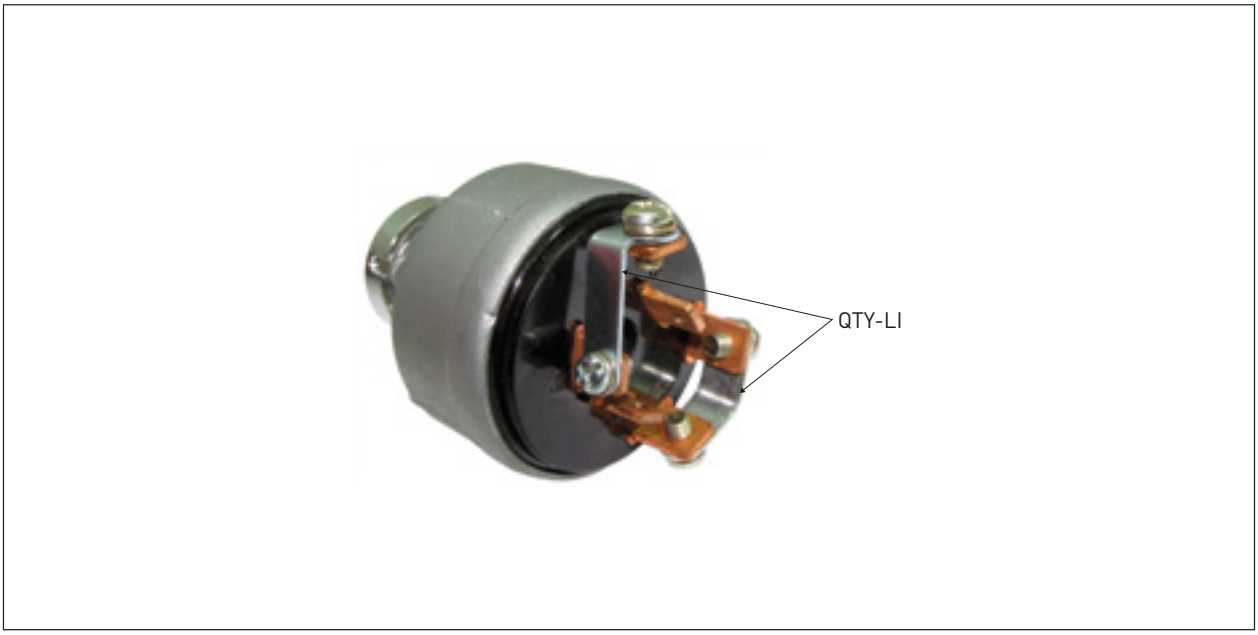
Y = yes
N = no
S = separately

KEY/IGNITION SWITCHES – TECHNICAL SHEET

DIMENSIONS



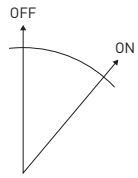
NUMBER OF LINKS BETWEEN CONNECTIONS



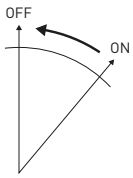
KEY/IGNITION SWITCHES – TECHNICAL SHEET

DIAGRAMS

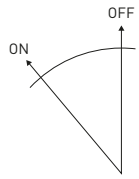
2.1



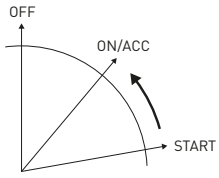
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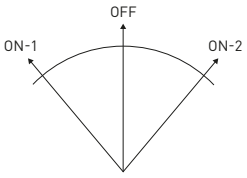
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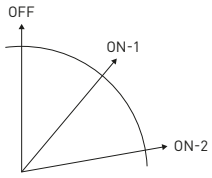
3.1



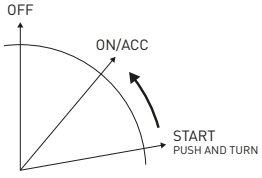
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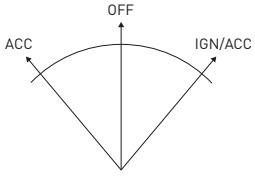
3.3



3.4



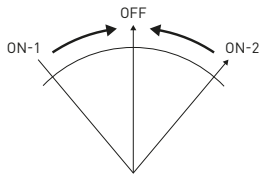
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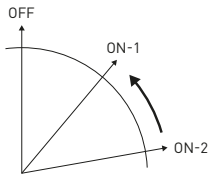
KEY/IGNITION SWITCHES – TECHNICAL SHEET

DIAGRAMS

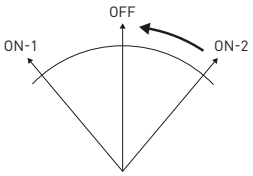
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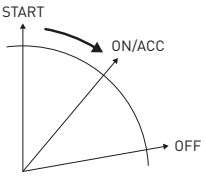
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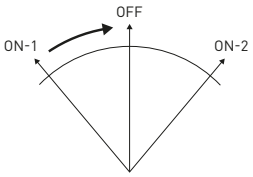
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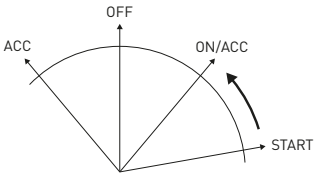
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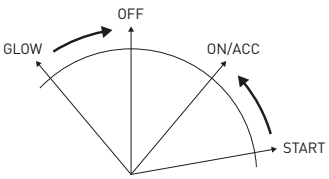
3.10



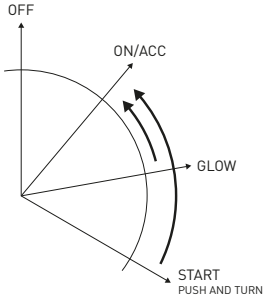
4.1



4.2



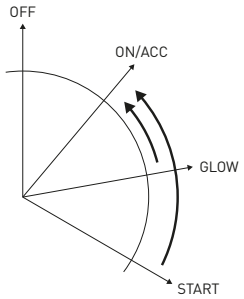
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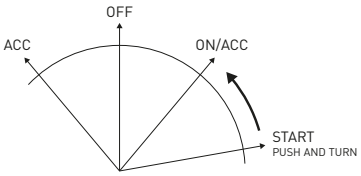
KEY/IGNITION SWITCHES – TECHNICAL SHEET

DIAGRAMS

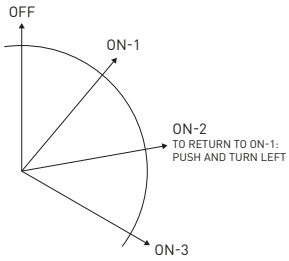
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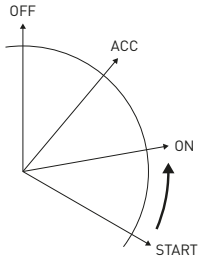
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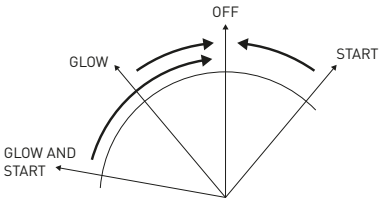
4.6



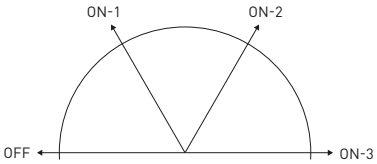
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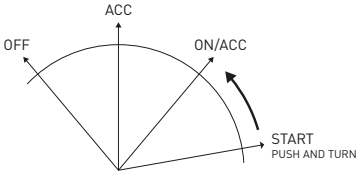
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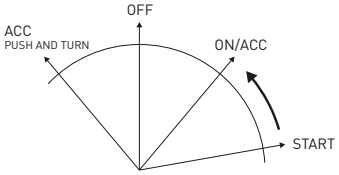
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4.10



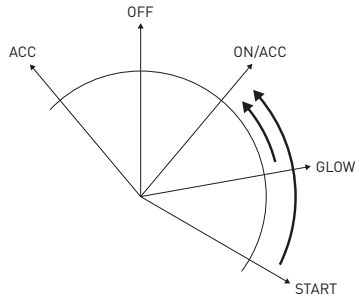
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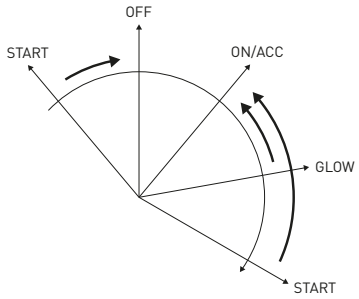
KEY/IGNITION SWITCHES – TECHNICAL SHEET

DIAGRAMS

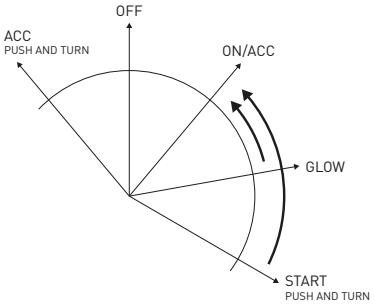
5.1



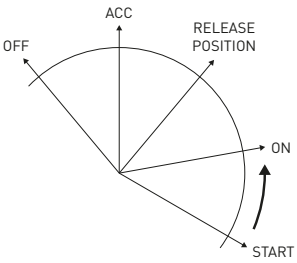
5.2



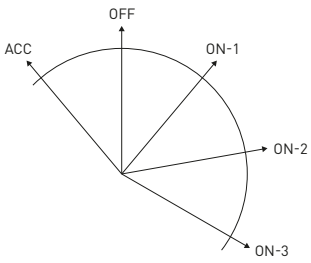
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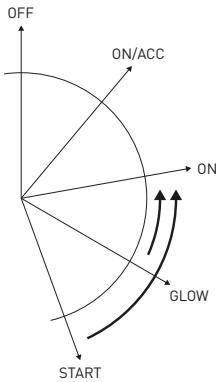
5.4



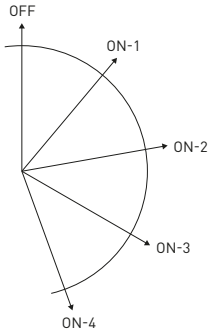
5.5



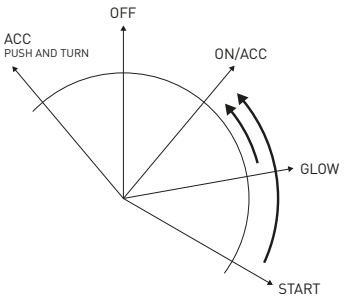
5.6



5.7



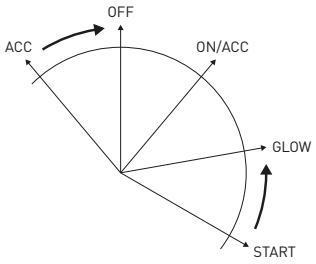
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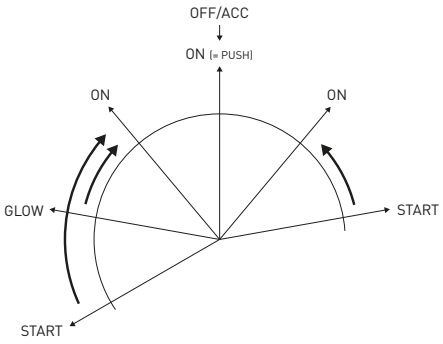
KEY/IGNITION SWITCHES – TECHNICAL SHEET

DIAGRAMS

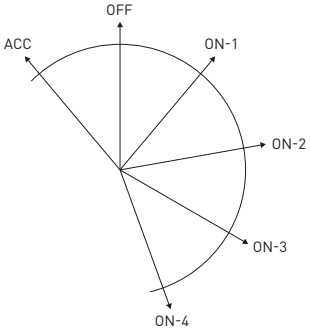
5.9



6.1

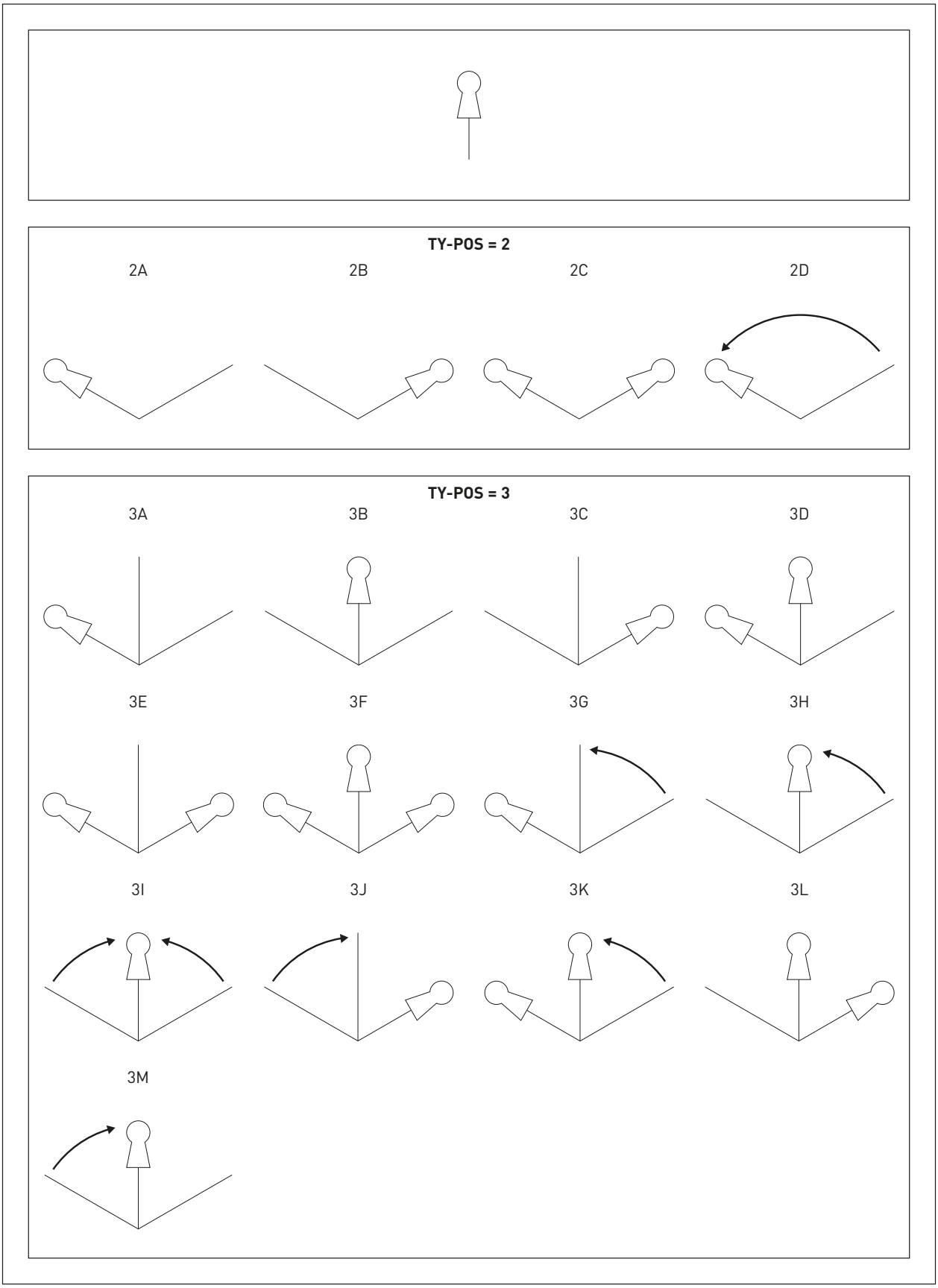


6.2



KEY/IGNITION SWITCHES – TECHNICAL SHEET

KEY EXTRACTION



TY-POS = 2

2A 2B 2C 2D

TY-POS = 3

3A 3B 3C 3D

3E 3F 3G 3H

3I 3J 3K 3L

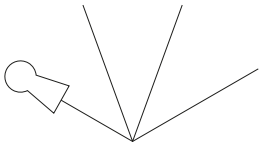
3M

KEY/IGNITION SWITCHES – TECHNICAL SHEET

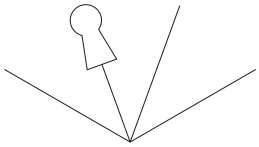
KEY EXTRACTION

TY-POS = 4

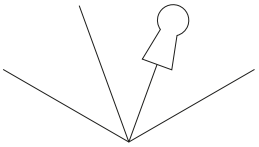
4A



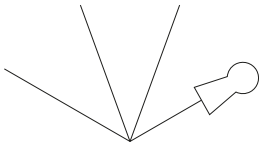
4B



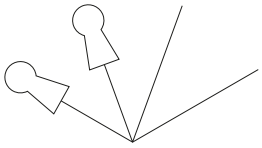
4C



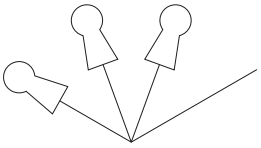
4D



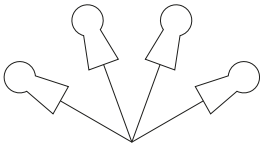
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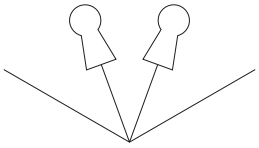
4F



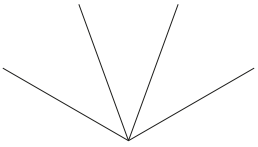
4G



4H

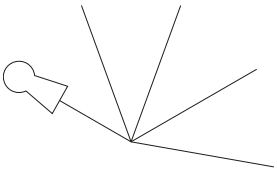


4I

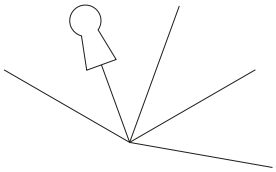


TY-POS = 5

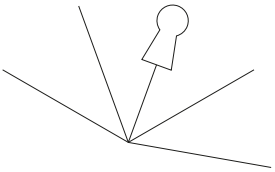
5A



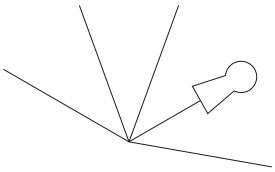
5B



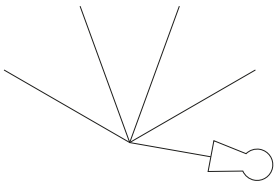
5C



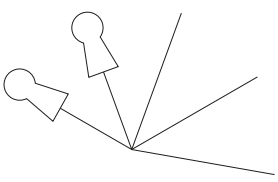
5D



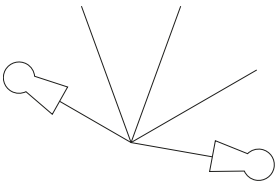
5E



5F

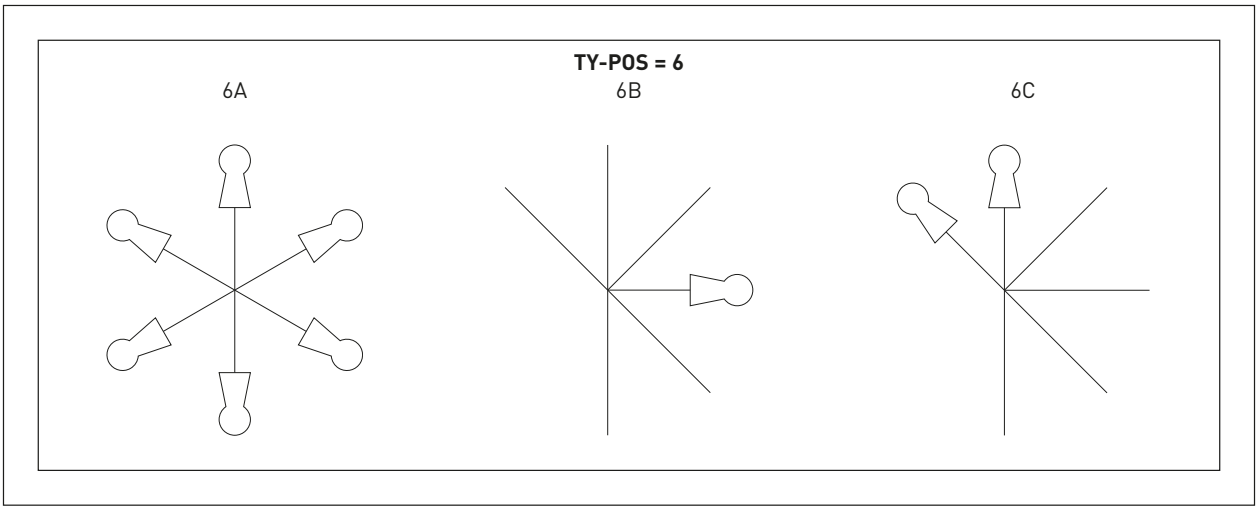


5G



KEY/IGNITION SWITCHES – TECHNICAL SHEET

KEY EXTRACTION



KEY/IGNITION SWITCHES – TECHNICAL SHEET

TYPE OF CONNECTION

Type A



Type B



Type C



Type D



Type E



Type F



Type G





Type H



Type I



In case of a combination of different connections, please state in alphabetical order.

KEY/IGNITION SWITCHES – TECHNICAL SHEET

WHAT ARE PLUGS?

All insulated pins, connectors and connections.



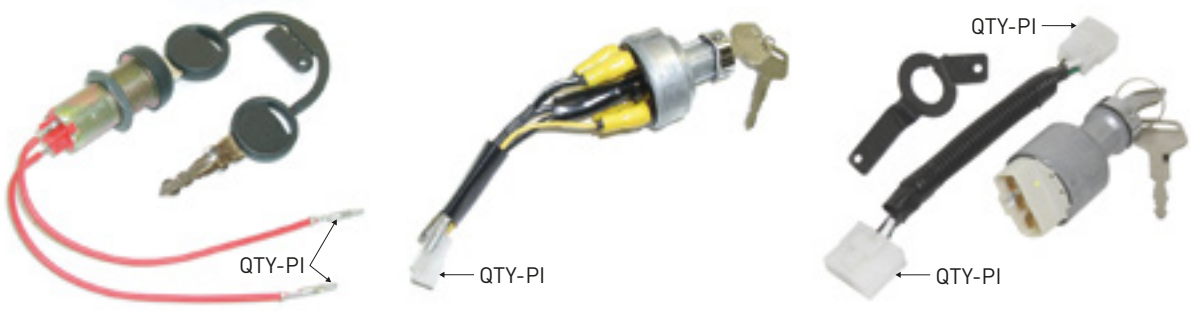
WHAT ARE PINS?

All non-insulated connections.



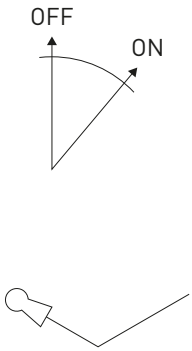
FIXED WIRING HARNESS

In case of a fixed wiring harness, count only the number of pins and plugs at the end of the cable.
In case of a loose cables, count all pins and plugs.



KEY/IGNITION SWITCHES





Number of connections	Number of positions	Built-in diameter (D1) mm	Total length (L1) mm	Key number	REF key	REF key switch
3	2	22	48	9401	100MC8454	100MC8317
3	2	22	48	9402	100MC8455	100MC8318
3	2	22	49	9403	100MC8456	100MC8319
3	2	22	48	9404	100MC8457	100MC8320
3	2	22	48	9405	100MC8458	100MC8321
3	2	22	49	9406	100MC8459	100MC8322
3	2	22	48	9407	100MC8460	100MC8323
3	2	22	48	9408	100MC8461	100MC8324
3	2	22	48	9409	100MC8462	100MC8325
3	2	22	48	9410	100MC8463	100MC8326
3	2	22	48	9411	100MC8464	100MC8327
3	2	22	48	9412	100MC8465	100MC8328
3	2	22	48	9413	100MC8466	100MC8329
3	2	22	48	9414	100MC8467	100MC8330
3	2	22	48	9415	100MC8468	100MC8331
3	2	22	48	9416	100MC8469	100MC8332
3	2	22	48	9417	100MC8470	100MC8333
3	2	22	48	9418	100MC8471	100MC8334
3	2	22	48	9419	100MC8472	100MC8335
3	2	22	48	9420	100MC8473	100MC8336
3	2	22	48	9421	100MC8474	100MC8337
3	2	22	48	9422	100MC8475	100MC8338
3		22	48	9423	100MC8476	100MC8339
3	2	22	48	9424	100MC8477	100MC8340
3	2	22	48	9425	100MC8478	100MC8341
3	2	22	48	9426	100MC8479	100MC8342
3	2	22	48	9427	100MC8480	100MC8343
3	2	22	48	9428	100MC8481	100MC8344
3	2	22	48	9429	100MC8482	100MC8345
3	2	22	48	9430	100MC8483	100MC8346
3	2	22	48	9431	100MC8484	100MC8347
3	2	22	48	9432	100MC8485	100MC8348
3	2	22	48	9433	100MC8486	100MC8349
3	2	22	48	9434	100MC8487	100MC8350
3	2	22	48	9435	100MC8488	100MC8351
3	2	22	48	9436	100MC8489	100MC8352
3	2	22	48	9437	100MC8490	100MC8353
3	2	22	48	9438	100MC8491	100MC8354
3	2	22	48	9439	100MC8492	100MC8355
3	2	22	48	9440	100MC8493	100MC8356
3	2	23	48	9441	100MC8494	100MC8357

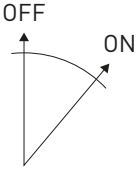
KEY/IGNITION SWITCHES

Number of connections	Number of positions	Built-in diameter (D1) mm	Total length (L1) mm	Key number	REF key	REF key switch
3	2	22	48	9442	100MC8495	100MC8358
3	2	22	48	9443	100MC8496	100MC8359
3	2	22	48	9444	100MC8497	100MC8360
3	2	22	48	9445	100MC8498	100MC8361
3	2	22	48	9446	100MC8499	100MC8362
3	2	22	48	9447	100MC8500	100MC8363
3	2	22	48	9448	100MC8501	100MC8364
3	2	22	48	9449	100MC8502	100MC8365
3	2	22	48	9450	100MC8503	100MC8366
3	2	22	48	9451	100MC8504	100MC8367
3	2	22	48	9452	100MC8505	100MC8368
3	2	22	48	9453	100MC8506	100MC8369
3	2	22	48	9454	100MC8507	100MC8370
3	2	22	48	9455	100MC8508	100MC8371
3	2	22	48	9456	100MC8509	100MC8372
3	2	22	48	9457	100MC8510	100MC8373
3	2	22	48	9458	100MC8511	100MC8374
3	2	22	48	9459	100MC8512	100MC8375

SET OF KEY SWITCHES DIFFERENT KEY NUMBERS



Look up via MyProductSearch

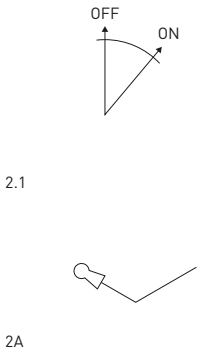


AT-AS	Number of terminals	3
AT-ST	Number of positions	2
D1	Diameter	22 mm
L1	Total length	48 mm
L2	Length screw thread	13 mm

Set	Key number	REF
12 key switches	9401 to 9412	101MC1431
25 key switches	9401 to 9425	101MC1432
60 key switches	9401 to 9460	101MC1433
Master key: fits on each of the above-mentioned key switch	9211	101MC1434

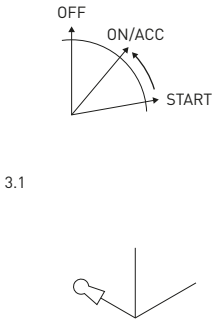
KEY/IGNITION SWITCHES





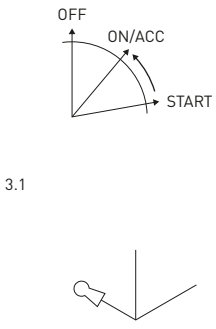
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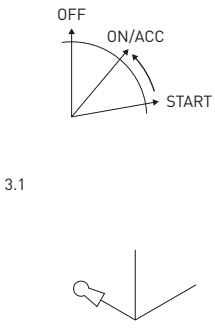
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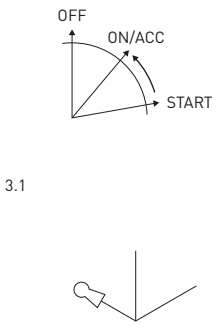
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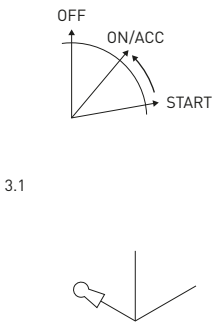
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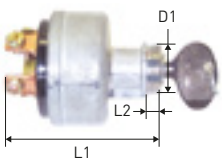


REF 101MC3347





REF 101MC3348

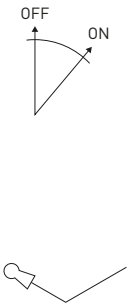


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
3	2	26	41	E	No			101MC3343
3	3	22	52	B	Yes			101MC3344
3	3	22	52	B	Yes	E30	101MC1456	101MC3345
3	3	22	52	B	Yes	K11	101MC1457	101MC3346
3	3	22	52	B	No			101MC3347
3	3	22	52	B	Yes	E11	101MC1455	101MC3348

If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

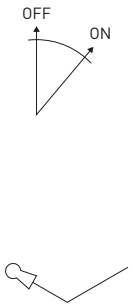
KEY/IGNITION SWITCHES





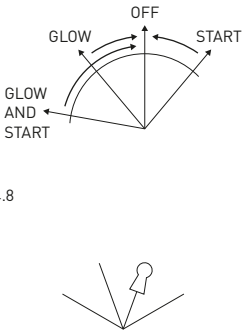
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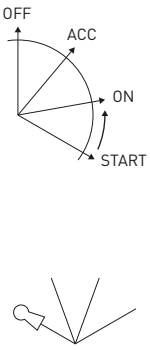
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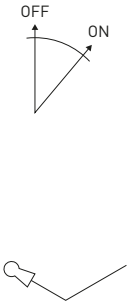
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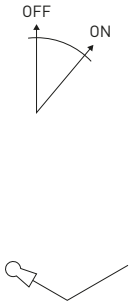
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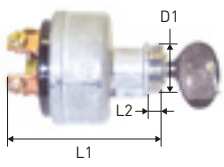


REF 101MC3352





REF 100MC6071

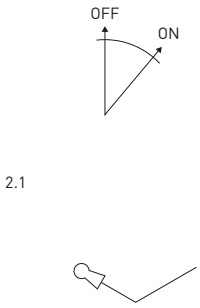


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
3	2	20	54	B	No			101MC3349
4	2	20	54	B	No	FFS885	101MC1466	101MC3350
4	4	16	66	BC	No		101MC1467	101MC3351
4	4	18	65,5	B	Yes	14644	101MC3337	100MC8301
5	2	22	56	B	No			101MC3352
5	2	22	56	B	No	E30	100MC4161	100MC6071

If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

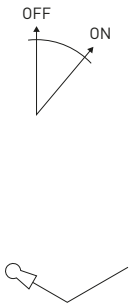
KEY/IGNITION SWITCHES





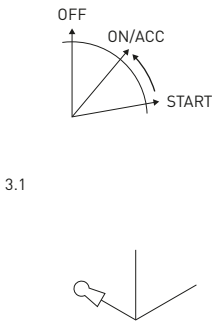
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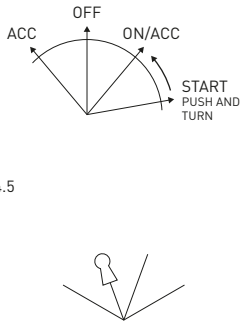
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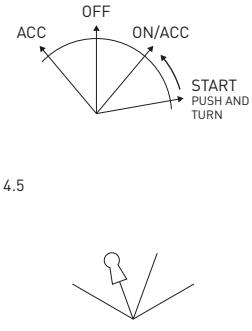
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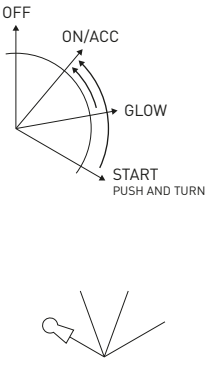
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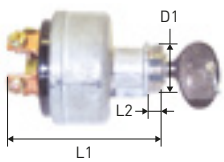


REF 101MC3355





REF 101MC3356

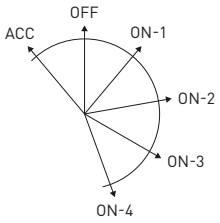


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
5	2	22	56	B	No	E41	101MC1458	100MC8395
5	2	22	56	B	No	K03	101MC1459	101MC3353
5	3	22	65	E	No	E39	101MC3338	101MC3354
5	4	22	59	E	No	E30	100MC4161	100MC8394
5	4	22	59	E	Yes			101MC3355
5	4	22	65	E	Yes	E30	100MC4161	101MC3356

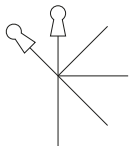
If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

KEY/IGNITION SWITCHES





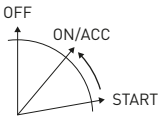
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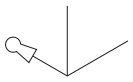
6C

REF 101MC3357





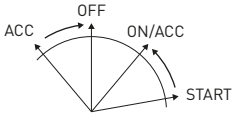
3.1



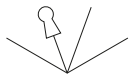
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REF 101MC3358





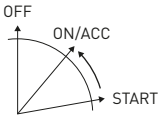
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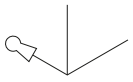
4B

REF 101MC3359





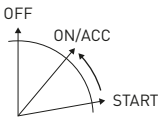
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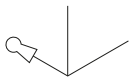
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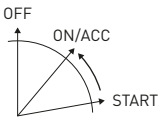
3.1



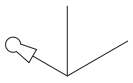
3A

REF 100MC8302



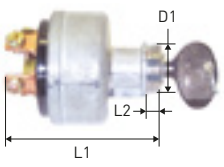


3.1



3A

REF 101MC3360

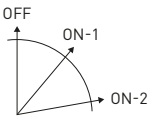


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
5	6	26	65	E	No	14610	101MC1462	101MC3357
5	3	20	55	B	No	FS880	101MC1468	101MC3358
5	4	25	64	E	Yes		101MC3339	101MC3359
5	3	18	66	B	Yes			100MC6057
5	3	22	62	B	Yes	14644	101MC3337	100MC8302
6	3	22	65	B	No	E80	100MC4162	101MC3360

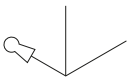
If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

KEY/IGNITION SWITCHES





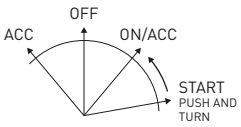
3.3



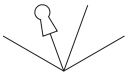
3A

REF 101MC3361





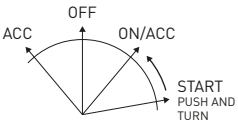
4.5



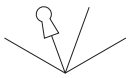
4B

REF 101MC3362





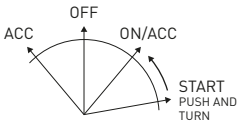
4.5



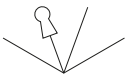
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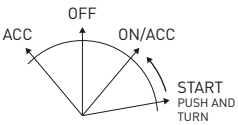
4.5



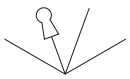
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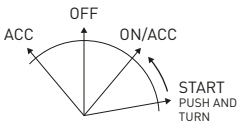
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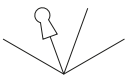
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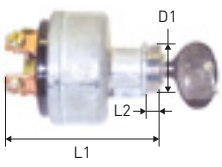


4.5



4B

REF 101MC3366

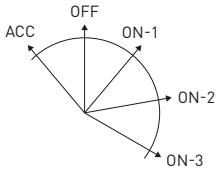


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
6	3	25	49	BE	No		100MC6116	101MC3361
6	4	15	59	B	Yes			101MC3362
6	4	22	55	B	Yes	K10	101MC1463	101MC3363
6	4	22	56	B	No	E39	101MC3338	101MC3364
6	4	22	59	B	Yes			101MC3365
6	4	22	59	B	Yes	K30	100MC6102	101MC3366

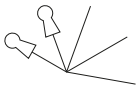
If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

KEY/IGNITION SWITCHES





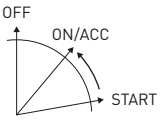
5.5



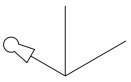
5F

REF 101MC3367





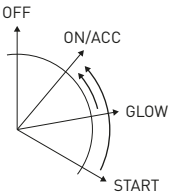
3.1



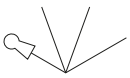
3A

REF 101MC3368





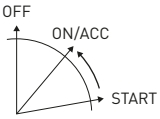
4.4



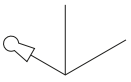
4A

REF 101MC3369





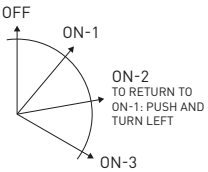
3.1



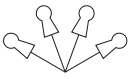
3A

REF 100MC8303





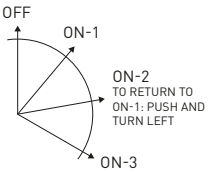
4.6



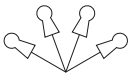
4G

REF 101MC3370



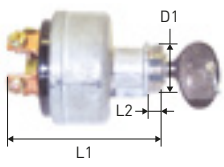


4.6



4G

REF 101MC3371

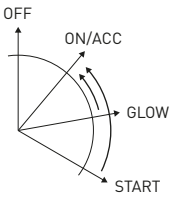


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
6	5	26	61	BC	No	14610	101MC1462	101MC3367
6	3	16	62	B	No	LUCAS	101MC1467	101MC3368
6	4	16	65	BC	No	LUCAS	101MC1467	101MC3369
6	3	26	78	BC	No	14603	101MC3340	100MC8303
7	4	26	51	E	No		101MC3341	101MC3370
7	4	26	51	BE	No		101MC3341	101MC3371

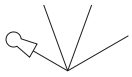
If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

KEY/IGNITION SWITCHES





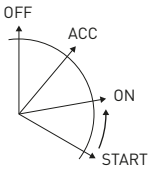
4.4



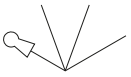
4A

REF 101MC3372





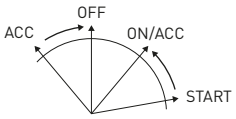
4.7



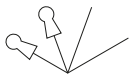
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REF 101MC3373





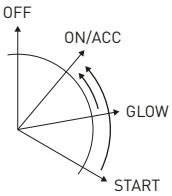
4.1



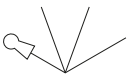
4E

REF 100MC8304





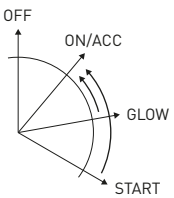
4.4



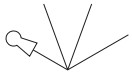
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REF 100MC8305





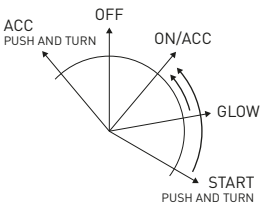
4.4



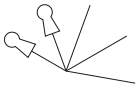
4A

REF 100MC8309



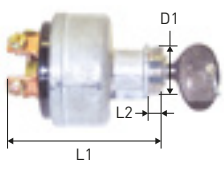


5.3



5F

REF 101MC3374

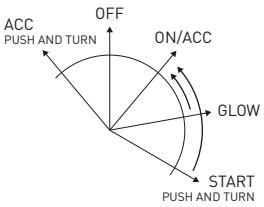


Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
7	4	16	65	BC	No	LUCAS	101MC1467	101MC3372
7	4	30	53	B	No	92274	101MC3342	101MC3373
7	4	26	78	BC	No	14603	101MC3168	100MC8304
9	4	26	82	BC	No	14607	101MC1472	100MC8305
9	4	26	78	BC	Yes	14603	101MC3340	100MC8309
10	5	22	65	B	Yes	K80	101MC1464	101MC3374

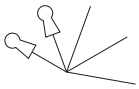
If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

KEY/IGNITION SWITCHES





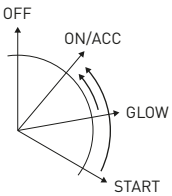
5.3



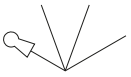
5F

REF 101MC3375





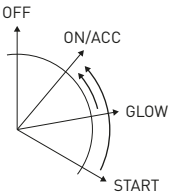
4.4



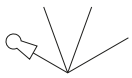
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REF 101MC3376





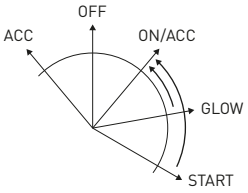
4.4



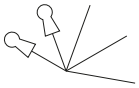
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REF 100MC8306





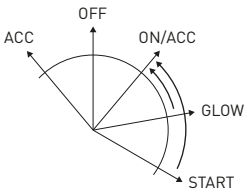
5.1



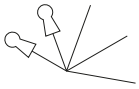
5F

REF 100MC8307





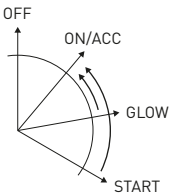
5.1



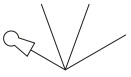
5F

REF 100MC8308



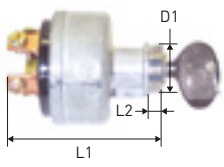


4.4



4A

REF 100MC8310



Number of connections	Number of positions	Diameter	Total length	Type of connection	Anti-restart	Key number	REF key	REF key switch
QTY-CO	QTY-POS	D1 mm	L1 mm	TY-CO	AN-RE	KEY-NR	TVH-KEY	
10	5	22	65	B	Yes			101MC3375
10	4	26	78	BC	No	14603	101MC1469	101MC3376
10	4	26	78	BC	No	14607	101MC1471	100MC8306
10	5	25	78	BC	No	14603	101MC3168	100MC8307
10	5	26	78,5	BC	No	14603	101MC3168	100MC8308
10	4	26	78	BC	Yes	14603	101MC1469	100MC8310

If key number is not mentioned, there is no reference on the key or the key switch is supplied with different key numbers.

KEYS

	Key number	Number of keys	REF
	E11	1	101MC1455
	E30	1	101MC1456
	E39	1	101MC1460
	E41	1	101MC1458
	E80	1	100MC4162
	FS880	1	101MC1468
	FS885	1	101MC1466
	K03	1	101MC1459
	K10	1	101MC1463
	K11	1	101MC1457
	K30	1	100MC6102

	Key number	Number of keys	REF
	K80	1	101MC1464
		1	101MC1467
		1	100MC6116
	U39	1	101MC3338
	14603	1	101MC1469
	14607	1	101MC1472
	14607	2	101MC1471
	14610	1	101MC1462
	14644	1	101MC1470
	92274	1	101MC1465

KEY SWITCHES

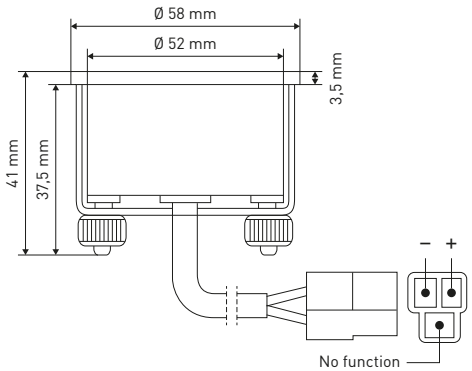


Please consult our 'Key switches' catalogue (REF 19949421) for more information.

Go to downloads on www.tvh.com to view the catalogue online.

BATTERY DISCHARGE INDICATORS



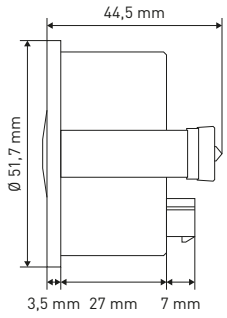


- Diameter: 52 mm
- Without lock-out

REF 100MC6166 – 12 V
REF 100MC6133 – 24 V
REF 100MC6136 – 36 V
REF 100MC6149 – 48 V
REF 100MC6148 – 72 V
REF 100MC6165 – 80 V

BATTERY DISCHARGE INDICATORS



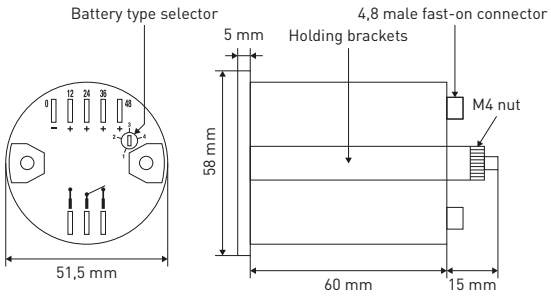


- Diameter: 52 mm
- With lock-out
- 4 wires, +/-, relay

REF 100MC6167 – 12 V
REF 100MC6134 – 24 V
REF 100MC6137 – 36 V
REF 100MC6150 – 48 V

BATTERY DISCHARGE INDICATORS/CONTROLLERS





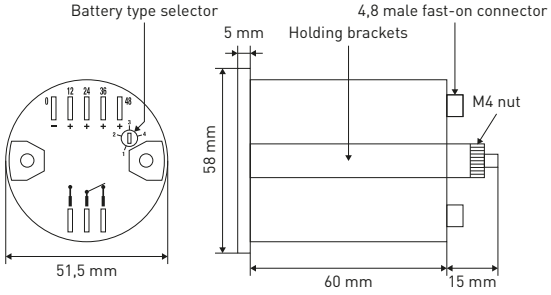
Diameter 52 mm

REF 100MC6168 – Multi-voltage without lock-out: 12–24–36–48 V
REF 100MC6135 – Multi-voltage with lock-out: 12–24–36–48 V

BATTERY DISCHARGE CONTROLLER/HOUR METER

BEST BUY



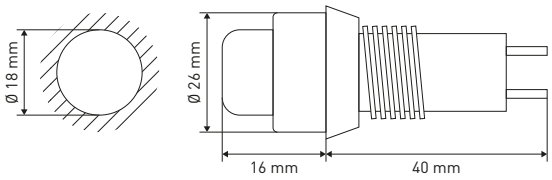


- Diameter: 52 mm
- With lock-out
- Hour meter and BDI

REF 100MC6169 – Multi-voltage: 12–24–36–48 V

BATTERY DISCHARGE INDICATORS



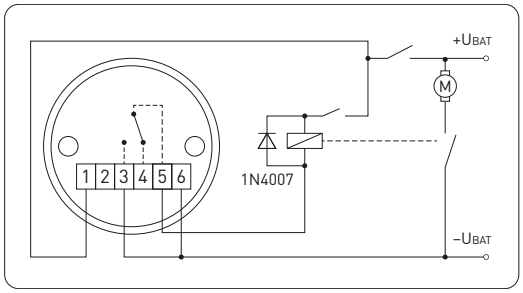


- Diameter: 18 mm
- Used for sweepers

REF 100MC6170 – 12 V
REF 100MC6138 – 24 V
REF 100MC6140 – 36 V
REF 100MC6151 – 48 V

BATTERY DISCHARGE INDICATORS/CONTROLLER



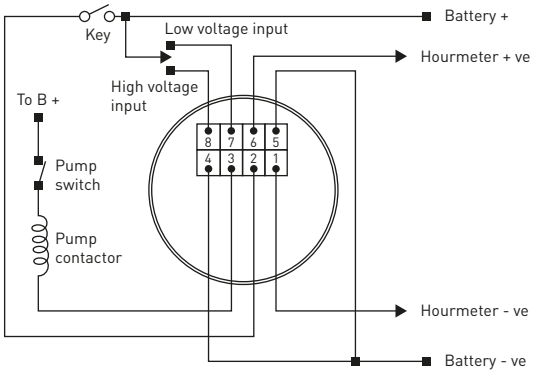


- Diameter: 52 mm
- With lock-out

REF 100MC6175 – 12 V
REF 100MC6139 – 24 V
REF 100MC6141 – 36 V
REF 100MC6152 – 40 V
REF 100MC7001 – 48 V
REF 100MC6171 – 72 V
REF 100MC6174 – 80 V

BATTERY DISCHARGE CONTROLLERS/HOUR METER





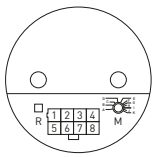
- Diameter: 52 mm
- With lock-out
- Multi-voltage: 24–80 V
- Automatic voltage detection

REF 100MC6176

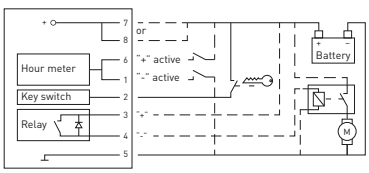
BATTERY DISCHARGE CONTROLLERS/HOUR METER

BAUSER





1 hour meter input "-"
2 from key switch "+"
3 relay contact "+"
4 relay contact "-"
5 battery "-" (GND)
6 hour meter input "+"
7 battery permanent "+"
8 battery permanent "+"
M discharge settings adjustable potentiometer



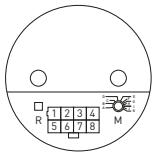
- Diameter: 52 mm
- With lock-out

REF 100MC6177 – 24 V, 8 LED
REF 100MC6158 – 24 V, 10 LED
REF 100MC6142 – 36 V, 8 LED
REF 100MC6153 – 36 V, 10 LED
REF 100MC7002 – 48 V, 8 LED
REF 100MC6172 – 48 V, 10 LED

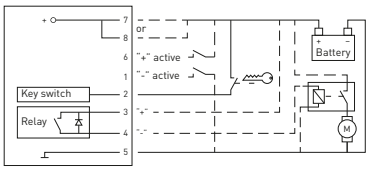
BATTERY DISCHARGE INDICATORS

BAUSER





1
2 from key switch "+"
3 relay contact "+"
4 relay contact "-"
5 battery "-" (GND)
6
7 battery permanent "+"
8 battery permanent "+"
M discharge settings adjustable potentiometer



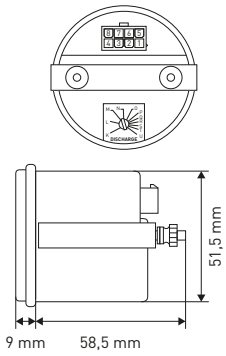
- Diameter: 52 mm
- With lock-out

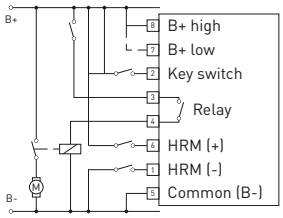
REF 100MC6178 – 12 V
REF 100MC6159 – 24 V
REF 100MC6143 – 36 V
REF 100MC6154 – 48 V

BATTERY DISCHARGE CONTROLLERS/HOUR METERS

CURTIS







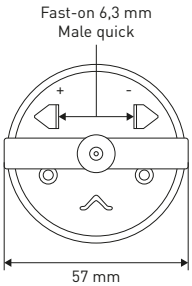
- Diameter: 52 mm
- With lock-out
- Curtis 803-series

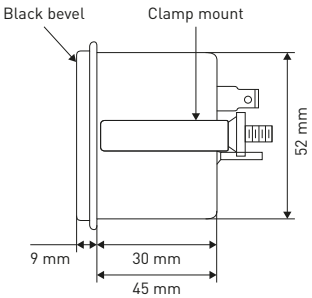
REF 100MC6179 – 12 V
REF 100MC6160 – 24 & 48 V
REF 100MC6144 – 72 & 80 V

BATTERY DISCHARGE CONTROLLERS

CURTIS







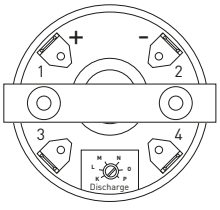
- Diameter: 52 mm
- Without lock-out
- Curtis 900-series

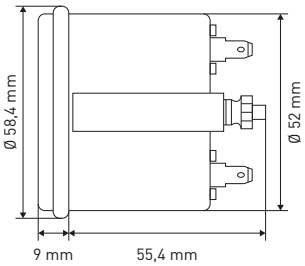
REF 100MC6180 – 12 V
REF 100MC6161 – 24 V
REF 100MC6145 – 36 V
REF 100MC6155 – 48 V
REF 100MC7003 – 72 V
REF 100MC6173 – 80 V

BATTERY DISCHARGE CONTROLLERS

CURTIS







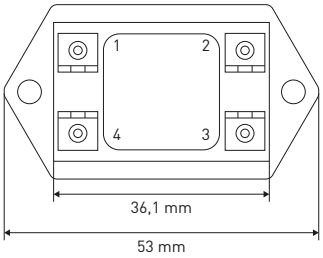
- Diameter: 52 mm
- With lock-out
- Curtis 901-series

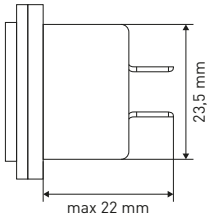
REF 100MC6181 – 24 V
REF 100MC6162 – 36 V
REF 100MC6146 – 48 V
REF 100MC6156 – 72 V
REF 100MC7004 – 80 V

BATTERY DISCHARGE INDICATORS

CURTIS







- Outer diameter: 52 mm
- With lock-out

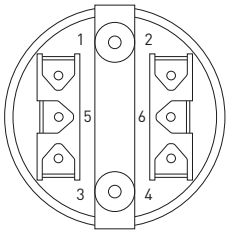
Terminals:
1. Battery +
2. Battery -
3. Memory battery (+)
4. Key switch

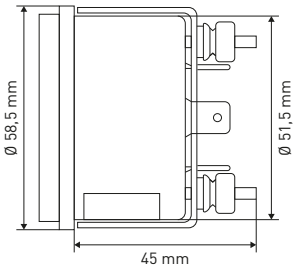
REF 100MC6182 – 12 V
REF 100MC6163 – 24 V
REF 100MC6147 – 36 V
REF 100MC6157 – 48 V

BATTERY CHARGE METERS (NO BDI)

CURTIS







- Diameter: 52 mm
- Not intended for use with battery-powered vehicles!

Terminals:
1. Not connected
2. Battery +
3. Battery ground
4. Not connected
5. Higher output
6. Lower output

REF 100MC6183 – 12 V
REF 100MC6164 – 24 V

HOUR METERS – ANALOGUE

		Voltage V	Diameter mm	REF
 		12	52	100MC6184
 	BEST BUY	12–80	52	100MC6185
 	BAUSER	10–80	52	100MC6187
 	BAUSER	10–80	52	100MC6188
 	BAUSER	10–80	52	100MC6190
 		12–24	52	100MC6192
 	COBO group	12–24	52	100MC6194

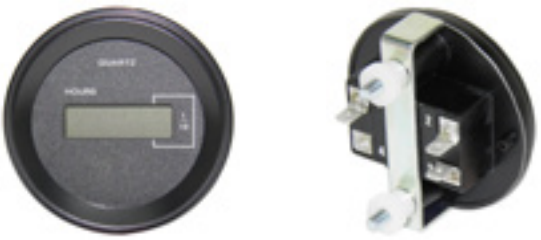
HOUR METERS – ANALOGUE

		Voltage V	Diameter mm	REF
		12–80	52	100MC6195
		24	52	100MC6196

HOUR METERS – ANALOGUE WITH POINTER

		Voltage V	Diameter mm	REF
		10–60	52	100MC6197
	BEST BUY	10–60	52	100MC6198
	BAUSER	10–80	52	100MC6199
		24–48	52	100MC6200

HOUR METERS – DIGITAL

		Voltage V	Diameter mm	REF
		9–32	52	100MC6201
	CURTIS	9–60	52	100MC6202
		10–80	52	100MC6203
	BAUSER	12–24	52	100MC6204
	BEST BUY	12–24	52	100MC6205
	CURTIS	12–45	52	100MC6206

HOUR METERS – DIGITAL

		Voltage V	Diameter mm	REF
	CURTIS	12–48	52	100MC6207
	CURTIS	12–48	52	100MC6208
		12–48	52	100MC6209
	CURTIS	12–80	52	100MC6210
		36–86	52	100MC6211

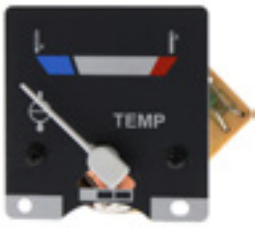
HOUR METERS – ANALOGUE SQUARE

		Voltage V	REF
	BAUSER BEST BUY	10–50	100MC6212
		10–80	100MC6213
	COBO group	12–24	100MC6214
	Honeywell	12–24	100MC6215
		12–36	100MC6216

HOUR METERS – DIGITAL SQUARE

		Voltage V	REF
 		12	100MC6217
 	CURTIS	12–48	100MC6218
 	CURTIS	12–48	100MC6219
 	CURTIS	24–48	100MC6220
 	CURTIS	12–48	100MC6221
 	CURTIS	12–60	100MC6222

TEMPERATURE GAUGES

	Voltage	Dimensions mm	REF
	12	51 x 38 x 36	100MC6242
	24	79 x 51,5	100MC6243
	12		100MC6245
	12	50 x 45 x 55	100MC6246
	12	45 x 47 x 42	100MC6247

TEMPERATURE GAUGES

	Voltage	Diameter mm	Range °C	Ohm	Remark	REF
	12	52	40–120	287,4–22,7		100MC6248
	12	52	20–140	287,4–22,7		100MC6249
	12	52	40–120	287,4–22,7		100MC6250
	12	52	40–140	287,4–22,7		100MC6251
	12	52	40–140	287,4–22,7		100MC6252
	12	52	40–120	287,4–22,7		100MC6253

TEMPERATURE GAUGES

	Voltage	Diameter mm	Range °C	Ohm	Remark	REF
	12	52	40–120	287,4–22,7		**100MC6254**
	12	52	40–120	287,4–22,7		**100MC6255**
	12	52	40–120	287,4–22,7	For sensor REF 100MC6371	**100MC6256**
	24	52	40–120	287,4–22,7		**100MC6257**
	24	52	40–120	287,4–22,7		**100MC6259**
	24	52	40–120	287,4–22,7	For sensor REF 101MC3747	**100MC6260**

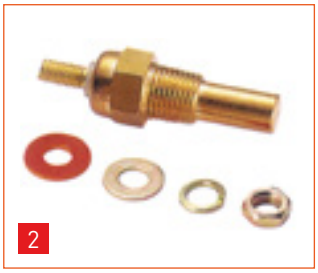
UNIVERSAL GAUGES – 12 VDC











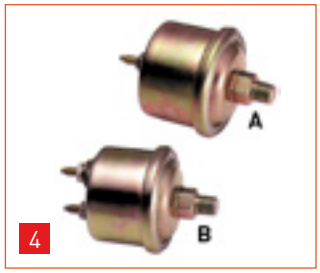
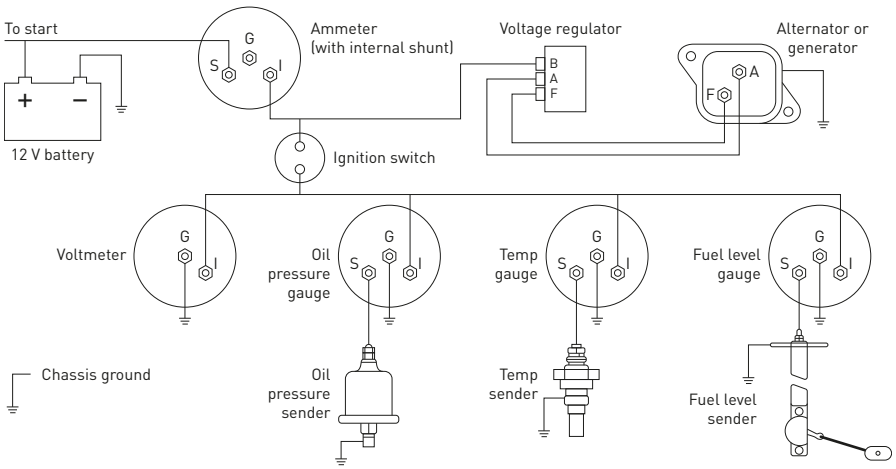






Fig		Description		REF
1	Water temperature gauge	Electrical 2 1/16", diameter: 52 mm, 90° sweep, 12 V 40 °C to 120 °C, 100 °F to 250 °F Wiring: I = ignition (+), G = ground (-), S = sensor		100MC6256
2	Temperature sender	40 °C to 120 °C, 100 °F to 250 °F, 1/8"–27 NPT		100MC6371
3	Oil pressure gauge	Electrical 2 1/16", diameter: 52 mm, 90° sweep, 12 V 0–100 psi/0–7 kg/cm² Wiring: I = ignition (+), G = ground (-), S = sensor		101MC1435
4A 4B	Pressure sender Pressure sender Voltage reducer	100 psi, 1/8"–27 NPT (1 contact) 100 psi, 1/8"–27 NPT (2 contacts) For conversion of the above 12 V gauges to 24 V system Wiring = between I and 24 VDC system		101MC1436 101MC1437 101MC1438
5	Voltage meter	Electrical 2 1/16", diameter: 52 mm, 90° sweep 12 V system, range 10–16 V		101MC1439
6	Adapter kit	**Kit contains:** **Male** 1/4"–18 NPT 3/8"–18 NPT 1/2"–14 NPT M10 x 1,0 M12 x 1,5 M12 x 1,0 M14 x 1,5 M16 x 1,5 M18 x 1,5	**Female** 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT 1/8"–27 NPT	101MC1440 101MC1441 101MC1442 101MC1443 101MC1444 101MC1445 101MC1446 101MC1447 101MC1448 101MC1449
7	Ammeter	60–0–60 A, diameter: 52 mm		101MC1450
8	Ammeter	30–0–30 A, diameter: 52 mm		101MC1451



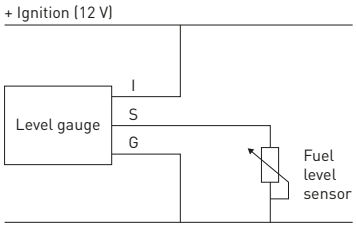
UNIVERSAL LEVEL INDICATOR SET VDC

Complete kit (gauge and fuel level sender)

REF 101MC1452

Gauge



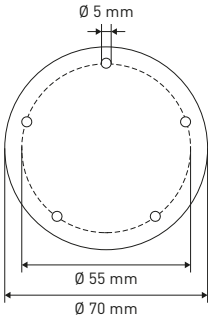


Diameter: 52 mm

REF 101MC1453

Fuel level sender





Can be adapted to any type of fuel tank

REF 101MC1454

TEMPERATURE SWITCHES AND SENSORS



Thread	Normally open/closed linear	Connection	Key width (SW)		REF
1/2" NPT			7/8"		100MC6264
1/2" NPT			24 mm		100MC6265
5/8" UNF			3/4"		100MC6266
1/2" NPT			7/8"		100MC6267
M16			22 mm		100MC6268
1/2" NPT	Normally open		15/16"		100MC6269
1/2" NPT			13 mm		100MC6270
1/8" NPT	Linear		12 mm		100MC6271
1/8" NPT			13 mm		100MC6272
			19 mm	IMPCO	100MC6273
1/2" NPT			22 mm		100MC6274
M10			12 mm		100MC6275
1/2" NPT			15/16"		100MC6276
M16	Linear		18 mm		100MC6277
M16 x 1,5			19 mm		100MC6278
M12 x 1,5			19 mm		100MC6279
M10 x 1,25		2-position connector	19 mm		100MC6280
M14 x 1,5		2-position connector	19 mm		100MC6281
M8 x 0,75			13 mm		100MC6282
1/8" NPT	Linear NTC		12 mm		100MC6283
3/8" NPT	Linear NTS		19 mm		100MC6284
1/4" NPT 18G			16 mm		100MC6285
3/8" NPT 18G			19 mm		100MC6286
3/4" NPT		2-position connector	1"		100MC6287
5/8" UNF			19 mm		100MC6288
1/8" NPT		2-position connector	17 mm		100MC6289
1/4" NPT	Normally closed open at 120 °C		7/8"		100MC6290
5/8" UNF	Normally closed open at 98 °C		19 mm		100MC6291
M18 x 1,5	Normally open closed at 105 °C		22 mm		100MC6292
3/16" UNF			19 mm		100MC6293
	Linair		5/8"		100MC6294
3/8" NPT	Normally closed open at 37 °C		22 mm		100MC6295
M14 x 1,5	Normally open closed at 105 °C		22 mm		100MC6296
1/2" NPT	Normally closed open at 90 °C		22 mm		100MC6297
3/8" NPT	Open at 37–43 °C Closed at 27–33 °C		7/8"		100MC6298
M12 x 1,5	Linear NTC	2-position connector	19 mm		100MC6299
M12 x 1,5	Linear NTC	2-position connector	19 mm		100MC6300
M18 x 1,5		Cable 2 contacts	22 mm		100MC6301
No thread	Linear NTC	1 contact	No thread		100MC6302
M12 x 1,25	Linear NTC		12 mm		100MC6303
M16 x 1,5	Linear NTC	2-position connector	12 mm		100MC6304

TEMPERATURE SWITCHES AND SENSORS

Thread	Normally open/closed linear	Connection	Key width (SW)		REF
M16 x 1,5	Linear NTC		17 mm		100MC6305
M16 x 1,5			17 mm		100MC6306
M12 x 1,5		2-position connector	19 mm		100MC6307
M12 x 1,5	Linear NTC	2-position connector	19 mm		100MC6308
M16 x 1,5	Linear NTC		17 mm		100MC6309
M16 x 1,5		Round connector with 1 blade	7/8"		100MC6310
1/2" NPT	Linear		32 mm		100MC6311
M16 x 1,5	Normally open 11° C	2 contacts	22 mm		100MC6312
M16 x 1,5		1 contact	17 mm		100MC6313
1/2" NPT		1 screw contact	7/8"		100MC6314
M16 x 1,5		1 contact	17 mm		100MC6315
3/8" BSP	Linear PTC	1 contact on wire	17 mm		100MC6316
M16 x 1,5	Linear NTC		17 mm		100MC6317
9/16" UNF		2-pin connector	21 mm		100MC6318
M14 x 1,5		2-pin connector	21 mm		100MC6319
9/16" UNF	Linear NTC	2-pin connector	32 mm		100MC6320
M14 x 1,5		2-pin connector	19 mm		100MC6321
M14 x 1,5			19 mm		100MC6322
M14 x 1,5	Linear NTC		19 mm		100MC6323
1/2" NPT	Normally closed open at 105 °C		7/8"		100MC6324
3/8" BSP	Open at 57–63 °C Closed at 47–53 °C		22 mm		100MC6325
M22 x 1,5	Linear NTC		29 mm		100MC6326
M18 x 1,5	Normally closed open at 74–82 °C		22 mm		100MC6327
M16 x 1,5		2-pin connector	21 mm		100MC6328
M16 x 1,5		1 tab	21 mm		100MC6329
M12 x 1,5	Linear NTC	2-pin connector	19 mm		100MC6330
M16 x 1,5	Linear NTC	2-pin connector	17 mm		100MC6331
M16 x 1,5			17 mm		100MC6332
M16 x 1,5			19 mm		100MC6333
M16 x 1,5	110 °C		19 mm		100MC6334
M14 x 1,5	115 °C		19 mm		100MC6335
M14 x 1,5	150 °C		19 mm		100MC6336
M14 x 1,5	150 °C		19 mm		100MC6337
M14 x 1,5	Normally closed open at 98 °C	2-pin connector	19 mm		100MC6338
M14 x 1,5	120 °C		19 mm		100MC6339
1/2" NPT	103 °C		22 mm		100MC6340
M14 x 1,5	Normally open closed at 125 °C	2-pin connector	19 mm		100MC6341
M22 x 1,5	Normally open closed at 125 °C	3-pin connector	29 mm		100MC6342
M12 x 1,5	Double Normally open 1st closed at 77–87 °C 2nd closed at 82–92 °C		19 mm		100MC6343
M12 x 1,5	Linear PTC	2-pin connector	19 mm		100MC6344
No thread	Normally open closed at 110 °C	2-pin connector	No thread		100MC6345
No thread	Linear NTC	2-pin connector	No thread		100MC6346
No thread	Linear NTC	4-pin connector	No thread		100MC6347
No thread		2-pin connector	No thread		100MC6348
M10 x 1		2-pin connector	17 mm		100MC6349
M18 x 1,5	Linear NTC	2-pin connector	29 mm		100MC6350
M14 x 1,5	C	2-pin connector	29 mm		100MC6351
M18 x 1,5	Linear PTC	2-pin connector	22 mm		100MC6352
9/16" UNF	63 °C	4-pin connector	32 mm		100MC6353
M12 x 1,5	Normally open closed at 38 °C		19 mm		100MC6354
M12 x 1,5	90 °C	2-pin connector	19 mm		100MC6355
M10 x 1,5	Linear NTC	2-pin connector with cable	29 mm		100MC6356
9/16" UNF	148°C		22 mm		100MC6357
M16 x 1,5	Linear NTC	1 tab with cable	22 mm		100MC6358

TEMPERATURE SWITCHES AND SENSORS

Thread	Normally open/closed linear	Connection	Key width (SW)		REF
9/16" UNF		2-pin connector	22 mm		100MC6359
M18 x 1,5	Normally closed open at 99 °C	2-pin connector	27 mm		100MC6360
3/8" gas	Normally closed open at 15 °C	2-pin connector	29 mm		100MC6361
3/8" BSP	Normally open closed at 72 °C	2-pin connector	21 mm		100MC6362
M16 x 1,5		1 screw contact	22 mm		100MC6363
3/8" BSP	Linear NTC	1 tab	22 mm		100MC6364
M16 x 1,5	Linear NTC	1 screw contact	22 mm		100MC6365
M11 x 1,5	Linear NTC	2-pin connector	19 mm		100MC6366
1/4" NPT		2-pin connector	No thread		100MC6367
M22 x 1,5	82 °C		29 mm		100MC6368
M16 x 1,5		2-pin connector	19 mm		100MC6369
M10 x 1	120 °C	1 contact	19 mm		100MC6370
1/8" NPT	120 °C	1 screw contact	15/32"		100MC6371
M14 x 1,5	150 °C		19 mm		100MC6372
M14 x 1,5	120 °C		19 mm		100MC6373
M14 x 1,5	150 °C		19 mm		100MC6374
M14 x 1,5		2-pin connector	19 mm		100MC6375
1/2" NPT		1 screw contact	7/8"		100MC6376
M14 x 1,5	150 °C		3/4"		100MC6377
1/8" NPT			15/32"		100MC6378

TOGGLE SWITCHES

	Positions	Number of contacts	Voltage V	Current A	REF
	3 ON-OFF-ON Hold position: OFF	3 Screw-on	250 VAC	10	100MC6379
	3 ON-OFF-ON Hold position: OFF	3 Quick connect	28 VDC 250 VAC	12 6	100MC6380
	3 ON-OFF-ON Hold position: OFF	6 Quick connect	125 VAC 250 VAC	12 10	100MC6381
	3 ON-OFF-ON Hold position: OFF	6 Quick connect	125 VAC 250 VAC	12 10	100MC6382
	3 ON-OFF-ON Hold position: OFF	3 Quick connect	125 VAC 250 VAC	12 10	100MC6383

PULL SWITCHES

	Type of connection	Number of connections	Number of positions	Total length of the pull switch (with actuator)	Built-in diameter	REF
	Blade 6,3 mm	2	2	59,7	8	100MC6227
	Wire with connector	1	2	87	10	100MC6228
	Wire with connector	1	3	80	10	100MC6229
	Wire with connector	1	3	88,5	10	100MC6230
	Wire with connector	1	4	93	10	100MC6231

ROTARY SWITCHES

	Number of connections	Length mm	Positions	REF
	5	49,5	4	100MC6232
	2	30	2	100MC6235
	5	30	3	100MC6236

ROTARY SWITCH



2 functions:

- 2 momentary positions + neutral (forward–neutral–reverse)
- Gear shifting

REF 100MC6234

MUSHROOM HEAD PUSH BUTTONS COMPLETE

	Voltage V	Ampere A	Diameter mm	REF
	250 AC	6	30	100MC7005
	250	6(4)	28	100MC6223
	400	10(6)	22	100MC6224
	400	10(6)	22	100MC6225
	600	10	22	100MC6226

EMERGENCY STOP SWITCHES – SINGLE-POLE

		Current A	Voltage V	Max height in OFF mm	Max height in ON mm	REF
		125	24	150	155	100MC6410
		125	24	150	155	100MC6411
		125	24	164	171	100MC6412
		125	48	92	96	100MC6413
		125	48	100	107	100MC6414
		125	48	109	121	100MC6415

EMERGENCY STOP SWITCHES – SINGLE-POLE

		Current A	Voltage V	Max height in OFF mm	Max height in ON mm	REF
	Albright International	125	48	117	123	100MC6416
		125	100	79	91	100MC6417
		125	100	111	123	100MC6418
	Albright International	250	24	147	153	100MC6419
	Albright International	250	24	168	174	100MC6420
		250	48	114	125	100MC6421

EMERGENCY STOP SWITCHES – SINGLE-POLE

		Current A	Voltage V	Max height in OFF mm	Max height in ON mm	REF
	Albright INTERNATIONAL	250	48	136	141	100MC6422
	REMA	190		120	132	100MC6423
	REMA	190		120	132	100MC6424
	REMA	300	48	103	115	100MC6425

High capacity

EMERGENCY STOP BUTTONS



Dimensions: 79 x 104 x 36 mm

REF 100MC6407



Dimensions: 50 x 64 x 23 mm

REF 100MC6408



- Diameter: 51 mm
- Height: 38 mm

REF 100MC6409

BATTERY DISCONNECT SWITCHES



- 1-pole switches to disconnect battery and field circuit
- Large studs: 125 A continuous 1000 A (5 sec)
- Small studs: 20 A continuous
- Fits panels up to thickness of 23 mm

REF 100MC6392



- 150 A – 1000 A (5 sec)
- 1-pole (2 connections)

REF 100MC6393



- 50 A – 500 A (5 sec)
- 1-pole (2 connections)

REF 100MC6394

WARNING LIGHTS



Warning light with pre-fitted 24 V bulb (REF 100MC6384)

REF 100MC6237



- Colour: white
- Voltage: 24 V
- Bulb used for REF 100MC6237

REF 100MC6384



REF 100MC6238 – LED block red, 12 V
REF 100MC6239 – LED block red, 24 V

BULBS DASHBOARD

	Voltage V	Colour	Built-in diameter mm	REF
	12–24	Red	16	**100MC6385**
	12–24	Green	16	**100MC6386**
	250	Red	22	**100MC6387**
	12	Red	Used for Genie	**100MC6388**

AUTOMOTIVE RELAYS

	Voltage	Amperage	REF
	12	40	101MC1404
	24	20	101MC1405
	12	70	101MC1406
	24	70	101MC1407
	12	40/30	101MC1408
	24	40/30	101MC1409
	48	50/40	101MC1410

RELAY MOUNTING BRACKETS

	Connections	Details	Dimensions mm	REF
	5 x 6,3 mm blade to PCB			100MC6395
	5 x 6,3 mm blade		36 x 33 x 36	100MC6396
	11-connections socket	Max 10 A 300 VAC		100MC6397
	**9 blade connections:** · 5 x 6,3 mm · 4 x 2,8 mm		35 x 24 x 29,5	100MC6398
	**9 blade connections:** · 3 x 9,5 mm · 2 x 6,3 mm · 4 x 2,8 mm		38 x 33 x 45	100MC6399
	5 x 4,8 mm blade	Max 10 A 250 VAC	75 x 26,5 x 16	100MC6400

RELAY MOUNTING BRACKETS

	Connections	Details	Dimensions mm	REF
	8 x 2,5 mm blade	Max 5 A 250 VAC	91 x 61 x 15,5	100MC6401
	8 x 4,8 mm blade	Max 10 A 300 VAC		100MC6402
	11 x 4,8 mm blade	Max 15 A 800 VAC		100MC6403
	**5 blade connections:** · 3 x 4,8 mm · 2 x 2,5 mm	Max 10 A 250 VAC		100MC6404
	11-connections socket	Max 10 A 300 VAC	60 x 59 x 23	100MC6405
	11-connections socket	Max 12 A 300 VAC	38 x 65 x 27	100MC6406

FUSE KITS – CFB-SERIES



- Fuse: 50 A
- Red nut
- Bolts: M6/M8
- Crimping terminals: Ø M10 for wire section 4–6 mm²

REF 100MC6427



- Fuse: 50 A
- Black nut
- Bolts: M6/M8
- Crimping terminals: Ø M10 for wire section 0,5–1 mm² and 4–6 mm²

REF 100MC6428



- Fuse: 150 A
- Bolts: M6/M8
- Heat-shrink tubing: 3/4" – 6 mm

REF 100MC6429



- Fuse: 150 A
- Red nut
- Bolts: M6/M8
- Cable lugs Ø 6, Ø 8, Ø 10 mm for wire section battery cable 25 mm²
- Heat-shrink tubing: 3/4" – 6 mm

REF 100MC6430

FUSE KITS – CFB-SERIES



- Fuse: 150 A
- Black nut
- Black cable tie
- Bolts: M6/M8
- Cable lugs: Ø 6, Ø 8, Ø 10 mm for wire section 50 mm²

REF 100MC6431



- Fuse: 200 A
- Bolt: M8
- Cable lug: Ø 10 mm for wire section battery cable 35 mm²

REF 100MC6433

FUSE HOLDERS



For standard DIN 72581/2 strip fuses small

REF 100MC6441



For MIDIVAL/BF1 and STANDARD DIN 72581/2 strip fuses

REF 100MC6443



For 1 mega/B2 and 2 MIDIVAL/BF1 fuses

REF 100MC6452



For 1 mega/BF2 and 3 MIDIVAL/BF1 fuses

REF 100MC6445



For medium ATO fuses

REF 100MC6442



For medium ATO fuses

REF 100MC6437



For medium ATO fuses

REF 100MC6448



For medium ATO fuses

REF 100MC6436

FUSE HOLDERS



For medium ATO fuses

REF 100MC6446



For medium ATO fuses

REF 100MC6451



For medium ATO fuses

REF 100MC6435



For MAXIVAL fuses

REF 100MC6450



For MAXIVAL fuses

REF 100MC6444



With 120, 60, 120 A fuses included

REF 100MC6438



With 100, 60, 120 A fuses included

REF 100MC6439



With 80, 120 A fuses included

REF 100MC6440

BUZZERS



Built-in diameter	Rated voltage	Current	Number of terminals	Terminal type	Sound pressure level at 30 cm		REF
mm	V	DC/AC			Min dB	Max dB	
Tone: intermittent beep tone							
28	12	DC	2	Screw	88		100MC6458
32	12–48	DC	2	Screw	80		100MC6469
32	48–80	DC/AC	2	Screw	80	95	100MC6473
Tone: continuous							
28	12	DC	3	Screw	87		100MC6457
29	12	DC	2	Screw	68	93	100MC8430
29	24	DC	3	Screw	85	97	100MC6470
32	24	DC	2	Screw	68		100MC6468

BUZZERS



Tone	Built-in diameter	Rated voltage	Current	Number of terminals	Terminal type	Sound pressure level at 30 cm		REF
	mm	V	DC/AC			Min dB	Max dB	
Continuous	28	12	DC	2	Faston 6,3 mm	95	108	100MC6460
Intermittent beep tone	28	12	DC	2	Faston 6,3 mm	85		100MC6454
Intermittent beep tone	29	12	DC	2	Faston 6,3 mm	85	103	100MC6456
Intermittent beep tone	29	12	DC	2	Faston 6,3 mm	70	80	100MC6462
Intermittent beep tone	29	12	DC	2	Faston 6,3 mm	85		100MC8432
Intermittent chime tone	29	12	DC	2	Faston 6,3 mm	70	93	100MC6455
Continuous/fast pulse	28	6–28	DC	3	Faston 6,3 mm	80		100MC6475
Continuous/intermittent	29	12	DC	3	Faston 6,3 mm	63	85	100MC6453
Continuous/intermittent	29	12	DC	3	Faston 6,3 mm	85	95	100MC8435
Continuous/intermittent	30	12	DC	3	Faston 6,3 mm	85	100	100MC6464

BUZZERS



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Fig	Tone	Built-in diameter mm	Rated voltage V	Current DC/AC	Number of terminals	Terminal type	Sound pressure level dB	REF
1	Continuous	18	24	DC	2	Wires	95	100MC8429
2	Intermittent beep tone	16	24	DC/AC	2	Screw	75	100MC8431
3	Continuous/intermittent	16	12–24	DC	2	Pin	88	100MC8433
4	Continuous/intermittent	28	12	DC	3	Wires with connector	80	100MC8434

BACK-UP ALARMS



Voltage	Volume dB	Diameter mm	Width mm	Tone	REF
12	110	60	45,8	Slow pulse	100MC6480
12	110	60	47	Continuous	100MC6483
24	110	60	45,8	Slow pulse	100MC6534
48	110	60	46	Slow pulse	100MC6540

BACK-UP ALARMS

SAFE-T-ALERT®



Voltage	Volume dB	Diameter mm	Width mm	Height mm	Tone	Connection	REF
12–24	85	60	38	75	Fast pulse	Wires	100MC6490
12	92	60	38	75	Slow pulse	Wires	100MC6478
12–24	102	60	41,3	100	Slow pulse	Wires	100MC6513
12–48	97	60	41,3	100	Slow pulse	Studs	100MC6524
12–24	102	60	41,3	100	Slow pulse	Studs	100MC6512

BACK-UP ALARMS

SAFE-T-ALERT



Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	REF
12–24	87	101,5	41,5	69,2	Slow pulse	100MC6497
12–80	87	101,6	41,3	69	Slow pulse	100MC6527
12–24	97	101,5	41,3	69	Slow pulse	100MC6501
12–80	97	101,5	41,3	69,4	Slow pulse	100MC6531
12–24	102	102	41,2	70	Slow pulse	100MC6509
12–24	107	101,2	51	82,4	Slow pulse	100MC6514
12–48	77–97	101,5	41,7	69,1	Slow pulse	100MC6520
12–24	77–102	101	41	69	Slow pulse	100MC6485*

BACK-UP ALARMS

SAFE-T-ALERT



Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	REF
12–24	87	101,5	41	69,2	Slow pulse	100MC6496
12–80	87	101,6	41,3	69	Slow pulse	100MC6526
12–48	97	101,6	41,5	69	Slow pulse	100MC6523
12–80	97	101,5	41,3	69,4	Slow pulse	100MC6530
12–24	102	101,5	41,3	69,3	Slow pulse	100MC6508
12–48	77–97	101,5	41,2	69,3	Slow pulse	100MC6519*
12–24	77–102	101,5	41,3	69	Slow pulse	100MC6487*

* Adjust automatically (± 5 dB above ambient noise)

BACK-UP ALARMS

BEST BUY



Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	REF
12–24	97	102,5	41,3	68	Slow pulse	100MC6503
12–24	102	102,3	41,3	68	Slow pulse	100MC6510

BACK-UP ALARMS

SAFE-T-ALERT®



Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	Connection	REF
12–24	97	127	76	70	Slow pulse	Studs	100MC6505*
12–24	107	127	76	70	Slow pulse	Studs	100MC6515*
12–24	112	127,2	101,6	79	Slow pulse	Studs	100MC6517*

BACK-UP ALARMS

SAFE-T-ALERT®



Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	Connection	REF
12–48	82–102	127	76	70	Slow pulse	Studs	100MC6521
24–48	82–102	127	76	70	Slow pulse	Wired	100MC6535
12–24	87–112	127,2	101,6	79	Slow pulse	Studs	100MC6495
12–24	97–107	127,3	101,6	79	Slow pulse	Studs	100MC6506
12–24	97–112	127	101	78	Slow pulse	Studs	100MC6507

* Adjust automatically (± 5 dB above ambient noise)

BACK-UP ALARMS BBS TEK®



White noise sound

Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	REF
12–24	82	105	32	65	Slow pulse	100MC6489
36–80	82	127,5	65	76,5	Slow pulse	100MC6536
12–24	87	91,5	45	55	Slow pulse	100MC6491
36–80	87	127,5	65	76	Slow pulse	100MC6537
12–24	92	105	32	65	Slow pulse	100MC6499
12–24	97	105	37	65	Slow pulse	100MC6504
36–80	97	127,5	65	76	Slow pulse	100MC6539
12–24	102	174,5	97	80	Slow pulse	100MC6511
12–24	107	174,5	97	80	Slow pulse	100MC6516
12–24	78–90	91	40,5	49	Slow pulse	100MC6488*
12–24	77–97	127,5	65	76	Slow pulse	100MC6484*
12–24	87–107	174,5	97	80	Slow pulse	100MC6494*

NIGHTSHIFT REVERSING BLEEPER



Featuring NIGHTSHIFT™ technology, our built-in double-engage override allows you to reverse in built-up areas during night hours (11.30 pm – 7.00 am) without disturbing local residents or breaking the law. Simply double-engage reverse gear quickly (within 1 second) and the back-up alarm will not sound.

- CE-certified (EMC)
- E-certified (EMC)
- Solid-state, spark-free electronics, epoxy-sealed against mud, water and vibration
- Clearly audible under typical working conditions
- Tough, durable, guaranteed waterproof (IP67) – can be steam-cleaned and pressure-hosed

Voltage	Volume dB	Length mm	Width mm	Height mm	Tone	REF
12–24	90–78	91	40,5	49	Slow pulse	100MC6488

* Adjust automatically (± 5 dB above ambient noise)

CURVED TRUMPET HORNS

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Fig	Voltage	Volume dB	Horn diameter mm	Tone height	Type of bracket	Number of connections	REF
1	12	112	85	Low	Straight bracket	1	100MC6541
	24	112	85	Low	Straight bracket	1	100MC6542
	12	112	94	Low	2 x straight bracket	2	100MC6543
	24	112	94	Low	Straight bracket	2	100MC6544
2	12	112	85	High	Straight bracket	1	100MC6545
	24	112	85	High	Straight bracket	1	100MC6546
	12	112	85	High	Straight bracket	2	100MC6547
	24	112	94	High	Straight bracket	2	100MC6548

DISC HORNS



Voltage	Volume dB	Horn diameter mm	Tone height	Type of bracket	Number of connections	REF
12	105	71	Low	Straight bracket	2	100MC6549
12	105	71	High	Straight bracket	2	100MC6550
24	105	71	High	Straight bracket	2	100MC6557

DISC HORNS

BEST BUY





Voltage	Volume dB	Horn diameter mm	Tone height	Type of bracket	Number of connections	REF
12	112	90	Low	Straight bracket	1	100MC6555
24	112	90	Low	Straight bracket	1	100MC6563
12	114	90	Low	Straight bracket	2	100MC6556
24	112	90	Low	Straight bracket	2	100MC6562
36–48	112	91	Low	Straight bracket	2	100MC6564
36–48	112	91	Low	Straight bracket	2	100MC6565
80	114	90	Low	Straight bracket	2	100MC6570
12	105	90	High	Straight bracket	2	100MC6551
24	105	90	High	Straight bracket	2	100MC6552
24	110	90	High	L-bracket	2	100MC6559
24	110	91	High	L-bracket	2	100MC6560
24	110	91	High	L-bracket	2	100MC6561
24–48	110	92	High	Straight bracket	2	100MC6571
36–48	114	90	High	Straight bracket	2	100MC6567
80	112	91	High	Straight bracket	2	100MC6569
12	110	90	High	Straight bracket	3	100MC6553

ELECTRIC HORNS



Voltage	Volume dB	Horn diameter mm	Tone height	Type of bracket	Number of connections	REF
24	110	90	High	L-bracket	3	100MC6574
36–48	112	90	High	Straight bracket	3	100MC6566

ELECTRIC HORNS



Voltage	Volume dB	Horn diameter mm	Tone height	Type of bracket	Number of connections	REF
12	120	125	High	Straight bracket & L-bracket	2	100MC6577
24	120	125	High	Straight bracket & L-bracket	2	100MC6578
36–48	120	125	High	Straight bracket & L-bracket	2	100MC6579

ELECTRIC HORNS


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Fig	Voltage	Volume dB	Dimensions mm	Tone height	REF
1	12–48	107	117 x 57 x 119	Low	100MC6573
2	12–48	107	100,8 x 50,8 x 81,7	Low	100MC6575
3	12–48	107	126 x 76 x 69	Low	100MC6576

DISC HORNS



Voltage	Volume dB	Horn diameter mm	Tone height	Type of bracket	Number of connections	REF
12	110	108	High	Straight bracket & L-bracket	2	100MC6554
24	110	109	High	Straight bracket & L-bracket	2	100MC6558
36–48	110	110	High	Straight bracket & L-bracket	2	100MC6580
72–80	110	110	High	Straight bracket & L-bracket	2	100MC6581

PNEUMATIC HORNS

	Voltage	Volume dB	Horn diameter mm	Dimensions mm	Tone height	REF
	12	117	76	216 x 61 x 122	High & low	100MC6585
	24	117	75,6	215 x 122 x 61	High & low	100MC6586
	24	117	81	408 x 95 x 165	High & low	100MC6587

MANUAL PNEUMATIC HORN

	Volume dB	Horn diameter mm	Dimensions mm	Tone height	REF
	105	66	191 x 108 x 57	High & low	100MC6584

FOOT-OPERATED PNEUMATIC HORN

	Volume dB	Dimensions mm	Tone height	REF
	108	190 x 114 x 57	High & low	100MC6582

MANUAL HORN

	Dimensions mm	Tone height	REF
	273 x 18 x 45	High & low	100MC6583

PROFESSIONAL WIRELESS CAMERA SYSTEM

liftCam™ SAFETY AT YOUR WORK



Heavy-duty

Included:

- 7" heavy-duty monitor
- 30–35 hours battery pack
- Wireless infrared camera
- Battery charger

Recommended optional items:



Extra 16 hours battery pack

REF 100MC8528

Extra 32 hours battery pack

REF 101MC3801



Spare camera

REF 100MC8531

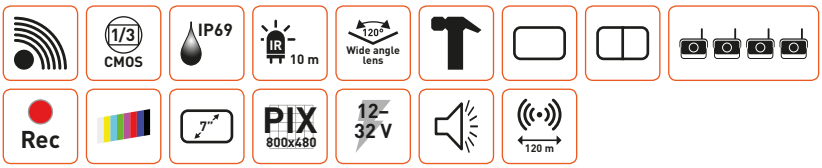
Professional wireless camera system

As successor to the previous "liftCam" model, the new "liftCam Pro" is one of the most complete, easy-to-install wireless camera systems on the market. With a 35-hour battery pack, a recording function and an improved design, this premium camera system is the most recommended camera system for your machine.

Features:

- 7" heavy-duty monitor
- Modern, improved monitor
- Recording function (up to 220 hours with an SD card, not included)
- 30–35 hours battery life
- Easy installation

REF 100MC6588



COMPACT WIRELESS CAMERA SYSTEM



Included:

- 5,6" monitor with touch menu
- 10–15 hours battery pack
- Wireless infrared camera
- Battery charger

Recommended optional items:



Extra battery pack

REF 100MC7353



Spare camera

REF 100MC8532



Angled mounting bracket

REF 100MC8534

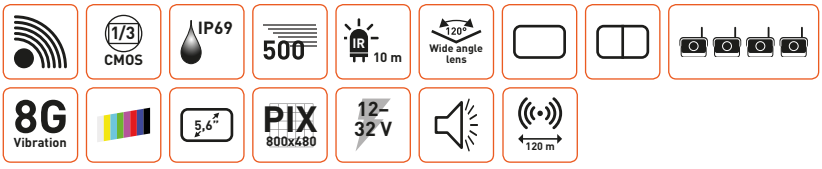
Compact wireless camera system

Do you want a wireless camera system, but there's almost no more room in the cabine? TVH offers a 5,6" wireless camera system with a top quality camera and a modern, ready-to-use monitor.

Features:

- 5,6" monitor with touch menu
- Multiple languages: French, Dutch, English, Spanish, Russian, German, Italian
- Normal or mirror view possible
- Separate trigger cable per camera
- 10–15 hours battery life
- No more broken buttons
- Modern, ready-to-use monitor

REF 100MC6589



WIRED CAMERA SET

BEST BUY

TOTAL SOURCE ELECTRONIC ACCESSORIES





Included:

- 7" monitor
- Wired infrared camera
- 10 m cable

Recommended optional items:



Spare camera

REF 100MC8529



10 m cable

REF 100MC8533



Angled mounting bracket

REF 100MC8534

Wired camera set

This standard camera set gives you the best buy in our range.
The single-view 7" monitor with an IP69 camera and 10 m cable is suitable for anyone who is looking for a rear-view camera system.

Features:

- Multiple languages: English, Dutch, French, Spanish, Russian, German, Italian
- Normal or mirror view possible
- Separate trigger cable per camera
- 7" single-view monitor
- Best buy wired camera system

REF 100MC6590



LIFTLOG 100+



Included:

- Head unit, bracket and mounting kit
- Junction box assembly
- Pressure sensor and cable
- Pressure hoses, hardware kit and spanners

The Liftlog 100+ is a cost-effective weighing and load-monitoring instrument specifically designed for forklift trucks, that displays the weight and calculates loading totals. It also features visual and audible overload warning.

Features:

- Accuracy ± 2%
- LCD indicates 'calculated' weight with a bar graph of load status
- Total channel displays sum of all entered load weights
- Initial audible alarm at 90% of permitted load with continuous audible alarm and flashing display at and in excess of 100%
- Overload logging capability
- Quick and easy installation and unique bracket enables installation of the instrument in any position
- Proven technology in a robust waterproof enclosure sealed to IP67

REF 100MC6591

USB CONNECTORS



1



2



3

Fig	Rating	Insulation resistance	Dielectric strength	Operating temperature	REF
1	Input: 12/24 VDC Output: 2 x USB socket – 5 V ± 5% 2,1 A DC	DC 500 V 100 MΩ min	AC 1500 V 1 minute	–25 °C up to 60 °C	100MC6592
2	Input: 12/24 VDC Output: 2 x USB socket – 5 V ± 5% 2,1 A DC	DC 500 V 100 MΩ min	AC 1500 V 1 minute	–25 °C up to 60 °C	100MC6593
3	Input: 12/24 VDC Output: 2 x USB socket – 5 V ± 5% 2,1 A DC	DC 500 V 100 MΩ min	AC 1500 V 1 minute	–25 °C up to 60 °C	100MC6594

FLATSCREEN CLEANER



CRC

Safe cleaning of all types of flat screens:

- Stable foam formulation
- Quickly eliminates various contaminants
- NSF registered: K2
- Content: 500 ml

REF 100MC9490

FLASHER UNITS – TECHNICAL SHEET

Group	Example	Customer details
02-04-02-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY-RE	Type of relay. See types
U	Tension (Volt)
BG	Bracket (yes/no). Any possibility to mount a bracket: yes
W	Capacity information
CM	Indicator speed
AT-AS	Total number of connections
AT-B1	Number of connections type blade 2,8 mm
AT-B2	Number of connections type blade 4,8 mm
AT-B3	Number of connections type blade 6,3 mm
AT-B4	Number of connections type blade 8 mm
AT-B5	Number of connections type blade 9,5 mm
AT-PR	Number of connections print mounting
AT-SC	Number of bolt-on connections
AT-SL	Number of soldering connections
AT-SO	Number of sockets
OPM	Remark

FLASHER UNITS – TECHNICAL SHEET

TYPES OF INDICATOR RELAYS

Type A
Beam-shaped



Type B
Cylindrical-shaped



TYPES OF CONNECTIONS

Blade connection



Print mounting



Bolt-on connection



Soldering connection



Socket connection



FLASHER UNITS – BEAM-SHAPED

		Specification on part	Voltage V	Bracket	Total number of connections	REF
	BRAND: MITSUBISHI	20mA – 7A	12	No	2	100MC6595
		100W	12	No	3	100MC6596
	BRAND: DAEWOO–DOOSAN		12	No	3	100MC6597
		2(4)x21W+ 0...4W	12	No	3	100MC6598
	BRAND: MANITOU	42/46W	12	No	4	100MC6599
		2(4)x21W+ 0...4W	12	No	4	100MC6600
	BRAND: LINDE	42/92W	12	No	4	100MC6601
	BRAND: LINDE	2+1(6)x21W+ (1)0...4W	12	No	4	100MC6602

FLASHER UNITS – BEAM-SHAPED

		Specification on part	Voltage V	Bracket	Total number of connections	REF
	BRAND: MANITOU	2+1(6)x21W+ (1)0...4W	12	No	5	100MC6603
	BRAND: GENIE		12	No	6	100MC6604
	BRAND: LINDE		12	No	9	100MC6605
	BRAND: CLARK	85 ±20C/M min: 10W max: 50W	12	No	3	100MC6606
		2+1+1(8)x 21W+5W	12	Yes	6	100MC6607
	BRAND: HYUNDAI		12	Yes	13	100MC6608
	BRAND: NISSAN	85C/M 54W	12,8	No	3	100MC6609
	BRAND: NISSAN	85C/M 54W	12,8	Yes	3	100MC6610

FLASHER UNITS – BEAM-SHAPED

		Specification on part	Voltage V	Bracket	Total number of connections	REF
		50W	24	No	3	100MC6611
	BRAND: CLARK	10/140W	24	No	3	100MC6612
	BRAND: KALMAR		24	No	3	100MC6613
	BRAND: DAEWOO-DOOSAN		24	Yes	3	100MC6614
	BRAND: FANTUZZI	47W 220W max	24	Yes	3	100MC6615
		2(4)x21W+ 0...4W	24	Yes	3	100MC6616
		10/140 W	24	Yes	3	100MC6617
	BRAND: CHARLATTE	2(4)x21W+ 0...4W	24	Yes	4	100MC6618

FLASHER UNITS – BEAM-SHAPED

		Specification on part	Voltage V	Bracket	Total number of connections	REF
	BRAND: DHOLLANDIA	170W	24	Yes	4	100MC6619
		21W5W 2+1(6)	24	Yes	5	100MC6620
		2+1(6)x21W+ 0...5W	24	Yes	6	100MC6621
	BRAND: TOYOTA		36/48	Yes	3	100MC6622
		54W 85C/M	12,8	No	3	100MC6627
		5–30W	12–24	No	4	100MC6628

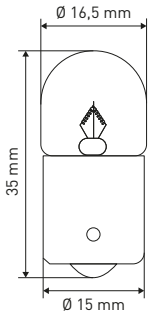
FLASHER UNITS – CYLINDRICALLY SHAPED

	Specification on part	Voltage V	Bracket	Total number of connections	REF
	23Wx2+3,4Wx2 90C/M	12,8	Yes	2	100MC6623
	80C/M	12	No	3	100MC6624
	46W	12	Yes	3	100MC6625
	23Wx1 85C/M	12,8	Yes	2	100MC6626
	25Wx2+3W	25,6	Yes	2	100MC6629
	25Wx1–2	48	Yes	2	100MC6630

BA15S

PHILIPS





Fitting
BA15s

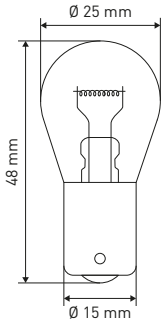


Voltage V	Power W	REF
12	5	100MC6635
12	10	100MC6636
24	5	100MC6637
24	10	100MC6638

BA15S

PHILIPS





Fitting
BA15s

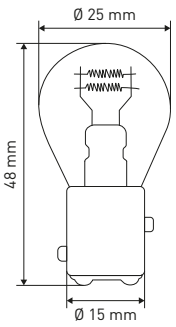


Voltage V	Power W	REF
12	21	100MC6645
24	21	100MC6646

BAY15D

PHILIPS





Fitting
BAY15d

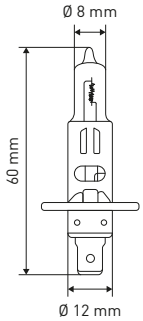


Voltage V	Power W	REF
12	21/5	100MC6656
24	21/5	100MC6657

H1

PHILIPS





Fitting
P14.5s

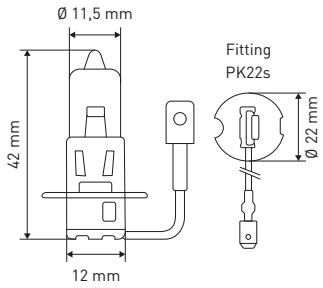


Voltage V	Power W	REF
12	55	100MC6703
24	70	100MC6704

H3

PHILIPS



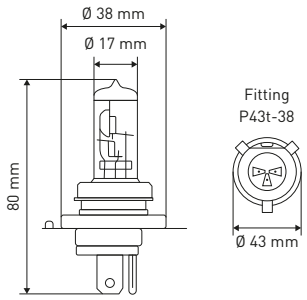


Voltage V	Power W	REF
12	55	100MC6710
24	70	100MC6711

H4

PHILIPS



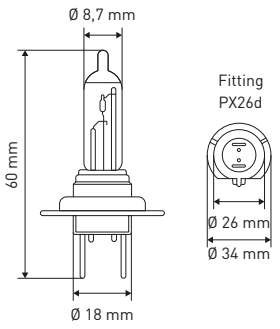


Voltage V	Power W	REF
12	60/55	100MC6714
24	75/70	100MC6715

H7

PHILIPS



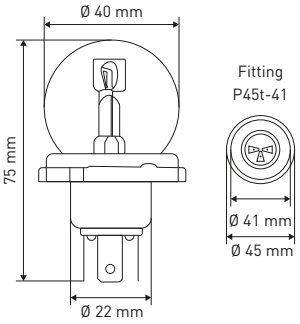


Voltage V	Power W	REF
12	55	100MC6718
24	70	100MC6719

R2

PHILIPS



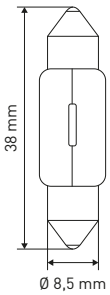


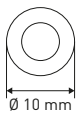
Voltage V	Power W	REF
12	45/40	100MC6720
24	55/50	100MC6721

SV8.5-8 (38 MM)

PHILIPS





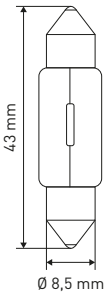


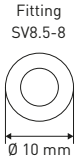
Voltage V	Power W	REF
12	5	100MC6671
12	10	100MC6672
24	5	100MC6673
24	10	100MC6674

SV8.5-8 (43 MM)

PHILIPS





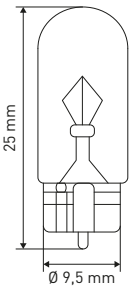


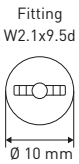
Voltage V	Power W	REF
12	5	100MC6680
12	10	100MC6681
24	5	100MC6682
24	10	100MC6683

W2.1X9.5D

PHILIPS





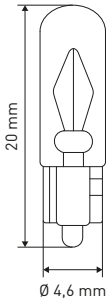


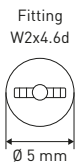
Voltage V	Power W	REF
12	3	100MC6689
12	5	100MC6690
24	3	100MC6691
24	5	100MC6692

W2X4.6D

PHILIPS



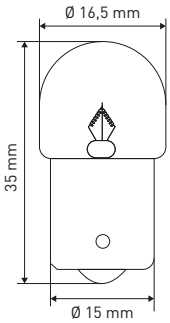




Voltage V	Power W	REF
12	1,2	100MC6697
12	2	100MC6698
24	1,2	100MC6699
24	2	100MC6700

BA15S





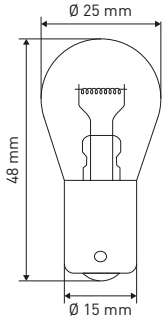
Fitting
BA15s



Voltage V	Power W	REF
12	5	100MC6631
12	10	100MC6632
24	5	100MC6633
24	10	100MC6634

BA15S





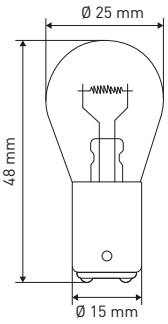
Fitting
BA15s



Voltage V	Power W	REF
12	21	100MC6639
24	21	100MC6640
36	25	100MC6641
48	25	100MC6642
48	45	100MC6643
56	25	100MC6644

BA15D





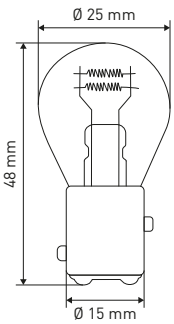
Fitting
BA15d



Voltage V	Power W	REF
12	21	100MC6647
24	21	100MC6648
36	25	100MC6649
48	25	100MC6650

BAY15D





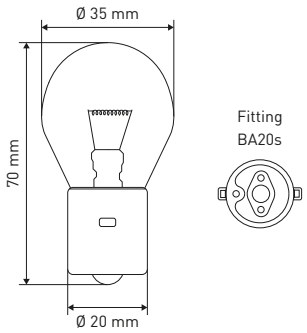
Fitting
BAY15d



Voltage V	Power W	REF
12	21/5	100MC6651
24	21/5	100MC6652
36	25/10	100MC6653
48	25/10	100MC6654
60	25/10	100MC6655

BA20S

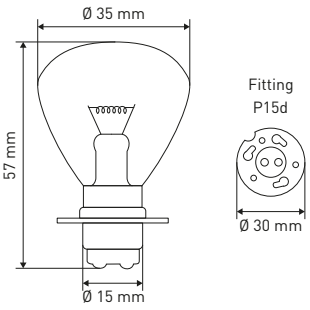




Voltage V	Power W	REF
12	45	100MC6662
24	45	100MC6663
36	35	100MC6664
48	35	100MC6665
80	35	100MC6666

P15D

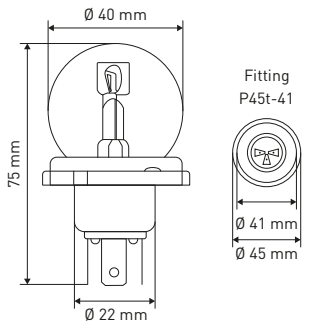




Voltage V	Power W	REF
12	45	100MC6658
24	35	100MC6659
36	30	100MC6660
48	25	100MC6661

R2

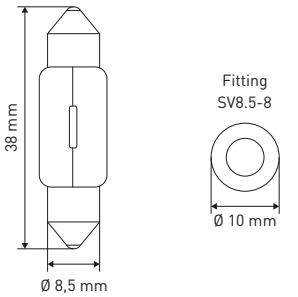




Voltage V	Power W	REF
12	45/40	100MC6716
24	55/50	100MC6717

SV8.5-8 (38 MM)

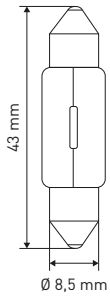




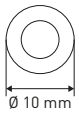
Voltage V	Power W	REF
12	10	100MC6667
24	5	100MC6668
24	10	100MC6669
48	5	100MC6670

SV8.5-8 (43 MM)





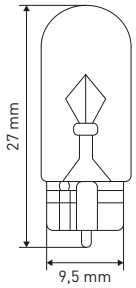
Fitting
SV8.5-8



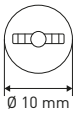
Voltage V	Power W	REF
12	5	100MC6675
12	10	100MC6676
24	5	100MC6677
24	10	100MC6678
48	5	100MC6679

W2.1X9.5D





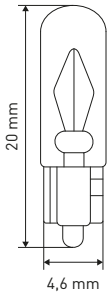
Fitting
W2.1x9.5d



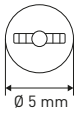
Voltage V	Power W	REF
12	3	100MC6684
12	5	100MC6685
24	3	100MC6686
24	5	100MC6687
48	2	100MC6688

W2X4.6D





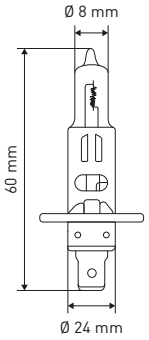
Fitting
W2x4.6d

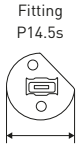


Voltage V	Power W	REF
12	1,2	100MC6693
12	2	100MC6694
24	1,2	100MC6695
24	2	100MC6696

H1



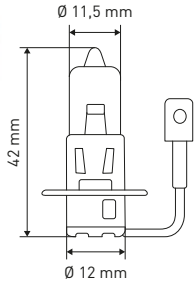


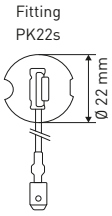


Voltage V	Power W	REF
12	55	100MC6701
24	70	100MC6702

H3



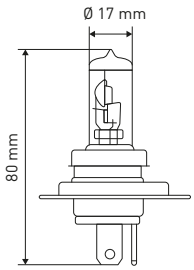




Voltage V	Power W	REF
12	55	100MC6705
24	70	100MC6706
36	45	100MC6707
48	45	100MC6708
80	55	100MC6709

H4



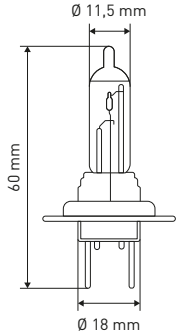


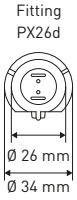


Voltage V	Power W	REF
12	60/55	100MC6712
24	75/70	100MC6713

H7







Voltage V	Power W	REF
12	55	100MC7215
24	70	100MC7219

DASHBOARD KIT 12 V



REF 100MC6722 – Complete box

U1 V	P1 W	Remark	ECE fitting	Quantity	REF
12	0,4	Lila	B8,5D	5	100MC7010
12	1	Orange	B8,5D	5	100MC7011
12	1,1	Orange	B8,4D	5	100MC7012
12	1,2	Black	B8,3D	5	100MC7013
12	1,2	Black	B8,4D	5	100MC7014
12	1,2	Blue	B8,4D	5	100MC7015
12	1,2	Blue	B8,5D	5	100MC7016
12	1,2	Black	B8,5D	5	100MC7017
12	1,2	Black	MFHZ	5	100MC7018
12	1,2	Black	MFJF	5	100MC7019
12	1,2	Black	MFSL	5	100MC7020
12	1,5	Beige	B8,5D	5	100MC7021
12	1,5	Beige	B8,4D	5	100MC7022
12	2	Blue	B8,3D	5	100MC7023
12	2	Light green	B8,4D	5	100MC7024
12	2	Green	B8,5D	5	100MC7025
12	3	Brown	B10D	5	100MC7026
12	5	Black	B8,5D	5	100MC7027

DASHBOARD KIT 24 V



REF 100MC6723 – Complete box

U1 V	P1 W	Remark	ECE fitting	Quantity	REF
24	1	White	Kw2x4,6D	5	100MC7028
24	1,2	Clear	W2x4,6D	5	100MC6695
24	1,2	Grey	B8,3D	5	100MC7029
24	1,2	Brown	B8,4D	5	100MC7030
24	1,2	Grey	B8,5D	5	100MC7031
24	1,2	Brown	B8,5D	5	100MC7032
24	1,2	Brown	B8,7D	5	100MC7033
24	1,2	Yellow	EBS R4	5	100MC7034
24	1,2	Brown	EBS R11	5	100MC7035
24	1,4	Green	EBS R11	5	100MC7036
24	3	Clear	W2,1x9,5D	5	100MC6686
24	5	Clear	W2,1x9,5D	5	100MC6687

KIT H1 – 12 V

PHILIPS



REF 100MC6724 – Complete box

U1 V	P1 W	P2 W	Remark	ECE fitting	Quantity	REF
12	4			T4W	1	100MC7037
12	5			R5W	1	100MC6635
12	5			C5W	1	100MC6671
12	21			P21W	1	100MC6645
12	21	5		P21/5W	1	100MC6656
12	55			H1	1	100MC6703
			Fuse 15 A		1	100MC7038
			Fuse 20 A		1	100MC7039
			Fuse 30 A		1	100MC7040

KIT H4 – 12 V

PHILIPS



REF 100MC6725 – Complete box

U1 V	P1 W	P2 W	Remark	ECE fitting	Quantity	REF
12	4			T4W	1	100MC7037
12	5			R5W	1	100MC6635
12	5			C5W	1	100MC6671
12	21			P21W	1	100MC6645
12	21	5		P21/5W	1	100MC6656
12	60	55		H4	1	100MC6714
			Fuse 15 A		1	100MC7038
			Fuse 20 A		1	100MC7039
			Fuse 30 A		1	100MC7040

KIT H7 – 12 V

PHILIPS



REF 100MC6726 – Complete box

U1 V	P1 W	P2 W	Remark	ECE fitting	Quantity	REF
12	4			T4W	1	100MC7037
12	5			R5W	1	100MC6635
12	5			C5W	1	100MC6671
12	21			P21W	1	100MC6645
12	21	5		P21/5W	1	100MC6656
12	55			H7	1	100MC6718
			Fuse 15 A		1	100MC7038
			Fuse 20 A		1	100MC7039
			Fuse 30 A		1	100MC7040

KIT H1/H7 – 12 V

PHILIPS





REF 100MC6727 – Complete box

U1 V	P1 W	Remark	ECE fitting	Quantity	REF
12	5		W5W	1	100MC6690
12	10		R10W	1	100MC6636
12	10		SV8.5-8	1	100MC6681
12	21		P21W	1	100MC6645
12	21	Orange	PY21W	1	100MC7041
12	55		H7	1	100MC6718
12	55		H1	1	100MC6703
		Fuse 10 A		2	100MC7042
		Fuse 20 A		1	100MC7039

KIT H4 – 24 V

PHILIPS





REF 100MC6728 – Complete box

U1 V	P1 W	P2 W	Remark	ECE fitting	Quantity	REF
24	4			T4W	1	100MC7043
24	5			R5W	1	100MC6637
24	5			C5W	1	100MC6673
24	10			R10W	1	100MC6638
24	21			P21W	1	100MC6646
24	75	70		H4	1	100MC6715
			Fuse 15 A		1	100MC7038
			Fuse 20 A		1	100MC7039
			Fuse 30 A		1	100MC7040

KIT H7 – 24 V

PHILIPS



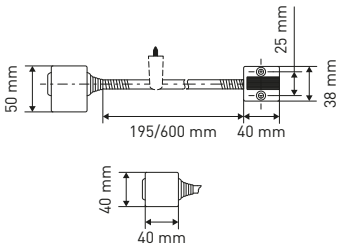


REF 100MC6729 – Complete box

U1 V	P1 W	Remark	ECE fitting	Quantity	REF
24	4		T4W	1	100MC7043
24	5		R5W	1	100MC6637
24	5		C5W	1	100MC6673
24	10		R10W	1	100MC6638
24	21		P21W	1	100MC6646
24	70		H7	1	100MC6719
		Fuse 15 A		1	100MC7038
		Fuse 20 A		1	100MC7039
		Fuse 30 A		1	100MC7040

INTERIOR LIGHTS



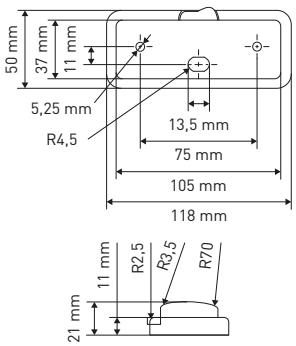


- Technology: halogen
- Flexible arm
- Installation: surface-mounted, screw attachment
- Bulb included

REF 100MC6730 – 12 V length: 195 mm
REF 100MC7044 – 12 V length: 600 mm

Replacement parts:
REF 100MC7125 – Bulb: BA9S 12 V 4 W
REF 100MC7171 – Bulb: BA9S 12 V 5 W



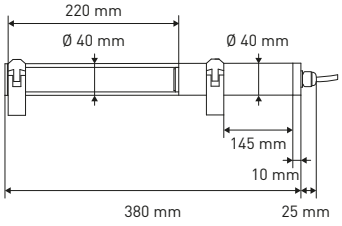


- Technology: incandescent
- Centre distance: 75 mm
- Installation: surface mounting 2 screws
- 3 functions switch
- Bulbs not included

REF 100MC6732 – 12–24 V

Replacement parts:
REF 100MC7127 – Bulb: SV8,5-8 12 V 5 W
REF 100MC6668 – Bulb: SV8,5-8 24 V 5 W





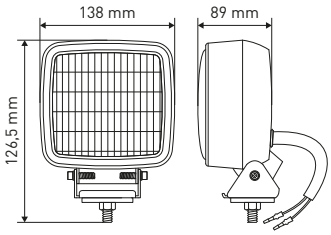
- Technology: fluorescent tube
- IP65
- Protection class: II
- Cable: 5 m
- Tube included

REF 100MC6733 – 24 V

Replacement parts:
REF 100MC7128 – Fluorescent tube: G23 11 W 4000 K
REF 100MC7172 – Mounting clamp

FRONT LIGHTS





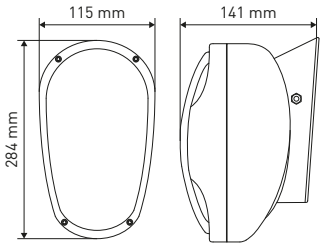
- Technology: incandescent
- Mounting: pedestal
- Wire length: 230 mm
- Function: dimmer
- Bulb included
- Connector: 2x G1

REF 100MC6734 – 48 V

Replacement parts:

REF 100MC7129 – Bulb: BA15S 48 V 45 W
REF 100MC7173 – Replacement lens
REF 100MC7211 – Bracket





- Technology: halogen/incandescent
- Mounting: support
- Functions: parking, dimmer, turn
- Bulbs included

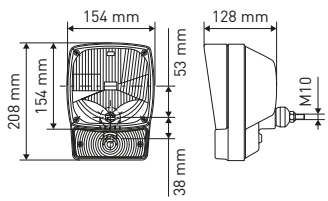
REF 100MC6764 – 12 V Deutsch connection
REF 100MC6740 – 24 V Deutsch connection
REF 100MC6762 – 12 V AMP connection
REF 100MC6763 – 24 V AMP connection

E-approved

Replacement parts:

REF 100MC7125 – Bulb: BA9S 12 V 4 W
REF 100MC7175 – Bulb: BAU15S 12 V 21 W orange
REF 100MC7215 – Bulb: H7 12 V 55 W
REF 100MC7217 – Bulb: BA9S 24 V 4 W
REF 100MC7224 – Bulb: BAU15S 24 V 21 W orange
REF 100MC7219 – Bulb: H7 24 V 70 W





- Technology: halogen/incandescent
- Mounting: single bolt
- Functions: parking, dimmer, head, turn
- Bulbs included

REF 100MC6765 – 12 V
REF 100MC6741 – 24 V

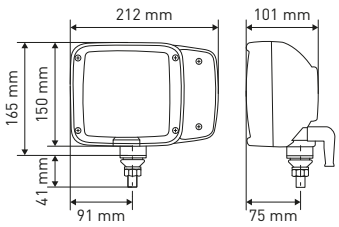
E-approved

Replacement parts:

REF 100MC7125 – Bulb: BA9S 12 V 4 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7216 – Bulb: H4 12 V 60/55 W
REF 100MC7217 – Bulb: BA9S 24 V 4 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7177 – Bulb: H4 24 V 75/70 W
REF 100MC7233 – Turn indicator lens

FRONT LIGHTS





- Technology: halogen/incandescent
- Mounting: single bolt
- Functions: parking, dimmer, head, turn
- Bulbs included
- Connector: E5

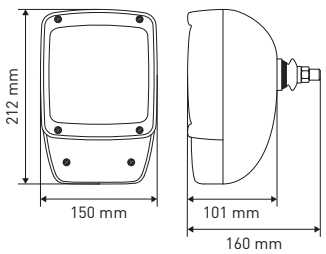
REF 100MC6766 – 12 V LH
REF 100MC6742 – 12 V RH

E-approved

Replacement parts:

REF 100MC7125 – Bulb: BA9S 12 V 4 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7212 – Bulb: H3 12 V 55 W
REF 100MC7219 – Bulb: H7 24 V 55 W
REF 100MC7225 – Indicator lens
REF 100MC7226 – Front light lens





- Technology: halogen/incandescent
- Mounting: single bolt
- Functions: parking, dimmer, head, turn
- Bulbs included
- Connector: C6 built-in

REF 100MC6768 – 12 V LH
REF 100MC6744 – 12 V RH

E-approved

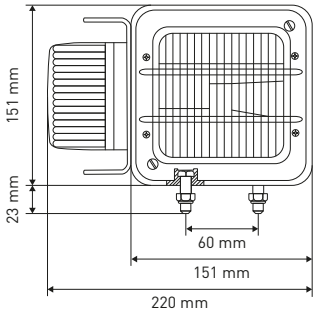
Replacement parts:

REF 100MC7133 – Bulb: BA9S 12 V 4 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7212 – Bulb: H3 12 V 55 W
REF 100MC7220 – Bulb: H7 12 V 55 W
REF 100MC7227 – Replacement headlight glass

FRONT LIGHTS

COBO group





- Technology: halogen/incandescent
- Mounting centre distance: 60 mm
- Bulbs included
- Functions: parking, dimmer, turn

REF 100MC6775 – 12 V LH
REF 100MC6748 – 12 V RH
REF 100MC6774 – 24 V LH
REF 100MC6773 – 24 V RH

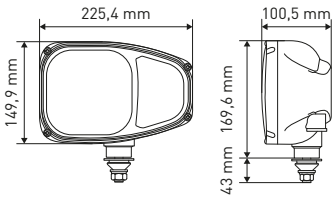
E-approved

Replacement parts:

REF 100MC7133 – Bulb: BA9S 12 V 4 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7216 – Bulb: H4 12 V 60/55 W
REF 100MC7221 – Bulb: BA9S 24 V 4 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7231 – Bulb: H4 24 V 75/70 W
REF 100MC7234 – Replacement lens amber
REF 100MC7235 – Replacement lens and cover

HELLA





- Technology: halogen/incandescent
- Mounting: single bolt
- Functions: parking, dimmer, head, turn
- Bulbs included
- Connector: C6 built-in

REF 100MC6776 – 12 V LH
REF 100MC6749 – 12 V RH

E-approved

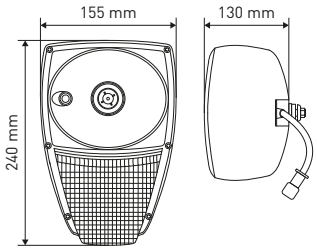
Replacement parts:

REF 100MC7133 – Bulb: BA9S 12 V 4 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7212 – Bulb: H3 12 V 55 W
REF 100MC7215 – Bulb: H7 12 V 55 W

FRONT LIGHTS

TOTAL SOURCE





- Technology: halogen/incandescent
- Mounting: single bolt
- Wire length: 220 mm
- Functions: parking, dimmer, head, turn
- Bulbs included
- Connector: D6

REF 100MC6777 – 12 V LH
REF 100MC6750 – 12 V RH

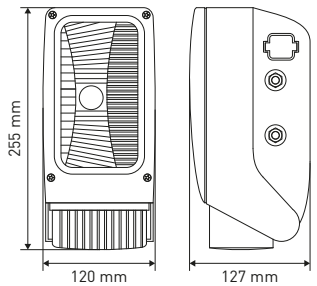
E-approved

Replacement parts:

REF 100MC7125 – Bulb: BA9S 12 V 4 W
REF 100MC7175 – Bulb: BAU15S 12 V 21 W orange
REF 100MC6712 – Bulb: H4 12 V 60/55 W

COBO group





- Technology: halogen/incandescent
- Centre distance: 60 mm
- Functions: parking, dimmer, head, turn
- Bulbs included
- Connector: Deutsch built-in

REF 100MC6782 – 12 V LH
REF 100MC6753 – 12 V RH
REF 100MC6780 – 24 V LH
REF 100MC6781 – 24 V RH

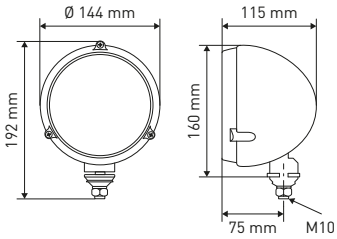
E-approved

Replacement parts:

REF 100MC7133 – Bulb: BA9S 12 V 4 W
REF 100MC7176 – Bulb: BA15S 12 V 21 W
REF 100MC7216 – Bulb: H4 12 V 60/55 W
REF 100MC7221 – Bulb: BA9S 24 V 4 W
REF 100MC7229 – Bulb: BA15S 24 V 21 W
REF 100MC7232 – Bulb: H4 24 V 70/75 W
REF 100MC7236 – Replacement lens headlight

FRONT LIGHTS





- Technology: halogen/incandescent
- Mounting: pedestal
- Functions: parking, dimmer, head
- Bulbs not included

REF 100MC6784 – 12–24 V

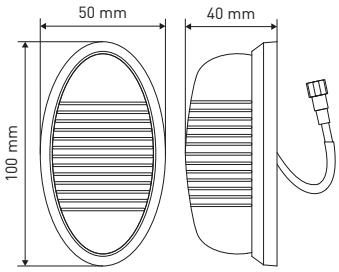
E-approved

Replacement parts:

REF 100MC7133 – Bulb: BA9S 12 V 4 W
REF 100MC7135 – Bulb: H4 12 V 60/55 W
REF 100MC7217 – Bulb: BA9S 24 V 4 W
REF 100MC7177 – Bulb: H4 24 V 75/70 W

INDICATOR LIGHTS





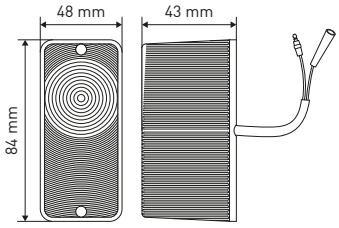
- Technology: incandescent
- Mounting: 2 screws
- Centre distance: 69 mm
- Wire length: 350 mm
- Bulb included
- Connector: B2

REF 100MC6787 – 12 V

Replacement parts:

REF 100MC6667 – Bulb: SV 8,5-8 12 V 10 W





- Technology: incandescent
- Mounting: 2 screws
- Centre distance: 60 mm
- Wire length: 260 mm
- Bulb included
- Connector: 1 x A1, 1 x H1

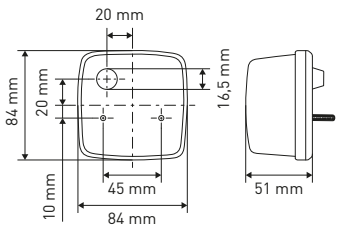
REF 100MC6798 – 12 V
REF 100MC8232 – 36 V
REF 100MC6788 – 48 V

E-approved

Replacement parts:

REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7179 – Bulb: BA15S 48 V 25 W
REF 100MC6641 – Bulb: 36 V 25 W
REF 100MC7243 – Replacement lens





- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 45 mm
- Bulb not included

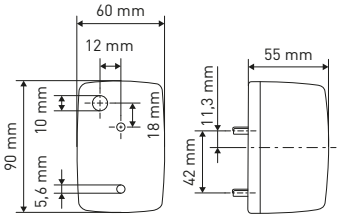
REF 100MC6789 – 12–24 V amber
REF 100MC6799 – 12–24 V red

Replacement parts:

REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7244 – Replacement lens amber

INDICATOR LIGHTS





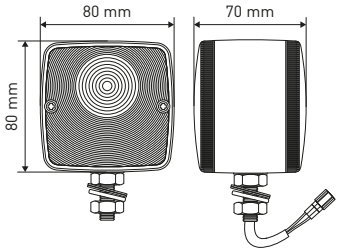
- Technology: incandescent
- Mounting: 2 screws
- Centre distance: 42 mm
- Bulb not included

REF 100MC6801 – 12–24 V

Replacement parts:

REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7245 – Replacement lens





- Technology: incandescent
- Mounting: single bolt M12
- Wire length: 220 mm
- Functions: turn, marker
- Bulbs included
- Connector: A3

REF 100MC6807 – 12 V
REF 100MC6794 – 24 V
REF 100MC6795 – 48 V

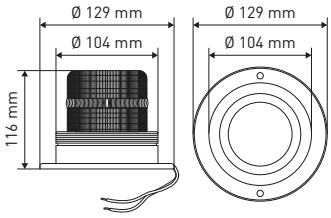
Replacement parts:

REF 100MC7141 – Bulb: BA9S 12 V 3 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7140 – Bulb: BA9S 24 V 5 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7241 – Bulb: BA9S 48 V 5 W
REF 100MC6642 – Bulb: BA15S 48 V 25 W
REF 100MC7240 – Replacement lens front amber
REF 100MC7182 – Replacement lens rear amber

FLASHING BEACONS LED

BEST BUY



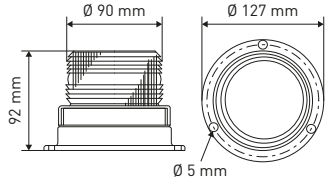


- Technology: LED (3 pieces)
- Mounting: 3 screws
- Pitch circle: 115 mm
- Wire length: 400 mm
- IP65
- Flash rate: 60 ± 90 flashes/minute
- Economic version

REF 100MC6813 – 12–80 V

Multi-voltage



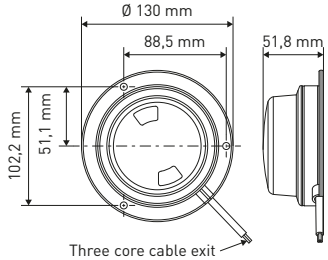


- Technology: LED (6 pieces)
- Mounting: 3 screws
- Pitch circle: 115 mm
- Wire length: 290 mm
- IP65
- Flash rate: 60 ± 10 flashes/minute
- Lens not interchangeable

REF 100MC6814 – 12–80 V

Multi-voltage





- Technology: LED
- Mounting: 3 screws
- Pitch circle: 115 mm
- Length cable: 95 mm
- IP67
- 12 flash patterns

REF 100MC6815 – 10–30 V

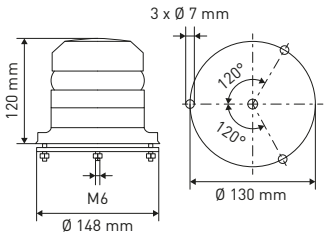
Multi-voltage – low profile

FLASHING BEACONS LED

BEST BUY

TOTAL SOURCE





- Technology: LED
- Mounting: 3 screws
- Pitch circle: 130 mm
- IP65
- Flash rate: 60–80 flashes/minute
- 4 flashing patterns

REF 100MC6817 – 12–110 V

Economic

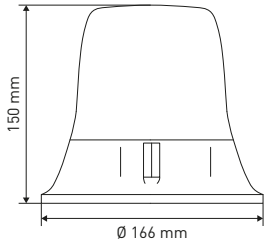
Multi-voltage

Replacement parts:

REF 100MC7143 – Lens amber
REF 100MC7186 – Support

TOTAL SOURCE





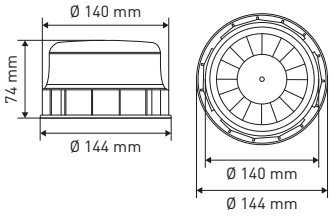
- Technology: LED
- Mounting: magnetic mount
- Flash rate: 65 flashes/minute
- 12 V car plug

REF 100MC6819 – 12–48 V

Car plug

TOTAL SOURCE





- Technology: LED
- Mounting: magnetic mount
- 12 V car plug

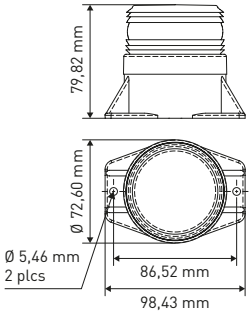
REF 100MC6816 – 10–30 V

Car plug

FLASHING BEACONS LED

METEORLITE





- Technology: LED
- Mounting: 2 screws
- Centre distance: 86 mm
- IP66
- Flash rate: 60 ± 10 flashes/minute
- Low profile

REF 100MC6820 – 12–80 V

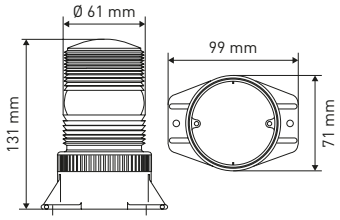
Multi-voltage

Replacement parts:

REF 100MC7144 – Protection guard

METEORLITE





- Technology: LED
- Mounting: 2 screws
- Centre distance: 86 mm
- Wire length: 300 mm
- IP65
- Flash rate: 60 ± 10 flashes/minute

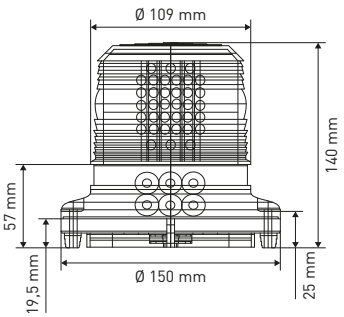
REF 100MC6835 – 12–80 V amber version
REF 100MC6822 – 12–80 V blue version
REF 100MC6823 – 12–80 V clear version
REF 100MC6824 – 12–80 V green version
REF 100MC6825 – 12–80 V red version

E-approved

Multi-voltage

TOTALSOURCE





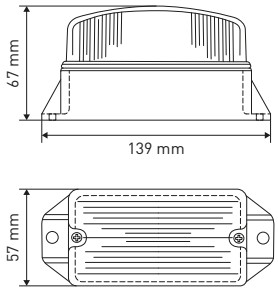
- Technology: LED
- Combination of flashing/rotating beacon
- Car plug
- 240 V
- Magnetic base
- Battery-powered
- Mounting: magnetic mount, adapter plugs, suction pads, extra screws
- Wire length: 1520 mm
- IP66
- Flash rate: 60 flashes/minute
- Included:
  - Car 12–24 VDC charger
  - Domestic charger 100–240 VAC
  - 6 rechargeable AA-batteries included

REF 100MC6837 – Light

FLASHING BEACONS XENON

TOTAL SOURCE





- Technology: xenon
- Mounting: 2 screws
- Wire length: 215 mm
- Nominal power: ± 3 W
- IP66
- Flash rate: 72 flashes/minute
- Flash tube included

REF 100MC6838 – 12–110 V

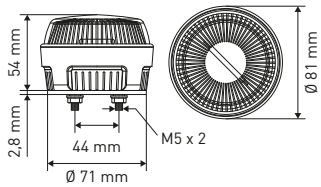
Multi-voltage

Replacement parts:

REF 100MC7145 – Lens amber
REF 100MC7187 – Protection guard
REF 100MC7147 – Flash tube

TOTAL SOURCE





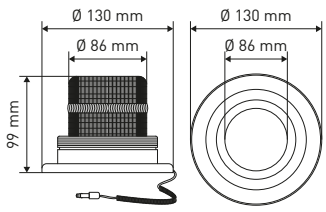
- Technology: xenon
- Mounting: 2 screws
- Centre distance: 45 mm
- Wire length: 450 mm
- IP67
- Flash tube included

REF 100MC6840 – 10–100 V white
REF 100MC6826 – 10–100 V amber

Multi-voltage – low profile

TOTAL SOURCE





- Technology: xenon
- Mounting: magnetic mount
- Wire length: 1100 mm
- IP66
- Flash rate: 36 flashes/minute
- 12 V car plug

REF 100MC6844 – 12–110 V amber

Car plug – magnetic base

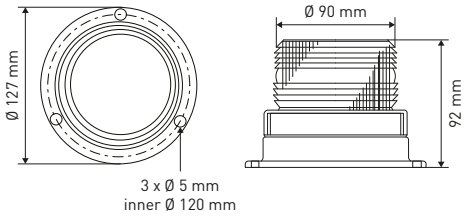
Replacement parts:

REF 100MC7046 – Lens amber
REF 100MC7190 – Lens red
REF 100MC7251 – Lens blue
REF 100MC7254 – Lens white
REF 100MC7225 – Protection guard
REF 100MC7257 – Flash tube

FLASHING BEACONS XENON

METEORLITE





- Technology: xenon
- Mounting: 3 screws
- Pitch circle: 115 mm
- IP65
- Flash rate: 60 ± 10 flashes/minute

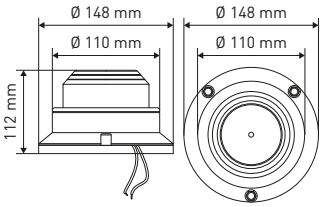
Colour	REF	
	12–240 VDC	240 VAC
Amber	100MC6847	100MC6832
Blue	100MC6829	100MC6833
Clear	100MC7124	100MC6834
Green	100MC6830	100MC6845
Red	100MC6831	100MC6846

Replacement parts:

REF 100MC7148 – Lens amber
REF 100MC7191 – Lens blue
REF 100MC7252 – Lens clear
REF 100MC7189 – Lens green
REF 100MC7226 – Lens red
REF 100MC7147 – Flash tube: 12–110 VDC
REF 100MC7188 – Flash tube 240 VAC

TOTAL SOURCE





- Technology: xenon
- Mounting: 3 screws
- Pitch circle: 130 mm
- Wire length: 330 mm
- IP66
- Flash tube not replaceable

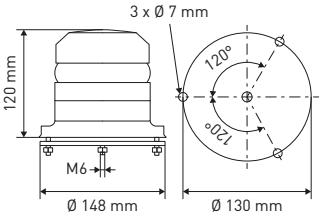
REF 100MC6852 – 12–110 V

Multi-voltage

TOTAL SOURCE

BEST BUY





- Technology: xenon
- Mounting: 3 screws
- Pitch circle: 130 mm
- IP66
- Flash rate: 75 ± 10 flashes/minute
- Nominal power: ± 5 W

REF 100MC6853 – 10–120 V

Multi-voltage

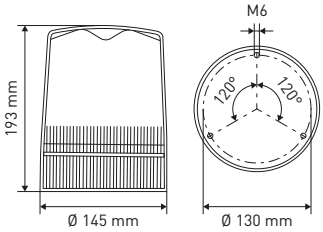
Replacement parts:

REF 100MC7152 – Flash tube

ROTATING BEACONS

SIRENA S.p.A.





- Technology: incandescent
- Mounting: 3 screws
- Pitch circle: 130 mm
- IP54
- Rotation rate: 160 ± 30 rotations/minute

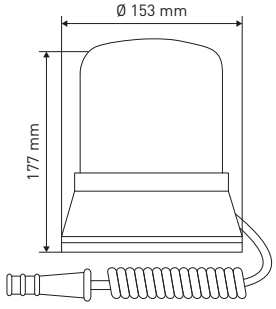
REF 100MC6863 – Without bulb
REF 100MC7049 – 12 V
REF 100MC7101 – 24 V
REF 100MC7118 – 36 V
REF 100MC7119 – 48 V
REF 100MC7120 – 80 V

Replacement parts:

REF 100MC7159 – Lens amber
REF 100MC7196 – Lens blue
REF 100MC7261 – Lens green
REF 100MC7262 – Bulb: BA20S 12 V 35 W
REF 100MC7265 – Bulb: BA20S 24 V 35 W
REF 100MC6664 – Bulb: BA20S 36 V 35 W
REF 100MC7266 – Bulb: BA20S 48 V 35 W
REF 100MC7161 – Bulb: H1 12 V 55 W

TOTAL SOURCE





- Technology: halogen
- Mounting: magnetic mount
- Wire length: 550 mm
- IP56
- Rotation rate: 180 rotations/minute
- Bulb included
- 12 V car plug

REF 100MC6869 – Without bulb
REF 100MC7053 – 12 V

E-approved

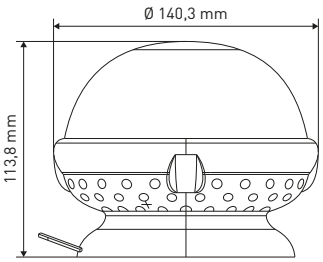
Car plug – magnetic base

Replacement parts:

REF 100MC6701 – Bulb: H1 12 V 55 W
REF 100MC7200 – Lens amber

ROTATING BEACONS





- Technology: halogen
- 12–24 V
- Mounting: magnetic mount and suction cup
- Wire length: 650 mm
- IP65
- Bulb included
- 12 V car plug

REF 100MC6871

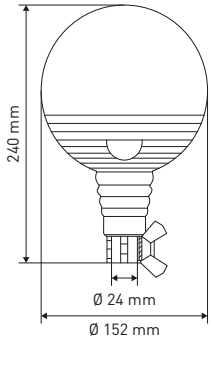
E-approved

Replacement parts:

REF 100MC7163 – Bulb: BAY9S 12 V 21 W
REF 100MC7201 – Bulb: BAY9S 24 V 21 W

BEST BUY





- Technology: halogen
- Mounting: pole mount
- IP66
- Rotation rate: 160 ± 30 rotations/minute
- Flexible

REF 100MC6877 – Without bulb
REF 100MC7054 – 12 V
REF 100MC7104 – 24 V

E-approved

Replacement parts:

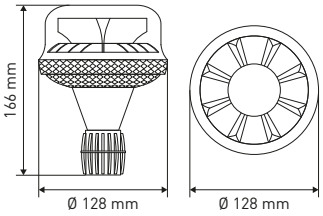
REF 100MC6701 – Bulb: H1 12 V 55 W
REF 100MC6702 – Bulb: H1 24 V 70 W

ROTATING BEACONS LED

BEST BUY

TOTAL SOURCE





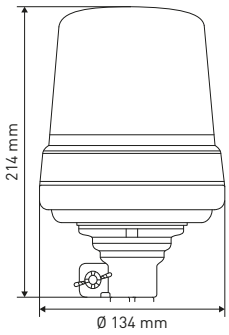
- Technology: LED
- Mounting: pole mount

REF 100MC6872 – 10–30 V

E-approved

TOTAL SOURCE





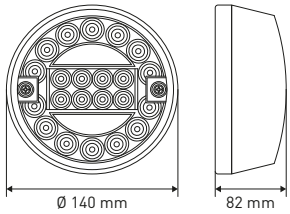
- Technology: LED
- Mounting: pole mount
- IP69
- Flash rate: 65 flashes/minute

REF 100MC6873 – 12–48 V

E-approved

REAR LIGHTS LED



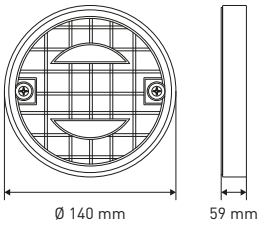


- Technology: LED
- Mounting: 2 bolts
- Centre distance: 45 mm
- Function: fog

REF 100MC6878 – 12–24 V

E-approved





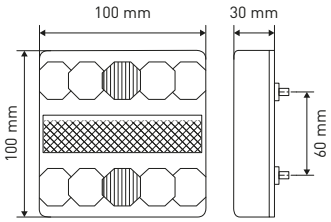
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 45 mm
- Function: reverse

REF 100MC6879 – 12–24 V

E-approved

BEST BUY



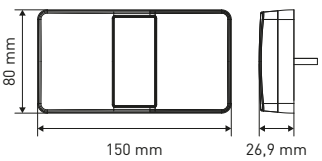


- Technology: LED
- Mounting: 2 bolts
- Centre distance: 60 mm
- Wire length: 480 mm
- Functions LH: rear, stop, turn
- Functions RH: rear, stop, turn, number plate

REF 100MC6880 – 10–30 V LH
REF 100MC7055 – RH + number plate light

E-approved





- Technology: LED
- Mounting: 2 bolts
- Centre distance: 100 mm
- Wire length: 1500 mm
- Bulb not replaceable
- Functions: rear, stop, turn

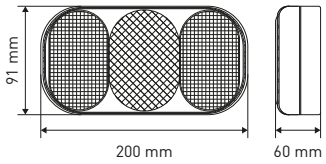
REF 100MC6881 – 12–24 V

E-approved

REAR LIGHTS LED

TOTAL SOURCE





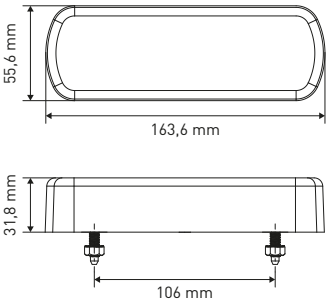
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 195 mm
- Functions: rear, stop, turn

REF 100MC6882 – 12–24 V

E-approved

TOTAL SOURCE





- Technology: LED
- Mounting: 2 bolts
- Centre distance: 106 mm
- Wire length: 1500 mm
- Functions: rear, stop, turn

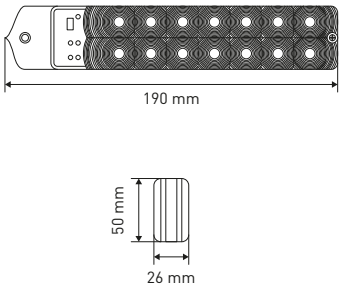
REF 100MC6883 – 12–24 V horizontal mount
REF 100MC7056 – 12–24 V vertical mount

E-approved

BEST BUY

TOTAL SOURCE



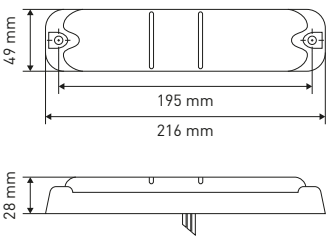


- Technology: LED
- Mounting: 2 bolts
- Centre distance: 170 mm
- Functions: rear, stop, turn, reverse
- Connector: E6 built-in

REF 100MC6884 – 12 V

TOTAL SOURCE





- Technology: LED
- Mounting: 2 bolts
- Centre distance: 195 mm
- Wire length: 3000 mm
- Functions: rear, stop, turn, reverse

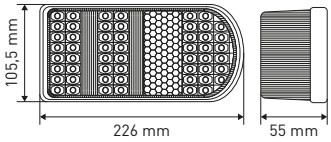
REF 100MC6889 – 9–56 V
REF 100MC7058 – Flasher
REF 100MC7105 – Kit: 2 lights + flasher

E-approved

REAR LIGHTS LED

BEST BUY



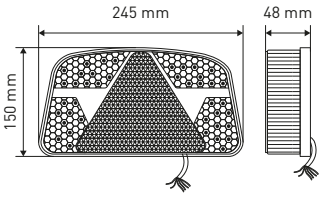


- Technology: LED
- Mounting: 2 bolts M6
- Centre distance: 150 mm
- Functions LH: rear, stop, turn, fog
- Functions RH: rear, stop, turn, reverse, number plate

REF 100MC6890 – 12–24 V LH
REF 100MC7059 – 12–24 V RH

E-approved



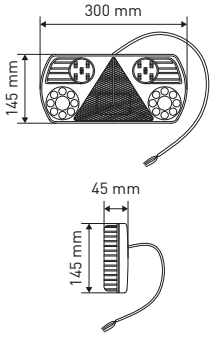


- Technology: LED
- Mounting: 2 bolts M6
- Centre distance: 152 mm
- Functions: rear, stop, turn, reverse, fog, number plate, reflector triangle

REF 100MC6891 – 12 V LH
REF 100MC7060 – 12 V RH

E-approved





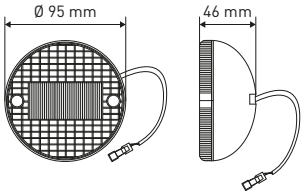
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 152 mm
- Functions LH: rear, stop, turn, fog, number plate, reflector triangle
- Functions RH: rear, stop, turn, reverse, number plate, reflector triangle

REF 100MC6892 – 12–24 V LH
REF 100MC7061 – 12–24 V RH

E-approved

REAR LIGHTS LED



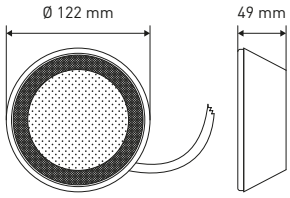


- Technology: LED
- Mounting: 2 bolts
- Centre distance: 80 mm
- Wire length: 260 mm
- Function: rear
- Connector: G2

REF 100MC6910 – 24 V

E-approved





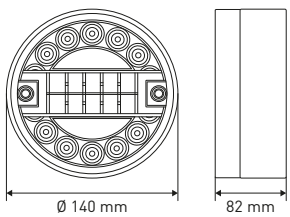
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 45 mm
- Wire length: 230 mm
- Functions: rear, turn, stop

REF 100MC6911 – 12 V without connector
REF 100MC7073 – 12 V with connector K4

E-approved

BEST BUY





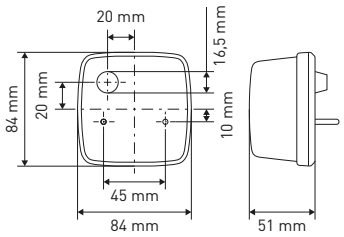
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 45 mm
- Functions: rear, stop, turn

REF 100MC6912 – 10–24 V

E-approved

REAR LIGHTS





- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 45 mm
- Function: stop
- Bulbs not included

REF 100MC6894 – 12–24 V

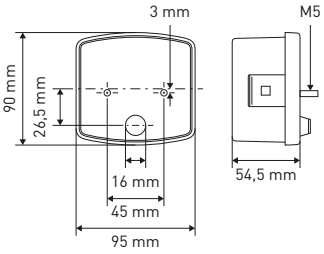
E-approved

Replacement parts:

REF 100MC7127 – Bulb: SV 8,5-8 12 V 5 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6668 – Bulb: SV8,5-8 24 V 5 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7270 – Replacement lens red







- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 45 mm
- Functions: rear, stop, turn
- Bulbs not included

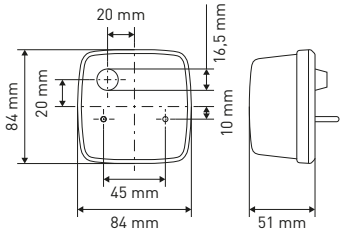
REF 100MC6895 – 12 V LH
REF 100MC7062 – 12 V RH

E-approved

Replacement parts:

REF 100MC6632 – Bulb: BA15S 12 V 10 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC7267 – Replacement lens LH
REF 100MC2769 – Replacement lens RH
REF 100MC7271 – Replacement lens





- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 45 mm
- Function: reverse
- Bulbs not included

REF 100MC6898 – 12–24 V

E-approved

Replacement parts:

REF 100MC7127 – Bulb: SV 8,5-8 12 V 5 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6668 – Bulb: SV8,5-8 24 V 5 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7273 – Replacement lens white

REAR LIGHTS

BEST BUY

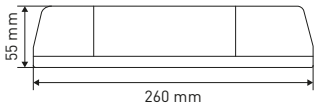
TOTAL SOURCE



- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 240 mm
- Functions:rear, stop, turn, reverse
- Bulbs included
- Connector: 06

REF 100MC6900 – 12 V
REF 100MC7065 – 24 V
REF 100MC7106 – 36 V
REF 100MC7121 – 48 V





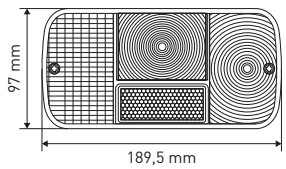
Replacement parts:

REF 100MC7138 – Bulb: BA15S 12 V 10 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6651 – Bulb: BAY15D 12 V 21/5 W
REF 100MC6634 – Bulb: BA15S 24 V 10 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC6652 – Bulb: BAY15D 24 V 21/5 W
REF 100MC7276 – Bulb: BAY15D 36 V 8 W
REF 100MC7278 – Bulb: BAY15D 36 V 25 W
REF 100MC6653 – Bulb: BAY15D 36 V 25/10 W
REF 100MC7281 – Bulb: BA15S 48 V 10 W
REF 100MC7279 – Bulb: BA15S 48 V 25 W
REF 100MC7280 – Bulb: BAY15D 48 V 25/10 W
REF 100MC7283 – Support
REF 100MC7284 – Replacement lens

COBO group

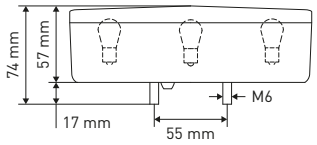


- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 55 mm
- Functions: rear, stop, turn, reverse, number plate
- Bulbs not included



REF 100MC6907 – 12–24 V LH
REF 100MC7071 – 12–24 V RH

E-approved

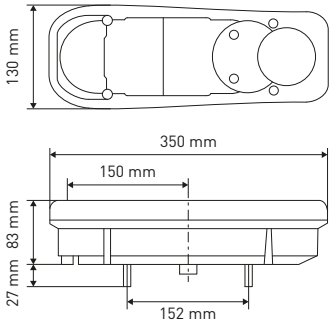


Replacement parts:

REF 100MC6651 – Bulb: BAY15D 12 V 21/5 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7292 – Bulb: BAY15D 24 V 21/5 W
REF 100MC7290 – Replacement lens LH
REF 100MC7293 – Replacement lens RH

REAR LIGHTS





- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 152 mm
- Functions: rear, stop, turn, reverse, fog
- Bulbs not included

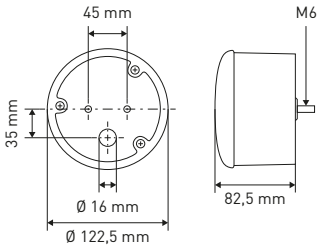
REF 100MC6909 – 12–24 V

E-approved

Replacement parts:

REF 100MC6632 – Bulb: BA15S 12 V 10 W
REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6634 – Bulb: BA15S 24 V 10 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC7295 – Replacement lens





- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 45 mm
- Functions: rear, stop, turn
- Bulbs not included

REF 100MC6916 – 12–24 V

E-approved

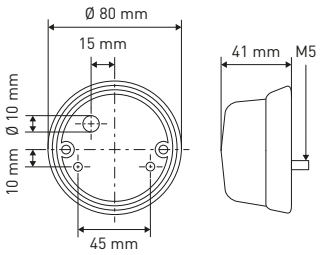
Replacement parts:

REF 100MC6639 – Bulb: BA15S 12 V 21 W
REF 100MC6651 – Bulb: BAY15D 12 V 21/5 W
REF 100MC6640 – Bulb: BA15S 24 V 21 W
REF 100MC6652 – Bulb: BAY15D 24 V 21/5 W
REF 100MC7298 – Replacement lens

MARKER LIGHTS

HELLA





- Technology: incandescent
- Mounting: 2 bolts
- Centre distance: 45 mm
- Bulbs not included

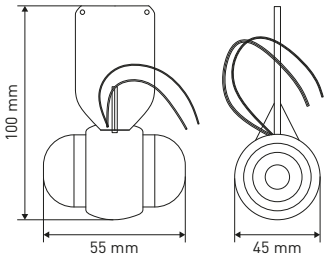
REF 100MC6919 – Green, 12–24 V
REF 100MC6811 – Amber, 12–24 V
REF 101MC3748 – Red, 12–24 V

Replacement parts:
REF 100MC7167 – Bulb: SV8,5-8 24 V 18 W

BEST BUY

TOTAL SOURCE





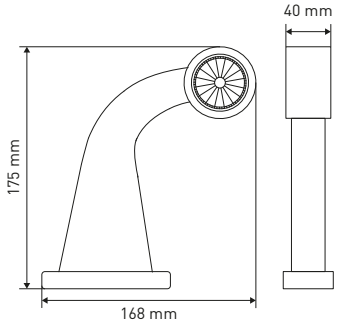
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 32 mm
- Wire length: 350 mm
- IP67
- Certified CE R7
- Colour: R.KWADRAAT (red/white)

REF 100MC6920 – 12–24 V

E-approved

TOTAL SOURCE





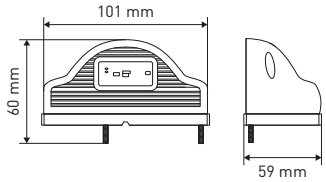
- Technology: LED
- Mounting: 2 bolts
- Centre distance: 78 mm
- Wire length: 300 mm
- IP67
- Lenses are interchangeable
- Colour: red/white

REF 100MC6921 – 10–30 V

E-approved

NUMBER PLATE LIGHTS



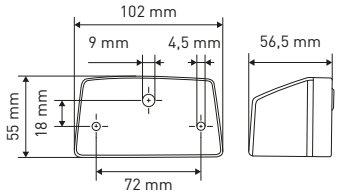


- Technology: LED
- Mounting: 2 bolts
- Centre distance: 71 mm
- Wire length: 500 mm
- IP68
- Certified CE R7

REF 100MC6922 – 12–24 V

E-approved





- Technology: incandescent
- Mounting: 2 holes
- Centre distance: 72 mm
- Bulb not included

REF 100MC6924 – 12–24 V

E-approved

Replacement parts:

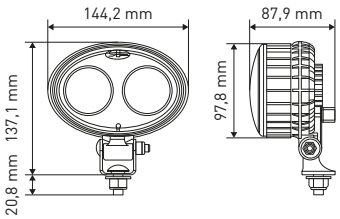
REF 100MC7142 – Bulb: BA15S 12 V 5 W
REF 100MC7207 – Bulb: BA15S 24 V 5 W
REF 100MC7303 – Replacement lens

BLUE SAFETY LIGHTS

BEST BUY

TOTAL SOURCE





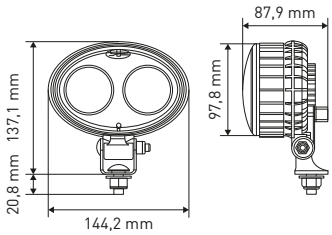


- Technology: LED 2 pieces
- Mounting: pedestal M10
- Colour: blue
- Nominal power: 6 W
- IP67
- Connector: J2 built-in

REF 100MC8437 – 12–110 V

BRAND: SPEAKER





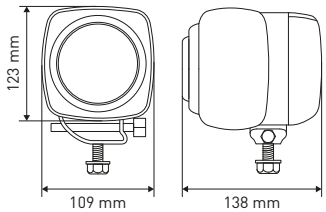


- Technology: LED 2 pieces
- Mounting: pedestal M10
- Colour: blue
- Nominal power: 6 W
- IP67
- Connector: J2 built-in

REF 100MC8438 – 12–110 V

ABL





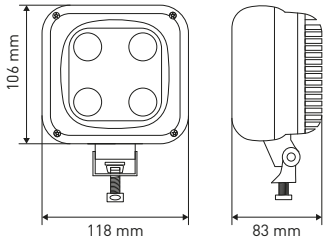


- Technology: LED 1 piece
- Mounting: pedestal M10
- Colour: blue
- Nominal power: 6 W
- IP68
- Connector: J2 built-in

REF 100MC8439 – 12–100 V

BLUE SAFETY LIGHTS





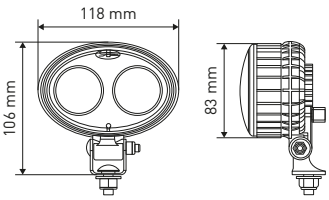


- Technology: LED 4 pieces
- Mounting: pedestal M10
- Colour: blue
- Wire length: 1020 mm
- Nominal power: 15 W
- IP69
- Connector: J2 built-in

REF 100MC8440 – 12–48 V

BLUE SAFETY ARROW







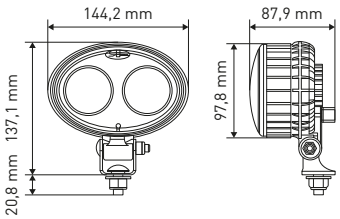
- Technology: LED 2 pieces
- Mounting: pedestal M10
- Colour: blue arrow spot
- Wire length: 1020 mm
- Nominal power: 6 W
- IP69
- Connector: J2 built-in

REF 100MC8441 – 12–48 V

RED SAFETY LIGHTS

TOTAL SOURCE





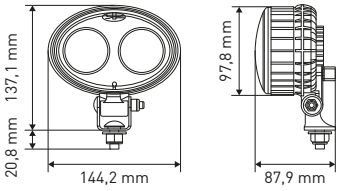


- Technology: LED 2 pieces
- Mounting: pedestal M10
- Colour: red
- Nominal power: 6 W
- IP67
- Connector: J2 built-in

REF 100MC8442 – 12–110 V

BRAND: SPEAKER







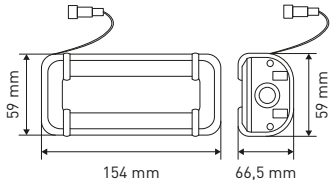
- Technology: LED 2 pieces
- Mounting: pedestal M10
- Colour: red
- Nominal power: 6 W
- IP67
- Connector: J2 built-in

REF 100MC8443 – 12–80 V

SAFETY ZONE WARNING LIGHTS

TOTAL SOURCE









- Technology: LED 6 pieces
- Mounting: brackets
- Nominal power: 30 W
- 9–60 V
- IP67

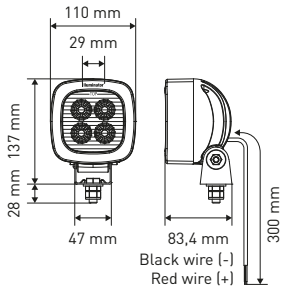
REF 100MC8444 – Red line
REF 100MC8445 – Blue line

One light needed on each side

WORKLIGHTS LED

2Y WARRANTY





Illuminator®

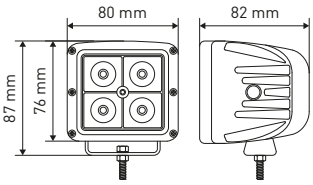
- LED: 4 pieces
- Mounting: pedestal M12
- Wire length: 300 mm
- Theoretical output: 850 lumens
- Operating light output: 450 lumens
- Nominal power: 8,5 W
- IP66

REF 100MC6925 – 12–48 V
REF 100MC7078 – 12–80 V

Multi-voltage

TOTAL SOURCE®





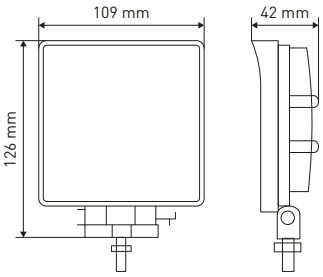
- LED: 4 pieces
- Mounting: pedestal M10
- Wire length: 510 mm
- Theoretical light output: 2100 lumens
- Operating light output: 1600 lumens
- Nominal power: 20 W
- IP67

REF 100MC6927 – 10–48 V

TOTAL SOURCE®

BEST BUY



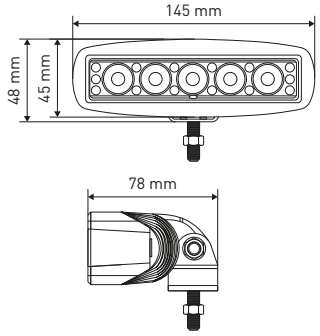


- LED: 6 pieces
- Mounting: pedestal M10
- Extra: 4-point bracket included
- Wire length: 500 mm
- Theoretical output: 900 lumens
- Operating light output: 675 lumens
- Nominal power: 15 W
- IP68

REF 100MC6928 – 10–30 V flood beam
REF 100MC7079 – 10–30 V spot beam
REF 101MC1411 – 12–80 V flood beam

TOTAL SOURCE®



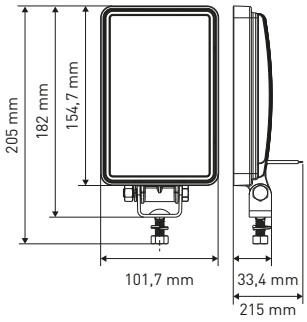


- LED: 5 pieces
- Mounting: pedestal M10
- Extra: 4-point bracket included
- Wire length: 460 mm
- Theoretical output: 900 lumens
- Operating light output: 675 lumens
- Nominal power: 15 W
- IP67

REF 100MC6929 – 9–32 V flood beam

WORKLIGHTS LED

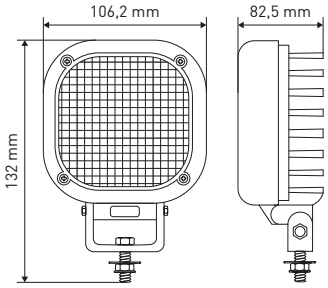




- LED: 12 pieces
- Mounting: pedestal M8
- Wire length: 185 mm
- Theoretical output: 900 lumens
- Operating light output: 750 lumens
- Nominal power: 24 W
- IP67

REF 100MC6930 – 12–48 V



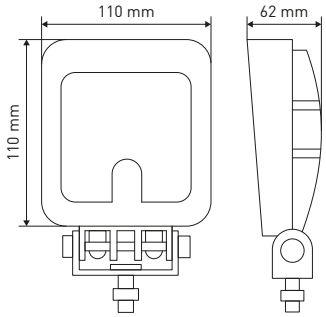


- Mounting: pedestal M8
- Wire length: 5000 mm
- Theoretical output: 900 lumens
- Operating light output: 600 lumens
- Nominal power: 38 W
- IP69

REF 100MC6931 – 12–48 V flood beam

BEST BUY

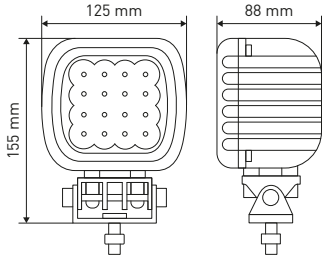




- LED: 9 pieces
- Mounting: pedestal M10
- Extra: 4-point bracket included
- Wire length: 475 mm
- Theoretical output: 1650 lumens
- Operating light output: 1226 lumens
- Nominal power: 27 W
- IP68

REF 100MC6934 – 10–30 V flood beam
REF 100MC7080 – 10–30 V spot beam





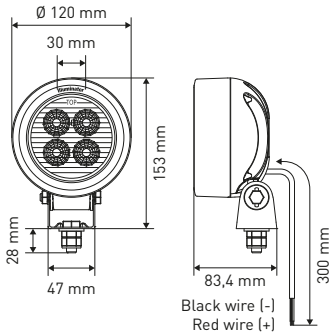
- LED: 16 pieces
- Mounting: pedestal M10
- Wire length: 465 mm
- Theoretical output: 4800 lumens
- Operating light output: 3450 lumens
- Nominal power: 48 W
- IP68

REF 100MC6936 – 12–30 V flood beam
REF 100MC7082 – 12–30 V spot beam

WORKLIGHTS LED

2Y WARRANTY





Illuminator

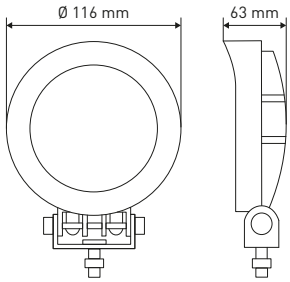
- LED: 4 pieces
- Mounting: pedestal M12
- Wire length: 290 mm
- Theoretical output: 800 lumens
- Operating light output: 450 lumens
- Nominal power: 12 W
- IP66

REF 100MC6938 – 12–48 V round
REF 100MC7084 – 12–80 V round

Multi-voltage

BEST BUY



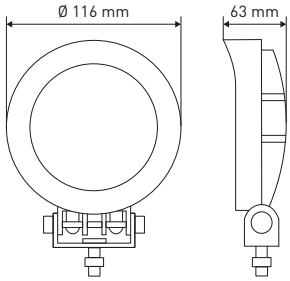


TOTAL SOURCE

- LED: 6 pieces
- Mounting: pedestal M10
- Extra: 4-point bracket included
- Wire length: 500 mm
- Theoretical output: 1080 lumens
- Operating light output: 810 lumens
- Nominal power: 18 W
- IP68

REF 100MC6941 – 10–30 V flood beam
REF 100MC7111 – 12–48 V spot beam
REF 101MC3785 – 12–80 V flood beam





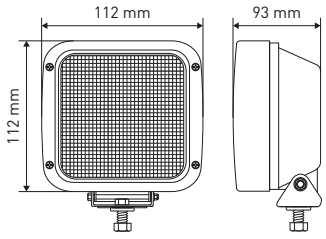
TOTAL SOURCE

- LED: 9 pieces
- Mounting: pedestal M10
- Extra: 4-point bracket included
- Wire length: 490 mm
- Theoretical output: 1650 lumens
- Operating light output: 1226 lumens
- Nominal power: 27 W
- IP68

REF 100MC6942 – 9–32 V flood beam
REF 100MC7086 – 9–32 V spot beam

WORKLIGHTS





TOTAL SOURCE

- Technology: halogen
- Mounting: pedestal M10
- IP6K9K
- Bulb included
- Connector: J2

REF 100MC6946 – Without bulb
REF 100MC7089 – 12 V
REF 100MC7113 – 24 V

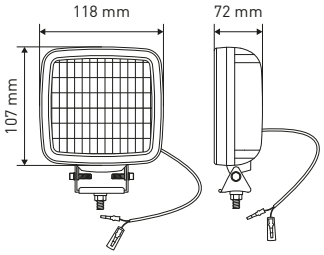
Replacement parts:
REF 100MC6705 – Bulb: H3 12 V 55 W
REF 100MC6706 – Bulb: H3 24 V 70 W

WORKLIGHTS

BEST BUY

TOTAL SOURCE





- Technology: halogen
- Mounting: pedestal M10
- Wire length: 225 mm
- Nominal power: 55 W
- Bulb included

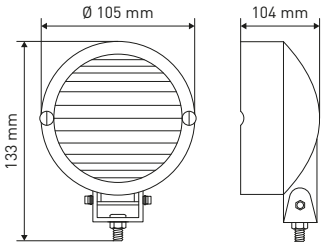
REF 100MC6949 – 12 V

Replacement parts:

REF 100MC7168 – Bulb: H3 12 V 55 W
REF 100MC7208 – Replacement lens

TOTAL SOURCE





- Technology: halogen
- Mounting: bracket
- IP65
- Bulb not included
- Extra: 4-point bracket included

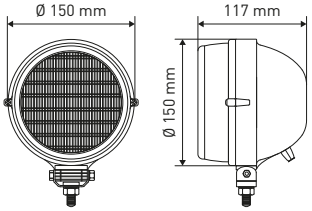
REF 100MC6956 – Without bulb
REF 100MC7092 – 12 V
REF 100MC7115 – 24 V

Replacement parts:

REF 100MC7168 – Bulb: H3 12 V 55 W
REF 100MC7209 – Bulb: H3 24 V 70 W

HELLA





- Technology: halogen
- Mounting: pedestal M10
- IP5K4K
- Bulb not included

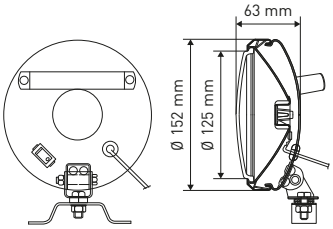
REF 100MC6958 – 12–24 V without hand grip
REF 100MC7093 – 12–24 V with hand grip

Replacement parts:

REF 100MC6705 – Bulb: H3 12 V 55 W
REF 100MC6706 – Bulb: H3 24 V 70 W

TOTAL SOURCE





- Technology: halogen
- Mounting: 2-point bracket
- Extra: protection guard and on/off switch
- Bulb included

REF 100MC6959 – 12 V
REF 100MC7094 – 24 V

Replacement parts:

REF 100MC6705 – Bulb: H3 12 V 55 W
REF 100MC6706 – Bulb: H3 24 V 70 W

LIGHT KITS



12 V or 24 V kit for standard forklift

Contents:
- 1 x symbol lens light
- 2 x front light
- 2 x number plate light
- 1 x left rear light
- 1 x right rear light
- 2 x flashing light
- 1 x direction switch

REF 100MC6968 – 12 V
REF 100MC7096 – 24 V

E-approved



LED on-road kit 12–24 V

Contents:
- 2 x front light
- 1 x indicator relais LED
- 1 x back-up alarm
- 1 x rear light left with 6 functions
- 1 x rear light

REF 100MC6969

E-approved



Safety kit for forklift

Contents:
- 1 x strobe light 12–100 V
- 1 x back-up alarm
- 1 x mirror
- 1 x decal with forklift

REF 100MC6970

TOTAL SOURCE





- Technology: LED
- Mounting: 2 bolts
- Centre distance 790 mm
- Wire length: 4000 mm with male 7-pin plug
- Functions: rear, stop, turn, number plate, reflector and triangle reflector
- Certified CE E11

REF 100MC6971 – 12 V

E-approved

LED HANDHELD TORCH LIGHTS



- Light output: 810 lumens
- 10 W powered LED
- 3 lighting modes: max power, ECO, flashing
- Adaptor: AC 110 – 220 V – 50/60 Hz
- Rechargeable battery: 4 V 9 Ah
- Max autonomy: 7 h/13 h

REF 100MC6962



- New technology – searchlight with innovative optical design (Magic Lens) and high-intensity LED light source array
- With 4 high-powered 10 W CREE LEDs
- 14,4 V 5000 mAh Li-ion battery pack – with charging and over discharging protection
- With flood lens + 400 m scope
- 4 power output modes: 100%, 50%, 25% and flash
- Shock-resistant nylon housing
- Heat-resistant
- Carrying case with accessories: battery, AC-charger, strap, flood lens
- Dimensions (L x W x H): 268 x 114 x 147 mm
- IP55

REF 100MC6963



- LED nominal power: 3 W
- Light output: up to 250 lumens
- Waterproof
- Holder with magnetic base
- Warning, signal, back-up and emergency light
- Super compact: total length 120 mm without/190 mm with emergency cover

REF 100MC6964 – Short version
REF 101MC1412 – Long version

LED HANDHELD TORCH LIGHTS



- 30-LED handheld work lamp
- Working time: up to 4 hours on a full charge
- With charge indicator and universal AC-charger
- With rubber surface cover
- Total length: 285 mm

REF 100MC6965



- Nominal power: 15 W
- Operating light output (100%): 1080 lumens
- LED: 5 pieces
- Housing: aluminium
- Lens: polycarbonate
- Autonomy: 3–4 h (100% brightness)
- IP67
- 240 V EU charger and 12 V car plug charger included
- With magnetic base

REF 100MC8233

MAGNETIC MINI WORKLIGHT



- Technology: LED
- Length: 155 mm
- Wire length: 100 mm
- 100–240 V
- IP20
- Rechargeable via USB
- USB-cable included

REF 101MC1413

LED HANDHELD WORKLIGHTS



- 60-LED handheld work lamp
- Working time: up to 4 hours on a full charge
- With charge indicator and universal AC-charger
- With swivel hooks and charge base
- Total length: 390 mm

REF 101MC1414

WORKLAMP



- Dimensions: 495 x 110 x 285 mm
- Wire length: 5 m rubber cable
- Shock-resistant
- 230 V 50 Hz
- 72 W (2 x 36 W TC-L) = 300 W light output
- IP54 splashproof
- Diffuser and casing made of impact-resistant material
- Multipositional arm
- 2 x 230 V safety sockets on the back

REF 100MC6966

CONNECTORS – NICE TO KNOW

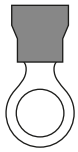
Connectors

A lot of our lights are equipped with a connector. Each connector has a code: the number of that code indicates the number of possible connections of the connector. The letter is the position of the connector in the list of connectors.

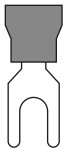
Each light with at least one connector will be marked with the right connector code. This will make it easy for you to find the corresponding connector for a specific light.

If you are looking for a specific light for your machine, you can easily look up your lights via our online search engine MyPartsFinder by means of the truck details.

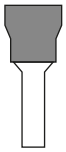
CONNECTORS – 1 PIN



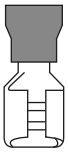
A1



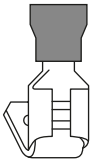
B1



C1



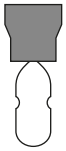
D1



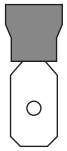
E1



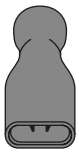
F1



G1



H1



I1



J1



K1

CONNECTORS – 2 PINS



A2



B2



AMP C2



D2



Deutsch E2



F2



AMP G2



H2



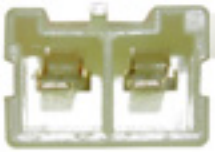
I2



J2



K2



L2



M2

CONNECTORS – 3 PINS



A3



B3



C3



D3



AMP E3



F3



G3



Deutsch H3



I3



J3

CONNECTORS – 4 PINS



Deutsch A4



B4



C4



D4



E4



F4



G4



H4



I4



J4



AMP K4



L4



M4

CONNECTORS – 5 PINS



A5



B5



C5



D5



E5

CONNECTORS – 6 PINS



A6



B6



Deutsch C6



Deutsch D6



Deutsch E6



AWP F6



G6



H6



I6



AWP J6



K6



L6



M6



N6



O6



P6



Q6

CONNECTORS – 7 PINS



A7



B7

CONNECTORS – 8 PINS



A8

PEDESTRIAN ALERTS



Kit contains:

- Control unit with camera
- 7" LED Quad display monitor

Pedestrian Alert with camera

With camera and 7" LED quad display monitor	Multicable with connector	REF
	m	
Small machines	5	**100MC7006**
Forklifts	10	**100MC7007**

Only works with TVH Pedestrian Alert systems



Kit contains:

- Control unit without camera
- Buzzer alarm with light and interface box

Pedestrian Alert kit with buzzer alarm and light

With buzzer alarm, light and interface box	Multicable with connector	REF
	m	
Small machines	5	**100MC7008**
Forklifts	10	**100MC7009**

Only works with TVH Pedestrian Alert systems



Personal bracelet with charger

- To alert the pedestrian by vibration and sound in case of a risk in a danger zone
- Minimum 1 per person

* Works only with TVH Pedestrian Alert systems
(REF 100MC7007 – REF 100MC7009 – REF 100MC7006 – REF 100MC7008)

REF 100MC6972

SHOCK DETECTOR



Stand-alone shock detector

The stand-alone shock detector is an impact detector that can be mounted on any material handling vehicle. If the vehicle is bumped beyond the preset impact level, an alarm will sound to let the supervisor know an incident has occurred.

Features:
- 0,1–7,5 G 3-axis accelerometer
- Operating voltage: 12–80 VDC
- Configuration by internal DIP switch
- Number of calibration levels: 16
- Frequency remote control: 4 bands: 25, 100, 375, 750 Hz
- Distance control by RF switch at ± 10 metres
- Operating temperature: –20 °C to 60 °C

REF 100MC6973

Recommended optional item:



Remote control

REF 100MC7097

BACK-UP ANTI-COLLISION ALERT



Back-up anti-collision alert mounted sensor

This device is an ultrasonic rear obstacle detection system and an invaluable aid to safety. With up to 4 sensors it is possible to detect any object within 3 metres.

Features:
- Ultrasonic and high-tech sensor system
- Detection range of 3 metres
- Rapid response time
- Waterproof and shockproof design
- 12/24 V
- Very easy installation
- Performs very well in humid weather (even rain)

REF 101MC3749 – Mounted sensor
REF 101MC3750 – Built-in sensor

Recommended optional item:



Mounting kit

REF 101MC3761



Spare sensor

REF 101MC3762

PROFESSIONAL ANTI-COLLISION ALERTS



This is the most advanced manoeuvring assistant you can find on the market. It warns the driver with visual signals and buzzer. Exclusively designed and developed to suit your demand: our professional manoeuvring assistant simplifies the daily work of forklift truck drivers operating either indoor or outdoor, especially at depots.

Features:
- IP65
- Easy installation
- Easy configuration
- A high-performing system
- Robust design
- Recommended for forklifts up to 2 m wide
- 12–36 V max

REF 100MC6974



If the vehicle width exceeds 1,5 metres, two sensors are required to cover the operational extended area, thus effectively detecting any obstacle.

Features:
- IP65
- Easy installation
- Easy configuration
- A high-performing system
- Robust design
- 12–36 V max

REF 100MC6975

PROFESSIONAL ANTI-COLLISION ALERTS





Professional anti-collision alert with engine stop

This collision avoidance system is an active manoeuvring system for forklift trucks and industrial vehicles which detects potential obstacles in the operating range of forklift truck. Whenever an imminent collision risk is spotted, visual and acoustic signals warn the operator, while this system automatically slows down and prevents the movement of the forklift truck before the accident occurs.

Features:

- IP65
- The operator is alerted to any situation of imminent danger by specific colour codes, an acoustic signal is heard in case of imminent collision only
- The system automatically slows down and prevents the movement of the forklift truck
- A compact design allows the sensor to be easily placed on the rear part of the truck whilst the display is conveniently set in the cabin in front of the operator
- 12–36 V max

REF 100MC6976

GUIDANCE SYSTEMS

Laser guidance system





Prevent forklift accidents that can cause damaged pallets, product and rack breakage and even injuries. With one of the laser modules, producing a bright red laser, your forklift driver has a constant visual reference. Improve the productivity of your employees and reduce labour costs. With a line laser, showing you where the forks aim, loading pallets at any height becomes safer and more efficient.

Features:

- For indoor or outdoor use (cold storage)
- With a line laser or a dot laser
- For different carriage sizes (from class II to IV)

- **Vibration-controlled modules:**
  When motion is detected, the laser activates; after 4 minutes of inactivity, the laser will switch off to save battery power.

- **RF (radio frequency-controlled) modules:**
  Remote control feature, using a key fob the forklift driver can turn the laser on and off.

- **Height-controlled:**
  Laser activates when the forks reach a height of 2 metres, then turns off once the forks are below 2 metres.

For indoor use:

	REF vibration-controlled	REF height-controlled	REF RF-controlled
Line laser —			
Carriage class II	100MC9500	100MC9502	100MC9503
Carriage class III	100MC9501	100MC9504	100MC9505
Carriage class IV	100MC9506	100MC9507	100MC9508
Dot laser ●			
Carriage class II	100MC9509	100MC9510	100MC9511
Carriage class III	100MC9512	100MC9513	100MC9514
Carriage class IV	100MC9515	100MC9516	100MC9517

For outdoor use (cold storage):

	REF vibration-controlled	REF height-controlled	REF RF-controlled
Line laser —			
Carriage class II	100MC9518	100MC9519	100MC9520
Carriage class III	100MC9521	100MC9522	100MC9523
Carriage class IV	100MC9524	100MC9525	100MC9526
Dot laser ●			
Carriage class II	100MC9527	100MC9528	100MC9529
Carriage class III	100MC9530	100MC9531	100MC9532
Carriage class IV	100MC9533	100MC9534	100MC9535

Included:

- Hardware kit
- Battery pack
- Instruction manual

Recommended optional items:



Spare battery pack

REF 100MC9498



Battery charger

REF 100MC9499

MECHANCAL THROTTLE-SPEED LIMITERS



Mechanical throttle-speed limiters

Our speed limiters prevent the forklift operator from exceeding a preset speed limit. We can offer different kits in 12 V and 24 V depending on your type of forklift.

Features:
- Limits travel speed of vehicle
- Easy installation
- Fully adjustable, does not affect the hydraulic lifting performance
- Works in forward and reverse
- Fuel consumption is reduced
- Forklift tyre savings
- Reduces engine noise level

REF 100MC6977 – 12 V kit
REF 100MC7098 – 24 V kit

WARNING SYSTEM

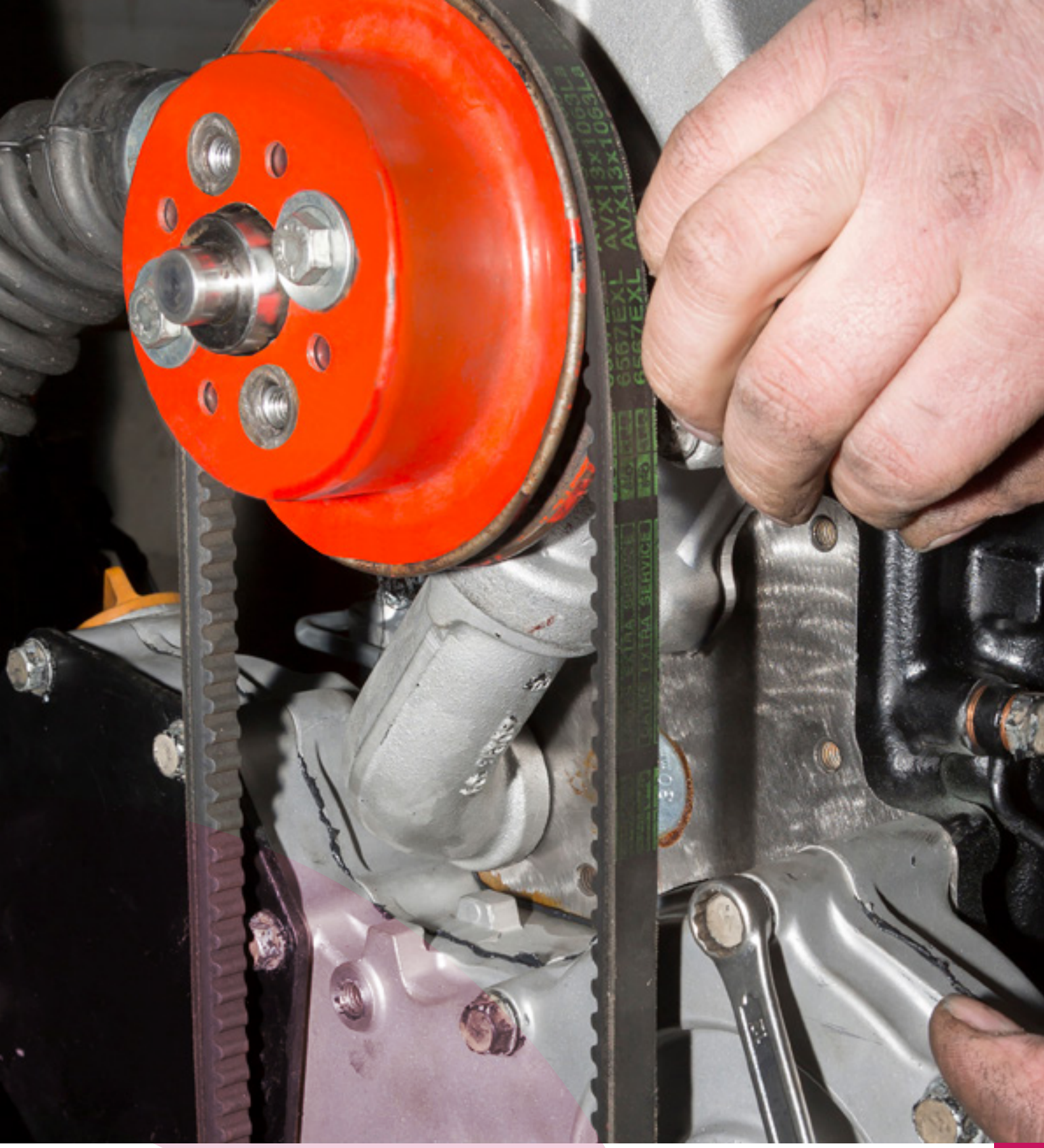


Overspeed warning system

As a driver you are not always aware that you are speeding. This system offers you a full kit, with buzzer and warning light, which will be activated as soon as a certain speed is reached.

Features:
- Suitable for gas, diesel and electric trucks
- Recommended for forklift truck operating areas that are used by pedestrians
- Fully adjustable, works in forward and reverse
- Lifting capability of the vehicle is not affected
- 12–24 V

REF 100MC6978



ENGINE

SEALS





Consult the 'Exhaust systems' catalogue (REF 10727802).

Go to downloads on www.tvh.com to view the catalogue online.

ENGINE PARTS CATALOGUE



Please consult our 'Engine parts' catalogue (REF 34167446) for more information.

Go to downloads on www.tvh.com to view the catalogue online.

FLEXIBLE TUBES



- Measured fully compressed
- Sold per metre

Inner diameter	REF	
mm	Galvanised	Stainless steel
22	100MC2386	100MC2418
25	100MC2387	100MC2419
30	100MC2388	100MC2420
35	100MC2389	100MC2421
38	100MC2390	100MC2422
40	100MC2391	100MC2423
42	100MC2392	100MC2424
45	100MC2393	100MC2425
48	100MC2394	100MC2426
50	100MC2395	100MC2427
55	100MC2396	100MC2428
58	100MC2397	100MC2429
60	100MC2398	100MC2430
65	100MC2399	100MC2431
67	100MC2400	100MC2432
70	100MC2401	100MC2433
75	100MC2402	100MC2434
77	100MC2403	100MC2435
80	100MC2404	100MC2436
85	100MC2405	100MC2437
90	100MC2406	100MC2438
95	100MC2407	100MC2439
100	100MC2408	100MC2440
102	100MC2409	100MC2441
110	100MC2410	100MC2442
115	100MC2411	100MC2443
120	100MC2412	100MC2444
125	100MC2413	100MC2445
128	100MC2414	100MC2446
130	100MC2415	100MC2447
140	100MC2416	100MC2448
150	100MC2417	100MC2449



HEAT-RESISTANT EXHAUST WRAPPINGS



- Sold per roll
- Thermal insulation max temperature 550 °C

Dimensions			REF
Length m	Width mm	Thickness mm	
25	30	3	100MC2450
50	30	3	100MC2454
25	75	3	100MC2451
50	50	3	100MC2452

PIPE EXHAUST SLEEVES



- Sold per metre
- Thermal insulation max temperature 550 °C

Diameter mm	REF
40	100MC2455
45	100MC2456
50	100MC2457
57	100MC2458
76	100MC2459

EXHAUST CAPS



For pipe diameter mm	REF
38	100MC2460
44	100MC2461
51	100MC2462
57	100MC2463
60	100MC2464
64	100MC2465
70	100MC2466
76	100MC2467
89	100MC2468
102	100MC2469
110	100MC2470
114	100MC2471
120	100MC2472
127	100MC2473
140	100MC2474
152	100MC2475

EXHAUST MOUNTING PASTE



CRC

- Facilitates the installation assembly of exhaust components
- Asbestos-free
- Content: 150 g

REF 100MC8216

EXHAUST REPAIR GUM



CRC

- Hardness completely by an overnight dry
- Easily applied by hand or with a putty knife
- Asbestos and solvent-free
- With stands heat, water and vibration after hardening
- For reparation of small holes and cracks in exhaust systems
- Content: 200 g

REF 100MC8217

STANDARD EXHAUST CLAMPS



Inner diameter mm	REF
26	100MC2476
28	100MC2477
32	100MC2478
36	100MC2479
38	100MC2480
40	100MC2481
42	100MC2482
45	100MC2483
48	100MC2484
50	100MC2485
52	100MC2486
54	100MC2487
58	100MC2488
60	100MC2489
65	100MC2490

Inner diameter mm	REF
67	100MC2491
70	100MC2492
73	100MC2493
75	100MC2494
80	100MC2495
83	100MC2496
90	100MC2497
95	100MC2498
102	100MC2499
105	100MC2500
110	100MC2501
115	100MC2502
120	100MC2503
127	100MC2504
130	100MC2505

HEAVY-DUTY EXHAUST CLAMPS



Inner diameter mm	REF
51	100MC2507
57	100MC2508
64	100MC2509
70	100MC2510
76	100MC2511
83	100MC2512
89	100MC2513
102	100MC2514
127	100MC2515

CATALYTIC CONVERTERS

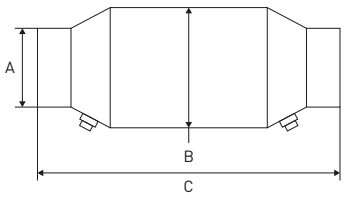
· Treatment of exhaust gases: every engine produces emissions at different pollution levels
· Exhaust gases in PPM (particles per million)

Solution:
· Oxidation catalytic converters
· The 2-way catalytic converter reduces CO gases up to 99% and HC gases up to 90%

Typical exhaust gas levels	Harmfulness	LPG	Diesel	Gasoline
CO: Carbon monoxides	toxic	380–10 000	180–4000	18 000–70 000
Nox: Nitrogen oxides	toxic	180–4500	260–2000	250–4500
HC: Hydrocarbons	toxic	90–300	275–2000	250–600
Aldehydes	irritants	10–100	10–300	100–300
Soot/particle matter	toxic		0,24 g/m²	0,05 g/m²

STANDARD WELDED DESIGN CATALYTIC CONVERTERS



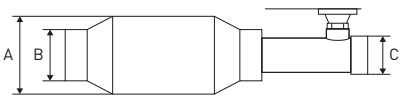


Displacement*	Dimensions			REF
cc	A mm	B mm	C mm	
2380	38	79	184	100MC2516
2380	44	79	184	100MC2517
2380	51	79	184	100MC2518
2380	64	79	184	100MC2519
3970	38	102	234	100MC2520
3970	44	102	234	100MC2521
3970	51	102	234	100MC2522
3970	64	102	234	100MC2523
3970	76	102	234	100MC2524
6290	51	127	244	100MC2525
6290	64	127	244	100MC2526
6290	76	127	244	100MC2527
6290	89	127	244	100MC2528
6290	102	127	244	100MC2529
9230	64	152	264	100MC2530
9230	76	152	264	100MC2531
9230	89	152	264	100MC2532
9230	102	152	264	100MC2533

* For turbo engines, multiply displacement (CC) x 1,4

FOR LPG & GASOLINE ENGINES (LEAD-FREE)





Max engine power	Max exhaust flow	Dimensions				REF
HP (kW)	m³/h	A mm	B mm	C mm	D mm	
32 (23,9)	192 (326)	80	45	45	315	100MC2534
32 (23,9)	192 (326)	79	52	52	300	100MC2535
53 (39,5)	318 (540)	102	52	52	350	100MC2536
53 (39,5)	318 (540)	102	44	44	350	100MC2537

For further information, please contact us

FUEL HOSES



- Sold per metre
- Application: fuel hose
- Work pressure: 10 bar
- Temperature range: –25 to 70 °C

Inner diameter mm	Operating pressure bar	Burst pressure bar bar	Temperature °C	REF Per metre
3,5				100MC8116
4,5				100MC8117
5,5	WP7	30	–30–70	100MC2784
6				100MC8118
7,5	WP7	30	–30–70	100MC2785
9	WP7	30	–30–70	100MC2786
10				100MC8119
11	WP7	30	–30–70	100MC2787

PVC HOSES



Please indicate the length and the diameter

Inside diameter mm	Outside diameter mm	REF Per metre
3	5	100MC2923
4	6	100MC2924
4	7	100MC2925
5	7	100MC2926
5	8	100MC2927
6	8	100MC2928
7	10	100MC2929
9	13	100MC2930
12	16	100MC2931
14	18	100MC2932
18	24	100MC2933

HOSES AND FITTINGS

Gas hose assemblies – DIN 4815 T4 – 5/16" (8 mm)



A: 500 mm
B: 750 mm
C: 1000 mm
D: 1250 mm
E: 1500 mm
F: 1750 mm
G: 2000 mm

Example: 2 x A x 2



1



1/4" NPT male

2



3/8" SAE (5/8" UNF)

3



3/8" SAE – 90° (5/8" UNF)

4



5/16" SAE (1/2" JIC)

5



5/16" SAE – 90° (1/2" JIC)

Combination	REF
1 x B x 1	100MC2942
1 x D x 1	100MC2943
1 x E x 1	100MC2944
1 x F x 1	100MC2945
1 x B x 3	100MC2946
1 x C x 3	100MC2947
1 x E x 3	100MC2948
1 x A x 4	100MC2949
1 x B x 4	100MC2950
1 x C x 4	100MC2951
2 x B x 1	100MC2952
2 x C x 1	100MC2953
2 x D x 1	100MC2954
2 x E x 1	100MC2955
2 x F x 1	100MC2956
2 x A x 2	100MC2957
2 x B x 2	100MC2958
2 x C x 2	100MC2959
2 x D x 2	100MC2960
2 x E x 2	100MC2961
2 x F x 2	100MC2962
4 x A x 4	100MC2963
4 x B x 4	100MC2964
4 x C x 4	100MC2965
4 x E x 4	100MC2966
4 x B x 5	100MC2967

If your combination is not listed, please select end fitting and length and fax us your combination ...

Gas hose assemblies – DIN 51622 – 3/8" (10 mm)



T: 500 mm
U: 750 mm
V: 1000 mm
W: 1250 mm
X: 1500 mm
Y: 1750 mm
Z: 2000 mm

Combination	REF
6 x V x 7	100MC2968
6 x X x 7	100MC2969

6



3/4" JIC – 90°

7



5/8" JIC

PLASTIC PROTECTIVE COIL SLEEVES



Inner diameter mm	REF
7	100MC3003
9	100MC3004
13	100MC3005
16	100MC3006
20	100MC3007
25	100MC3008
30	100MC3009
40	100MC3010
50	100MC3011

STEEL PROTECTIVE COIL SPRINGS



Inner diameter mm	REF
13	100MC2970
15	100MC2971
17	100MC2972
19	100MC2973
21	100MC2974
23	100MC2975
26	100MC2976
29	100MC2977
33	100MC2978
41	100MC2979
48	100MC2980
54	100MC2981

FILTERS





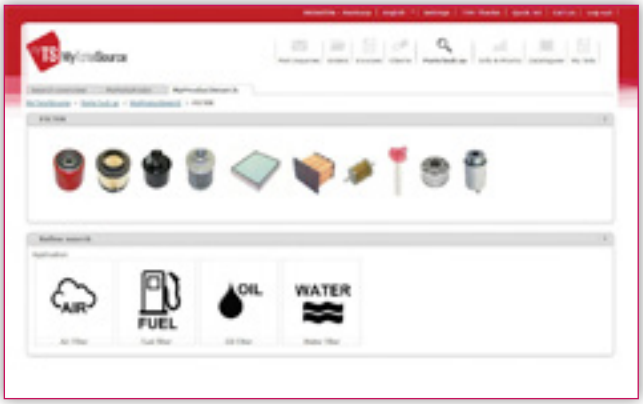
We can offer you filters suitable for the following makes:

Algas, Allis Chalmers, Ameise, AMC, Argo-Hytos, Arlon, Atlet, Audureau, Baker, Baldwin, Balkancar, Bobcat, Bosch, Brunilift, BT, BV Transpallet, Caterpillar, CAV Clark, Clean, Continental, Coopers, Coventry, Crosland, Crown, Cummins, DAF, Desta, Deutz, Donaldson, Fantuzzi, Fendt, Fenwick, Fiat, Fleetguard, Ford, Fram Filters, Heden, Hengst, Henley, Hino, Hyster, Isuzu, Jungheinrich, Kalmar, Kentruck, Knecht, Komatsu, Kubota, Lancer Boss, Lansing, Linde, Luberfiner, Lugli, M.A.N., Mahle, Manitou, Mann & Hummel, Massey Ferguson, Mazda, Mercedes, Merlo, Mic, Mitsubishi, Mora, Motorcraft, Nippon-Denso, Nissan, Nichiyu-Nyk, Peg, Perkins, Peugeot, Purflux, Purolator, Renault, Salev, Saxby, Steinbock, Still, Svetruck, TCM, Technocar, Tennant, Toyota, UCC, Unitrac, Valmet, Volvo, VW, Waukesha, Win, Wix, Woodgate, Yale, Yanmar, Zetor, ZF



myTS MyTotalSource

myPS MyProductSearch



MyProductSearch
Look up your filter via MyProductSearch by means of the dimensions.

Go to downloads on www.tvh.com to view the different filter catalogues.

SOOT FILTERS

In need of clean air?

When it gets colder outside, the doors of the warehouse are closed. This causes the exhaust fumes of the diesel lift trucks to remain indoors. By means of soot filters you can keep the noxious gases out of the air.
A soot filter collects the harmful emission of soot particles, which pollute the air and are harmful to our health.
Furthermore the installation of a soot filter is mandatory in an increasing number of countries. TVH recommends users of a diesel engine to install a soot filter. Below you can find an overview of the different soot filters in our range, with their advantages and any remarks.

SOOT FILTERS WITH REPLACEABLE FILTER CARTRIDGES



Installation on the roof or on the counterweight of the lift truck. Select the correct filter based on the engine capacity.

Advantages:
- BAFU, EST and TRGS 554-certified
- Efficiency > 97% on particle mass and > 99,9% on particle number
- Good solution for the winter period, when the gates of the warehouse are kept closed

Remark:
Average filter life time is around 250 working hours, depending on the condition and the maintenance of the engine

Also available:
- Pressure control kit
- LED light shows the operator if the filter is working correctly or if any necessary maintenance is required
- REF 100MC7964 – 12 V
- REF 100MC7965 – 24 V
- Overpressure valve

Capacity*	REF	
kW	System	Replacement filter
0–29	100MC7966	100MC7971
29–59	100MC7967	100MC7972
59–88	100MC7968	100MC7973
88–147	100MC7969	100MC7974
147–221	100MC7970	100MC7975

* is your machine equipped with a turbo-charged engine? Then multiply the capacity by 1,3 to select the correct reference.

For further information, please contact us.

SOOT FILTERS OFF-BOARD WITH REGENERATION





Advantages:

- 97% efficiency
- The filter can quickly and easily be replaced and be re-used after it has been burned out
- Continuous functioning of 16–24 hours before regeneration

Remark:

Consists of a silicon-carbide filter

Capacity	REF		
kW	Base system	Regeneration unit	Extra filter cartridge
5–20	100MC9670	100MC9676	100MC9678
20–40	100MC9671	100MC9676	100MC9679
40–65	100MC9672	100MC9676	100MC9680
65–90	100MC9673	100MC9677	100MC9681
90–120	100MC9674	100MC9677	100MC9682
120–150	100MC9675	100MC9677	100MC9683

DIESEL ADDITIVE



- Optimises the combustion efficiency of diesel engines
- Reduces the formation of deposits in the diesel injector nozzles
- Reduces the emission of smoke
- Once-only application
- Content: 200 ml

REF 100MC8218

ADJUSTABLE OIL FILTER WRENCH

LIFE WARRANTY



- For oil filters
- Diameter: 65–110 mm

REF 100MC8219

ADJUSTABLE OIL FILTER WRENCH, THREE ARMS

LIFE WARRANTY



- For oil filters
- Diameter: 60–120 mm

REF 100MC8220

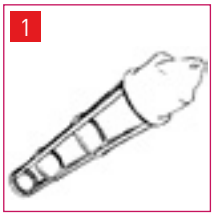
WATER ELIMINATORS

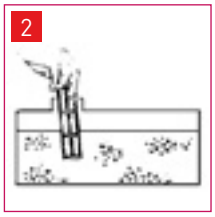


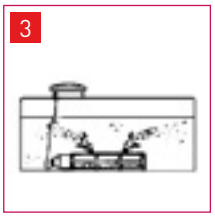
Specifications:
- 2 pieces: cartridge + lanyard
- Large type
- Length: 182 mm
- Diameter: 32 mm

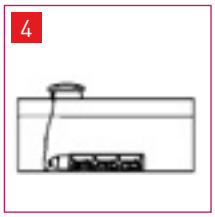
The cartridge contains a small amount of dry crystals, which are chemically water "magnetic", which means they will only accept water molecules into their structure. The crystals will expand to 500 times their own volume in the presence of water.
To fit, remove the fuel filler cap and insert the cartridge into the tank securing the lanyard.

The safe and easy way to remove water from your fuel system.









For use in:
- Diesel
- Petrol
- Kerosene
- Fuel oil
- Hydraulic fluid
- Mineral spirits

Product benefits:
- Extended filter, pump and injector life
- Reduced maintenance costs
- Easy installation and safe disposal
- Trouble-free efficient running

REF 100MC8163

WATER FINDER SPECIAL



- Paste that detects the presence of water in gasoline tanks
- Quick and simple detection of water
- Directly visible through clear alteration in colour
- Works also if, besides water, methanol or tert-Butanol (TBA) is present
- 70 g

REF 100MC8164

TIMER RELAYS – GLOW PLUGS

	Voltage	Amperage	Info	REF
	12	18	Engine warm glows: 2 sec Cold glows 10 sec	100MC8165
	12	70	Glow time: 5 sec	100MC8166
	12	15	Glow time: 7 sec	100MC8168
	12	15	Glow time: 7 sec	100MC8169
	12	20	Glow time: 7 sec Post glow time: 10 sec	100MC8173
	12	80	Glow time: 30 sec	100MC8177
	12	73	Glow time: 11 sec	100MC8180

TIMER RELAYS – GLOW PLUGS

	Voltage	Amperage	Info	REF
	12	50	Glow time: 8 sec	100MC8183
	12	50	Glow time: 8 sec	100MC8187
	12	50	Glow time: 15 sec	100MC8188
	12	50	Glow time: 5,7 sec	100MC8189

GLOW PLUGS – TECHNICAL SHEET

Group	Example	Customer details
02-10-08-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY . . . . . Glow plug type (as per picture)

U . . . . . Voltage (Volt)

TA . . . . . Thread type

Pm . . . . . Pitch of thread (metric)

Pi . . . . . Pitch of thread (inch)

RH/LH . . . . . Right-hand or left-hand thread

L . . . . . Overall length (mm)

A . . . . . Sheath, wire, case length (mm),
see figure (up to underneath the seat for type B & C)

B . . . . . Length of thread (mm)

Slw. . . . . Spanner key width

SN . . . . . Heating speed:

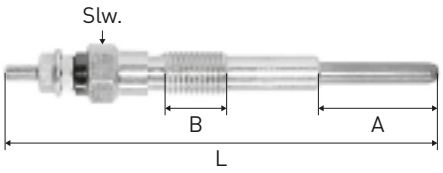
T = slow (more than 15 sec)

S = fast (less than15 sec)

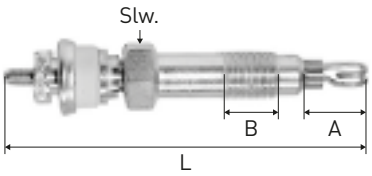
GLOW PLUGS – TECHNICAL SHEET

TYPES

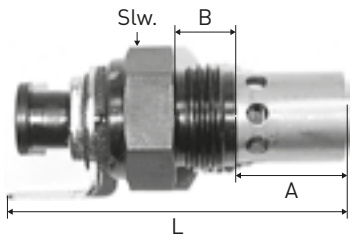
Type A
Sheated glow plug



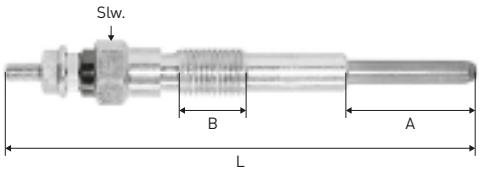
Type B
Wire glow plug



Type C
Flame glow plug



GLOW PLUGS – TYPE A



	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	46,0	18,8	5,0	12	M10	8,0	Manitou	100MC1576
	58,0	20,0	11,0	12	M12	11,0	Linde, VW	100MC1597
	61,0	20,0	11,0	12	M12	24,0	Linde, Still, VW	100MC1598
	65,0	18,0	9,0	12	M10	11,0	Nissan, TCM	100MC1543
	66,0	20,0	11,5	12	M12	11,0	Lister-Petter, Manitou, Moffett	100MC1533
	67,0	17,0	12,0	12	M10	10,0	Doosan, Komatsu, Manitou, Mustang, Takeuchi, Yanmar	100MC1604
	68,0	17,0	13,0	12	M10	10,5	Nissan, TCM	100MC1546
	68,3	17,0	11,0	12	M10	11,0	Doosan, Hyster, Linde, Nissan, Still, Yale, Yanmar	100MC1524

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	69,0	19,0	11,0	12	M8	11,0	JCB, Perkins, Wacker-Neuson, Weidemann	100MC1610
	69,0	24,0	11,0	12	M12	22,5	Landrover	100MC1601
	69,7	19,0	12,0	10	M8	11,0	Combilift, Kubota, Moffet, Schäffer, TCM	100MC1574
	70,0	19,0	11,0	12	M10	11,0	Nissan, TCM	100MC1545
	70,0	19,0	13,0	12	M10	10,5	Allis-Chalmers, Komatsu, Nissan, TCM	100MC1550
	70,0	19,0	13,0	12	M10	23,0	Komatsu, Nissan, TCM	100MC1551
	71,0	24,0	10,0	12	M12	18,0	Mercedes, Still	100MC1532
	71,0	19,0	12,0	12	M10	24,0	Nissan, TCM	100MC1548
	71,0	20,0	10,0	12	M10	9,5	Allis-Chalmers, Komatsu, Nissan, TCM	100MC1552
	71,2	24,0	12,0	12	M12	11,0	Boss/Steinbock, Climax, Kalmar, Peugeot	100MC1617

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	72,0	17,0	11,0	12	M10	10,5	Bobcat, Kooi-aap, Kubota, Moffett, Schäffer, TCM	100MC1588
	72,0	17,0	11,0	12	M10	11,0	Allis-Chalmers, Bobcat, Hangcha, Komatsu, Kubota, Still, Yanmar	100MC1603
	72,0	17,0	11,0	12	M10	10,5	Bobcat, Kooi-aap, Kubota, Komatsu; Kooi-aap, Manitou, Schäffer, Toyota, Yanmar	100MC1605
	72,2	24,0	12,4	12	M12	11,0	JCB	100MC1609
	73,0	24,5	11,0	12	M12	12,5	Ausa, Deutz, Dieci, Genie, Haulotte, JLG, Lombardini, OM/Fiat, Still, Terex	100MC1621
	73,0	25,0	13,0	12	M12	11,0	Caterpillar, Climax, Fiat, Ford, Manitou, Still	100MC1529
	74,0	16,0	17,0	12	M10	10,5	Bobcat, Genie, Hyundai, JLG, Kubota, Moffett, Schäffer, Toyota	100MC1562
	74,0	18,0	19,0	12	M10	10,0	Ausa, Doosan, Hyundai, Isuzu, Komatsu, Mustang, TCM	100MC1568
	75,0	19,0	17,0	12	M10	20,5	Nissan, TCM	100MC1549
	75,7	25,5	12,0	12	M10	11,0	Boss/Steinbock, Hyster, Perkins, Yale	100MC1538

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	76,0	19,0	12,0	10	M8	11,0	Ausa, Bobcat, Genie, JLG, Kinglifter, Komatsu, Kooi-aap, Kramer, Kubota, Manitou, Moffett, Schëffer, Takeuchi, TCM, Tennant, Terex, Teupen	100MC1620
	76,0	29,0	11,0	12	M12	11,0	Cesab, Clark, Continental, Jelau, Perkins, Samsung	100MC1528
	76,2	21,7	19,2	12	M10	11,0	Iseki	100MC1608
	76,3	24,0	16,0	12	M10	10,5	Mitsubishi, Yanmar	100MC1587
	78,0	25,0	12,0	12	M10	11,0	Hyster, Jungheinrich, Perkins, Steinbock, Yale	100MC1523
	79,5	25,0	10,0	12	M10	11,0	Bobcat, JLG, Kubota, Kooi-aap, Manitou, Moffett,Schäffer, TCM, Terex	100MC1590
	80,6	18,5	20,8	12	M10	11,0	Cummins, Doosan, Hangcha, Terberg	100MC1615
	82,0	24,0	11,5	12	M12	11,0	Bobcat, Deutz, Gehl, Genie, Haulotte, JLG, Kramer, Manitou, Mustang, Nuovo Detas, Terex, Wacker-Neuson, Weidemann	100MC1591
	82,7	22,0	19,0	12	M10	12,0	Jungheinrich, Perkins, Steinbock	100MC1579
	83,0	22,0	20,0	12	M10	10,5	Caterpillar, Clark, JLG, Mitsubishi, Moffett, Nissan, TCM, Terex, Weidemann	100MC1583

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	83,0	23,0	22,0	12	M10	10,5	Caterpillar, Jungheinrich, Mitsubishi, Yale	100MC1581
	84,0	20,0	21,0	12	M10	10,5	Jungheinrich, Mazda, Perkins, Yale	100MC1525
	84,0	22,0	17,0	12	M10	12,0	Bobcat, Halla, Hyundai, Mazda, Perkins, Salev, Samsung	100MC1595
	84,0	23,0	20,0	12	M10	22,5	Clark, Mitsubishi	100MC1582
	84,5	8,0	24,0	12	M10	11,0	Ford, Hyundai, Mitsubishi	100MC1585
	84,8	30,0	11,0	12	M10	11,0	Ausa, Bobcat, Cesab, Combilift, Doosan, Heli, Hyundai, Kubota, Manitou, Moffett, Mustang, Schäffer, Terex, Thomas	100MC1606
	85,0	22,0	10,0	12	M10	11,0	Doosan	100MC1614
	85,0	22,0	21,0	12	M10	10,5	Bobcat, Clark, JCB, Jungheinrich, Komatsu, Manitou, Mitsubishi, Nuovo Detas, Perkins, Salev, Steinbock, Terex, Wacker-Neuson, Weidemann, Yanmar	100MC1535
	86,0	17,0	14,0	12	M10	11,0	Halla, Hangcha, Hyster, Hytsu, Hyundai, Isuzu, Komatsu, Manitou, TCM	100MC1567
	86,0	23,0	20,0	12	M10	22,0	Baoli, Caterpillar, Clark, Mitsubishi, Nissan, TCM	100MC1584

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	86,0	31,0	10,0	12	M10	0,0	TCM	100MC1573
	87,0	15,0	13,0	17	5/8" UNF	11,0	Jungheinrich, Manitou, Perkins, Sambron, Steinbock	100MC1536
	87,0	22,0	26,0	12	M10	11,0	Doosan, Hangcha, Mitsubishi, Nissan, TCM	100MC1547
	87,0	22,0	27,0	12	M10	24,0	Hangcha, Nissan, TCM	100MC1544
	87,0	25,0	12,0	21	M18	9,5	Deutz, Linde, Salev	100MC1531
	87,5	25,0	12,0	19	M18	11,0	Deutz	100MC1530
	88,0	22,0	21,0	12	M10	10,5	Hyster, Isuzu, Mazda, Perkins, Yale	100MC1526
	88,0	24,0	15,0	12	M10	11,0	Hyster, Isuzu, Komatsu, Takeuchi	100MC1522
	88,0	20,0	12,0	17	M14	19,0	Toyota	100MC1553
	89,0	24,0	16,0	12	M10	10,5	Bobcat, Isuzu, Komatsu, Steinbock, TCM	100MC1569

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	89,0	29,0	11,0	10	M10	11,0	Dantruck, Jungheinrich, Manitou, Nissan	100MC1534
	90,0	24,0	14,0	12	M10	9,0	Ausa, Doosan, Isuzu, Komatsu, TCM	100MC1611
	90,0	24,0	15,0	12	M10	9,0	Isuzu, Komatsu, TCM	100MC1565
	91,0	19,0	14,0	19	M18	22,5	Isuzu, Komatsu, TCM	100MC1570
	92,0	24,3	11,0	10	M10	11,0	Linde, Still, VW	100MC1600
	93,0	15,0	13,0	21	M18	9,5	Deutz, Linde, Manitou, Mercedes, Yale	100MC1594
	93,0	23,0	18,0	12	M10	20,5	Isuzu, Komatsu, TCM	100MC1572
	93,0	36,0	14,0	17	M14	10,5	Steyr	100MC1616
	95,0	22,0	14,0	12	M10	21,5	Manitou, Toyota	100MC1559
	96,0	32,0	19,0	12	M10	11,0	Manitou, Toyota	100MC1560

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	96,0	32,0	19,0	12	M10	23,0	Toyota	100MC1561
	96,0	32,0	17,0	12	M10	11,0	Toyota	100MC1554
	97,0	29,0	11,0	10	M10	5,0	Jungheinrich, Linde, Still, VW	100MC1599
	99,0	28,0	15,0	12	M10	20,5	Manitou, Toyota	100MC1558
	100,0	28,0	17,0	12	M10	8,5	Allis-chalmers, Komatsu	100MC1563
	100,0	28,0	14,0	12	M10	10,5	Manitou, Toyota	100MC1556
	100,0	28,0	14,0	12	M10	23,0	Manitou, Toyota	100MC1557
	101,0	28,0	14,0	12	M10	11,0	Allis-chalmers, Komatsu	100MC1564
	101,0	28,0	15,0	12	M10	19,0	Manitou, Toyota	100MC1555
	107,3	22,0	22,5	12	M10	10,5	Mitsubishi	100MC1589

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	111,0	18,0	17,0	12	M10	11,0	Clark, Gehl, Hyundai, Komatsu, Kramer, Manitou, Mustang, Wacker Neusson, Yanmar, Weidemann	100MC1527
	112,0	22,0	15,0	12	M10	11,0	Baumann, Clark, Gehl, Jungheinrich, Kramer, Mustang, Nuova Detas, Perkins, Steinbock, Tennant	100MC1537
	112,4	22,0	15,0	12	M10	11,0	Perkins	100MC1618
	112,5	21,5	15,0	12	M10	11,0	Jungheinrich, Manitou, Perkins, Steinbock	100MC1539
	120,0	25,0	16,0	12	M12	11,0	Bobcat, deutz, JLG, Linde, Volvo	100MC1592
	120,0	25,0	16,0	12	M12	23,0	Deutz, Fantuzzi, JLG, Kalmar, SMV-Konecranes, Still, SVE- Truck, Terberg, Volvo	100MC1593
	125,0	19,0	11,0	12	M10	12,0	Bobcat, Heli, Hyundai, Kubota, TCM	100MC1607
	126,6	28,3	13,0	10	M10	11,0	Deutz, Manitou	100MC1578
	130,5	27,0	11,0	10	M10	4,4	Jungheinrich, Linde, VW	100MC1580
	131,2	26,5	13,0	10	3/8" UNF	11,0	Case, IH, New Holland	100MC1602

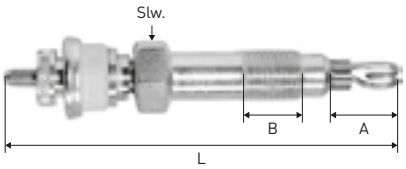
GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	132,2	23,5	22,0	12	M10	22,5	Xinchai	100MC1596
	134,7	22,0	15,8	10	M10	12,0	Dieci, JLG, Perkins, Manitou	100MC1577
	135,0	25,0	22,0	12	M10	23,0	Mitsubishi	100MC1586
	137,0	23,0	18,0	12	M12	20,5	Halla, Hyundai, Isuzu, JCB, Jungheinrich, Komatsu, TCM, Yale	100MC1571
	138,0	22,0	12,0	10	M10	11,5	Bobcat, Dantruck, Haulotte, JCB, JLG, Jungheinrich, Linde, Lugli, Manitou, Nuova Detas, Perkins, Terex, Wacker Neuson	100MC1540
	138,0	22,0	13,0	10	M10	24,0	Kalmar, Perkins, Terex	100MC1541
	140,0	24,0	15,0	12	M12	11,0	Ausa, Clark, Doosan, Hyster, Hyundai, Isuzu, Mustang, Takeuchi, TCM	100MC1566
	141,0	24,0	16,0	12	M12	11,0	Bobcat, Hyster/Yale, Isuzu	100MC1521
	141,0	25,0	18,0	12	M12	10,5	Doosan	100MC1612
	141,0	24,0	17,0	12	M12	23,0	Doosan, Hyundai, Isuzu	100MC1613

GLOW PLUGS – TYPE A

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	142,0	25,0	17,0	12	M12	24,0	Isuzu, TCM	100MC1575
	165,0	29,8	11,0	8	M8	11,0	Manitou, Perkins	100MC1542

GLOW PLUGS – TYPE B

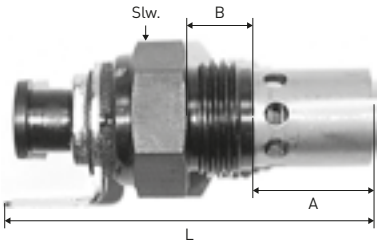


	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	62,5	24,0	10	19,0	M14	12,0	Linde	100MC1628
	64,0	24,0	10	19,0	M24	12,0	Linde, Still	100MC1627
	86,0	42,5	7	24,0	13/16" UNF	12,0	Fiat, Landini, New Holland, Massey-Ferguson	100MC1629
	88,0	26,0	11	21,0	M18	0,9	Deutz, Jungheinrich, Mercedes, Steinbock, Yale	100MC1625
	89,0	52,0	7	27,0	M22	11,0	Bobcat, Deutz, Fiat-OM, Ford, Gehl, JCB, JLG, Manitou, Mercedes, Merlo, Kalmar, Kramer, Volvo, Wacker Neuson, Weideman	100MC1622

GLOW PLUGS – TYPE B

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	90,0	28,0	14	21,0	M18	0,9	Deutz, JLG, Manitou, Mercedes, Steinbock	100MC1624
	90,0	29,0	12	20,0	M18	0,9	Landini, Manitou, Mercedes, New Holland, Steinbock	100MC1631
	101,5	20,0	17	17,0	M14	0,9	Hanomag	100MC1630
	105,3	55,2	8	25,4	M22	12,0	JCB, Kalmar, Linde, Perkins, Still, Svetruck, Terberg, Volvo	100MC1626
	107,0	19,0	17	18,0	M14	1,7	Climax, Landrover	100MC1623

GLOW PLUGS – TYPE C

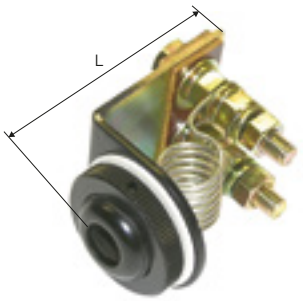


	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	58,0	22,0	5,0	24,0	7/8" UNF	12,0	Perkins	100MC1632
	58,0	22,0	5,0	24,0	7/8" UNF	24,0	Perkins	100MC1635

GLOW PLUGS – TYPE C

	Dimensions			Spanner	Thread	Voltage	Used for	REF
	Total length mm	Length A mm	Length B mm	Width mm				
	58,0	22,0	6,0	24,0	7/8" UNF	12,0	Perkins	100MC1633
	59,0	20,0	6,0	24,0	1/2" BSP	12,0	Fiat-om, Ford	100MC1636
	60,0	20,5	10,0	24,0	7/8" UNF	12,0	Yanmar	100MC1641
	62,0	20,0	5,0	24,0	M22	12,0	Perkins	100MC1634
	62,5	20,5	7,0	24,0	13/16" UNF	12,0	Fiat-om	100MC1637
	93,0	21,0	15,0	21,0	M20	19,0	Deutz	100MC1638
	92,0	20,0	26,0	21,0	M20	12,0	Fendt	100MC1642
	94,0	21,0	15,0	24,0	M20	9,5	Deutz, Genie	100MC1643
	96,0	20,0	25,0	20,6	M20	12,0	Deutz	100MC1640
	96,0	21,7	12,5	24,0	M20	19,0	Deutz	100MC1639

GLOW EYES – VISIBLE



	Dimensions				Voltage	Used for	REF
	Diameter mm	Total length mm	Diameter of the glow wire mm	Number of windings			
	17,8	46,0	1,3	4	12	Allis-Chalmers, Komatsu	100MC1644
	18,0	43,0	1,3	3	12	Toyota	100MC1645
	18,0	43,0	0,9	8	12	Toyota	100MC1646
	18,0	45,0	0,9	8	12	Mitsubishi	100MC1647
	19,5	33,0	1,5	2	12	Toyota	100MC1648
	19,6	28,0	1,2	2	12	Ausa, Genie, Isuzu, Manitou, Mustang	100MC1649
	19,7	36,0	1,6	1	12	Isuzu, TCM	100MC1650
	25,0	48,0	1,5	2	24	Nissan	100MC1651

GLOW EYES – VISIBLE

	Dimensions				Voltage	Used for	REF
	Diameter mm	Total length mm	Diameter of the glow wire mm	Number of windings			
	25,0	45,5	1,0	2	12	Hako, Kubota	100MC1652

GLOW EYES – COVERED



	Dimensions				Voltage	Used for	REF
	Diameter mm	Total length mm	Diameter of the glow wire mm	Number of windings			
	25,5	59,0	1,7	2	12	Manitou	100MC1653
	26,0	61,0	1,4	3	12	Linde	100MC1654
	26,0	61,0	1,8	3	12	Linde	100MC1655
	26,0	51,0	1,8	2	12	Linde	100MC1656

SPARK PLUGS

myTS MyTotalSource

myPF MyPartsFinder



We use Denso as our main spark plug programme supplier. Exceptions are specific brand-only types, or where we follow the specifications of the engine manufacturer.

DENSO SPARK PLUGS

Some of the known brands and types

AC Delco – plug type

· 41101	· 41908	· 41947	· 44F	· C42CXLS	· C88L	· MR43LTS	· R43 TSX	· R45XLS
· 41600	· 41910	· 41948	· 44NS	· C43	· CR42CLTS	· MR44 T	· R43XL	· R46 T
· 41601	· 41913	· 41950	· 44XL	· C44	· CR42 TS	· R42CLTS	· R43XLS	· R46 TS
· 41602	· 41919	· 41952	· 45	· C44NS	· CR43	· R42CTS	· R44	· R46 TSX
· 41603	· 41921	· 41963	· 45 TS	· C44XL	· CR43 TS	· R42LTS	· R44LTS	· R83CT
· 41606	· 41928	· 41975	· 45XL	· C49	· CR43 TSM	· R42LTSM	· R44LTSM	· S102F
· 41628	· 41929	· 41987	· 45XLS	· C81	· CR44 TS	· R42 T	· R44 TS	· S104F
· 41629	· 41931	· 41993	· 46	· C82	· CR45 TS	· R42 TS	· R44XL	· S122F
· 41900	· 41932	· 42XLS	· 46N	· C83	· CS41	· R42 TSM	· R44XLS	
· 41902	· 41936	· 436 T	· 46 TS	· C83 T	· CS42	· R42XLS	· R45NS	
· 41904	· 41937	· 43F	· 46XLS	· C85S	· CS45	· R43	· R45S	
· 41905	· 41940	· 43XL	· 83CTS	· C86	· CS49	· R43LTS	· R45 T	
· 41906	· 41942	· 43XLS	· 84 TS	· C87	· FR5LS	· R43LTSE	· R45 TS	
· 41907	· 41943	· 44	· 8C	· C88	· M8	· R43 TS	· R45 TSX	

Autolite – plug type

· 103	· 24	· 306	· 4056	· 5184	· 766	· AP2744	· AP85	· APP5245
· 104	· 25	· 3136	· 4164	· 5224	· 85	· AP303	· AP86	· APP605
· 105	· 2545	· 316	· 4194	· 5245	· 86	· AP403	· APP103	· APP606
· 106	· 255	· 317	· 4252	· 565	· 985	· AP404	· APP104	· APP646
· 124	· 258	· 373	· 4263	· 605	· 996	· AP425	· APP106	· APP65
· 144	· 26	· 386	· 4265	· 62	· AG22	· AP45	· APP2544	· APP66
· 145	· 2695	· 388	· 437	· 63	· AP104	· AP46	· APP2545	· APP765
· 147	· 273	· 3923	· 45	· 64	· AP124	· AP5125	· APP2546	· XP5245
· 16	· 2744	· 3924	· 46	· 65	· AP2543	· AP5405	· APP3926	
· 2224	· 295	· 3926	· 5125	· 66	· AP2544	· AP64	· APP45	
· 2243	· 2976	· 404	· 5143	· 764	· AP2545	· AP646	· APP46	
· 23	· 303	· 405	· 5144	· 765	· AP2546	· AP847	· APP5125	

Beru – plug type

· 145DTU	· 148DTU	· 14FR6DU	· 14K6DU	· 14R8DU	· Z15	· Z31
· 146DTU	· 148DU	· 14FR7DPU2	· 14K7DU	· 14Z3CU	· Z16	· Z52
· 146DU	· 149DU	· 14FR7DU	· 14KR6DU	· 18K6BU	· Z2	· Z72
· 147BU	· 14F6DTU	· 14FR7DUX	· 14KR7DU	· S5	· Z20	· Z76
· 147CU	· 14FGH7DTURX	· 14FR8DU	· 14R6DU	· S9	· Z24	· Z90
· 147DU	· 14FR4DPU	· 14K5DU	· 14R7DU	· Z11	· Z25	· Z95

Motorcraft – plug type

· A7	· AG1	· AGFS22C1	· AGR42C	· AGSF22C	· AGSF42FM	· ASF42	· AWSF42P	· BRF31
· A7NX	· AG2	· AGPR22PP	· AGR52	· AGSF22FM	· AGSF52C	· ASF42C	· AWSF52	· BRF32C
· A7X	· AG22	· AGPR32C	· AGRF22	· AGSF22FM1	· AGSP52C	· ASF52	· AWSF52C	· BSF3
· AE32	· AG22C	· AGPR902C	· AGRF22C	· AGSF24C	· AL5	· ASF52C	· AWSF54C	· BSF42C
· AE32C	· AG32C	· AGPR902C1	· AGRF22C1	· AGSF24N	· AL7	· AWRF32	· AWSFA32C	· BT8
· AE6	· AG4	· AGR1Z	· AGRF22PP	· AGSF32C	· AL7C	· AWSF22C	· AYFS22FM	· BTF3
· AF22	· AG42C	· AGR22	· AGRF32	· AGSF32FM	· AR42	· AWSF22E	· B6	· BTF31
· AF42	· AG5	· AGR22C	· AGRF32C1	· AGSF32YPC	· AR52	· AWSF32C	· BF22	· BTS8
· AF42C	· AG52	· AGR32	· AGS22C	· AGSF33C	· ARF42	· AWSF32F	· BF22C	
· AF52	· AG52C	· AGR32C	· AGS32C	· AGSF34C	· ARF52	· AWSF32PP	· BF3X	
· AF901	· AGF12C	· AGR42	· AGS52C	· AGSF34FP	· ASF32C	· AWSF42C	· BF42	

For other types or brands, please contact your sales advisor.

SPARK PLUGS

Bosch – plug type

- D10BC
- D6B
- D6BC
- D6BP
- D7AC
- D7B
- D7BC
- D7BP
- D8A
- D8AC
- D8BC
- D9BC
- DR10BC
- DR6BC
- DR7BC
- DR8BC
- F5DC
- F5DTC
- F6DCX
- F6DTC
- F6LTCR
- F7DC
- F7KTCR
- F8DC
- F8KTCR
- F9DC0
- FLR8LDCU
- FR56
- FR5DC
- FR5DP1
- FR5DPP222
- FR6DC
- FR6DP1
- FR6DPP22
- FR6LTC
- FR78X
- FR7DC
- FR7DC0
- FR7DP
- FR7DPX
- FR7KCX
- FR7KPP
- FR7KPP33U
- FR7KTC
- FR7LDC
- FR7LDC+
- FR7LDC4
- FR8D+
- FR8DC
- FR8DC+
- FR8DCX
- FR8DE
- FR8KTC
- FR9DCX
- H10BC
- H5DC
- H6BC
- H6DC
- H7DC
- H7LDCR
- H8BC
- H8DC
- H9BC
- H9DC
- H9DCY
- HR10AC
- HR10B
- HR10BC
- HR10BCX
- HR10BCY
- HR10HC
- HR6BC
- HR6BP
- HR6DC
- HR6DP
- HR6DS
- HR7DC
- HR7DCX
- HR7NII33X
- HR8B
- HR8BC
- HR8BP
- HR8DC
- HR8DCX
- HR8DP
- HR8DPX
- HR8HC0
- HR9A
- HR9AC
- HR9B
- HR9BC
- HR9BP
- HR9BPX
- HR9D
- HR9DC
- HR9DI33Y
- HR9DPX
- HR9DPY
- HR9HC
- HS7F
- M10A
- M10A0
- M10AC
- M10AC0
- M12B
- M5AC
- M7A
- M7AC
- M8A0
- M8AC
- M8AC0
- MA145 T1
- UR2CC
- UR4AS
- W07CS
- W08CS
- W10A
- W10AC
- W10CC
- W10D
- W10DC
- W10E
- W11E0
- W125 T1
- W145 T1
- W145 T30
- W225 T1
- W2CC
- W3AC
- W3CC
- W4AC
- W5AC
- W5BC
- W5BP
- W5CC
- W5D
- W5D1
- W5DC
- W6B
- W6BC
- W6D
- W6D1
- W6DC
- W6DTC
- W7AC
- W7BC
- W7BP
- W7C
- W7CC
- W7D
- W7DC
- W7DC0
- W7DTC
- W7EC
- W7LTCR
- W8AC
- W8BC
- W8C
- W8C0
- W8CC
- W8CP
- W8D
- W8DC
- W8DCX
- W8DP
- W8DTC
- W8E
- W8EC
- W8LCR
- W8LPR
- W8LTCR
- W9AC
- W9CC
- W9DC
- W9DP
- W9EC
- W9EC0
- WC8DC
- WR10FC
- WR3CC
- WR3CTC
- WR4CC
- WR5CC
- WR5DC
- WR5DP
- WR5DS
- WR6BC
- WR6D
- WR6DC
- WR6DS
- WR78X
- WR7AC
- WR7BC
- WR7BP
- WR7D
- WR7DC
- WR7DCX
- WR7DCX+
- WR7DS
- WR7DTC
- WR7LTC
- WR8AC
- WR8BC
- WR8D
- WR8DC
- WR8DC04
- WR8DC4
- WR8DCX
- WR8E
- WR8EC
- WR8FC
- WR8LTC
- WR9D
- WR9DC
- WR9DP
- WR9DS
- WR9EC
- WR9EC0
- WR9FC
- WS7E
- WS8F
- WSR5F
- WSR6E
- WSR8E
- WSR8F
- X5DC
- XR2CS
- XR4CS
- XR5DC
- Y6DC
- YR7LPP332W

Champion – plug type

- 3401
- 3412
- 3983
- 4011
- 4013
- 4018
- 4019
- 4025
- 4071
- 4079
- 4113
- 4130
- 4318
- 4401
- 4404
- 4405
- 4408
- 4412
- 4430
- 4434
- 4436
- 5861
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- 9402
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- 9404
- 9405
- 9701
- 9702
- 9802
- 9804
- 9805
- 9806
- 9808
- 9901
- A57G
- A6G
- A6GC
- BL13Y
- BL15Y
- BL16Y
- BL3
- BL9Y
- BN12Y
- BN14Y
- C10YCC
- C4
- C55CX
- C57CX
- C61CX
- C63
- C63CX
- C63YC
- C6BYC
- C6BYC4
- C7YC
- C9YC
- C9YCX
- CJ14
- CJ6
- CJ7Y
- CJ8
- CJ8Y
- D14
- D15Y
- D16
- D16J
- D18Y
- D21
- D23
- D6
- D9
- E7
- F10C
- F11Y
- F11YC
- F14Y
- F14YC
- F7YC
- F9Y
- G55C
- G57C
- H10
- H10C
- H10J
- H11
- H12
- H14Y
- J11
- J11C
- J11J
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- W16Y
- W85N
- W89D
- XC10YC
- XC12PEPB
- XEJ12
- Y82

For other types or brands, please contact your sales advisor.

SPARK PLUGS

Denso – plug type

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- FXE20HR11
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- XU22EPZU
- XU24EPRU
- XU27EPRU
- Y24FERC
- Y27FERC
- Y31FERC
- ZFR5E11
- ZTJ16R10

For other types or brands, please contact your sales advisor.

SPARK PLUGS

NGK – plug type

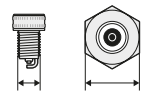
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- AR6FS
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- BPR4EY
- BPR4EY11
- BPR4FS
- BPR4FS11
- BPR4FS15
- BPR4HS
- BPR4HS10
- BPR4HSA
- BPR5E
- BPR5E11
- BPR5EA
- BPR5EA11
- BPR5EAL
- BPR5EAL11
- BPR5EFS
- BPR5EFS13
- BPR5EKA
- BPR5EKN
- BPR5EKU
- BPR5EP11
- BPR5ES
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- BPR5HS
- BPR5S
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- BPR6HS10
- BPR6HSA
- BPR6S
- BPR7E
- BPR7EKN
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- BPR7EVX
- BPR7EY
- BPR7EY11
- BPR7HS
- BPR7HS10
- BPR8ES
- BPR8HS
- BPR8HSA
- BPR9ES
- BPZ7HS10
- BPZ8HN10
- BPZ8HS10
- BPZ8HS15
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- BR10ECS
- BR10EG
- BR10ES
- BR10ET
- BR10EV
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- BR4HSA
- BR4LM
- BR5EB
- BR5EB11
- BR5EF
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- BR5FS15
- BR5HS
- BR6EB
- BR6EB11
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- BR6ES
- BR6ES11
- BR6FS
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- BR6HS10
- BR6HSA
- BR6S
- BR7EB
- BR7EB11
- BR7EF
- BR7EFS
- BR7EIX
- BR7EM
- BR7EQ
- BR7EQ14
- BR7ES
- BR7ET
- BR7HS
- BR7HS10
- BR8ECM
- BR8ECS
- BR8EG
- BR8EQ14
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- BR8ES11
- BR8ET
- BR8EV
- BR8HCS10
- BR8HS
- BR8HS10
- BR8HSA
- BR8HV
- BR9ECM
- BR9ECS
- BR9EG
- BR9EQ14
- BR9ES
- BR9ET
- BR9EV
- BR9EYA
- BR9HS
- BR9HS10
- BRE527Y11
- BRE529Y
- BRE529Y11
- BU10H
- BU8H
- BUE
- BUH
- BUHW
- BUHW2
- BUHX
- BUHXW1
- BUR4EB11
- BUR5EA11
- BUR5EB11
- BUR5ET
- BUR5ET10
- BUR6EA11
- BUR6EB11
- BUR6EFSZ
- BUR6ET
- BUR7EA11
- BUR8EQ
- BUR9EQ
- BUZ8H
- BUZHW
- BUZHW2
- C10EH9
- C2H
- C4H
- C4HA
- C4HSA
- C4HSB
- C5HSA
- C6HSA
- C7E
- C7HSA
- C7HV
- C8E
- C8EH9
- C8HSA
- C8HV
- C9E
- C9EH9
- CM6
- CPR7EA9
- CPR8EA9
- CR10E
- CR10EH9
- CR10EK
- CR4HSA
- CR4HSB
- CR5HS
- CR5HSA
- CR5HSB
- CR6E
- CR6HS
- CR6HSA
- CR7E
- CR7EH9
- CR7EK
- CR7HS
- CR8E
- CR8EH9
- CR8EK
- CR8HS
- CR8HSA
- CR9E
- CR9EH9
- CR9EK
- D10EA
- D10HS
- D5HS
- D6EA
- D6HA
- D6HV
- D7EA
- D7EV
- D8EA
- D8EV
- D8EVX
- D8HA
- D8HV
- D9EA
- D9EV
- D9EVX
- DCP8EVX
- DCPR6E
- DCPR6ES
- DCPR7E
- DCPR7EA9
- DCPR7EVX
- DCPR8E
- DCPR8EVX
- DCPR9E
- DCPR9EVX
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- DILFR5A11
- DILFR6D11
- DILKAR6A11
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- DP9EV9
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- DPR6EA9
- DPR6EB9
- DPR7EA9
- DPR7EV9
- DPR8EA9
- DPR8EV9
- DPR8Z
- DPR9EA9
- DPR9EV9
- DPR9EVX9
- DPR9Z
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- DR5HS
- DR6EA
- DR6HS
- DR7EA
- DR7ES
- DR8EA
- DR8ES
- DR8ESL
- DR8EVX
- DR8HS
- DR9EA
- DR9EVX
- ER10EH
- ER8EH
- ER9EH
- FR2AD
- FR2BD
- FR4
- FR45
- FR6EI
- G2Z
- GR4
- GR5
- GR55
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- IFR5G11
- IFR5G11K
- IFR5J11
- IFR5L11
- IFR5N10
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- IFR6CS
- IFR6QG
- IFR7FD
- IFR7G11K
- IFR7G11KS
- IGR7AG
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- JR9C
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- PFR6B11
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- PFR6G9
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- PFR6Q
- PFR7B
- PFR7G11
- PFR8B
- PFR8B9
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- PGR6A
- PGR6A11
- PGR6B
- PJR7A
- PKR7A
- PLFR5A11D
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- PZFR6H
- PZTR5A15
- R4452D10
- R56738
- R56739
- R56747
- R56748
- R56749
- R6254E105
- R6254E9
- R6254K105
- R63268
- R64278
- R71128
- R71138
- SD10A
- SD11A
- SILFR6A
- TR4
- TR42
- TR5
- TR51
- TR55
- TR5A13
- TR5B13
- TR6
- UR4
- UR5
- WR5
- WR5IX
- XR40
- XR5
- ZF4A11
- ZF5A11
- ZF6A11
- ZFR4E11
- ZFR4F11
- ZFR5A11
- ZFR5E11
- ZFR5F
- ZFR5F11
- ZFR5LP13G
- ZFR6A11
- ZFR6E11
- ZFR6F
- ZFR6F11
- ZFR6K11
- ZFR7A11
- ZFR7F11
- ZFR7J11
- ZGR5A
- ZGR5B11
- ZGR5C
- ZGR5E

For other types or brands, please contact your sales advisor.

IDENTIFYING DENSO SPARK PLUGS

Conventional plugs/platinum plugs/iridium plugs

W



Thread diameter and Hex size

Thread diameter x Hex size (mm)

FK ..... 14 x 16,0 (Super ignitable plug)
***J**..... 14 x 20,6 (Projected plug)
L ..... 18 x 22,2
M ..... 18 x 25,4 (Reach 12 mm)
MA..... 18 x 20,6 (Taper seat; reach 12 mm)
MW ..... 18 x 20,6 (Reach 12 mm)
N ..... 10 x 16,0
***K** ..... 14 x 16,0
***KJ** ..... 14 x 16,0 (Projected plug)
***P** ..... 14 x 20,6 (Platinum plug)
***PK** ..... 14 x 16,0 (Platinum plug)
***PKJ** ..... 14 x 16,0 (Platinum plug; projected)
***PQ** ..... 14 x 16,0 (Platinum plug)
***PT** ..... 14 x 16,0 (Platinum plug; taper seat)
***PTJ** ..... 14 x 16,0 (Platinum plug; projected; taper seat)
***Q** ..... 14 x 16,0
***QJ** ..... 14 x 16,0 (Projected plug)
***QL** ..... 14 x 16,0 (Long cylinder housing)
S ..... 14 x 20,6 (Surface gap plug)
SF ..... 14 x 20,6 (Surface gap plug)
***S** ..... 14 x 20,6 (0,7 mm iridium)
***SK** ..... 14 x 16,0 (0,7 mm iridium)
***SKJ** ..... 14 x 16,0 (0,7 mm iridium; projected)
***SV** ..... 14 x 16,0 (0,4 mm iridium; platinum ground electrode)
***SVK** ..... 14 x 16,0 (0,4 mm iridium; platinum ground electrode)
***SXU** ..... 12 x 16,0
T ..... 14 x 16,0 (Taper seat)
TR ..... 14 x 20,6 (Marine applications; reach 12,7 mm)
U ..... 10 x 16,0
U ..... 10 x 14,0 (U20M-U only)
***VK** ..... 14 x 16,0 (0,4 mm iridium; platinum ground electrode)
***VKJ** ..... 14 x 16,0 (0,4 mm iridium; platinum ground electrode; projected)
***VW**..... 14 x 20,6 (0,4 mm iridium; platinum ground electrode)
W..... 14 x 20,6
..... 14 x 19,0 (Compact type)
X ..... 12 x 18,0
XE ..... 12 x 14,0
XU ..... 12 x 16,0
Y ..... 8 x 13,0
Z .....1/2 PF x 23,8 (0,55 mm iridium)
ZXE ..... 12 x 14,0 (0,55 mm iridium)
ZXU ..... 12 x 16,0 (0,55 mm iridium)
ZT ..... 14 x 16,0 (0,55 mm iridium)

* Thread reach 19,0 mm

16



Heat range

Denso	NGK	Champion	Bosch
9	2	18	10
14	4	16/14	9
16	5	12/11	8
20	6	10/9	7/6
22	7	8/7	5
24	8	6/63/61	4
27	9	4/59	3
29	9,5	57	
31	10	55	2
32	10,5	53	
34	11		
35	11,5		

E



Thread reach

A ..... 19,0 mm (Electrode position 7 mm)
..... 21,5 mm
B ..... 19,0 mm (Electrode position 9,5 mm)
C ..... 19,0 mm (Electrode position 5 mm)
D ..... 19,0 mm (Shroud 2 mm)
E (Gasket)... 19,0 mm
..... 20,0 mm
E (Taper seat) 17,5 mm
F ..... 12,7 mm
FE ..... 19,0 mm (Half thread)
G ..... 19,0 mm (Shroud 2 mm)
..... 19,0 mm (Shroud 2,8 mm)
H ..... 19,0 mm (Electrode position 8,5 mm)
..... 26,5 mm
L ..... 11,2 mm
M ..... 8,6 mm
N (Taper seat) 17,5 mm (Half thread)
V (Taper seat) 25,0 mm

<None> (Gasket)
..... 9,5 mm
..... 11,2 mm
..... 19,0 mm
..... 21,5 mm

<None> (Taper seat)
..... 8,3 mm
..... 11,2 mm

X



Electrode design

A Double ground electrodes
A Oblique ground electrodes (for racing)
AY Double ground electrodes; bent shape
B Triple ground electrodes
BG Triple ground electrodes (shrouded)
D Projected (2,0 mm projection)
Projected (1,5 mm projection, spark position 3,5 mm)
K 1 mm insulator projection
LM Compact type (Hex size 20,6 mm)
M Shortened insulator head length
N Racing type (Nickel electrode)
Pt Racing type (Platinum electrodes)
P Projected (1,5 mm projection)
S Non-projected
T Double ground electrodes
TM Double ground electrodes
V Slant ground electrode
X Extra projected (2,5 mm projection)

R



Internal construction

R Resistor

<None> Non-resistor

<exception>
S29, S29A both have resistor

-U



Gap configuration

-A Increased platinum size on ground electrode
-B Platinum on ground electrode
-C Cut-back ground electrode
-E Platinum on ground electrode
-F Platinum on ground electrode
-G Lubricated thread (for CNG applications)
-GL Platinum centre electrode
-L 3,5 mm projected insulator Tapered centre electrode
-M Increased ground electrode
-N For Kawasaki and Yamaha
-P Double layer of platinum on ground electrode
-S Semi-surface gap
-S Stainless steel gasket
-TP Platinum centre electrode; tapered ground electrode
-U U-groove in ground electrode
-US Star-shaped centre electrode; U-groove in ground electrode
-V 0,7 mm platinum centre electrode
-Z Tapered ground electrode
-ZU 0,7 mm platinum centre electrode; tapered ground electrode

11

Spark gap

5 0,5 mm (.020")
8 0,8 mm (.032")
9 0,9 mm (.035")
10 1,0 mm (.040")
11 1,1 mm (.044")
13 1,3 mm (.050")
14 1,4 mm (.055")
15 1,5 mm (.060")
20 2,0 mm (.080")

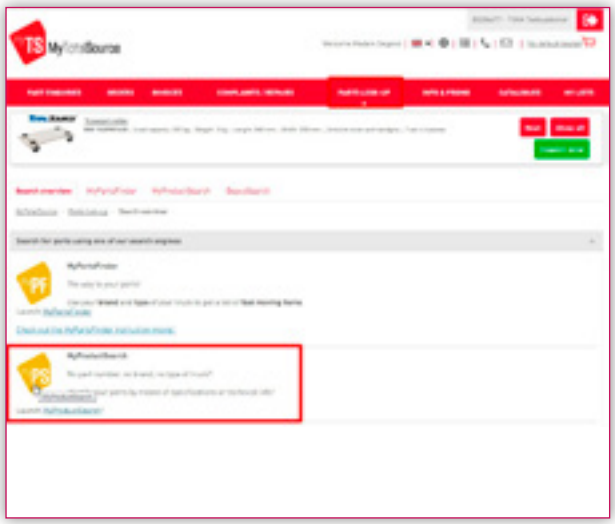
<None> Cars: 0,8 mm
MC: 0,7 mm

<exception>
Pl 6R, PQl 6R, PQ20R are 1,1 mm

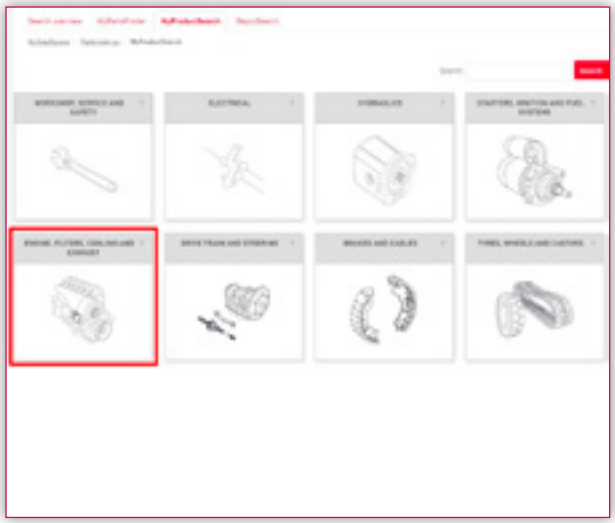
THERMOSTATS – NICE TO KNOW

MyTotalSource

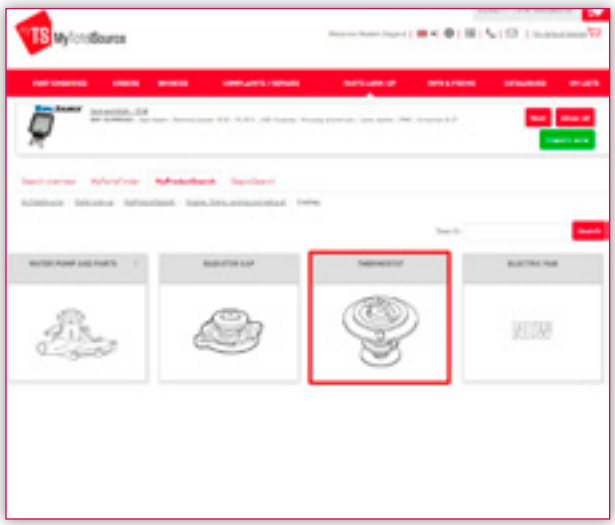
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THERMOSTATS – NICE TO KNOW

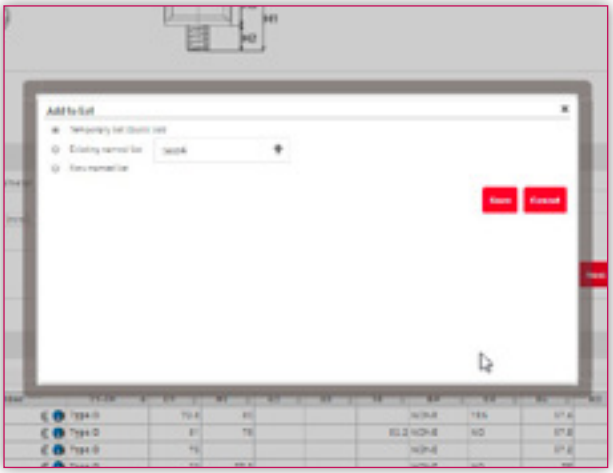
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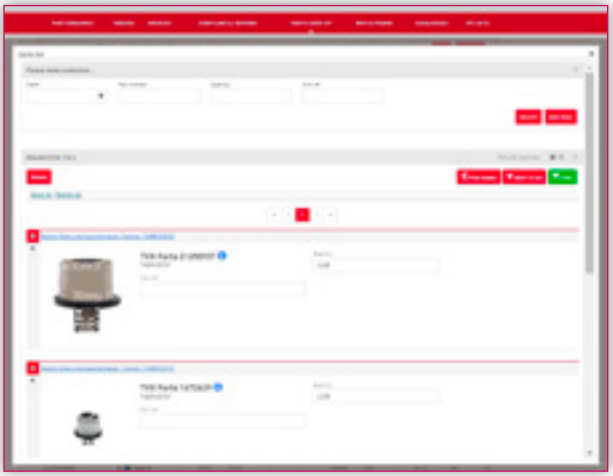
myTS MyTotalSource



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THERMOSTATS – TECHNICAL SHEET

Group	Example	Customer details
04-01-03-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

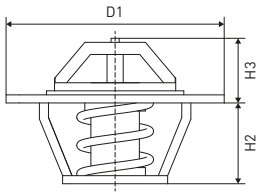
☐ Order

TY-TH	Type of thermostat
D1	Maximum outer diameter
D2	Bypass valve diameter
D3	Diameter engine side
D4	Diameter radiator side
H1	Total height
H2	Height engine side
H3	Height radiator side
TE	Opening temperature
AR	Air release system: *JP = bore with pin (jiggle pin)* *BZP = bore without pin* *KR = with notch* *none*
EX	Eccentric (yes/no)

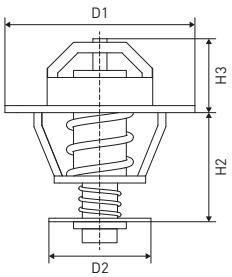
THERMOSTATS – TECHNICAL SHEET

TYPES

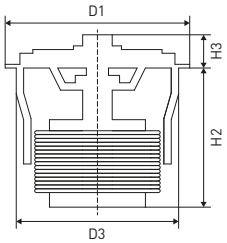
Type A



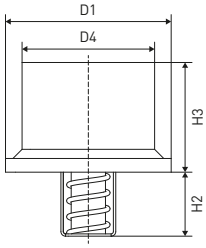
Type B



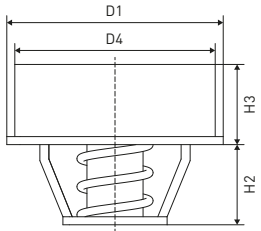
Type C



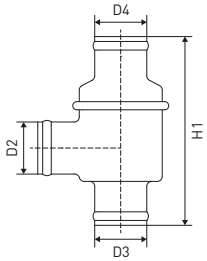
Type D



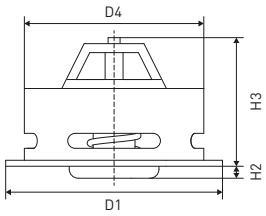
Type E



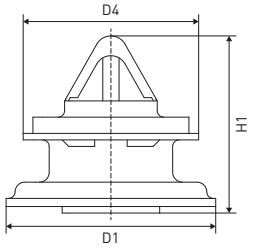
Type F



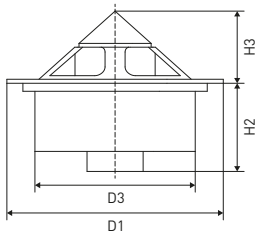
Type G



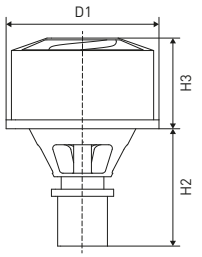
Type H



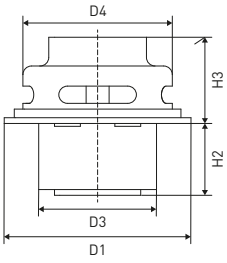
Type I



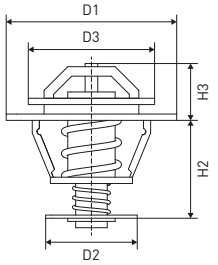
Type J



Type K



Type L



Type S
None of previous types

H1 = total height
D1 = maximum outer diameter

IGNITION COILS – TECHNICAL SHEET

Group	Example	Customer details
02-10-06-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY-BO..... Type of ignition coil

L..... Totale length in lineair direction of the spool

D..... Diameter, see pictures.
If type B has no cylindrical body, measure the thickness

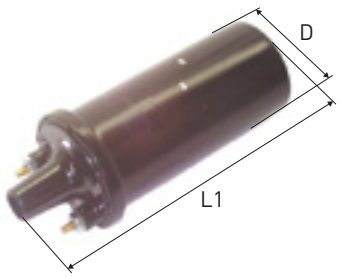
U..... Tension

WE ..... Resistance:
I = internal resistance
U = external resistance
O = option: if ignition coil has no resistance, that does not mean none should be connected

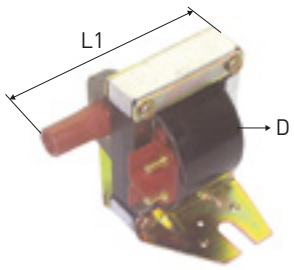
BE..... Bracket (yes/no)

TYPES

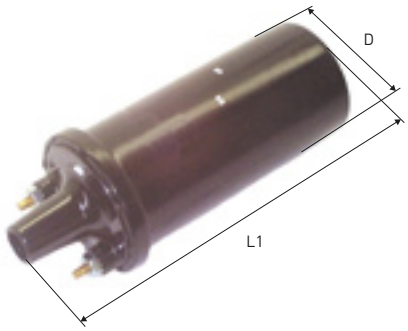
Type A



Type B

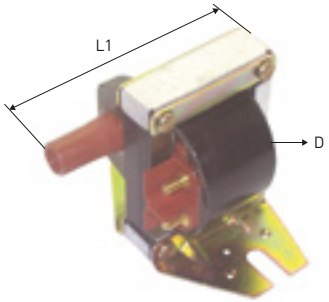


IGNITION COILS – TYPE A



	Dimensions		Bracket	Resistance	REF
	Length (L1) mm	Diameter (D) mm			
	123,5	49,5	No	I	100MC1657
	139,5	57,8	Yes	I	100MC1658
	149,0	53,0	Yes	O	100MC1660
	149,5	55,0	Yes	U	100MC1662
	150,0	55,0	No	O	100MC1663
	150,0	52,5	No	O	100MC1664
	152,5	56,5	No	O	100MC1666

IGNITION COILS – TYPE B



	Dimensions		Bracket	Resistance	REF
	Length (L1) mm	Diameter (D) mm			
	69,0	62,0	No	0	100MC1668
	79,0		No	0	100MC1674
	82,0	60,0	Yes	0	100MC1676
	82,0	44,0	Yes	U	100MC1677
	82,5	44,0	No	0	100MC1678
	83,0	60,5	Yes	0	100MC1679
	86,5	43,0	Yes	0	100MC1680

IGNITION COILS – TYPE B

	Dimensions		Bracket	Resistance	REF
	Length (L1) mm	Diameter (D) mm			
	87,0	54,5	No	U	100MC1681
	95,0	39,0	No	O	100MC1684
	97,0	60,5	No	O	100MC1685
	125,0	55,0	Yes	O	100MC1690
	128,0	55,5	Yes	U	100MC1691
	136,0	58,0	Yes	U	100MC1692

STARTERS & ALTERNATORS



Please consult our 'Starters & alternators' catalogue (REF 6252659) for more information.

Go to downloads on www.tvh.com to view the catalogue online.

ALTERNATOR KIT



- Complete kit
- 12 V
- 150 A

REF 100MC2663

Description	REF
Alternator	100MC7976
Lower rear fastening plate 1	100MC7977
Lower rear fastening plate 2	100MC7978
Lower rear fastening plate 3	100MC7979
Lower rear fastening plate 4	100MC7980
Lower rear fastening plate 5	100MC7981
Lower rear fastening plate 6	100MC7982
Lower rear fastening plate 7	100MC7983
Lower rear fastening plate 8	100MC7984
Lower rear fastening plate 9	100MC7985
Lower rear fastening plate 10	100MC7986
Upper fastening plate 1	100MC7987
Upper fastening plate 2	100MC7988
Upper fastening plate 3	100MC7989

Description	REF
Upper fastening plate 4	100MC7990
Upper fastening plate 5	100MC7991
Pulley a	100MC7992
Pulley b	100MC7993
Pulley c	100MC7994
Pulley d	100MC7995
Pulley e	100MC7996
Pulley f	100MC7997
Pulley g	100MC7998
Pulley h	100MC7999
Pulley j	100MC8001
Pulley k	100MC8002
Pulley l	100MC8003
Pulley m	100MC8004

SPARK PLUG SOCKETS

LIFE WARRANTY



With rubber inside

Dimensions				REF
Width	Width AF	Length		
mm	Inch	mm	Inch	
14	9/16	70	1/2	100MC8221
16	5/8	70	1/2	100MC8222
18	11/16	70	1/2	100MC8223
20,8	13/16	70	1/2	100MC8224

FLEXIBLE AIR HOSES



Hose construction:
- Flexible hose consisting of a grey rigid PVC spiral embedded in a metalized grey, flexible PVC wall
- Externally corrugated, smooth inner surface
- Self-extinguishing according to UL94 Class V2

Applications:
Pressure –> only suitable for suction

Temperature range:
–15 °C to 60 °C

Diameter mm	REF
20	100MC2664
25	100MC2665
30	100MC2666
32	100MC2667
35	100MC2668
38	100MC2669
40	100MC2670
45	100MC2671
50	100MC2672
55	100MC2673
60	100MC2674
63	100MC2675
65	100MC2676
70	100MC2677
76	100MC2678
80	100MC2679
90	100MC2680
100	100MC2681
110	100MC2682
120	100MC2683
125	100MC2684
130	100MC2685
150	100MC2686
250	100MC2687

LPG SYSTEM PARTS CATALOGUE

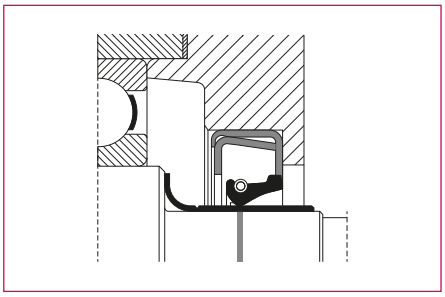


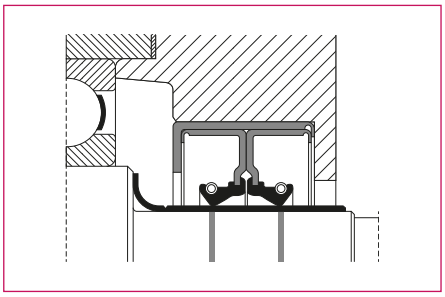


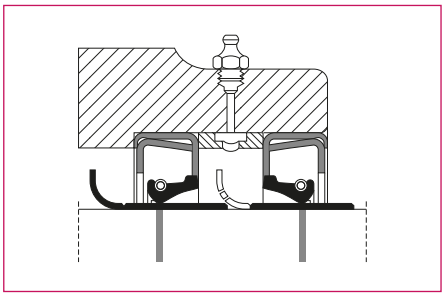
Consult the 'LPG system parts' catalogue (REF 22802499) for all LPG-related parts: universal LPG kit, Aisan-Nikki, Algas, Beam, Century, E-controls, Impco, J & S, Landi Hartog, Landi Renzo, Lovato, Nikki, Teleflex-GFI, Woodward, Zenith-Bendix, chock valves, LPG fuel tanks, filters, governors ...

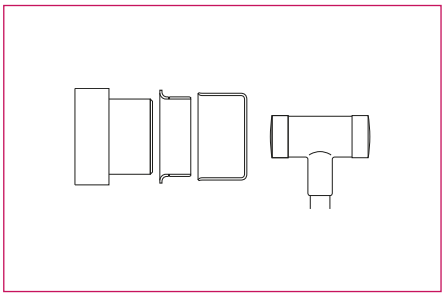
Go to downloads on www.tvh.com to view the catalogue online.

SPEEDI-SLEEVE®









For shaft seals to perform efficiently, the condition of the shaft seating is of vital importance.
Preferably the surface should be hardened and ground without directional grooves. High pressures, temperatures and speeds, inadequate lubrication and solid contaminants all have a negative influence on sealing performance and also lead to grooving on the shaft.
In such cases, a simple seal replacement will not solve the problem, and it is generally necessary to rework the shaft. Such reworking is time-consuming and costly. Wear sleeves have been designed to eliminate the need for reworking. They are simply pushed over the damaged surface, enabling the shaft to be re-used within minutes – and at a fraction of the cost of traditional reworking.

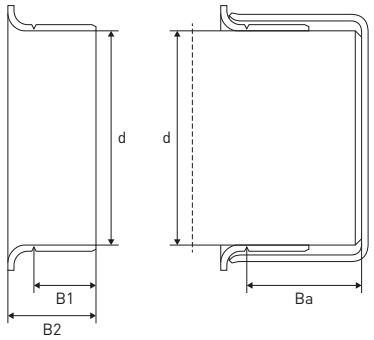
Speedi-sleeves are made of stainless steel and have a wall thickness of 0,254 mm (0.01 inch).
Because of the thickness, the diameter of the seal seating will only be increased by about 0,5 mm so that it is possible to use replacement seals of the same size as the original one.

All Speedi-sleeves have a removable installation flange at one side, for easy mounting together with the mounting tool supplied with each sleeve.
The flange can be removed easily as a pre-cut tear groove is provided.





SPEEDI-SLEEVE®



Diameter d mm	B1 mm	REF
20,00		100MC3126
22,23		100MC3127
25,00		100MC3128
25,40		100MC3129
27,00		100MC3221
28,00		100MC3222
28,58		100MC3223
30,00		100MC3224
31,80		100MC3225
32,00		100MC3226
33,35		100MC3227
34,01		100MC3228
34,93	12,7	100MC3229
34,93	13,0	100MC3230
36,60		100MC3231
38,10		100MC3232
40,08		100MC3233
41,28		100MC3234
41,90		100MC3235
44,45		100MC3236
45,00		100MC3237
46,05		100MC3238
47,63		100MC3239
48,03		100MC3240
48,56		100MC3241
49,23		100MC3242
50,00		100MC3243
50,80		100MC3244
52,40		100MC3245
53,98		100MC3246
55,00		100MC3247
55,58		100MC3248
57,15		100MC3249
60,00		100MC3250

Diameter d mm	B1 mm	REF
60,33		100MC3251
61,93		100MC3252
63,50		100MC3253
65,00		100MC3254
66,68	12,7	100MC3255
66,68	19,8	100MC3256
69,85		100MC3257
70,00		100MC3258
73,03		100MC3259
75,00		100MC8121
76,20	20,6	100MC8122
76,20	15,9	100MC8123
79,38		100MC8124
82,55		100MC8126
82,00		100MC8127
84,07		100MC8128
88,90		100MC8129
90,00		100MC8130
91,97		100MC8131
92,08		100MC8132
95,00		100MC8133
95,25		100MC8134
100,00		100MC8135
101,60		100MC8136
107,95		100MC8137
109,93		100MC8138
111,13		100MC8139
114,30		100MC8140
120,00		100MC8141
120,65		100MC8142
127,00		100MC8143
133,35		100MC8144
152,40		100MC8145

Other dimensions available on request

FREEZE PLUGS – U-SHAPED



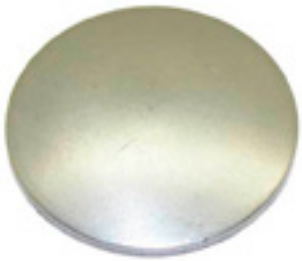
MyProductSearch

Go to **MyProductSearch** to find the freeze plug you need.

Metric mm	REF	Imperial Inch	REF
8	100MC8006	7/16	100MC8033
10	100MC8007	1/2	100MC8034
12	100MC8008	9/16	100MC8035
14	100MC8009	19/32	100MC8036
15	100MC8010	3/4	100MC8037
16	100MC8011	13/16	100MC8038
18	100MC8013	7/8	100MC8039
20	100MC2751	15/16	100MC8040
21	100MC8014	1	100MC8041
22	100MC8015	1 1/8	100MC8042
24	100MC8016	1 3/16	100MC8043
25	100MC2752	1 1/4	100MC2788
26	100MC8017	1 5/16	100MC8044
27	100MC8018	1 1/2	100MC8045
28	100MC8019	1 5/8	100MC2790
30	100MC2753	1 7/8	100MC8046
32	100MC8020	2	100MC8047
34	100MC8021	2 1/4	100MC8048
35	100MC8022	2 1/2	100MC8050
36	100MC8023	2 7/8	100MC8051
37	100MC8024		
38	100MC8025		
40	100MC2755		
42	100MC8026		

Metric mm	REF	Imperial Inch	REF
44	100MC8027		
45	100MC2756		
47	100MC8028		
48	100MC8029		
50	100MC8030		
51	100MC8031		
55	100MC8032		
8	100MC8052	3/8	100MC8083
12	100MC8053	7/16	100MC8113
14	100MC8054	1/2	100MC8084
15	100MC8055	9/16	100MC8085
16	100MC8056	5/8	100MC8086
18	100MC8057	11/16	100MC8087
20	100MC8058	3/4	100MC8088
21	100MC8059	13/16	100MC8089
22	100MC8060	7/8	100MC8090
25	100MC8061	15/16	100MC8091
28	100MC8062	1	100MC8092
30	100MC8063	1 1/16	100MC8093
32	100MC8064	1 1/8	100MC8094
33	100MC8065	1 3/16	100MC8095
34	100MC8066	1 1/4	100MC2792
35	100MC8067	1 5/16	100MC8096

ROUND CUPS



MyProductSearch

Go to **MyProductSearch** to find the freeze plug you need.

Metric mm	REF	Imperial Inch	REF
36	100MC8068	1 3/8	100MC2793
38	100MC8069	1 7/16	100MC8097
39	100MC2758	1 1/2	100MC2757
40	100MC8070	1 9/16	100MC8098
42	100MC2759	1 5/8	100MC8099
45	100MC8071	1 11/16	100MC8100
48	100MC8072	1 47/64	100MC8101
50	100MC8073	1 3/4	100MC2794
51	100MC8074	1 7/8	100MC8102
52	100MC8075	1 15/16	100MC8103
55	100MC8076	2	100MC8104
56	100MC8077	2 1/16	100MC4573
58	100MC8078	2 1/8	100MC8105
60	100MC8079	2 7/32	100MC8106
62	100MC8080	2 1/4	100MC8107
64	100MC8081	2 3/8	100MC8108
65	100MC8082	2 3/4	100MC8109
80		2 15/16	100MC8110
		3	100MC8111
		3 1/4	100MC8112

ENGINE OIL – SEMI-SYNTHETIC 10W40



TOTAL SOURCE Powered by TOTAL

Product description:

- New generation, synthetic technology, very high performance, Low SAPS (low rate of Sulphur, Ash and Phosphorus)) heavy-duty diesel engine oil
- Particularly suitable for Euro 6 and previous engines equipped with diesel particulate filters (DPF)
- Suitable for Euro 6 and previous engines equipped with selective catalytic reduction (SCR) when recommended by manufacturers

Specifications:

- API CI-4/CH4
- ACEA E6/E7
- ACEA E4-99 issue 3

OEM approvals:

- MERCEDES BENZ MB 228.51
- MAN M 3477/3277-CRT/M3271-1
- VOITH CLASS B
- IVECO
- VOLVO VDS-3
- RENAULT RLD-2
- DAF
- MTU 3.1
- MACK EO-N

Advantages:

- Proven lubrication performances with excellent antiwear and detergency properties
- Outstanding antioxidant and anticorrosion properties allowing long drain intervals
- Excellent piston cleanliness performances providing a perfect protection against bore polishing and cylinder wear
- Exceptional thermal stability due to a blend of highly qualified base oils

REF 100MC8157 – 5 l
REF 100MC8230 – 208 l

ENGINE OIL – RUBIA WORKS 2000 10W40

TOTAL SOURCE Powered by TOTAL



Product description:
Total Rubio Works 2000 10W40 is especially suitable for engines used in earthmoving activities (quarrying, constructions, mining ...)
This lubricant withstands very long working periods under severe conditions and high load, with dust and heat.

OEM approvals:
- CUMMINS CES 20081
- DEUTZ DQC III-10 LA
- MTU Category 2.0
- VOLVO VDS-4
- MACK EO-O Premium Plus
- MAN M 3575
- MB-Approval 228.31
- RENAULT RLD-3

Advantages:
- Very long working periods
- Excellent thermal stability
- High viscosity
- For all engines brand and types

REF 101MC3180 – 20 l
REF 101MC3181 – 208 l

ENGINE OIL – SYNTHETIC 5W40

TOTAL SOURCE Powered by TOTAL



Product description:
- Fully synthetic top performance motor oil for petrol, diesel and LPG engines
- Is particularly suitable for turbocharged, multi-valve and direct injection engines
- Meets the most demanding driving conditions (motorway, heavy urban traffic ...) during all seasons
- Perfectly suited for engines with catalytic converters

Specifications:
- ACEA A3/B4
- API SN/CF

OEM approvals:
- PSA PEUGEOT CITROËN B71 2296 gasoline & diesel
- VOLKSWAGEN 502.00/505.00
- BMW LL-01
- MERCEDES BENZ MB 229.3
- PORSCHE A40

Advantages:
- Extended intervals between oil changes: protects against oxidation
- All driving conditions: good fluidity at low temperatures for facilitating cold starts, resistant even at the highest temperatures
- Optimum engine protection: immediate lubrication of all engine components at start-up, even the most fragile
- Engine cleanliness: detergent and specific dispersive additives

REF 100MC8162 – 20 l
REF 101MC3183 – 60 l
REF 101MC3184 – 208 l

SUMP PLUGS



1



2

How does the plug work?
The normal sump plug will be replaced by a plug fitted with a dust cap that stops dust and dirt from entering the line.

Changing oil
Remove the dust cap and screw the drain and hose on the sump plug. This will automatically open a valve in the plug and the oil will flow through the hose.

Fig	Info	Hose	REF
1	M14 x 1,5	B	100MC2760
	M16 x 1,5	B	100MC2761
	M18 x 1,5	B	100MC2762
	M20 x 1,5	B	100MC2763
	M24 x 1,5	B	100MC2764
	3/4" UNF x 16	A	100MC2765
	5/8" UNF x 18	A	100MC2766
	1" UNF x 12	B	100MC2767
	3/8" BSP x 19	A	100MC2768
	1/2" BSP x 14	A	100MC2769
	1/4" NPT x 18	A	100MC2770
	1/2" NPT x 14	A	100MC2771
2	Oil change hose A (small) Length: 250 mm		100MC2772
	Oil change hose B (large) Length: 250 mm		100MC2773

ENDOSCOPE WITH USB CABLE

TOTAL SOURCE



Save money using this mini HD-camera: check the condition of parts located in places that take a long time to reach.

Technical information:
- 1280 x 1024 pixels (1 300 000)
- Focus distance: 30–80 mm
- Probe diameter: 8 mm
- Length: 2 m

REF 100MC2774

ENDOSCOPE FOR MOBILE PHONE

TOTAL SOURCE



By using this device, your technician will always have a wireless endoscope available. It is compatible with every mobile phone that runs on Android or iOS (iPhone) with Wifi.

Features:
- Compact
- Easy installation
- Compatible with every modern phone
- Probe diameter: 5,5 mm
- 640 x 480 pixels
- Focus distance: 30–80 mm

REF 100MC2775

ENDOSCOPE FOR PROFESSIONAL USE



This professional endoscope is indispensable in the modern workshop. It combines the advantage of an excellent monitor with the movement of the camera head. It is ideal to see inside your engine or transmission without spending hours and hours of working time.

Features:

- Fast and easy joystick operation: provides snapshot (freeze image), light + (boost) and light- functions on the controller
- Stainless steel braided tube: durable, rust- and temperature-resistance
- Full articulation: provides flexibility in narrow spaces during inspections
- Semi-rigid detachable metal shaft, scratch-resistant, water-, oil- and fuel-resistant (IP67)
- High brightness LED light source (0–275 Lux/6 cm) combined with a dimmer
- Zoom: digital zoom 3 x 5
- Mirroring: complete mirroring and rotating (views: normal/mirror/180°/mirror + 180°)
- With SD memory card slot
- 22 languages available

REF 100MC2776

ENGINE SHUT DOWN SYSTEM



The engine shutdown system provides protection against:

- Engine overheating
- Low engine oil pressure
- Low pressure/high temperature of the transmission oil
- It does so by monitoring the engine and switching it off if a fault is detected. The system will fit any gas or diesel lift truck and monitors the engine oil pressure switch and engine overheat switch

Features:

- Supply current: approx 100 mA quiescent
- Max switching output: 10 A
- Temperature range: –10 to 60 °C

REF 100MC2777 – 12 V
REF 100MC2780 – 24 V

AUTOMATIC ENGINE SHUTDOWN SYSTEM



Automatically shuts down the machine after a preset period of vehicle inactivity measured through the seat switch.

Features:
- Saves money by not wasting any fuel or battery life
- Better for the environment
- Expand the life of your engine and battery

REF 100MC2778 – 12 V
REF 100MC2781 – 24 V

ANTI FUEL THEFT SYSTEM



The most effective solution to prevent fuel theft. When it is switched on this system monitors the fuel level in the tank. As soon as its drops, by means of fuel theft, the system will generate an alarm. This can be done through an audible or visual alarm, but also a silent alarm is one of the possibilities, you will be called or receive a text as soon as the alarm goes off. A combination of these options is also possible.

REF 100MC2779 – Single fuel tank
REF 100MC2783 – Double fuel tank

Replacement parts:
REF 100MC2782 – Optional GSM module

MOTOR DEGREASER



- Easy-to-use with the aerosol trigger sprayer
- Easily washed away with water
- Cleans and degreases all engines
- Removes oil and grease from the outside of the engine
- Not suitable for plastics
- Content: 500 ml

REF 100MC8225

MOTOR FLUSH



Removes sludge, gum, rust and varnish from internal engine parts (gasoline and diesel).
Use prior to oil change.

Features:
- High-performance dispersant
- Provides excellent control of engine deposits under stop-go conditions
- Ensures that the engine oil reaches all places for good lubrication and cooling
- Superior wear and bearing corrosion control, giving maximum engine protection

Applications:
Suited for semi-synthetic mineral and synthetic motor oils

Directions:
- Add the complete can, undiluted. One can is sufficient for a passenger car
- Run the engine for 10 minutes with the heater on
- Stop engine
- Change the oil according to the manufacturer's instructions
- A safety data sheet (MSDS) according to EC Regulation N° 1907/2006 Art.31 and amendments is available for all CRC products

REF 100MC8226

PREHEATER



Standard engine heaters cannot be fitted to certain vehicles, and we met the demands of this market with these universal heaters.

This universal heater is based on a self-circulating principle and fitted with an overheating guard and a thermostat.
The heater is equipped with a rubber sealing for increased service life and reliability.

All these universal heaters have a 20 mm diameter connection tube and can be delivered as a complete kit with heater and original bracket, cables ...

W	Capacity l	Regulating range	REF
500	4–12	60–80 °C (± 5 °C)	100MC2382
750	12–18	60–80 °C (± 5 °C)	100MC2383
1500	25–30	60–80 °C (± 5 °C)	100MC2384
2000	> 30	60–80 °C (± 5 °C)	100MC2385

RADIATOR SEAL



CRC

- Stops leaks in the radiator and cooling system
- Protects against corrosion
- Can be combined with common radiator antifreeze and additives
- Content: 200 ml

REF 100MC8204

RADIATOR CLEAN



CRC

- Dissolves accumulated corrosion and sludge in cooling and cooler circuits
- Protects against corrosion and degradation of aluminium parts
- Content: 200 ml

REF 100MC8205

QUICK START



TOTAL SOURCE

- High-quality tool to solve starting problems with internal combustion diesel and petroleum engines
- Content: 400 ml

REF 100MC8211

MOTOR STARTER PRO



CRC

- Ensures fast, economical starting for all diesel and gasoline engines
- Unique self-lubricating effect
- For internal combustion engines at very low temperatures and after long periods of stand still
- Fast and reliable cold start
- Content: 500 ml

REF 100MC8212

COOLANT CLASSIC



TOTAL SOURCE

- For cooling circuits of combustion engines
- Based on monoethylene glycol
- This coolant is already diluted and is ready-to-use
- Protects in temperatures as low as –28 °C
- Type Classic – G11
- Content: 5 l

REF 100MC8213

COOLANT RED



TOTAL SOURCE

- For cooling circuits of combustion engines
- Based on monoethylene glycol and organic corrosion inhibitors to protect all metals used in a modern engine
- Strongly recommended for engines of the latest technology, in which the protection of aluminium at high temperatures is important
- This coolant is already diluted and is ready-to-use
- Protects in temperatures as low as –28 °C
- Type D-G12+
- Content: 5 l

REF 100MC8214

COMPRESSION GAUGE FOR DIESEL ENGINES

LIFE WARRANTY

Beta Utensili S.p.A. Authorized Dealer



1



2

- Instrument for controlling compression on diesel engines
- Bar: 8 to 40
- Weight: 2,4 kg
- This compression gauge for older diesel engines can only be used in combination with below kit REF 100MC8229

1. **REF 100MC8215**

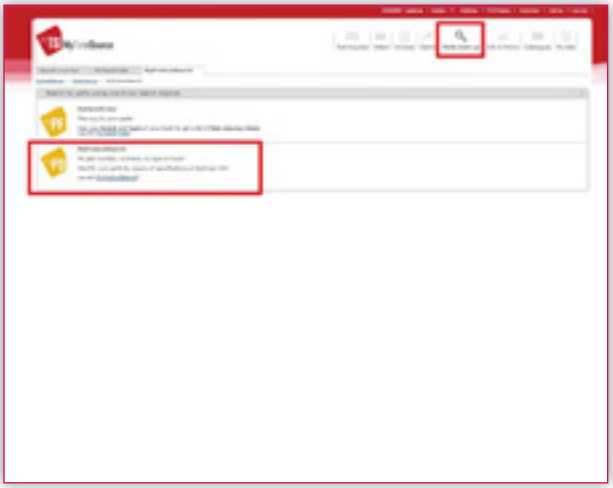
- 3 dummy injectors and 1 dummy spark plug
- Weight: 1,1 kg
- Dimensions of the box: 240 x 210 x 45 mm

2. **REF 100MC8229**

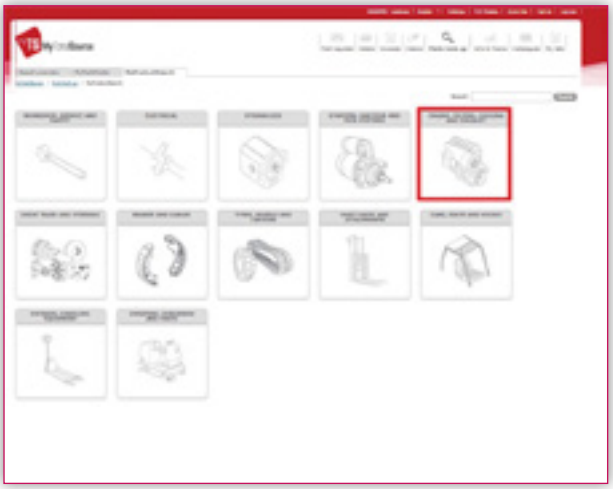
V-BELTS – NICE TO KNOW

MyTotalSource

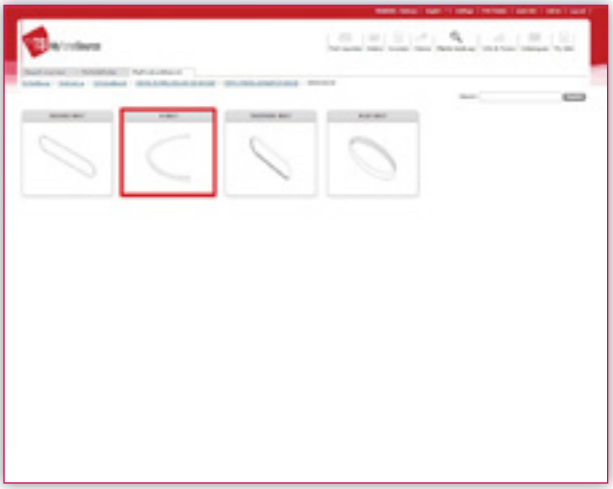
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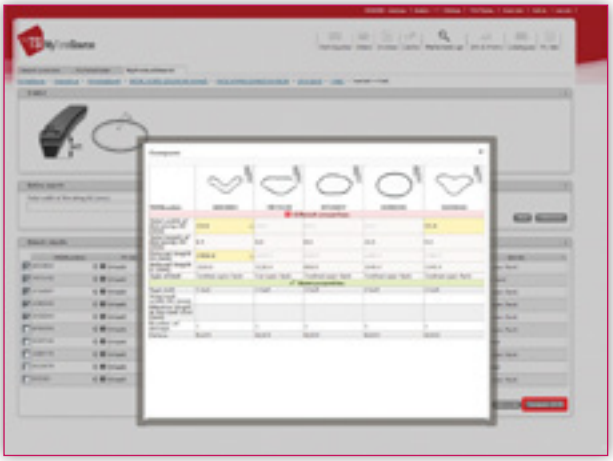
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V-BELTS – NICE TO KNOW

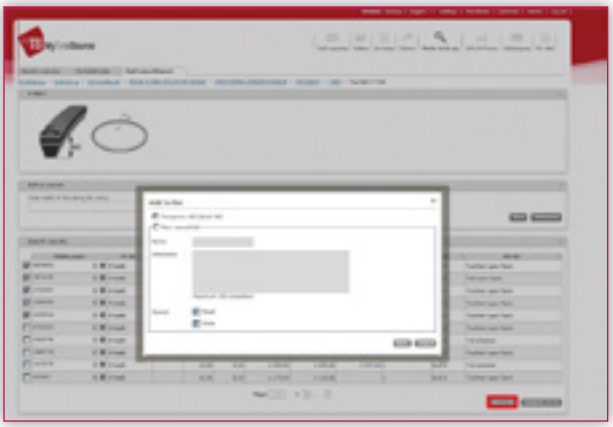
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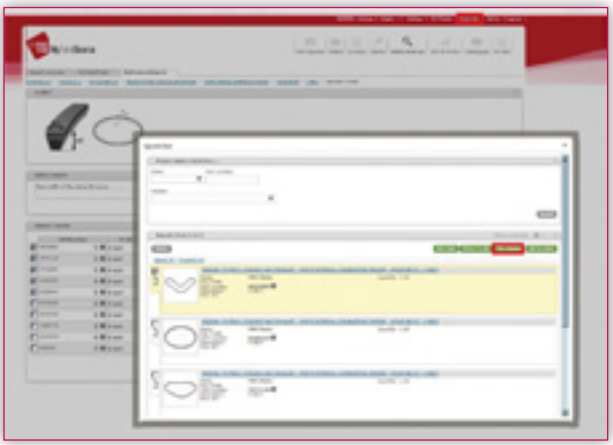
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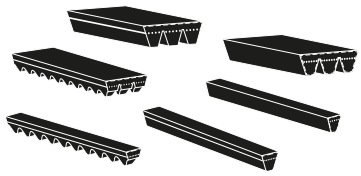
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V-BELTS – TECHNICAL SHEET

Group	Example	Customer details
01-03-12-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY-BELT . . . . . Type of belt:
PBAND = *power band*
VBELT = *v-belt*

W1 . . . . . Total width of the belt (mm)

W2 . . . . . Total width of the string (mm)

H1. . . . . Total height of the string (mm)

L1 . . . . . External length La, outside length of the belt (mm)

L2 . . . . . Internal length Li, inside length of the belt (mm)

L3 . . . . . Effective length Le at the belt cord (mm)

QTY-STNG . . . . . Number of strings

COL . . . . . Colour:
BLA = *black*
BLU = *blue*
GRE = *green*

SO-BELT . . . . . Sort of belt:
COG = *raw edge cogged v-belt*
PLAIN = *raw edge plain v-belt*
WRA = *wrapped v-belt*
OTHER = *other*

MAT . . . . . Material:
CR = *CR*
EPDM = *EPDM*

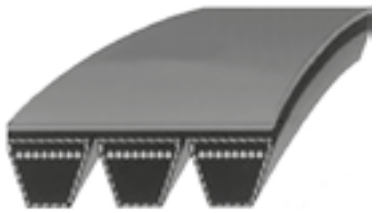
KIT . . . . . Kit (yes/no)

BRAND. . . . . Brand

V-BELTS – TECHNICAL SHEET

TY-BELT: TYPE OF BELT

PBAND
Power band

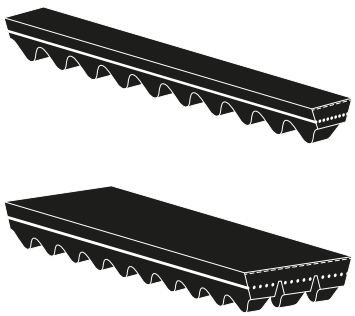


VBELT
V-belt

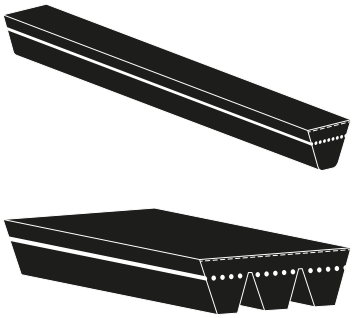


SO-BELT: SORT OF BELT

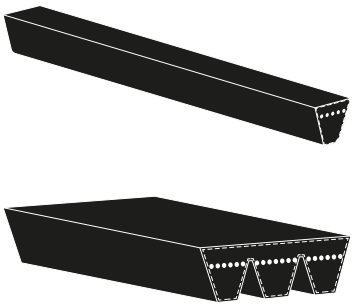
COG
Raw edge cogged v-belt



PLAIN
Raw edge plain v-belt

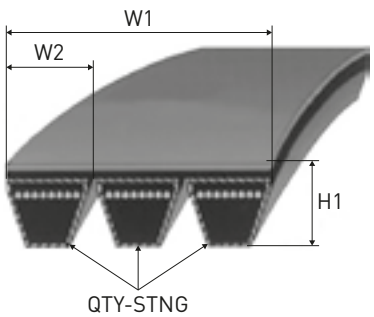


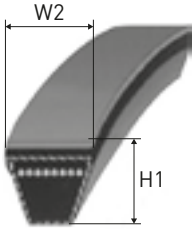
WRA
Wrapped v-belt

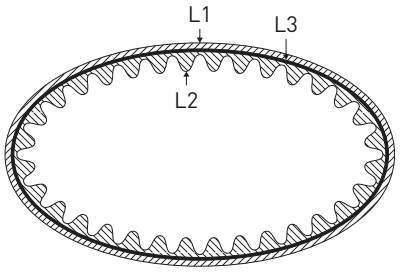


OTHER
Other

DIMENSIONS

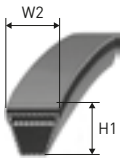


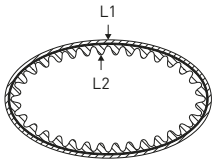




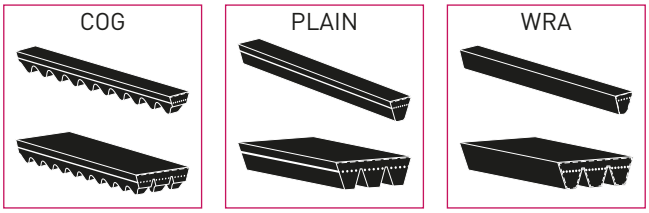
V-BELTS







Type of belt



L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
457	407	8,8	12,8	WRA	100MC1695
478	440	6,0	10,0	COG	100MC1696
525	474	8,0	9,7	WRA	100MC1697
563	525	6,3	10,0	COG	100MC1698
575	524	8,7	9,8	COG	100MC1699
580	535	8,8	13,0	COG	100MC1700
613	570	7,6	9,9	COG	100MC1701
635	590	8,6	9,7	COG	100MC1702
650	608	7,4	10,0	COG	100MC1703
670	630	7,7	10,0	COG	100MC1704
685	632	7,8	10,3	COG	100MC1705
700	650	9,0	13,7	COG	100MC1706
710	656	9,0	10,0	COG	100MC1707
723	672	8,0	9,0	COG	100MC1708
730	685	8,2	9,6	COG	100MC1709
730	683	7,5	10,3	COG	100MC1710
730	700	5,7	9,8	WRA	100MC1711
730	695	7,0	10,5	WRA	100MC1712
735	700	6,8	10,7	COG	100MC1713
736	686	8,2	13,3	COG	100MC1714
740	710	7,3	12,5	PLAIN	100MC1715
750	715	7,5	10,2	PLAIN	100MC1716
750	730	4,2	6,0	COG	100MC1717
750	700	8,5	13,0	COG	100MC1718
763	712	8,4	9,5	WRA	100MC1719
763	722	8,1	9,8	COG	100MC1720
763	712	7,7	10,0	COG	100MC1721
765	702	10,0	11,6	COG	100MC1722
775	725	8,3	10,3	COG	100MC1723
775	713	8,4	12,9	COG	100MC1724
785	740	7,0	11,0	PLAIN	100MC1725
790	734	8,1	10,0	COG	100MC1726
795	755	8,8	9,2	WRA	100MC1727
800	755	8,4	12,6	COG	100MC1728
800	749	8,7	9,7	COG	100MC1729
800	745	8,0	9,5	WRA	100MC1730
800	762	6,0	9,8	WRA	100MC1731
803	763	8,4	10,0	COG	100MC1732
810	787	6,5	10,0	WRA	100MC1733
818	771	8,2	11,5	COG	100MC1734
820	760	8,6	10,0	COG	100MC1735
825	772	8,0	10,2	COG	100MC1736

L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
825	780	8,8	10,4	COG	100MC1737
825	790	5,4	7,5	COG	100MC1738
834	775	11,7	17,0	WRA	100MC1739
838	796	8,1	10,9	COG	100MC1740
840	790	11,0	16,0	WRA	100MC1741
845	795	9,0	13,6	COG	100MC1742
845	800	8,0	10,0	COG	100MC1743
850	810	8,3	10,4	COG	100MC1744
850	795	8,7	9,0	COG	100MC1745
857	805	10,0	11,7	COG	100MC1746
858	813	9,0	13,5	COG	100MC1747
860	810	8,5	9,5	WRA	100MC1748
862	825	7,3	10,5	PLAIN	100MC1749
863	825	6,4	10,0	WRA	100MC1750
865	815	7,8	10,0	COG	100MC1751
872	860	5,0	10,6	PLAIN	100MC1752
874	830	8,3	12,3	WRA	100MC1753
875	827	7,7	9,8	COG	100MC1754
875	815	8,5	12,7	COG	100MC1755
875	830	8,4	10,8	COG	100MC1756
875	850	10,6	12,7	WRA	100MC1757
880	820	9,0	11,0	COG	100MC1758
880	830	8,8	9,8	COG	100MC1759
888	837	8,5	9,7	WRA	100MC1760
888	843	7,6	10,0	COG	100MC1761
890	850	9,0	13,0	COG	100MC1762
891	841	8,0	13,0	COG	100MC1763
892	835	10,5	16,7	COG	100MC1764
895	850	8,3	12,6	PLAIN	100MC1765
895	870	5,2	10,4	PLAIN	100MC1766
897	825	9,0	13,0	WRA	100MC1767
900	855	9,7	12,6	COG	100MC1768
900	850	8,0	10,0	COG	100MC1769
900	850	8,7	11,0	PLAIN	100MC1770
902	852	8,4	10,0	WRA	100MC1771
902	860	8,6	9,6	COG	100MC1772
907	860	8,4	12,4	WRA	100MC1773
908	865	8,5	13,0	COG	100MC1774
908	865	8,5	13,0	COG	100MC1775
910	870	8,5	11,0	PLAIN	100MC1776
913	865	8,4	10,3	COG	100MC1777
914	877	5,7	9,8	WRA	100MC1778

V-BELTS

L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
915	880	7,6	11,0	PLAIN	100MC1779
916	880	8,0	12,5	COG	100MC1780
918	875	8,8	12,5	COG	100MC1781
918	855	10,0	12,4	WRA	100MC1782
920	860	8,6	10,6	PLAIN	100MC1783
920	880	8,0	12,8	WRA	100MC1784
925	875	8,0	10,2	COG	100MC1785
925	862	9,7	12,6	COG	100MC1786
925	900	7,0	10,0	WRA	100MC1787
925	880	8,0	10,0	PLAIN	100MC1788
930	885	8,0	12,8	WRA	100MC1789
933	895	7,5	12,9	PLAIN	100MC1790
935	895	9,0	13,0	COG	100MC1791
936	892	8,0	11,3	COG	100MC1792
940	890	8,8	10,5	COG	100MC1793
943	880	10,0	11,8	COG	100MC1794
950	900	9,4	12,9	COG	100MC1795
950	843	7,5	10,0	COG	100MC1796
950	893	7,7	9,6	WRA	100MC1797
960	930	6,3	9,6	COG	100MC1798
960	906	8,4	12,8	COG	100MC1799
963	912	8,0	9,6	COG	100MC1800
965	920	7,3	12,8	PLAIN	100MC1801
965	902	8,2	11,1	COG	100MC1802
965	920	8,0	10,0	COG	100MC1803
968	915	8,7	12,8	COG	100MC1804
968	925	8,3	13,0	COG	100MC1805
970	925	7,8	9,7	WRA	100MC1806
970	928	7,6	10,6	PLAIN	100MC1807
970	920	8,8	10,0	COG	100MC1808
970	920	9,0	13,0	PLAIN	100MC1809
970	930	8,5	11,5	COG	100MC1810
975	912	9,0	12,5	COG	100MC1811
975	930	8,5	9,8	COG	100MC1812
975	920	8,8	8,8	COG	100MC1813
975	935	7,6	12,9	COG	100MC1814
975	930	9,6	11,8	COG	100MC1815
975	925	7,5	13,0	PLAIN	100MC1816
984	930	10,5	11,6	COG	100MC1817
985	945	8,0	10,3	COG	100MC1818
990	940	9,0	13,4	COG	100MC1819
993	950	7,5	11,0	PLAIN	100MC1820
995	940	10,3	13,0	COG	100MC1821
998	940	11,1	17,0	COG	100MC1822
1000	955	7,8	10,0	COG	100MC1823
1000	962	7,6	10,2	PLAIN	100MC1824
1000	941	8,3	12,9	COG	100MC1825
1000	955	8,0	12,6	PLAIN	100MC1826
1000	945	10,0	13,2	COG	100MC1827
1000	950	7,5	10,0	COG	100MC1828
1005	955	8,0	10,2	COG	100MC1829
1008	970	8,5	10,3	COG	100MC1830
1010	970	8,0	13,0	WRA	100MC1831
1010	955	9,9	13,3	COG	100MC1832
1010	955	8,3	13,0	COG	100MC1833
1013	967	7,1	10,0	COG	100MC1834

L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
1015	990	8,0	12,7	WRA	100MC1835
1018	975	8,5	12,5	WRA	100MC1836
1020	971	8,7	13,3	COG	100MC1837
1020	950	14,0	21,0	COG	100MC1838
1020	940	7,8	11,0	PLAIN	100MC1839
1023	990	7,4	12,8	PLAIN	100MC1840
1023	980	8,0	10,5	COG	100MC1841
1024	980	8,0	9,4	WRA	100MC1842
1025	973	8,0	10,0	COG	100MC1843
1025	980	7,6	10,3	COG	100MC1844
1025	990	7,5	10,0	PLAIN	100MC1845
1028	970	11,3	16,5	COG	100MC1846
1028	990	8,0	11,0	PLAIN	100MC1847
1030	970	8,7	13,0	COG	100MC1848
1035	997	7,6	10,6	PLAIN	100MC1849
1035	972	8,0	11,0	COG	100MC1850
1035	985	8,9	12,7	COG	100MC1851
1036	975	11,0	16,8	COG	100MC1852
1036	1001	8,3	11,6	COG	100MC1853
1040	1005	8,0	13,0	PLAIN	100MC1854
1043	1000	8,0	10,0	COG	100MC1855
1044	1005	8,0	10,7	PLAIN	100MC1856
1044	1005	7,5	13,1	PLAIN	100MC1857
1050	990	11,3	17,0	COG	100MC1858
1050	1000	9,7	13,0	COG	100MC1860
1050	1000	10,3	12,0	WRA	100MC1861
1050	1000	8,6	13,0	WRA	100MC1862
1050	1001	7,9	10,0	COG	100MC1859
1055	1020	8,0	12,5	COG	100MC1863
1058	1020	7,7	12,8	COG	100MC1864
1060	1030	5,0	7,6	PLAIN	100MC1865
1062	1020	8,1	13,5	PLAIN	100MC1866
1064	1010	11,3	16,2	PLAIN	100MC1867
1065	1022	8,0	13,3	PLAIN	100MC1868
1067	1000	11,9	16,6	WRA	100MC1869
1070	1020	9,0	13,2	COG	100MC1870
1070	1010	11,0	13,0	WRA	100MC1871
1070	1030	7,6	13,2	PLAIN	100MC1872
1073	1022	8,0	9,8	WRA	100MC1873
1075	1025	8,0	10,0	COG	100MC1874
1075	1015	11,2	17,0	COG	100MC1875
1075	1030	7,5	10,8	PLAIN	100MC1876
1075	1023	9,5	13,4	COG	100MC1877
1077	1030	8,4	13,0	WRA	100MC1878
1080	1027	9,4	13,2	COG	100MC1879
1083	1038	8,5	11,0	COG	100MC1880
1084	1035	8,7	10,3	COG	100MC1881
1084	1050	7,6	13,3	PLAIN	100MC1882
1085	1035	8,5	12,7	COG	100MC1883
1085	1016	11,4	16,8	WRA	100MC1884
1085	1035	9,0	12,0	COG	100MC1885
1085	1040	7,7	10,0	PLAIN	100MC1886
1086	1041	8,2	12,6	WRA	100MC1887
1088	1050	7,7	10,7	COG	100MC1888
1088	1025	11,3	16,6	COG	100MC1889
1090	1030	10,0	12,5	COG	100MC1890

V-BELTS

L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
1095	1040	10,0	13,4	COG	100MC1891
1095	1040	10,8	16,7	COG	100MC1892
1095	1060	8,0	13,0	PLAIN	100MC1893
1095	1050	9,0	13,5	COG	100MC1894
1098	1060	6,0	10,0	WRA	100MC1895
1100	1047	8,2	10,3	COG	100MC1896
1100	1049	7,5	9,4	WRA	100MC1897
1100	1060	7,5	13,0	PLAIN	100MC1898
1100	1040	9,4	13,2	COG	100MC1899
1100	1037	9,5	12,6	COG	100MC1900
1100	1050	10,2	16,8	COG	100MC1901
1107	1060	9,5	12,7	COG	100MC1902
1107	1070	7,4	13,0	PLAIN	100MC1903
1110	1055	7,8	10,0	COG	100MC1904
1110	1080	6,2	13,0	PLAIN	100MC1905
1112	1060	9,0	9,6	WRA	100MC1906
1112	1067	7,7	12,7	WRA	100MC1907
1115	1040	14,5	31,6	COG	100MC1919
1118	1062	8,3	12,7	COG	100MC1908
1120	1065	8,7	9,8	COG	100MC1909
1120	1065	9,5	12,6	COG	100MC1910
1125	1075	8,4	12,6	COG	100MC1911
1125	1075	8,1	10,1	COG	100MC1912
1125	1065	11,0	16,6	COG	100MC1913
1128	1090	7,8	12,3	WRA	100MC1914
1130	1080	9,4	13,0	COG	100MC1915
1130	1080	8,8	12,8	COG	100MC1916
1133	1082	8,0	9,8	WRA	100MC1917
1133	1075	10,6	16,6	COG	100MC1918
1138	1086	8,9	13,3	COG	100MC1920
1138	1070	10,0	12,7	WRA	100MC1921
1140	1090	7,9	10,2	COG	100MC1922
1143	1102	7,7	12,5	PLAIN	100MC1923
1145	1090	8,0	9,0	WRA	100MC1924
1145	1090	8,0	9,0	WRA	100MC1925
1150	1095	9,5	12,9	COG	100MC1926
1150	1100	8,1	10,2	COG	100MC1927
1150	1095	11,2	17,3	COG	100MC1928
1150	1100	8,0	13,0	WRA	100MC1929
1153	1120	8,0	13,0	PLAIN	100MC1930
1155	1120	9,0	13,0	COG	100MC1931
1156	1100	11,0	17,0	COG	100MC1932
1162	1125	7,7	10,0	PLAIN	100MC1933
1163	1100	10,0	11,7	COG	100MC1934
1165	1110	8,0	10,0	COG	100MC1935
1167	1120	8,6	13,5	WRA	100MC1936
1168	1105	9,0	12,0	COG	100MC1937
1168	1120	10,8	17,0	WRA	100MC1938
1170	1130	8,4	12,5	COG	100MC1939
1171	1131	7,6	10,7	COG	100MC1940
1173	1120	10,7	16,8	COG	100MC1941
1175	1115	8,7	12,9	COG	100MC1942
1175	1120	8,2	10,5	COG	100MC1943
1175	1130	8,0	13,7	PLAIN	100MC1944
1180	1130	7,5	11,0	PLAIN	100MC1945
1180	1135	9,0	13,0	COG	100MC1946
1180	1130	11,0	12,5	WRA	100MC1947
1184	1142	7,4	10,7	COG	100MC1948
1185	1155	7,8	12,7	PLAIN	100MC1949
1185	1140	8,5	10,0	COG	100MC1950
1193	1142	7,7	9,0	WRA	100MC1951
1197	1140	9,2	13,3	COG	100MC1952
1200	1140	13,0	17,0	COG	100MC1953
1200	1160	7,7	10,6	PLAIN	100MC1954
1200	1180	7,7	12,9	PLAIN	100MC1955
1200	1145	9,8	13,0	COG	100MC1956
1200	1145	8,3	13,4	COG	100MC1957
1200	1150	8,0	10,0	COG	100MC1958
1202	1145	8,3	9,5	COG	100MC1959
1203	1165	6,2	10,0	WRA	100MC1960
1205	1165	8,3	13,4	PLAIN	100MC1961
1207	1164	8,0	9,8	COG	100MC1962
1208	1153	10,8	16,8	COG	100MC1963
1210	1165	9,0	13,0	COG	100MC1964
1210	1180	7,8	13,0	WRA	100MC1965
1210	1160	10,4	16,5	COG	100MC1966
1212	1136	14,0	15,1	COG	100MC1967
1212	1170	8,4	10,0	WRA	100MC1968
1216	1135	13,5	20,0	COG	100MC1969
1220	1180	8,0	14,0	PLAIN	100MC1970
1225	1172	8,0	10,0	COG	100MC1971
1225	1174	8,1	9,7	WRA	100MC1972
1225	1163	8,0	11,1	COG	100MC1973
1225	1170	9,0	13,0	COG	100MC1974
1225	1170	10,5	16,5	COG	100MC1975
1226	1162	11,7	15,6	COG	100MC1976
1232	1180	14,0	14,0	COG	100MC1977
1235	1172	8,6	12,7	COG	100MC1978
1235	1194	8,3	12,5	WRA	100MC1979
1236	1175	11,5	15,4	COG	100MC1980
1237	1190	8,3	12,4	WRA	100MC1981
1237	1190	9,0	9,0	COG	100MC1982
1238	1196	7,3	10,5	COG	100MC1983
1240	1195	8,5	14,0	PLAIN	100MC1984
1243	1185	10,5	16,6	COG	100MC1985
1245	1210	7,8	13,0	PLAIN	100MC1986
1248	1200	7,9	12,6	WRA	100MC1987
1250	1190	9,0	9,6	PLAIN	100MC1988
1250	1210	8,6	12,8	COG	100MC1989
1250	1200	8,6	12,0	COG	100MC1990
1250	1195	8,5	14,0	PLAIN	100MC1991
1250	1200	7,7	9,7	COG	100MC1992
1256	1220	9,1	12,9	COG	100MC1993
1260	1205	8,9	12,5	COG	100MC1994
1260	1210	10,5	16,9	COG	100MC1995
1263	1212	7,7	9,7	WRA	100MC1996
1265	1220	9,0	17,5	PLAIN	100MC1997
1265	1210	10,0	16,5	COG	100MC1998
1270	1205	11,0	16,5	WRA	100MC1999
1270	1250	5,7	8,0	PLAIN	100MC2000
1275	1225	8,0	10,0	COG	100MC2001
1275	1225	11,0	16,7	COG	100MC2002

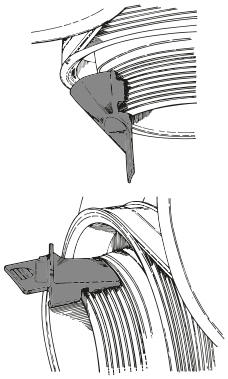
V-BELTS

L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
1275	1220	11,5	17,2	COG	100MC2003
1275	1222	8,1	9,6	WRA	100MC2004
1290	1226	9,0	11,8	WRA	100MC2005
1295	1235	10,6	16,8	COG	100MC2006
1300	1237	10,0	12,8	COG	100MC2007
1300	1249	8,5	10,0	WRA	100MC2008
1300	1240	9,0	12,5	COG	100MC2009
1300	1240	9,0	11,5	COG	100MC2010
1300	1270	8,1	12,6	WRA	100MC2011
1303	1245	11,0	17,2	COG	100MC2012
1310	1255	8,4	12,9	COG	100MC2013
1312	1270	8,2	10,5	COG	100MC2014
1315	1265	10,0	17,4	PLAIN	100MC2015
1323	1270	10,3	17,2	COG	100MC2016
1325	1275	7,8	10,1	COG	100MC2017
1325	1260	8,8	12,8	COG	100MC2018
1325	1262	9,2	12,5	COG	100MC2019
1333	1280	8,2	9,6	WRA	100MC2020
1335	1290	9,4	17,5	PLAIN	100MC2021
1340	1285	8,9	12,9	COG	100MC2022
1345	1290	10,0	13,5	COG	100MC2023
1350	1295	8,7	12,9	COG	100MC2024
1350	1300	8,2	10,5	COG	100MC2025
1359	1300	11,8	15,4	COG	100MC2026
1360	1302	9,0	12,7	COG	100MC2027
1370	1320	8,9	12,9	COG	100MC2028
1375	1322	7,8	9,7	WRA	100MC2029
1375	1315	8,7	12,7	COG	100MC2030
1375	1310	13,3	31,0	PLAIN	100MC2031
1378	1315	8,8	12,4	COG	100MC2032
1380	1320	11,0	13,0	WRA	100MC2033
1388	1350	9,4	13,0	COG	100MC2034
1400	1347	8,0	9,9	COG	100MC2035
1400	1340	8,7	12,8	COG	100MC2036
1405	1335	10,7	17,0	COG	100MC2037
1422	1385	5,6	9,8	WRA	100MC2038
1425	1370	9,2	14,0	COG	100MC2039
1425	1370	7,9	10,0	COG	100MC2040
1425	1360	11,1	17,0	COG	100MC2041
1425	1370	10,7	16,8	COG	100MC2042
1430	1397	8,2	13,0	WRA	100MC2043
1444	1385	11,8	16,8	COG	100MC2044
1450	1403	8,0	10,0	COG	100MC2045
1450	1390	9,5	13,2	COG	100MC2046
1450	1400	9,0	12,9	COG	100MC2047
1450	1387	9,5	12,5	COG	100MC2048
1453	1400	10,6	16,8	COG	100MC2049
1460	1396	8,9	12,8	COG	100MC2050
1460	1410	11,0	16,5	COG	100MC2051
1465	1415	8,5	12,8	COG	100MC2052
1470	1422	8,2	13,0	WRA	100MC2053
1472	1420	11,0	16,6	COG	100MC2054
1475	1410	8,5	12,8	COG	100MC2055
1477	1430	7,5	13,5	PLAIN	100MC2056
1485	1422	8,9	12,8	COG	100MC2057
1487	1426	11,6	15,5	COG	100MC2058

L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	REF
1490	1450	9,0	13,0	COG	100MC2059
1495	1440	9,8	11,8	COG	100MC2060
1500	1440	9,0	12,8	COG	100MC2061
1500	1465	5,7	10,0	WRA	100MC2062
1500	1452	8,0	10,2	COG	100MC2063
1505	1450	11,0	16,8	COG	100MC2064
1510	1460	8,7	13,3	COG	100MC2065
1513	1460	10,4	17,0	COG	100MC2066
1515	1435	14,0	16,0	COG	100MC2067
1525	1460	8,5	13,0	COG	100MC2068
1525	1475	7,7	10,1	COG	100MC2069
1525	1474	8,0	9,7	WRA	100MC2070
1525	1490	8,5	13,0	COG	100MC2071
1533	1475	10,5	17,0	COG	100MC2072
1545	1480	11,4	17,0	COG	100MC2073
1550	1500	8,0	10,6	COG	100MC2074
1560	1445	11,0	17,0	COG	100MC1694
1560	1490	9,0	11,9	COG	100MC2075
1569	1500	11,4	16,8	COG	100MC2076
1575	1515	8,6	13,0	COG	100MC2077
1590	1525	9,0	13,8	COG	100MC2078
1600	1540	8,8	12,7	COG	100MC2079
1600	1545	9,1	12,9	COG	100MC2080
1613	1560	10,3	17,0	COG	100MC2081
1620	1550	14,0	22,0	COG	100MC2082
1625	1555	8,9	12,9	COG	100MC2083
1632	1600	6,3	10,0	WRA	100MC2084
1635	1575	11,5	15,6	COG	100MC2085
1637	1580	9,2	13,9	COG	100MC2086
1642	1585	11,3	16,6	COG	100MC2087
1644	1575	11,0	16,0	PLAIN	100MC2088
1650	1592	8,7	12,8	COG	100MC2089
1670	1610	7,8	10,0	COG	100MC2090
1700	1633	9,5	13,3	COG	100MC2091
1730	1701	6,2	9,5	WRA	100MC2092
1757	1700	10,4	13,4	WRA	100MC2093
1765	1710	8,0	10,0	COG	100MC2094
1790	1750	8,4	12,7	WRA	100MC2095
1798	1750	7,8	9,3	WRA	100MC2096
1813	1775	6,0	10,0	WRA	100MC2097
1825	1765	11,2	17,5	COG	100MC2098
1832	1760	13,0	23,5	COG	100MC2099
1834	1775	11,0	17,0	WRA	100MC2100
1863	1812	8,0	9,7	WRA	100MC2101
1900	1887	8,0	9,6	WRA	100MC2102
1940	1890	8,0	10,0	WRA	100MC2103
1945	1840	15,0	32,0	WRA	100MC2104
1975	1924	8,0	9,0	WRA	100MC2105
2253	2202	8,0	9,7	COG	100MC2106
2417	2319	10,7	17,0	COG	100MC2107
2722	2692	9,0	13,0	WRA	100MC2108
3572	3490	13,0	15,0	PLAIN	100MC2109
4376	4318	14,0	16,0	COG	100MC2110
4928	4826	14,7	22,5	WRA	100MC2111
5842	5757	15,5	22,5	WRA	100MC2112

BELT TOOL 2 PIECES





Beta Utensili S.p.A. Authorized Dealer

REF 100MC8228

BELT IDENTIFICATION TOOL



- Find the exact replacement belt instantly
- A quick check shows the inner belt length (Li)
- Scale will read-out the exact size

REF 101MC3377

KIT FOR CONTROLLING CAM BELT TENSION

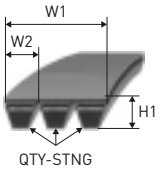


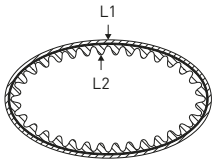
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POWER BANDS

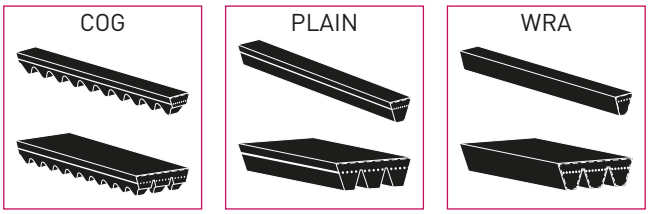








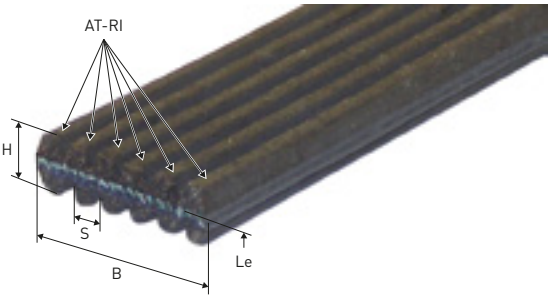
Type of belt



L1 mm	L2 mm	H1 mm	W2 mm	Type of belt	AT-SN	REF
1412	1371	9,7	30,6	COG	3	100MC2113
1450	1407	9,6	30,5	COG	3	100MC2114
1473	1435	10,2	30,0	COG	3	100MC2115
1485	1435	10,0	30,0	COG	3	100MC2116
1490	1450	10,0	30,5	COG	3	100MC2117
1524	1480	10,5	30,0	COG	3	100MC2118
1536	1498	9,7	20,3	COG	2	100MC2119
1685	1630	10,5	41,0	COG	4	100MC2120
1753	1715	9,7	40,8	COG	4	100MC2121
1800	1765	10,5	20,0	COG	2	100MC2122
1825	1783	9,6	40,6	COG	4	100MC2123
1830	1790	10,3	20,4	WRA	2	100MC2124
1845	1790	9,9	19,3	COG	2	100MC2125

FLAT DRIVE BELT – TYPE PK





Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
698	14,20	4,50	Yes	4	3,56	100MC2127
715	18,00	5,00	Yes	5	3,56	100MC2128
730	21,00	4,30	Yes	6	3,56	100MC2129
745	21,30	4,30	Yes	6	3,56	100MC2130
750	21,50	4,50	Yes	6	3,56	100MC2131
775	21,20	4,40	Yes	6	3,56	100MC2132
780	18,00	4,50	Yes	5	3,56	100MC2133
800	28,70	4,70	Yes	8	3,56	100MC2134
801	17,70	4,30	Yes	5	3,56	100MC2135
830	13,70	4,50	Yes	4	3,56	100MC2136
835	28,50	4,50	Yes	8	3,56	100MC2137
842	22,00	4,40	Yes	6	3,56	100MC2138
843	21,36	4,6	Yes	6	3,56	100MC2376
865	17,30	4,40	Yes	5	3,56	100MC2139
870	21,10	4,30	Yes	6	3,56	100MC2140
875	17,90	4,60	Yes	5	3,56	100MC2141
875	21,70	4,60	Yes	6	3,56	100MC2142
880	17,30	4,70	Yes	5	3,56	100MC2143
884	21,20	4,80	Yes	6	3,56	100MC2144
906	21,00	5,00	Yes	6	3,56	100MC2145
913	14,00	4,60	Yes	4	3,56	100MC2146
925	21,40	4,30	Yes	6	3,56	100MC2147
940	17,50	4,40	Yes	5	3,56	100MC2148
940	21,20	4,40	Yes	6	3,56	100MC2149
950	21,20	4,40	Yes	6	3,56	100MC2150
954	28,80	4,60	Yes	8	3,56	100MC2151
975	28,10	4,30	Yes	8	3,56	100MC2152
980	24,80	4,90	Yes	7	3,56	100MC2153
980	28,30	4,60	Yes	8	3,56	100MC2154
980	32,00	4,50	Yes	9	3,56	100MC2155
986	21,30	4,20	Yes	6	3,56	100MC2156
995	29,00	4,60	Yes	8	3,56	100MC2157
1005	21,20	4,60	Yes	6	3,56	100MC2158
1015	21,10	4,30	Yes	6	3,56	100MC2159
1025	21,50	4,40	Yes	6	3,56	100MC2160
1030	14,20	4,30	Yes	4	3,56	100MC2161
1065	21,20	4,40	Yes	6	3,56	100MC2162
1070	14,20	4,40	Yes	4	3,56	100MC2163
1070	21,45	4,25	Yes	6	3,56	100MC2164
1078	21,10	4,40	Yes	6	3,56	100MC2165
1080	18,40	4,50	Yes	5	3,56	100MC2166
1095	21,40	4,60	Yes	6	3,56	100MC2167
1105	14,40	4,30	Yes	4	3,56	100MC2168

Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
1108	35,70	4,60	Yes	10	3,56	100MC2169
1110	17,50	4,40	Yes	5	3,56	100MC2170
1114	14,40	4,50	Yes	4	3,56	100MC2171
1120	21,00	4,40	Yes	6	3,56	100MC2172
1120	25,00	4,60	Yes	7	3,56	100MC2173
1140	21,10	4,50	Yes	6	3,56	100MC2174
1140	25,00	4,30	Yes	7	3,56	100MC2175
1145	20,70	4,40	Yes	6	3,56	100MC2176
1150	25,00	4,30	Yes	7	3,36	100MC2177
1150	28,00	4,50	Yes	8	3,56	100MC2178
1155	24,80	5,00	Yes	7	3,56	100MC2179
1160	25,00	4,40	Yes	7	3,56	100MC2180
1165	13,80	4,70	Yes	4	3,56	100MC2181
1165	21,00	4,50	Yes	6	3,56	100MC2182
1165	28,40	4,70	Yes	8	3,56	100MC2183
1175	28,00	4,40	Yes	8	3,56	100MC2184
1190	21,10	4,40	Yes	6	3,56	100MC2185
1190	21,20	4,50	Yes	6	3,56	100MC2186
1195	32,00	4,80	Yes	9	3,56	100MC2187
1197	14,30	4,40	Yes	4	3,56	100MC2188
1220	14,20	4,30	Yes	4	3,56	100MC2189
1230	28,48	4,6	Yes	8	3,56	100MC2377
1240	21,00	4,30	Yes	6	3,56	100MC2190
1245	14,10	4,40	Yes	4	3,56	100MC2191
1248	24,90	4,40	Yes	7	3,56	100MC2192
1250	14,00	4,30	Yes	4	3,56	100MC2193
1265	28,20	4,80	Yes	8	3,56	100MC2194
1270	21,50	4,60	Yes	6	3,56	100MC2195
1288	20,60	4,50	Yes	6	3,56	100MC2196
1290	20,50	4,60	Yes	6	3,56	100MC2197
1290	28,30	5,50	Yes	8	3,56	100MC2198
1295	14,40	4,30	Yes	4	3,56	100MC2199
1300	28,00	4,80	Yes	8	3,56	100MC2200
1300	28,20	4,75	Yes	8	3,56	100MC2201
1320	28,90	4,60	Yes	8	3,56	100MC2202
1330	28,00	4,80	Yes	8	3,56	100MC2203
1345	35,75	4,60	Yes	10	3,56	100MC2204
1346	28,40	4,60	Yes	8	3,56	100MC2205
1350	14,20	4,20	Yes	4	3,56	100MC2206
1365	28,50	4,10	Yes	8	3,56	100MC2207
1380	20,80	4,60	Yes	6	3,56	100MC2208
1381	28,10	5,00	Yes	8	3,56	100MC2209
1400	28,50	4,60	Yes	8	3,56	100MC2210

FLAT DRIVE BELT – TYPE PK

Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
1404	28,50	4,60	Yes	8	3,56	100MC2211
1406	28,00	4,60	Yes	8	3,56	100MC2212
1420	21,10	4,40	Yes	6	3,56	100MC2213
1430	28,00	4,40	Yes	8	3,56	100MC2214
1435	18,00	4,50	Yes	5	3,56	100MC2215
1446	35,40	4,35	Yes	10	3,56	100MC2216
1450	21,10	4,50	Yes	6	3,56	100MC2217
1450	27,90	4,20	Yes	8	3,56	100MC2218
1460	28,40	4,60	Yes	8	3,56	100MC2219
1470	20,70	4,50	Yes	6	3,56	100MC2220
1470	35,60	4,6	Yes	10	3,56	100MC2379
1477	28,70	4,8	Yes	8	3,56	100MC2380
1480	14,50	4,60	Yes	4	3,56	100MC2221
1480	28,48	4,6	Yes	8	3,56	100MC2381
1485	28,60	4,50	Yes	8	3,56	100MC2222
1490	35,60	4,70	Yes	10	3,56	100MC2223
1502	35,40	4,70	Yes	10	3,56	100MC2224
1505	28,00	4,60	Yes	8	3,56	100MC2225
1505	35,30	4,40	Yes	10	3,56	100MC2226
1510	35,60	4,60	Yes	10	3,56	100MC2227
1515	21,40	4,30	Yes	6	3,56	100MC2228
1515	21,70	4,60	Yes	6	3,56	100MC2229
1520	14,00	4,40	Yes	4	3,56	100MC2230
1520	28,50	4,60	Yes	8	3,56	100MC2231
1525	28,70	4,60	Yes	8	3,56	100MC2232
1535	28,30	4,40	Yes	8	3,56	100MC2233
1540	14,30	5,30	Yes	4	3,56	100MC2234
1540	27,60	4,60	Yes	8	3,56	100MC2235
1540	28,60	4,80	Yes	8	3,56	100MC2236
1540	35,70	4,70	Yes	10	3,56	100MC2237
1555	27,50	4,70	Yes	8	3,56	100MC2238
1560	21,10	4,30	Yes	6	3,56	100MC2239
1560	28,00	4,60	Yes	8	3,56	100MC2240
1560	35,60	4,50	Yes	10	3,56	100MC2241
1560	53,50	4,70	Yes	15	3,56	100MC2242
1570	28,50	4,90	Yes	8	3,56	100MC2243
1570	35,30	4,50	Yes	10	3,56	100MC2244
1575	27,80	4,40	Yes	8	3,56	100MC2245
1580	42,70	4,80	Yes	12	3,56	100MC2246
1585	35,40	4,40	Yes	10	3,56	100MC2247
1590	21,20	4,30	Yes	6	3,56	100MC2248
1590	28,50	4,80	Yes	8	3,56	100MC2249
1595	35,60	5,20	Yes	10	3,56	100MC2250
1600	27,90	4,60	Yes	8	3,56	100MC2251
1600	36,00	4,60	Yes	10	3,56	100MC2252
1615	21,20	4,30	Yes	6	3,56	100MC2253
1620	28,00	4,50	Yes	8	3,56	100MC2254
1620	28,20	4,70	Yes	8	3,56	100MC2255
1620	35,70	4,30	Yes	10	3,56	100MC2256
1625	28,40	4,90	Yes	8	3,56	100MC2257
1646	28,40	4,90	Yes	8	3,56	100MC2258
1650	21,10	4,30	Yes	6	3,56	100MC2259
1650	28,40	4,50	Yes	8	3,56	100MC2260
1660	28,20	4,60	Yes	8	3,56	100MC2261
1660	35,30	4,50	Yes	10	3,56	100MC2262
1665	28,00	4,20	Yes	8	3,56	100MC2263

Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
1670	28,60	4,70	Yes	8	3,56	100MC2264
1690	28,00	4,30	Yes	8	3,56	100MC2265
1690	32,00	4,50	Yes	9	3,56	100MC2266
1700	21,00	4,50	Yes	6	3,56	100MC2267
1700	28,30	4,50	Yes	8	3,56	100MC2268
1703	18,00	4,20	Yes	5	3,56	100MC2269
1710	28,10	4,60	Yes	8	3,56	100MC2270
1715	35,20	4,40	Yes	10	3,56	100MC2271
1718	27,90	4,50	Yes	8	3,56	100MC2272
1720	28,10	4,50	Yes	8	3,56	100MC2273
1725	35,60	4,60	Yes	10	3,56	100MC2274
1730	27,70	4,50	Yes	8	3,56	100MC2275
1740	28,30	4,50	Yes	8	3,56	100MC2276
1740	34,70	4,00	Yes	10	3,56	100MC2277
1755	28,20	4,40	Yes	8	3,56	100MC2278
1765	29,00	4,50	Yes	8	3,56	100MC2279
1770	28,00	4,60	Yes	8	3,56	100MC2280
1778	28,48	4,60	Yes	8	3,56	100MC2281
1787	35,20	4,30	Yes	10	3,56	100MC2282
1790	28,50	4,50	Yes	8	3,56	100MC2283
1800	17,70	4,40	Yes	5	3,56	100MC2284
1805	28,00	4,70	Yes	8	3,56	100MC2285
1810	35,30	4,50	Yes	10	3,56	100MC2286
1815	28,50	4,40	Yes	8	3,56	100MC2287
1830	27,70	4,60	Yes	8	3,56	100MC2288
1830	27,80	4,30	Yes	8	3,56	100MC2289
1838	28,60	5,00	Yes	8	3,56	100MC2290
1855	27,80	4,70	Yes	8	3,56	100MC2291
1860	28,00	4,40	Yes	8	3,56	100MC2292
1860	42,00	4,30	Yes	12	3,56	100MC2293
1875	25,50	4,40	Yes	8	3,56	100MC2294
1885	27,90	4,70	Yes	8	3,56	100MC2295
1890	42,70	4,40	No	12	3,56	100MC2296
1895	28,40	4,50	Yes	8	3,56	100MC2297
1900	28,50	4,80	Yes	8	3,56	100MC2298
1900	35,00	4,35	Yes	10	3,56	100MC2299
1930	35,30	4,40	Yes	10	3,56	100MC2300
1950	29,00	4,70	Yes	8	3,56	100MC2301
1955	28,50	4,60	Yes	8	3,56	100MC2302
1974	27,60	4,40	Yes	8	3,56	100MC2303
1977	35,60	4,40	Yes	10	3,56	100MC2304
1992	28,00	4,50	Yes	8	3,56	100MC2305
2002	27,60	4,50	Yes	8	3,56	100MC2306
2011	28,00	4,60	Yes	8	3,56	100MC2307
2020	27,60	4,60	Yes	8	3,56	100MC2308
2045	28,00	4,60	Yes	8	3,56	100MC2309
2080	21,20	4,30	Yes	6	3,56	100MC2310
2090	28,80	4,60	Yes	8	3,56	100MC2311
2100	21,20	4,40	Yes	6	3,56	100MC2312
2108	35,70	4,80	Yes	10	3,56	100MC2313
2115	27,70	4,50	Yes	8	3,56	100MC2314
2121	21,00	4,30	Yes	6	3,56	100MC2315
2130	28,48	4,60	Yes	8	3,56	100MC2126
2145	21,20	4,40	Yes	6	3,56	100MC2316
2150	28,80	4,60	Yes	8	3,56	100MC2317
2181	35,70	5,00	Yes	10	3,56	100MC2318

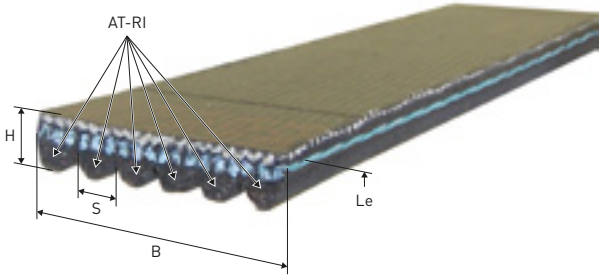
FLAT DRIVE BELT – TYPE PK

Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
2200	21,00	4,50	Yes	6	3,56	100MC2319
2220	27,80	4,00	Yes	8	3,56	100MC2320
2240	28,50	4,50	Yes	8	3,56	100MC2321
2265	21,10	4,35	Yes	6	3,56	100MC2322
2268	28,50	5,40	Yes	8	3,56	100MC2323
2280	42,30	4,60	Yes	12	3,56	100MC2324
2340	21,10	4,30	Yes	6	3,56	100MC2325
2360	21,00	4,20	Yes	6	3,56	100MC2326
2385	21,40	4,30	Yes	6	3,56	100MC2327

Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
2490	21,10	4,40	Yes	6	3,56	100MC2328
2510	28,00	4,60	Yes	8	3,56	100MC2329
2535	28,10	4,40	Yes	8	3,56	100MC2330
2542	28,30	4,80	Yes	8	3,56	100MC2331
2630	35,50	4,60	Yes	10	3,56	100MC2332
2660	28,30	4,40	Yes	8	3,56	100MC2333
2795	28,00	4,40	Yes	8	3,56	100MC2334
3330	28,00	4,60	Yes	8	3,56	100MC2335

FLAT DRIVE BELT – TYPE PJ





Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
330	17,0	3,2	Yes	7	2,34	100MC2336
381	18,8	3,1	Yes	8	2,34	100MC2337
381	19,1	3,5	Yes	8	2,34	100MC2338
425	23,5	3,5	Yes	10	2,34	100MC2339
435	4,5	3,2	Yes	2	2,34	100MC2340
457	14,0	3,0	Yes	6	2,34	100MC2341
457	18,8	3,5	Yes	8	2,34	100MC2342
476	14,0	3,2	Yes	6	2,34	100MC2343
483	14,2	3,4	Yes	6	2,34	100MC2344
483	19,1	3,8	Yes	8	2,34	100MC2345
507	16,5	3,0	Yes	7	2,34	100MC2346
508	14,0	3,3	Yes	6	2,34	100MC2347
559	18,9	3,5	Yes	8	2,34	100MC2348
582	16,5	3,5	Yes	7	2,34	100MC2349
610	18,7	3,5	Yes	8	2,34	100MC2350
660	13,9	3,3	Yes	6	2,34	100MC2351
660	18,7	3,4	Yes	8	2,34	100MC2352
660	37,4	3,3	Yes	16	2,34	100MC2353
660	9,6	3,5	Yes	4	2,34	100MC2354
675	25,0	3,5	Yes	11	2,34	100MC2355

Le mm	B mm	H mm	RIB	AT-RI	S mm	REF
711	23,4	3,5	Yes	10	2,34	100MC2356
714	27,8	3,8	Yes	12	2,34	100MC2357
737	28,4	3,6	Yes	12	2,34	100MC2358
762	16,2	3,5	Yes	7	2,34	100MC2359
762	9,6	3,6	Yes	4	2,34	100MC2360
769	14,0	3,5	Yes	6	2,54	100MC2361
786	33,0	3,4	Yes	14	2,34	100MC2362
813	19,1	3,4	Yes	8	2,34	100MC2363
838	37,5	3,3	Yes	16	2,34	100MC2364
889	18,8	3,6	Yes	8	2,34	100MC2365
914	21,4	3,5	Yes	9	2,34	100MC2366
920	20,6	3,6	Yes	9	2,34	100MC2367
965	7,2	3,3	Yes	3	2,34	100MC2368
1130	37,8	3,5	Yes	16	2,34	100MC2369
1549	13,8	3,2	Yes	6	2,34	100MC2370
1578	14,0	3,2	Yes	6	2,34	100MC2371
1651	23,6	3,5	Yes	10	2,34	100MC2372
1690	35,8	4,6	Yes	10	2,34	100MC2373
1992	23,6	3,5	Yes	10	2,34	100MC2374
2019	16,3	4,0	Yes	7	2,34	100MC2375

CONTACT US FOR ALL RECONDITIONED ENGINE PARTS

Large range of reconditioned parts available. For further information, please contact us.









Reconditioned
Recycled
Reliable

Service exchange parts:
A good alternative!







Injection pumps, crankshafts, water pumps, cylinder heads, camshafts, injectors, blocks, short blocks ...

- CATERPILLAR
- CHRYSLER
- CONTINENTAL
- CUMMINS
- DETROIT
- DEUTZ
- FIAT-OM
- FORD
- GM
- ISUZU
- KOMATSU
- MAZDA
- MERCEDES
- MITSUBISHI
- NISSAN
- PERKINS
- PEUGEOT
- RENAULT
- TOYOTA
- VOLKSWAGEN
- VOLVO
- WAUKESHA

NEW AND REBUILT ENGINES

Large range of reconditioned parts available. For further information, please contact us.







Reconditioned
Recycled
Reliable
TVH



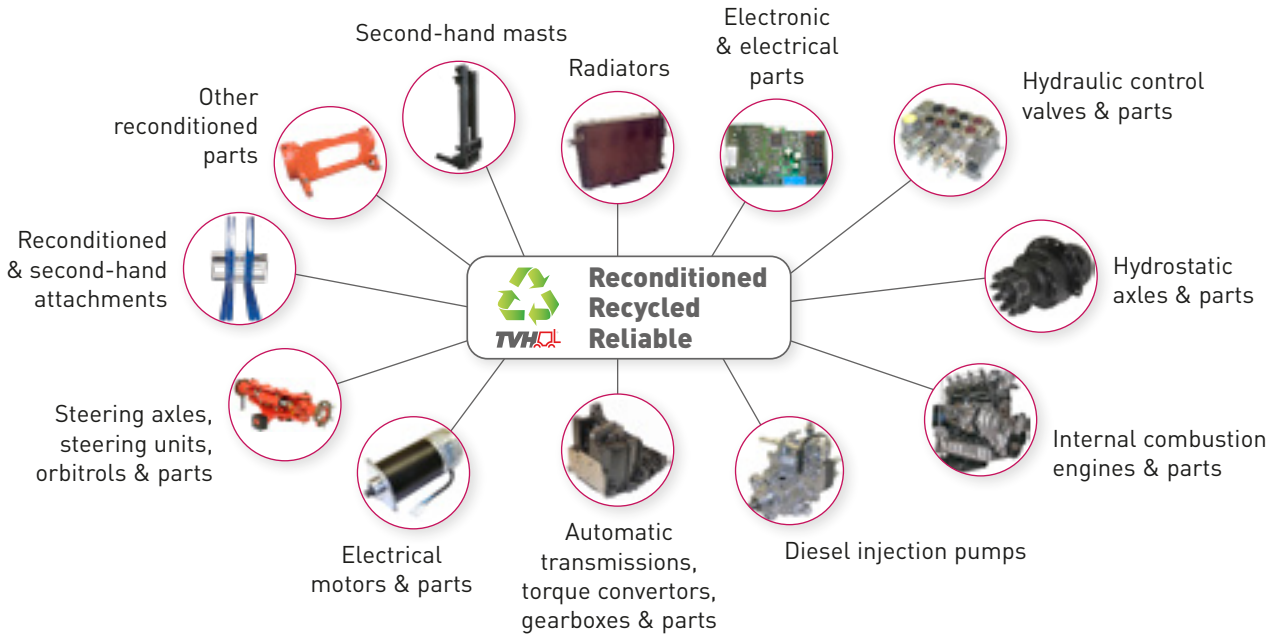
Exchange engines:
6-month warranty





- CATERPILLAR
- CHRYSLER
- CONTINENTAL
- CUMMINS
- DETROIT
- DEUTZ
- FIAT-OM
- FORD
- GM
- ISUZU
- KOMATSU
- MAZDA
- MERCEDES
- MITSUBISHI
- NISSAN
- PERKINS
- PEUGEOT
- RENAULT
- TOYOTA
- VOLKSWAGEN
- VOLVO
- WAUKESHA

RECONDITIONED PARTS



We offer you a unique range of reconditioned parts, at the best price. Reconditioned parts are sold with the same warranty as for a new part, at a price that can be up to 50% cheaper!

Electric motors, internal combustion engines, printed circuit boards, hydraulic pumps, transmissions, torque converters, radiators, steering axles, starters, alternators ... everything is in stock! TVH has invested in a wide range of test devices which allow us to pass stringent quality controls on various spare parts. The tests are designed in such a manner that a realistic work situation is generated during the tests.

Buying one of our reconditioned parts is the perfect alternative to buying a new spare part. Ask for the availability and the conditions! You can buy a reconditioned part with or without the return of an old unit (service exchange parts).

Find out more about our reconditioned parts in our brochure **(REF 29127412)** or go to downloads on **www.tvh.com** to watch the movie.





HYDRAULICS

HYDRAULIC PUMPS



TVH has a large stock of hydraulic pumps for all material handling makes and models.
We stock over 2000 different pumps.

We can offer you the brands below:
Bondioli & Pavesi, Bosch – Rexroth, Bucher, Caproni, Casappa, Chapel, Concentric (Haldex – John S Barnes), Danfoss, Eaton (Vickers), Eckerle, Galtech, HPI, Hydreco (David Brown), Kawasaki, KYB, Linde Hydraulics, Marzocchi, Nihon Spindle, Parker (Ultra – Dowty – Commercial – Denison), Roquet, Salami, Shimadzu, Turolla and many more.

HYDRAULIC PUMPS



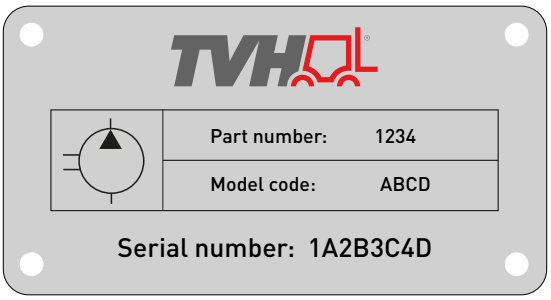
For hydraulic pumps, please consult our Hydraulic parts & accessories catalogue REF 31331437.

Go to downloads on www.tvh.com to view the catalogue online.

HOW TO FIND THE CORRECT HYDRAULIC PUMP

To identify the correct hydraulic pump we need the full details on the ID plate on the pump, the engravings in the pump housing or the complete machine details.

Example

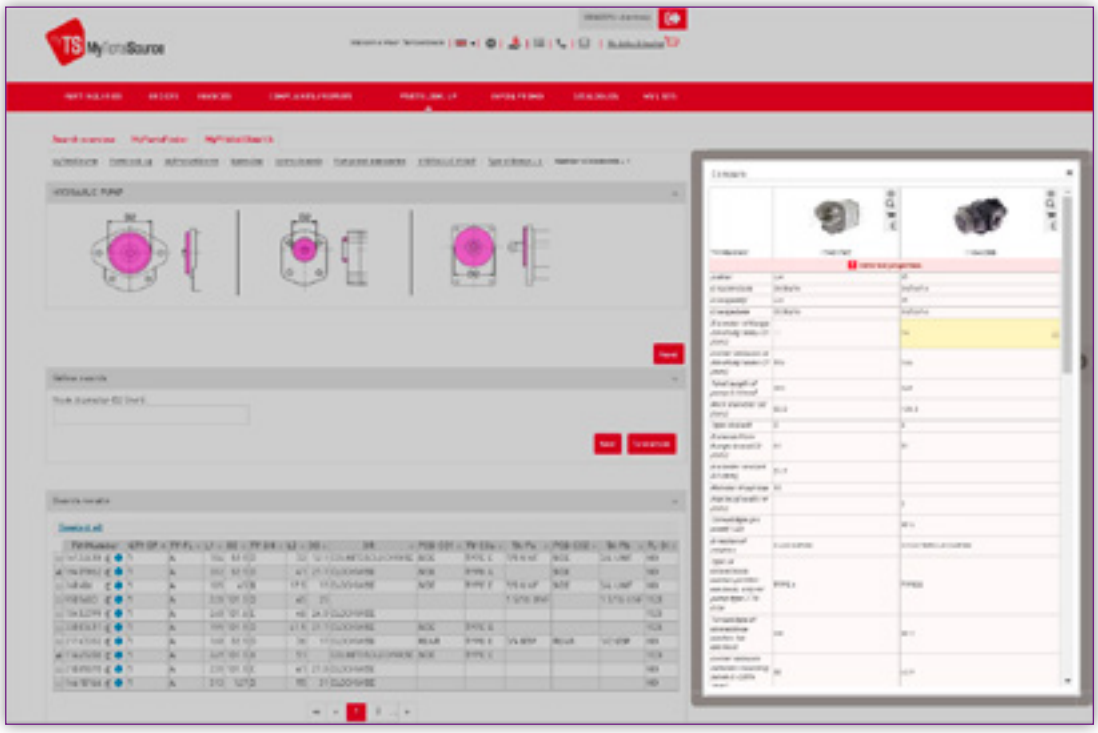


If you have an ID plate we need the following details in order to find the correct pump: Brand (example TVH), Part number (e.g.: 1234), Model code (e.g.: ABCD). If you could send us a clear and legible picture of the ID plate on the pump, this will also enable us to find the correct pump for you.
If you have a double pump, in most cases the front pump (with shaft and mounting flange) will have the ID plate for the complete assembly.

Look up your hydraulic pump via
MyProductSearch in **MyTotalSource**

myPS MyProductSearch

If you have questions or concerns finding the correct pump in MyProductSearch, please contact your sales advisor. The technical sheet can help us find the pump you need.

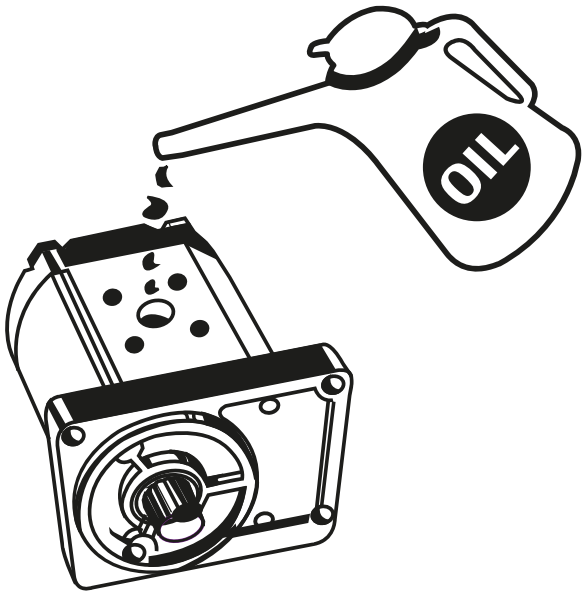


WARRANTY SHEET: HYDRAULIC PUMP

General guidelines for the replacement of a hydraulic pump:

TOTAL SOURCE

- Hydraulic reservoir and connecting leads/tubes must be bled and cleaned
- Replace ALL hydraulic filters, check suction lead for leaks and replace the suction filter (if present)
- Only use oil recommended by the manufacturer
- Do not drive or force the coupling on the shaft
- Lubricate the shaft end before installation
- Use the right couplings and connections
- Fill up suction lead completely
- Fill the pump casing completely with oil
- Always check the direction of rotation of the pump before fitting it in the machine
- **Before starting** the engine, always make sure that the **pressure relief** valve is brought to a **zero level** and run the system at zero **pressure for a few minutes**, **before** gradually **increasing** the **pressure** to the manufacturers recommended level



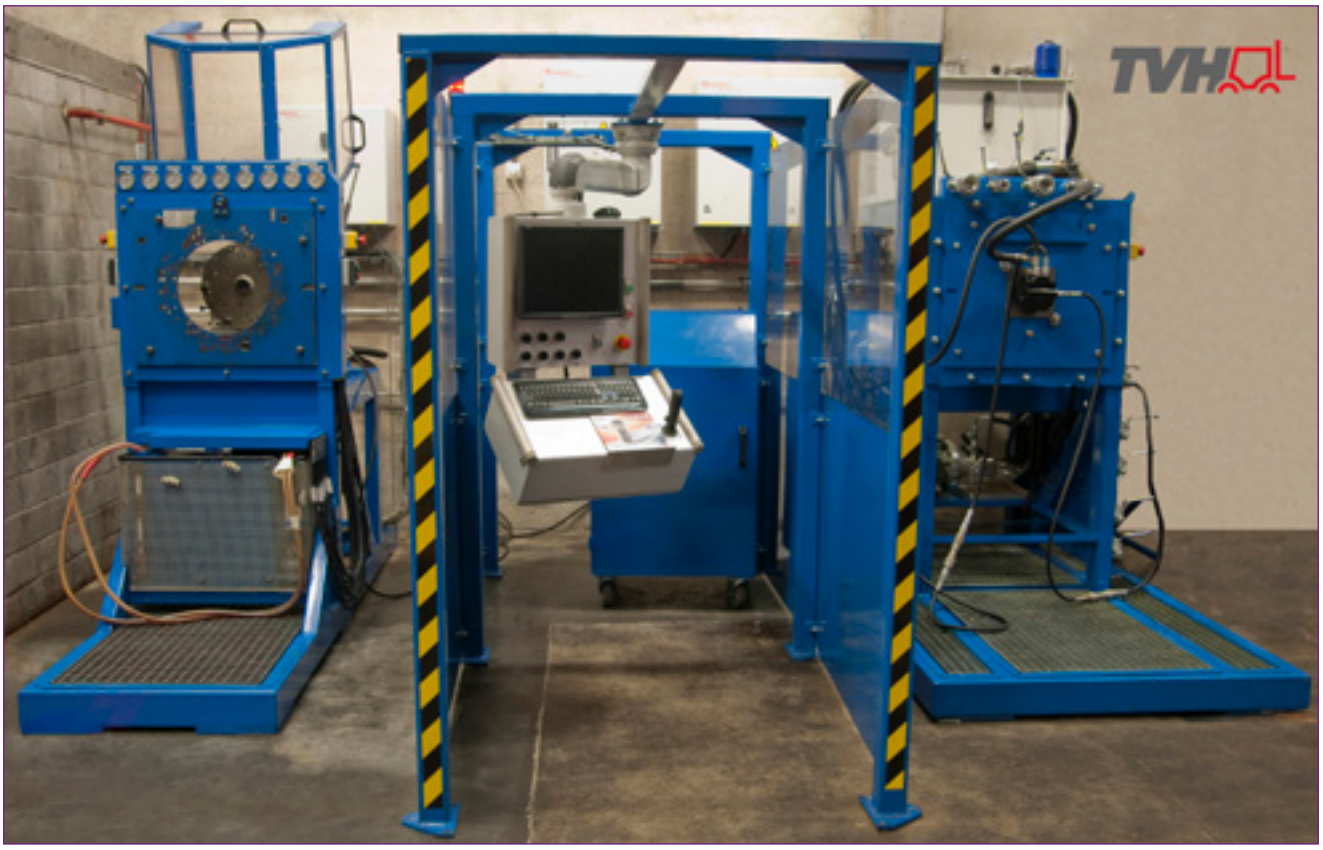
BEFORE MOUNTING:
fill all ports with enough oil ISO 46

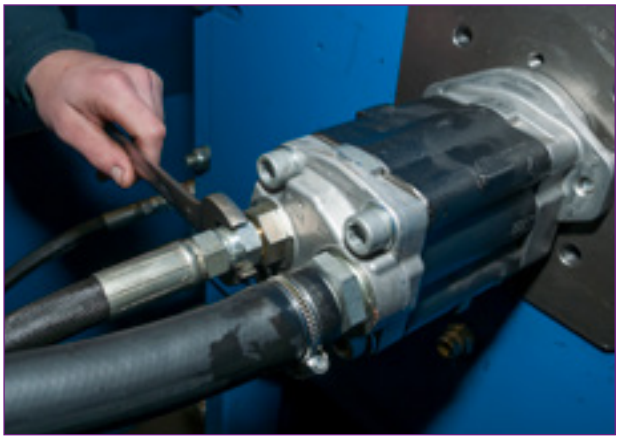
Please see "link/QR code" for a video on how to correctly install a hydraulic pump, or go to download on www.tvh.com, downloads, How to install a hydraulic pump

Failure to comply with the above instructions will void the warranty.

PUMP TEST BENCH FOR HYDRAULIC GEAR PUMPS AND HYDRAULIC PISTON PUMPS

In our workshop we have qualified hydraulic technicians and hydraulic test facilities to recondition and test our reconditioned parts. All units are tested on our in-house developed test bench.
This test bench enables us to measure the speed, flow and system pressure and register possible pressure losses.
We can also build up the pressure in the hydraulic system to simulate a work load.





Most gear pumps can be tested on the test bench, included pumps with load-sensing valves.

The ergonomic and easy-to-use control panel.
This device also allows us to print a test certificate after the test procedure.





We can test hydrostatic piston pumps.

AUXILIARY VALVES & HANDLE KITS



For auxiliary valves & handle kits, please consult our Hydraulic parts & accessories catalogue REF 31331437 from page 64.

Go to downloads on www.tvh.com to view the catalogue online.

HYDRAULIC MOTORS

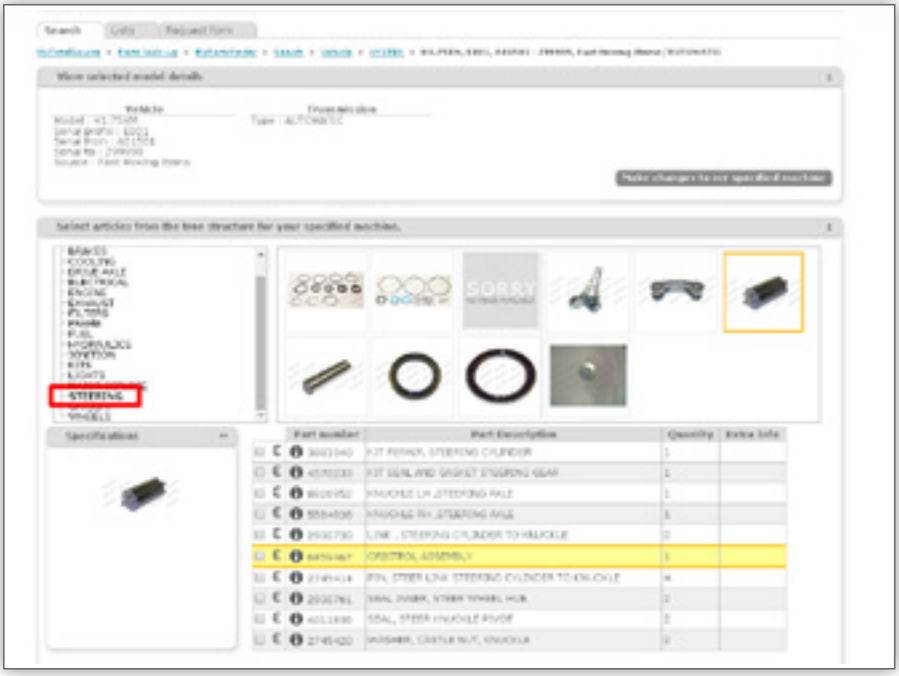


We can offer you the brands below:
Danfoss, Eaton, Linde Hydraulics, Parker, Poclain, Rexroth

Please give us full details of the hydraulic motor and the complete machine.

STEERING UNITS





myPF MyPartsFinder

Please provide us with full details of the steering unit or complete truck details.

We can offer you the brands below:
Danfoss, Eaton, M+S, Ognibene, Parker

TRANSMISSION VALVES



For transmission valves, please consult our Hydraulic parts & accessories catalogue REF 31331437.

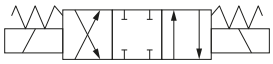
Go to downloads on www.tvh.com to view the catalogue online.

DIRECTIONAL VALVES



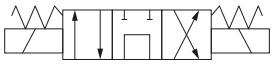
Below, the following values apply:
- Type NG-6
- 350 bar
- 70 l/min





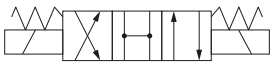
REF 100MC3144 – 12 VDC
REF 100MC3145 – 24 VDC





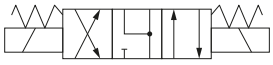
REF 100MC3146 – 12 VDC
REF 100MC3147 – 24 VDC





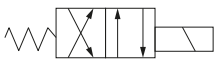
REF 100MC3148 – 12 VDC
REF 100MC3149 – 24 VDC





REF 100MC3150 – 12 VDC
REF 100MC3151 – 24 VDC

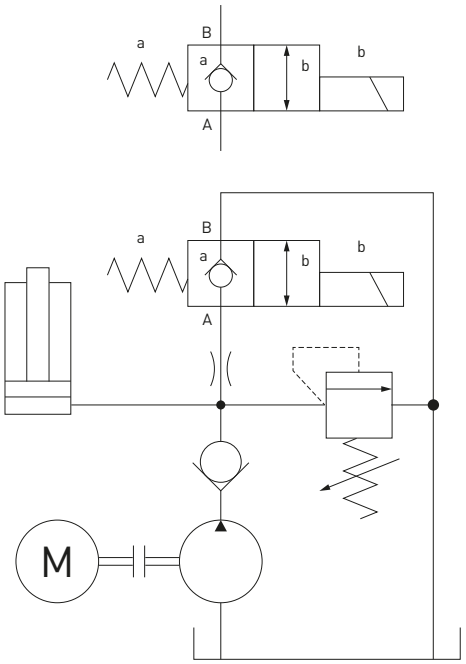




REF 100MC3152 – 12 VDC
REF 100MC8199 – 24 VDC

DIRECTIONAL VALVES



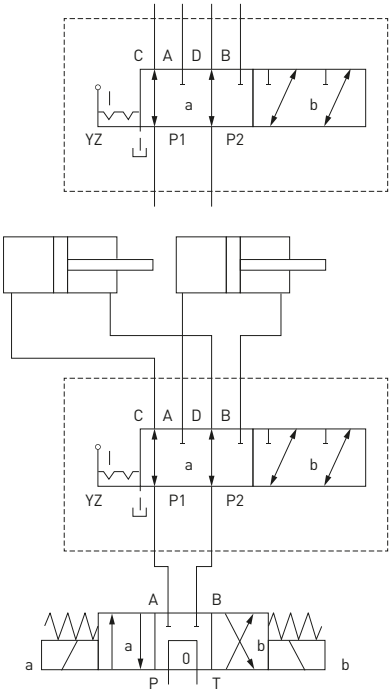


2/2-way

Voltage VDC	Ports	REF
12	Threaded connections: G3/8"	100MC3154
24	Threaded connections: G3/8"	100MC3155

DIRECTIONAL VALVE

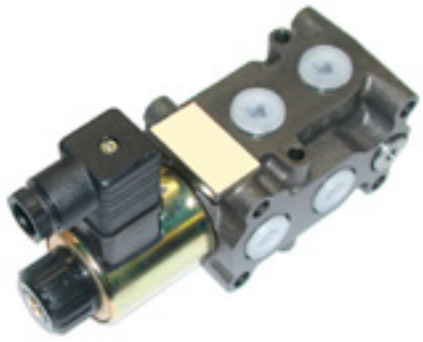


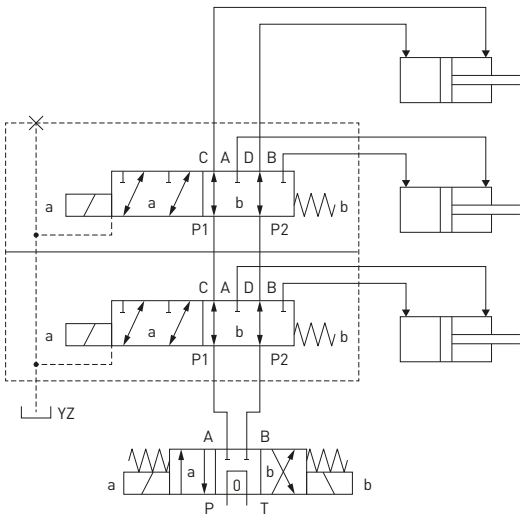


6/2-way

Voltage	Ports	REF
Manual operation	G3/8"	100MC3156

DIRECTIONAL VALVES





Electrical valve to double the number of working functions of a lever (universal application)

Voltage V	Ports	REF	Ports	REF
12	G3/8"	100MC3157	G1/2"	100MC3178
24	G3/8"	100MC3158	G1/2"	100MC3179
48	G3/8"	100MC3159	G1/2"	100MC3180
80	G3/8"	100MC3160	G1/2"	100MC3181

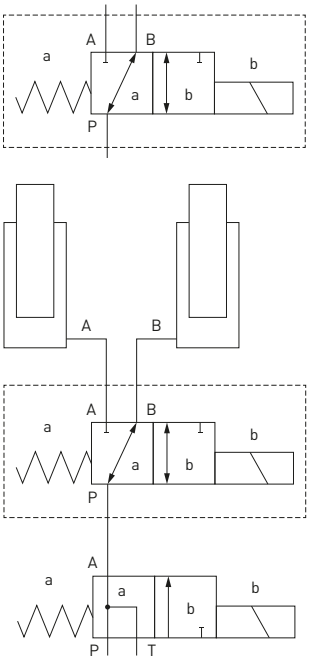
Mounting and lever kit



REF 100MC3161

DIRECTIONAL VALVES



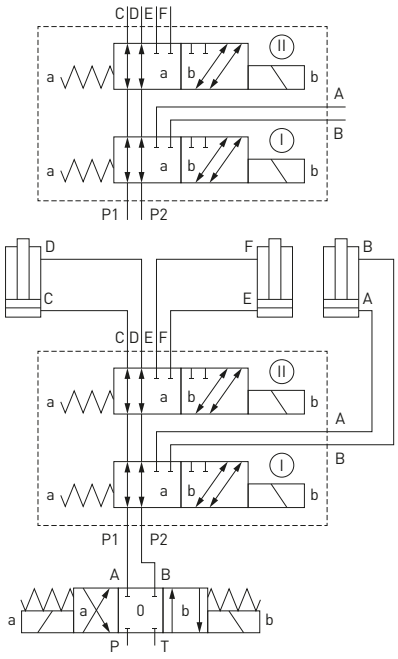


3/2-way

Voltage VDC	Ports	REF
12	G3/8"	100MC3162
24	G3/8"	100MC3163

DIRECTIONAL VALVES



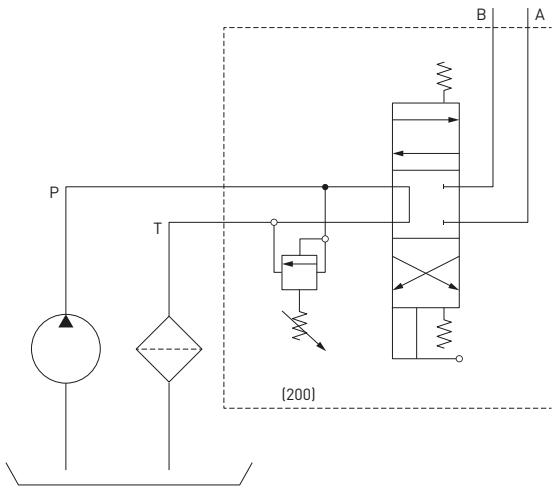


8/3-way

Voltage VDC	Ports	REF
12	G3/8"	100MC3164
24	G3/8"	100MC3165

HYDRAULIC DISTRIBUTOR

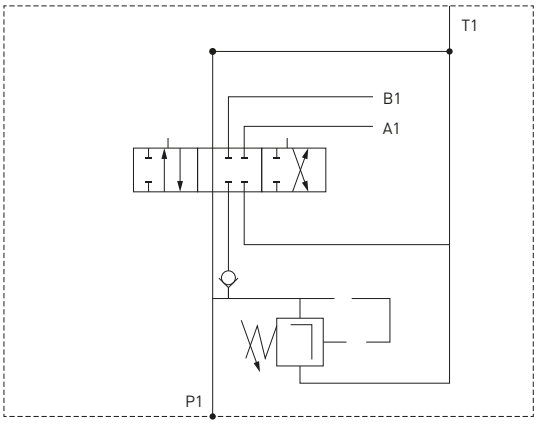




Ports BPS	Max flow l/min	REF
G3/8"	35	100MC3166

HYDRAULIC DISTRIBUTOR

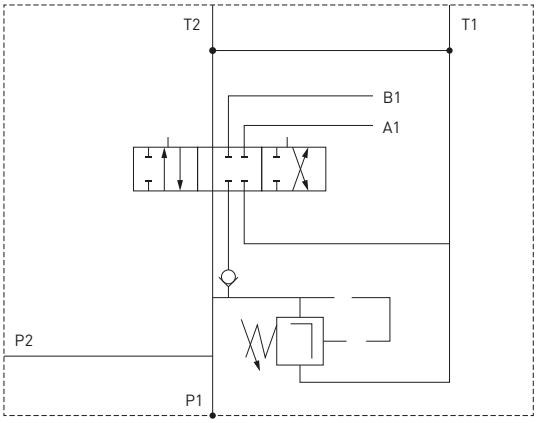




Ports BSP	Max flow l/min	REF
G3/8"	35	100MC3167

HYDRAULIC DISTRIBUTOR MICROSWITCH INCLUDED

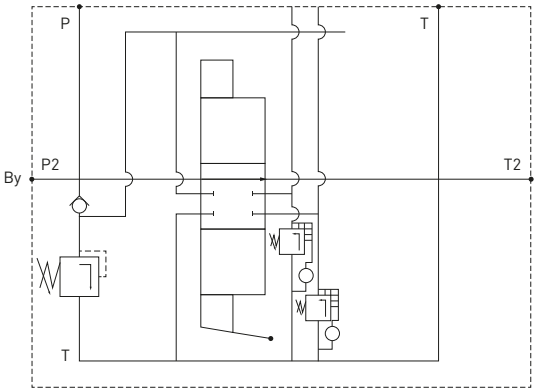




Ports BSP	Max flow l/min	REF
G3/8"	35	100MC3168

HYDRAULIC DISTRIBUTOR



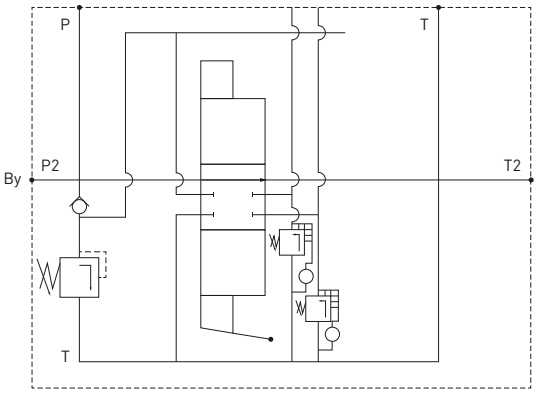


- T: G 1"
- Including carry over plug G 1"
- Max pressure: 250 bar/including carry over plug

Ports BSP	Max flow l/min	REF
G3/4"	120	100MC3169

HYDRAULIC DISTRIBUTOR

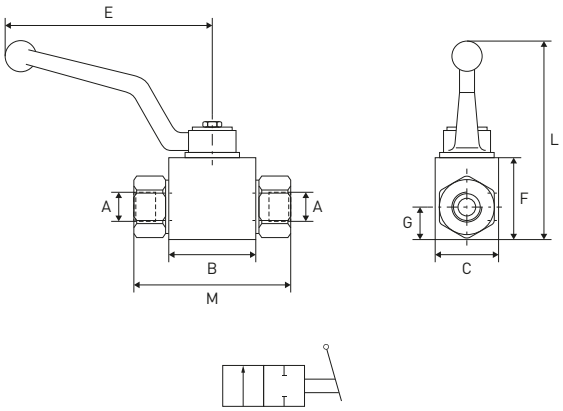




Ports BSP	Max flow l/min	REF
G3/4"	180	100MC8200

2-WAY BALL VALVES

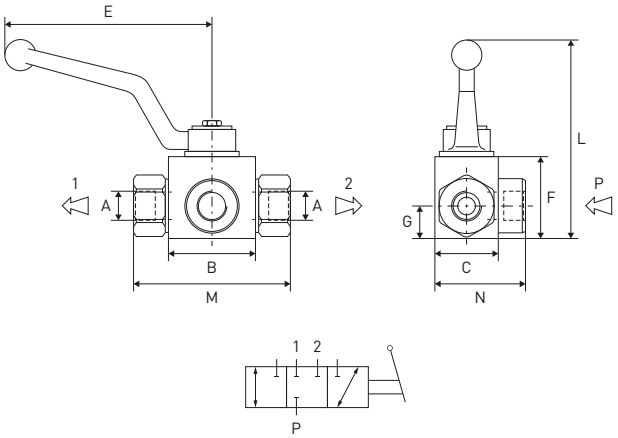




Ports BSP	REF
1"	100MC3170
1/2"	100MC3171
3/8"	100MC3172
1/4"	100MC3173

3-WAY BALL VALVES





Ports BSP	REF
1"	100MC3174
3/4"	100MC3175
1/2"	100MC3176
3/8"	100MC3177

THREAD SEALANT

LOCTITE



Thread sealant – medium strength. For fine threads in hydraulic, pneumatic and general fittings. Fast curing.

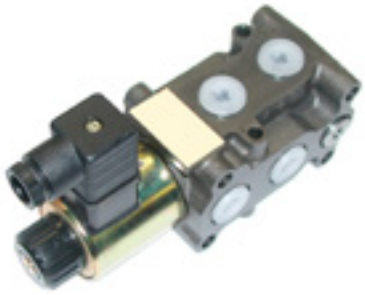
LOCTITE® 542 is designed for the locking and sealing of metal pipes and fittings as well as other cylindrical metal assemblies. The product cures when confined in the absence of air between close-fitting metal surfaces and prevents loosening and leakage due to shock and vibration. The thixotropic nature of LOCTITE 542 reduces the migration of liquid product after application to the part.

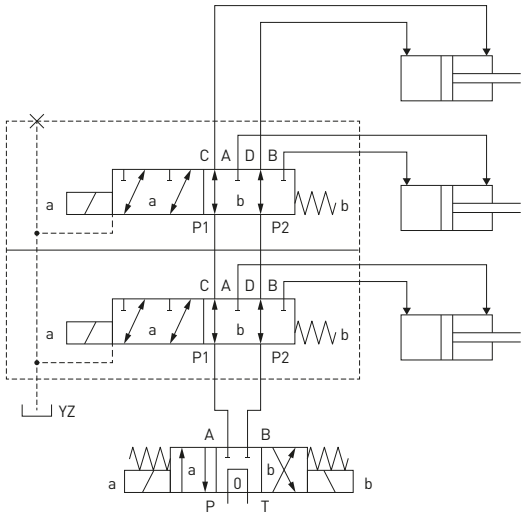
Your benefits:

- Ideal for fine threads as used in hydraulic, pneumatic and general fittings
- Suitable for metal threads only
- Instant low-pressure seal
- Resistant to fuel, oil, coolants and hydraulic fluids
- Locks connection against vibration loosening
- DVGW approval (EN 751-1): NG-5146AR0855

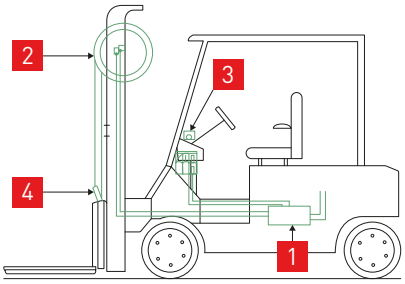
REF 100MC5074

UNIVERSAL KIT TO ADD AN EXTRA FUNCTION TO YOUR FORKLIFT WITH HYDRAULIC REEL





1. 6/2 valve
2. Hose reel
3. Switch
4. Swivel



1. 6/2 valve

3/8" BSP

Type	REF
6/2 valve 12 V	100MC3157
6/2 valve 24 V	100MC3158
6/2 valve 48 V	100MC3159
6/2 valve 80 V	100MC3160

1/2" BSP

Type	REF
6/2 valve 12 V	100MC3178
6/2 valve 24 V	100MC3179
6/2 valve 48 V	100MC3180
6/2 valve 80 V	100MC3181

UNIVERSAL KIT TO ADD AN EXTRA FUNCTION TO YOUR FORKLIFT WITH HYDRAULIC REEL

2. Hose reel and bracket



Max lifting height: 6,3 m (duplex mast), 4,8 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	280	3,91	Double synflex 1/4"	**100MC3182**
LH**	280	3,91	Double synflex 1/4"	**100MC3183**

2. **REF 100MC3188** – RH reel (without hoses)*
   REF 100MC3189 – LH reel (without hoses)**
3. **REF 100MC3190** – Hose, end connection 7/16" JIC*/**
4. **REF 100MC3191** – Fitting*/** (4 required)
5. **REF 100MC3192** – Mounting bracket*/**



Max lifting height: 7,1 m (duplex mast), 5,5 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	330	4,57	Double synflex 3/8"	**100MC3184**
LH**	330	4,57	Double synflex 3/8"	**100MC3185**

2. **REF 100MC3193** – RH reel (without hoses)*
   REF 100MC3194 – LH reel (without hoses)**
3. **REF 100MC3195** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC3196** – Fitting*/** (4 required)
5. **REF 100MC3197** – Mounting bracket*/**



Max lifting height: 13 m (duplex mast), 9,81 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	410	7,62	Double synflex 3/8"	**100MC3186**
LH**	410	7,62	Double synflex 3/8"	**100MC3187**

2. **REF 100MC3198** – RH reel (without hoses)*
   REF 100MC3199 – LH reel (without hoses)**
3. **REF 100MC3200** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC3196** – Fitting*/** (4 required)
5. **REF 100MC3197** – Mounting bracket */**



Hose reel bracket right

REF 100MC3201



Hose reel bracket left

REF 100MC3202



3. Switch

REF 100MC3203



4. Swivel

REF 100MC3204

* Kit included for RH, ** Kit included for LH

TOTALSOURCE® REELS WITH TWIN HOSE

BEST BUY

TOTALSOURCE®



- Max lifting height: 6 m (duplex mast), 5 m (triplex mast)
- Max working pressure: 200 bar, flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	275	4	Double synflex 1/4"	**100MC4169**
LH**	275	4	Double synflex 1/4"	**100MC4170**

2. **REF 100MC4171** – RH reel (without hoses)*
   REF 100MC4172 – LH reel (without hoses)**
3. **REF 100MC4173** – Hose, end connection 7/16" JIC*/**
   REF 100MC4174 – Hose, end connection 9/16" JIC*/**
4. **REF 100MC4175** – Fitting*/** (2 required)
5. **REF 100MC7176** – Mounting bracket*/**
   REF 100MC4177 – Seal kit
   REF 100MC4178 – Spring assembly

BEST BUY

TOTALSOURCE®



- Max lifting height: 7 m (duplex mast), 6 m (triplex mast)
- Max working pressure: 180 bar, flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	325	4,5	Double synflex 3/8"	**100MC4179**
LH**	325	4,5	Double synflex 3/8"	**100MC4180**

2. **REF 100MC4181** – RH reel (without hoses)*
   REF 100MC4182 – LH reel (without hoses)**
3. **REF 100MC4183** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC4184** – Fitting*/** (2 required)
5. **REF 100MC4185** – Mounting bracket*/**
   REF 100MC4177 – Seal kit
   REF 100MC4186 – Spring assembly

BEST BUY

TOTALSOURCE®



- Max lifting height: 7 m (duplex mast), 6 m (triplex mast)
- Max working pressure: 180 bar, flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	325	5	Double synflex 5/16"	**100MC4187**
RH*	325	5	Double synflex 5/16"	**100MC4188**

2. **REF 100MC4181** – RH reel (without hoses)*
   REF 100MC4182 – LH reel (without hoses)**
3. **REF 100MC4189** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC4184** – Fitting*/** (2 required)
5. **REF 100MC4185** – Mounting bracket*/**
   REF 100MC4177 – Seal kit
   REF 100MC4186 – Spring assembly

* Kit included for RH, ** Kit included for LH

TOTALSOURCE® REELS WITH TWIN HOSE

BEST BUY

TOTALSOURCE®

1



2 3 4 5



- Max lifting height: 11,5 m (duplex mast), 9,5 m (triplex mast)
- Max working pressure: 180 bar, flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	420	6,7	Double synflex 3/8"	**100MC4190**
LH**	420	6,7	Double synflex 3/8"	**100MC4191**

2. **REF 100MC4192** – RH reel (without hoses)*
   REF 100MC4193 – LH reel (without hoses)**
3. **REF 100MC4194** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC4184** – Fitting*/** (2 required)
5. **REF 100MC4185** – Mounting bracket*/**
   REF 100MC4202 – Seal kit

BEST BUY

TOTALSOURCE®

1



2 3 4 5



- Max lifting height: 9 m (duplex mast), 7,5 m (triplex mast)
- Max working pressure: 180 bar, flow: 40 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BS

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	420	4,7	Double synflex 1/2"	**100MC4195**
LH**	420	4,7	Double synflex 1/2"	**100MC4196**

2. **REF 100MC4197** – RH reel (without hoses)*
   REF 100MC4198 – LH reel (without hoses)**
3. **REF 100MC4199** – Hose, end connection 3/4" JIC*/**
4. **REF 100MC4200** – Fitting*/** (2 required)
5. **REF 100MC4201** – Mounting bracket*/**
   REF 100MC4202 – Seal kit
   REF 100MC4203 – Spring assembly

TOTALSOURCE® REELS WITH 2 X TWIN HOSE

BEST BUY

TOTALSOURCE®

1



2 3 4 5



- Max lifting height: 9 m (duplex mast), 7,5 m (triplex mast)
- Max working pressure: 180 bar, flow: 30 l/min
- Hose reel supplied without inlet fittings, inside thread: 3/8" BSP

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	370	4,5	Double synflex 3/8"	**100MC4204**
RH*	370	4,5	Double synflex 3/8"	**100MC4205**

2. **REF 100MC4206** – RH reel (without hoses)*
   REF 100MC4207 – LH reel (without hoses)**
3. **REF 100MC4208** – Hose (2 required), end connection 9/16" JIC*/**
4. **REF 100MC4184** – Fitting*/** (4 required)
5. **REF 100MC4209** – Mounting bracket*/**
   REF 100MC4210 – Seal kit
   REF 100MC4211 – Spring assembly

* Kit included for RH, ** Kit included for LH

CASCADE REELS



Max lifting height: 6,3 m (duplex mast), 4,8 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	280	3,91	Double synflex 1/4"	**100MC3182**
LH**	280	3,91	Double synflex 1/4"	**100MC3183**

2. **REF 100MC3188** – RH reel (without hoses)*
   REF 100MC3189 – LH reel (without hoses)**
3. **REF 100MC3190** – Hose, end connection 7/16" JIC*/**
4. **REF 100MC3191** – Fitting*/** (4 required)
5. **REF 100MC3192** – Mounting bracket*/**



Max lifting height: 7,1 m (duplex mast), 5,5 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	330	4,57	Double synflex 3/8"	**100MC3184**
LH**	330	4,57	Double synflex 3/8"	**100MC3185**

2. **REF 100MC3193** – RH reel (without hoses)*
   REF 100MC3194 – LH reel (without hoses)**
3. **REF 100MC3195** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC3196** – Fitting*/** (4 required)
5. **REF 100MC3197** – Mounting bracket*/**



Max lifting height: 13 m (duplex mast), 9,81 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	410	7,62	Double synflex 3/8"	**100MC3186**
LH**	410	7,62	Double synflex 3/8"	**100MC3187**

2. **REF 100MC3198** – RH reel (without hoses)*
   REF 100MC3199 – LH reel (without hoses)**
3. **REF 100MC3200** – Hose, end connection 9/16" JIC*/**
4. **REF 100MC3196** – Fitting*/** (4 required)
5. **REF 100MC3197** – Mounting bracket*/**



Max lifting height: 8,9 m (duplex mast), 7,4 m (triplex mast)

Type	Reel diameter mm	Max hose length m	Hose type Inch	REF
1. Complete kit				
RH*	410	5,79	Double synflex 1/2"	**100MC4227**
LH**	410	5,79	Double synflex 1/2"	**100MC4228**

2. **REF 100MC4229** – RH reel (without hoses)*
   REF 100MC4230 – LH reel (without hoses)**
3. **REF 100MC4231** – Hose, end connection 3/4" JIC*/**
4. **REF 100MC4232** – Fitting*/** (4 required)
5. **REF 100MC4233** – Mounting bracket*/**

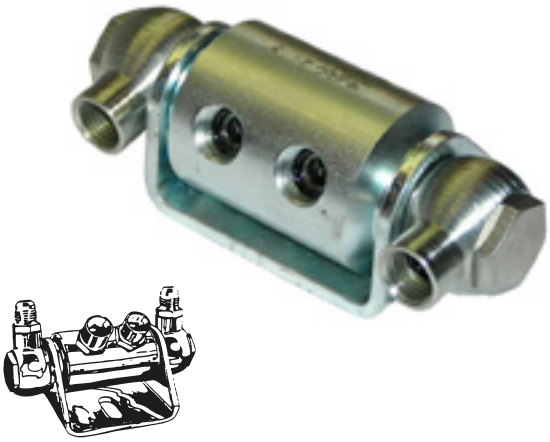
* Kit included for RH, ** Kit included for LH

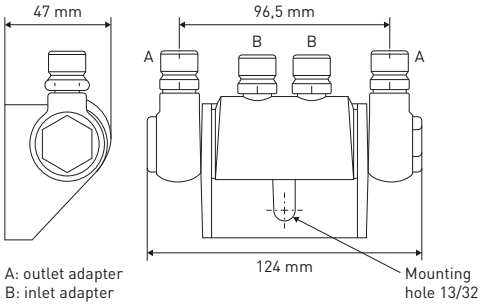
REELS



See chapter masts & booms for more hose reels on page 688

SWIVEL JOINTS FOR 2 HOSES





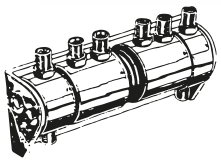
Specifications	Pressure drop	
Flow	19 litres	38 litres
REF 100MC4234 (with check valve)	2,8 bar	8,5 bar
REF 100MC4235 (without check valve)	2,0 bar	6,8 bar

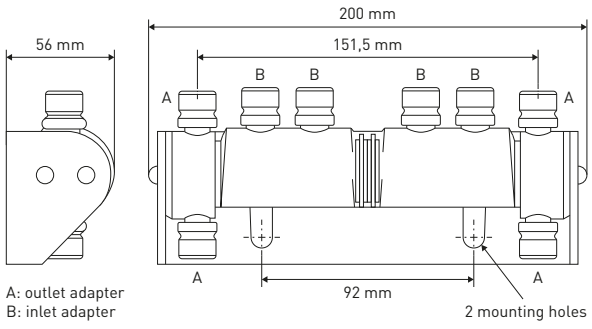
- Pressure range up to 300 bar
- 180° rotatable
- Swivel joints are available with or without check valve

Outlet adapter	Inlet adapter	REF	
		With valve	Without check valve
		100MC4234	100MC4235
1/4" BSP	1/4" BSP	100MC4236	100MC4249
3/8" BSP	3/8" BSP	100MC4237	100MC4250
9/16" JIC	9/16" JIC	100MC4238	100MC4251
3/4" 16 UNF	3/4" 16 UNF	100MC4239	100MC4252
M16 x 1,5 (24°)	M16 x 1,5 (24°)	100MC4240	100MC4253
3/8" BSP	1/4" BSP	100MC4241	100MC4254
3/8" BSP	9/16" JIC	100MC4242	100MC4255
1/4" BSP	9/16" JIC	100MC4243	100MC4256
9/16" JIC	3/8" BSP	100MC4244	100MC4257
9/16" JIC	1/4" BSP	100MC4245	100MC4258
9/16" JIC		100MC4246	100MC4259
M18 x 1,5	3/8" BSP	100MC4247	100MC4260
M16 x 1,5 (60°)	M16 x 1,5 (60°)	100MC4248	100MC4261

SWIVEL JOINTS FOR 4 HOSES







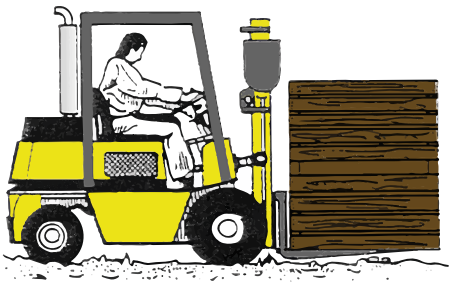
Specifications	Pressure drop	
Flow	19 litres	38 litres
REF 100MC4262	2,3 bar	9,5 bar

- Pressure range up to 210 bar
- 180° rotatable

Outlet adapter	Inlet adapter	REF
		Without check valve
		100MC4262
3/8" BSP	3/8" BSP	100MC4263
1/4" BSP	1/4" BSP	100MC4264
9/16" JIC	9/16" JIC	100MC4265
1/4" BSP	9/16" JIC	100MC4266
3/4"–16 UNF	9/16" JIC	100MC4267

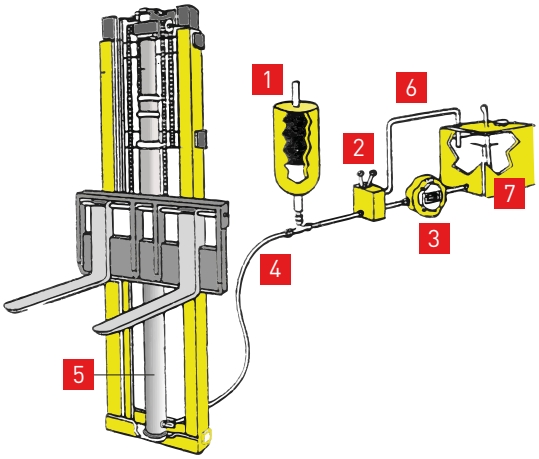
HYDRAULIC ACCUMULATORS/UNIVERSAL APPLICATION





No accumulator:
- Faster driver fatigue
- Loss of control of the vehicle
- Difficult handling of the lift lever
- Damage to the goods
- Vehicle damage and consequent downtime due to vibrations

Why choose an accumulator:
- Less drive fatigue
- Improved vehicle handling
- Easier operation of the lift lever
- Transported goods are delivered undamaged
- Decreased downtime of the truck



1. Accumulator
2. Distributor block
3. Hydraulic pump
4. Main hydraulic circuit
5. Lift cylinder
6. Relief circuit
7. Oil reservoir

We recommend following capacity for our hydraulic accumulator:

Forklift capacity	Accumulator capacity
T	l
0,5–1	0,5
1–3	0,75
3–5	1
5–12	2,5–2,8

We can supply all requested brands:
Bosch, Olaer, Hydac, Integral Hydraulics, Leduc ...

For specific applications, please contact our sales department.

* **Pre-charged** accumulators are ready for immediate use, but **cannot be shipped by air**.
When the goods have to be shipped by air, it is necessary to order the non-pre-charged version.
These should be charged before use for proper operation.
Charge pressure is 1/3 of average working pressure of the truck.

** If you wish to replace an existing application, an inquiry for a hydraulic accumulator should always be accompanied by complete machine details and/or all references on the existing accumulator.

ACCUMULATORS



Type A: bladder



Type B: diaphragm welded



Type C: diaphragm screwed



Type D: piston

We can supply all requested brands:
Bosch, Olaer, Hydac, Saip, Hydro Leduc, Fox, Integral ...

ACCUMULATOR: 0,5–1 T (0,5 L)



Connection: M18 x 1,5 internal

REF 100MC2795 – Pre-charged*
REF 100MC2796 – Not pre-charged
REF 100MC2797 – Bracket

ACCUMULATOR: 1–2 T (0,75 L)



Connection: M33 x 1,5 external G1/2" internal

REF 100MC2798 – Pre-charged*
REF 100MC2799 – Not pre-charged
REF 100MC2800 – Bracket

ACCUMULATOR: 2–3 T (0,75 L)

BEST BUY



Connection: M33 x 1,5 external G1/2" internal

REF 100MC2801 – Pre-charged*
REF 100MC2802 – Not pre-charged
REF 100MC2803 – Bracket

ACCUMULATOR: 3–5 T (1 L)



Connection: 3/4" BSP x 14 internal

REF 100MC2804 – Pre-charged*
REF 100MC2805 – Not pre-charged
REF 100MC2800 – Bracket

ACCUMULATOR: 5–8 T (2,8 L)



Connection: M22 x 1,5 internal

REF 100MC2806 – Pre-charged*
REF 100MC2807 – Not pre-charged
REF 100MC2808 – Bracket

ACCUMULATOR: 8–12 T (2,5 L)



Connection: 1 1/4" UNF x 12 internal

REF 100MC2809 – Pre-charged*
REF 100MC2810 – Not pre-charged
REF 100MC2800 – Bracket

ACCUMULATORS

* **Pre-charged** accumulators are ready for immediate use, but **cannot be shipped by air**.
When the goods have to be shipped by air, it is necessary to order the non-pre-charged execution.
These should be charged before use for proper operation.
Charge pressure is 1/3 of average working pressure of the truck.

We can supply all requested brands:
Bosch, Olaer, Hydac, Saip, Hydro Leduc, Fox, Integral ...

HYDRAULIC CYLINDERS



We offer a complete range of separate cylinder parts, i.e. cylinder tubes, piston shafts and rods, cylinder heads ...

In addition, we can repair all cylinders. Please contact our sales department for more information or specific offers.

HARD CHROMIUM PLATED BARS FOR FORKLIFTS



- Quality: f 7 (RA 0,2)
- Thickness of the chrome layer: 25 µm
- Hardness of chrome layer: 65–70 HRC

Diameter mm	REF Per metre
8	101MC3252
10	101MC3253
12	101MC3254
14	101MC3255
15	101MC3256
15,87	101MC3311
16	101MC3257
18	101MC3258
19,05	101MC3312
20	101MC3259
22	101MC3260
22,22	101MC3313
22,35	101MC3261
24	101MC3262
25	101MC3263
25,4	101MC3314
26	101MC3264
26,98	101MC3315
28	101MC3265
28,57	101MC3316
30	101MC3266
31,75	101MC3317
32	101MC3267

Diameter mm	REF Per metre
34,92	101MC3318
35	101MC3268
36	101MC3269
37	101MC3270
38	101MC3271
38,1	101MC3319
40	101MC3272
41,27	101MC3220
42	101MC3273
43	101MC3274
44,45	101MC3321
45	101MC3275
46	101MC3276
47,625	101MC3322
48	101MC3277
50	101MC3278
50,8	101MC3323
52	101MC3279
53,97	101MC3324
56	101MC3280
57	101MC3281
57,15	101MC3325
58	101MC3282

Diameter mm	REF Per metre
60	101MC3283
60,32	101MC3326
63	101MC3284
63,5	101MC3327
65	101MC3285
68	101MC3286
69,85	101MC3328
70	101MC3287
75	101MC3288
76,2	101MC3329
77	101MC3289
80	101MC3290
82,55	101MC3330
85	101MC3291
88,9	101MC3331
90	101MC3292
92	101MC3293
95	101MC3294
100	101MC3295
101,6	101MC3332
125	101MC3296

Please indicate reference and length. Other sizes upon request. For tubes, see next page.

YELLOW PROTECTION NET



- 1 box of 100 metres
- For diameter 25–50 mm

REF 101MC3333

Other sizes upon request

RED PROTECTION NET



- 1 box of 100 metres
- For diameter 50–100 mm

REF 101MC3334

Other sizes upon request

HARD CHROMIUM PLATED TUBES



Diameter mm	REF Per metre	Diameter mm	REF Per metre
26 x 15,88	101MC3335	37 x 20	101MC3307
28 x 15,88	101MC3336	38 x 20	101MC3304
30 x 10	101MC3297	40 x 20	101MC3300
30 x 15	101MC3305	43 x 20	101MC3301
32 x 16	101MC3306	45 x 20	101MC3303
35 x 15	101MC3298	52 x 28	101MC3302
36 x 20	101MC3299	52 x 43	101MC3310

Please indicate reference and length
Other sizes upon request

HONED CYLINDER TUBES



Diameter mm	REF
30 x 40	101MC3195
32 x 42	101MC3196
35 x 45	101MC3197
38,1 x 47,60	101MC3247
38,1 x 50,8	101MC3204
40 x 50	101MC3205
40 x 60	101MC3206
44,45 x 57,15	101MC3201
45 x 55	101MC3202
45 x 60	101MC3203
50 x 60	101MC3186
50,8 x 57,15	101MC3244
50,8 x 60,325	101MC3243
50 x 62	101MC3187
50 x 65	101MC3188
53,1 x 65	101MC3182
53,97 x 63,5	101MC3241
54 x 68	101MC3185
55 x 65	101MC3192
55 x 70	101MC3245
57,15 x 69,85	101MC3193
60 x 70	101MC3194
60 x 75	101MC3189

Diameter mm	REF
60 x 80	101MC3190
62,12 x 75	101MC3239
63 x 73	101MC3222
63 x 75	101MC3246
63 x 83	101MC3223
63,5 x 76,2	101MC3191
65 x 75	101MC3224
65 x 80	101MC3219
65 x 85	101MC3220
66 x 80	101MC3228
66,67 x 85	101MC3221
70 x 80	101MC3229
70 x 85	101MC3230
70 x 95	101MC3225
73 x 90	101MC3226
75 x 85	101MC3227
75 x 90	101MC3210
75 x 95	101MC3211
76,2 x 88,9	101MC3212
76,2 x 90	101MC3207
78 x 95	101MC3208
80 x 90	101MC3216
80 x 95	101MC3217

Diameter mm	REF
80 x 100	101MC3209
82,55 x 95,25	101MC3240
88,9 x 101,6	101MC3218
90 x 100	101MC3213
90 x 110	101MC3214
95 x 115	101MC3215
100 x 120	101MC3235
100 x 125	101MC3236
100 x 130	101MC3237
101,6 x 120,65	101MC3238
105 x 125	101MC3231
110 x 130	101MC3232
114,3 x 130,175	101MC3251
114,3 x 133,35	101MC3242
114,3 x 139,7	101MC3249
115 x 135	101MC3233
120 x 140	101MC3234
127 x 146,05	101MC3248
130 x 150	101MC3198
139,7 x 155,575	101MC3250
150 x 180	101MC3199
152,4 x 177,8	101MC3200

Tolerance on inner diameter is H8.

TEST BENCH FOR HYDRAULIC CYLINDERS

- Possibility to test on both sides – double bench
- Test tables adjustable in height
- Tilt, steering and lift cylinders are tested under different pressure conditions
- Manual or fully automatic
- Fully automatic:
  - setting the number of strokes + duration under pressure at the end of each stroke
  - testing with or without counterpressure (check for cylinder head leaks)
- Registration of the pressures inside the cylinder chambers via electronic pressure sensors
- Test report by means of a computer that visualises the pressures





Steering cylinders tested directly on the rear axle.



Fitting the cylinder on the test bench – adjustable height
Every cylinder is tested before leaving our workshop.

HYDRAULIC CYLINDERS – TECHNICAL SHEET

Group	Example	Customer details
03-08-02-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

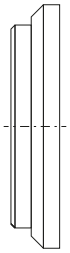
☐ Order

TY-CI	Type of cylinder: *ST = steering cylinder* *TL = tilt cylinder or double-acting* *HF = lift cilinder or single-acting* *HF2 = lift cilinder or single-acting, extends in 2 stages* *HF3 = lift cilinder or single-acting, extends in 3 stages* *S = special type*
TY-VO	Type of base, see figures
D2.....	Dimension measured on the base, see figures
L2.....	Dimension measured on the base, see figures
TA1.....	Thread type of the base (if present), see figures
TY-BU.....	Type of tube, see figures
D1.....	Dimension measured on the tube, see figures
D3.....	Dimension measured on the tube, see figures
TA2.....	Thread type of the tube (if present), see figures
TY-PI	Type of piston shaft, see figures
D4.....	Diameter of the piston shaft, see figures
L1.....	Dimension measured on the piston shaft, see figures
D5.....	Dimension measured on the piston shaft, see figures
L3.....	Dimension measured on the piston shaft, see figures
D6.....	Dimension measured on the piston shaft, see figures
L4.....	Dimension measured on the piston shaft, see figures
TA3.....	Thread type of the piston shaft (if present), see figures
TA4.....	Thread type of the piston shaft (if present), see figures
L5.....	Total measured length of the cylinder, fully retracted, see figure
S.....	Stroke of the piston shaft, see figure

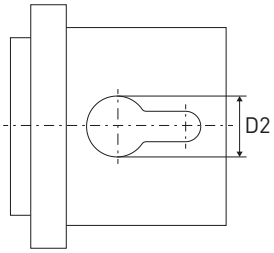
HYDRAULIC CYLINDERS – TECHNICAL SHEET

TY-V0: BASE TYPE

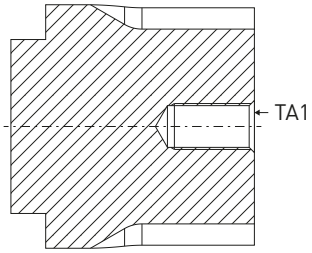
Type P



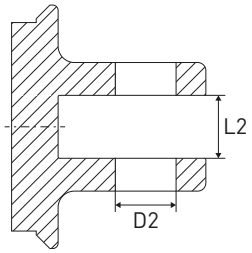
Type B



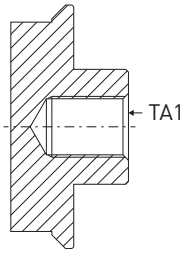
Type M
Random shape



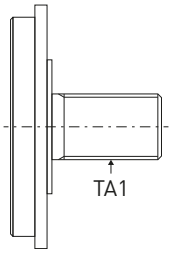
Type U



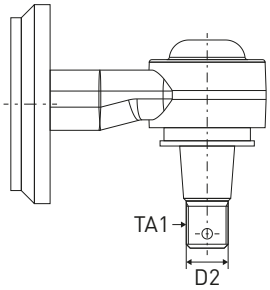
Type I



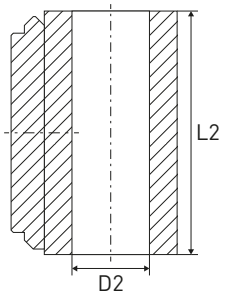
Type E



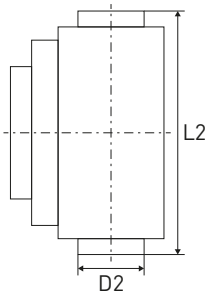
Type R



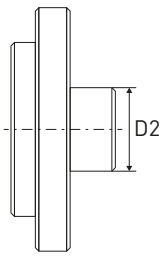
Type T



Type L



Type C



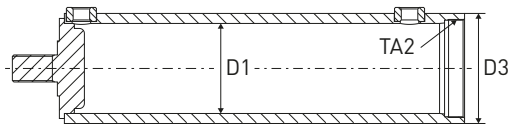
Type Z
No piston base

Type S
Special base

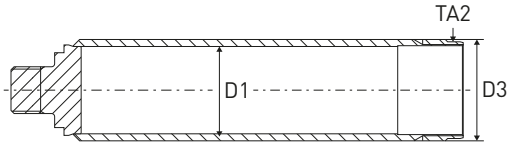
HYDRAULIC CYLINDERS – TECHNICAL SHEET

TY-BU: TYPE OF CYLINDER TUBE

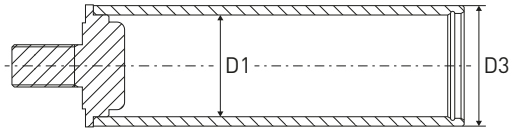
Type I
Cylinder tube with internal thread



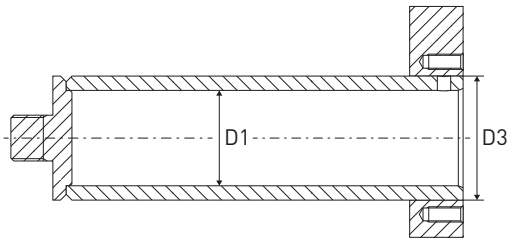
Type E
Cylinder tube with external thread



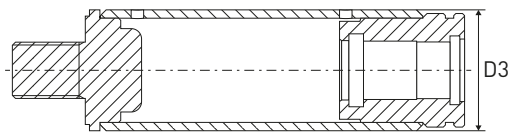
Type C
Cylinder tube with circlip fixing



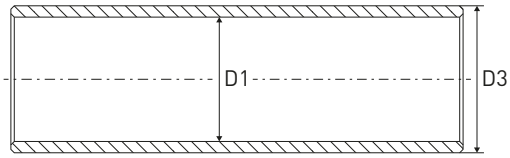
Type M
Cylinder tube with bolt fixing head



Type S
Welded cylinder tube



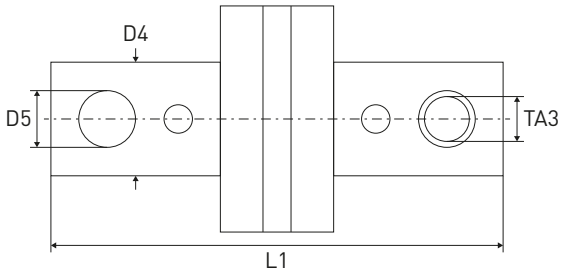
Type O
Cylinder tube without base or head



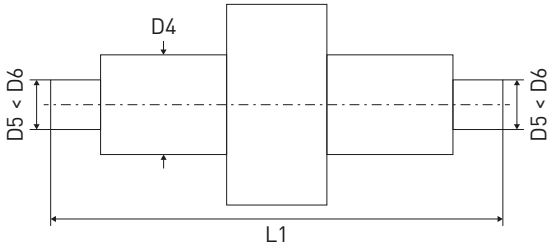
HYDRAULIC CYLINDERS – TECHNICAL SHEET

TY-PI: TYPE OF PISTON SHAFT

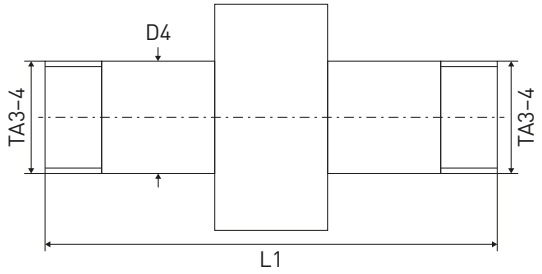
BPI
Eye – piston head – internal thread



CPC
Cylindrical stub – piston head – cylindrical stub

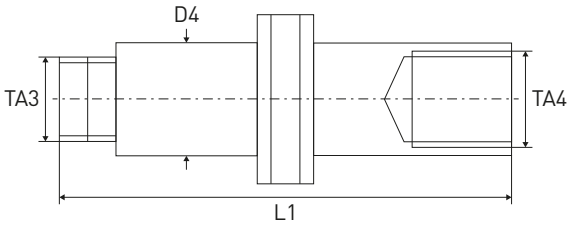


EPE
External thread – piston head – external thread



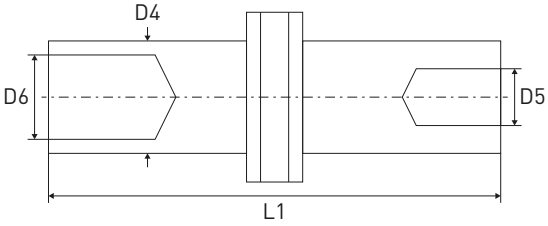
TA3 = shortest thread length
TA4 = longest thread length

EPI
External thread – piston head – internal thread



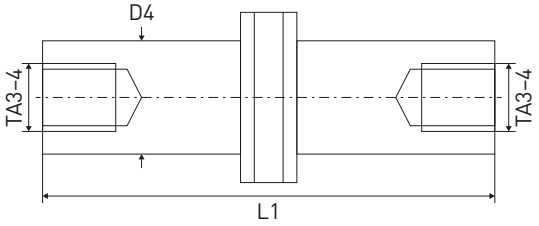
TA3 = external thread
TA4 = internal thread

HPH
Bore – piston head – bore



If holes have different diameters:
D5 = smallest; D6 = biggest

IPI
Internal thread – piston head – internal thread

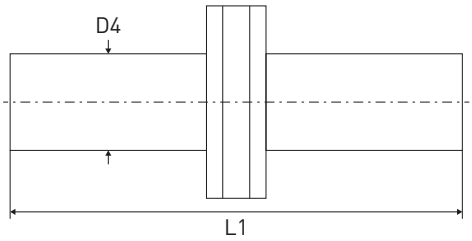


TA3 = shallowest thread length
TA4 = deepest thread length

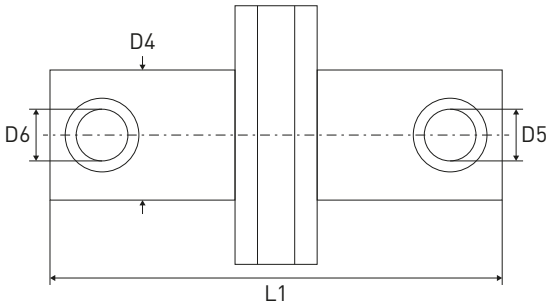
HYDRAULIC CYLINDERS – TECHNICAL SHEET

TY-PI: TYPE OF PISTON SHAFT

NPN
Nothing – piston head – nothing

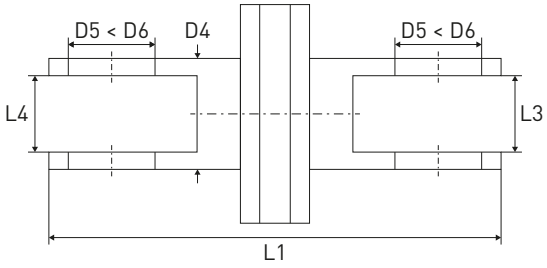


OPO
Eye – piston head – eye

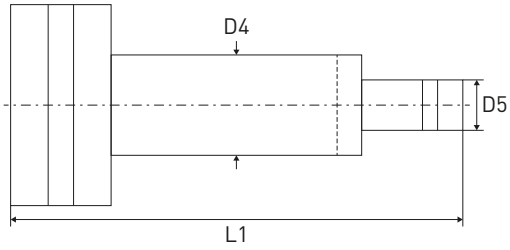


If holes have different diameters:
D5 = smallest; D6 = biggest

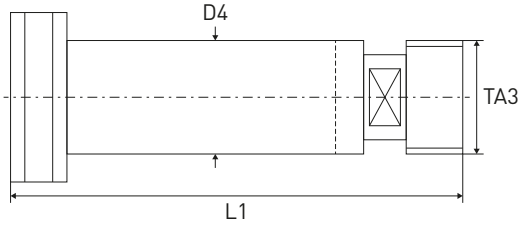
UPU
Clevis – piston head – clevis



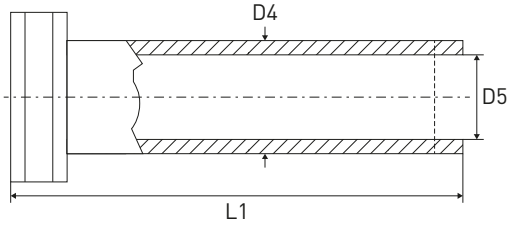
PC
Piston head – cylindrical stub



PE
Piston head – external thread



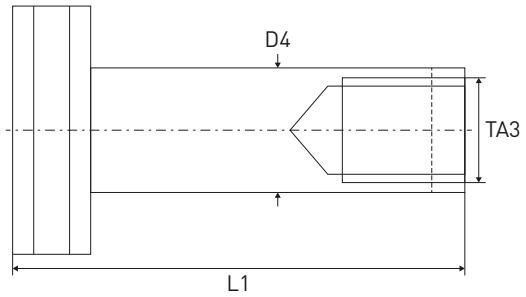
PH
Piston head – tube



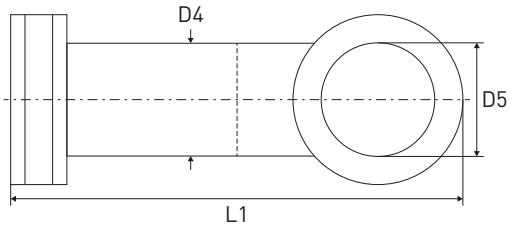
HYDRAULIC CYLINDERS – TECHNICAL SHEET

TY-PI: TYPE OF PISTON SHAFT

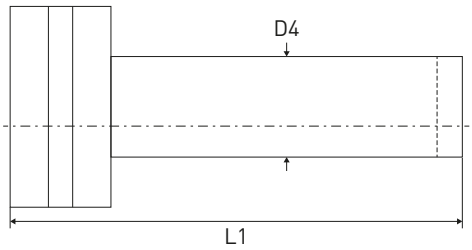
PI
Piston head – internal thread



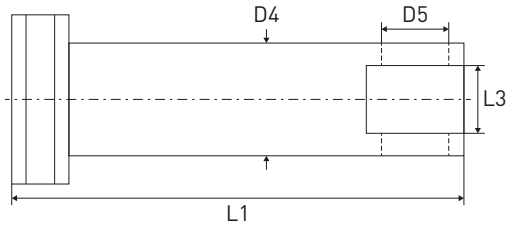
PO
Piston head – eye



PS
Piston head – nothing

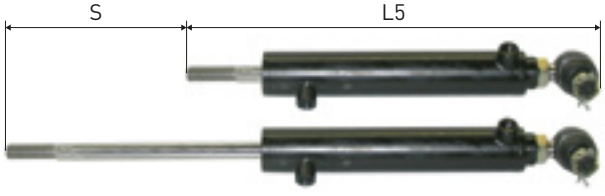


PU
Piston head – clevis



PS: For external diameters the actual size is taken, with potential present parts.
e.g. if bush = inner diameter of the bush
spherical bearing = inner diameter of the bearing

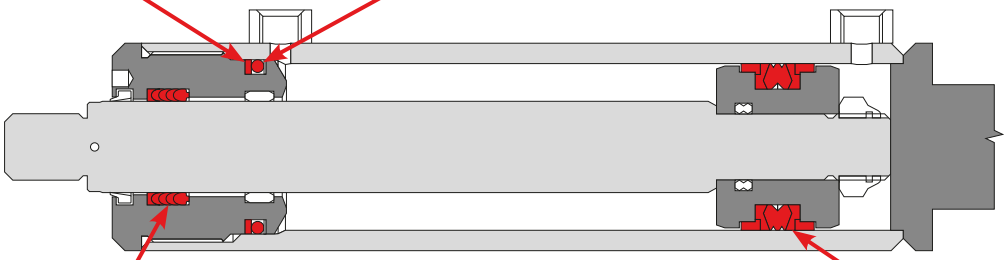
DIMENSIONS



HYDRAULIC SEALS

BACK-UP RING
See page 538

O-RING
See page 532

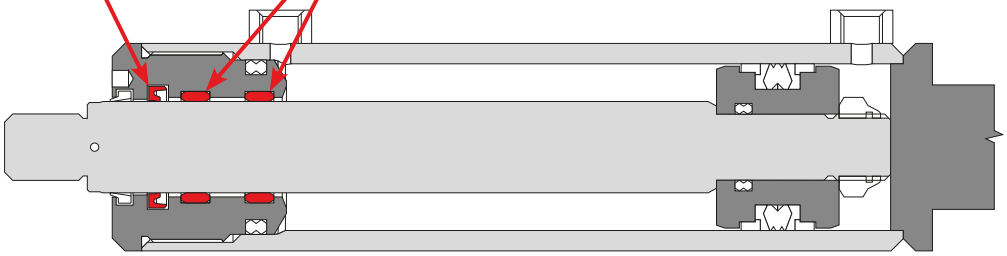


V-RING
See page 539

PISTON SEAL
See page 536

LIP SEAL
See page 533

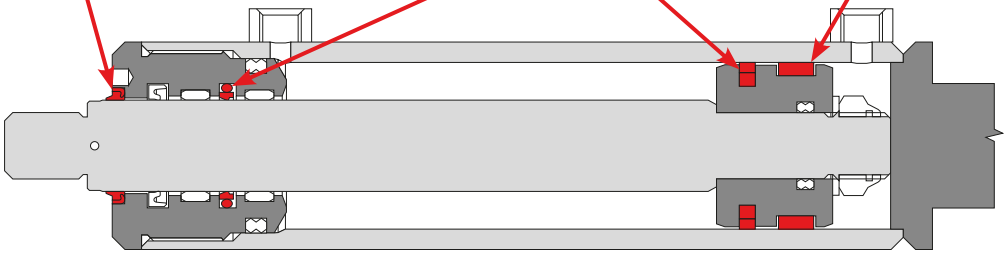
GUIDE RING
See page 537



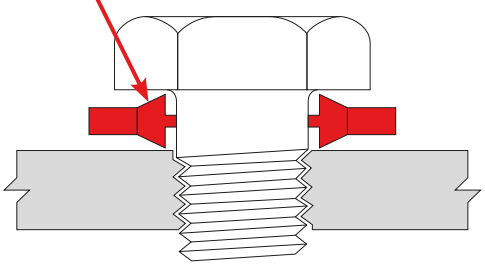
WIPER RING
See page 534

COMPOSITE SEAL
See page 535

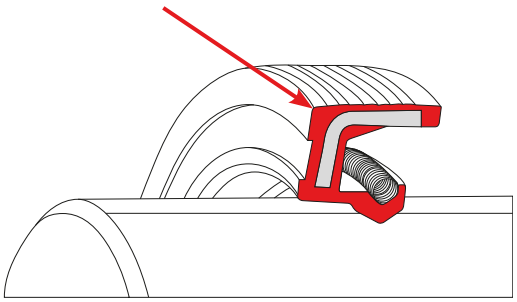
GUIDE RING
See page 537



BONDED SEAL
See page 540



OIL SEAL
See page 541



HYDRAULIC SEALS



TVH supplies a wide range of static, linear and rotary hydraulic seals. Both seals and seal kits can be modified to meet the demands of our customers.
The required product can be looked up using the OEM-reference and product search module in MyTotalSource. TVH stores most seal manufacturer's products for your convenience.

Seals are highly stressed components of hydraulically or pneumatically operated machines and devices, that are crucial for the functioning of these systems. In general, seals have a lifetime which is shorter than the lifetime of the machine in which they are installed. The replacement of seals during repair and maintenance cycles is a standard procedure and accepted as well as planned by the general engineering industry.

A seal replacement due to leakage or other failures should always include an analysis of the cause of the failure. The knowledge about the cause of the failure and the specific reaction to it will prevent or postpone the failure in the future and will give a safer, more reliable and more profitable use of the machine or equipment.

We have boxes of o-rings and back-up rings available. Please contact our sales department for dimensions and availability. Also available in other variations of hardness. To order o-rings, please use prefix 401 and add the inner dimensions and the thickness of the o-ring. For example: 401/045,00x03,00NBR80

STATIC SEALS NBR70



REF 100MC3119

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
18,0 x 2	15	25,0 x 4	15	48,0 x 4	10
20,0 x 2	15	30,0 x 4	15	50,0 x 4	10
22,0 x 3	15	32,0 x 4	15	25,0 x 5	10
25,0 x 3	15	34,0 x 4	15	30,0 x 5	10
28,2 x 3	15	36,0 x 4	15	35,0 x 5	10
30,2 x 3	15	38,0 x 4	10	40,0 x 5	10
32,2 x 3	10	40,0 x 4	10	45,0 x 5	5
36,2 x 3	10	44,0 x 4	10	50,0 x 5	5



REF 100MC3120

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
2,8 x 1,9	22	13,8 x 2,5	13	28,0 x 3,5	10
3,8 x 1,9	22	15,8 x 2,5	13	30,0 x 3,5	10
4,8 x 1,9	20	17,8 x 2,5	13	32,0 x 3,5	10
5,8 x 1,9	19	19,0 x 2,5	13	33,0 x 3,5	10
6,8 x 1,9	19	19,0 x 3,5	10	35,0 x 3,5	10
7,8 x 1,9	19	21,0 x 3,5	10	36,0 x 3,5	11
8,8 x 1,9	19	22,0 x 3,5	10	38,0 x 3,5	10
9,8 x 1,9	13	24,0 x 3,5	10	38,0 x 5,3	7
10,8 x 1,9	13	25,0 x 3,5	10	41,0 x 5,3	7
11,8 x 1,9	13	26,0 x 3,5	10	44,0 x 5,3	7



REF 100MC3121

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
3,0 x 2	16	14,0 x 2,5	13	28,0 x 3	12
4,0 x 2	16	16,0 x 2,5	13	30,0 x 3	12
5,0 x 2	16	17,0 x 2,5	13	32,0 x 3	12
6,0 x 2	16	19,0 x 2,5	13	33,0 x 3	12
7,0 x 2	16	19,0 x 3	11	35,0 x 3	12
8,0 x 2	16	20,0 x 3	12	36,0 x 3	12
10,0 x 2	16	22,0 x 3	12	38,0 x 3	12
10,0 x 2,5	13	24,0 x 3	12	38,0 x 4	9
11,0 x 2,5	13	25,0 x 2,5	11	41,0 x 4	9
12,0 x 2,5	13	27,0 x 3	11	44,0 x 4	9

STATIC SEALS NBR70



REF 100MC3122

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
3,0 x 2	20	11,3 x 2,4	15	15,0 x 3	10
4,0 x 2	20	12,3 x 2,4	15	18,0 x 3	10
5,0 x 2	20	13,3 x 2,4	15	19,2 x 3	10
6,0 x 2	20	14,3 x 2,4	15	24,2 x 3	10
7,0 x 2	20	15,3 x 2,4	15	39,2 x 3	10
8,0 x 2	20	16,3 x 2,4	15	44,2 x 3	10
9,0 x 2	20	17,3 x 2,4	15	49,2 x 3	10
10,0 x 2	20	18,3 x 2,4	15	39,5 x 3,5	10
9,3 x 2,4	15	19,3 x 2,4	15	44,5 x 3,5	10
10,3 x 2,4	15	20,3 x 2,4	15	49,2 x 5,7	5



REF 100MC3123

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
2,90 x 1,78	20	9,25 x 1,78	20	34,52 x 3,53	10
3,68 x 1,78	20	15,54 x 2,62	13	32,92 x 3,53	10
4,48 x 1,78	20	17,13 x 2,62	13	31,34 x 3,53	10
5,28 x 1,78	20	18,72 x 2,62	13	29,75 x 3,53	10
6,07 x 1,78	20	18,64 x 3,53	10	20,22 x 3,53	10
7,66 x 1,78	20	37,69 x 3,53	10	21,82 x 3,53	10
13,95 x 2,62	13	37,47 x 5,33	7	23,40 x 3,53	10
12,37 x 2,62	13	40,65 x 5,33	7	24,99 x 3,53	10
10,78 x 2,62	13	43,82 x 5,33	7	26,58 x 3,53	10
9,19 x 2,62	13	36,10 x 3,53	10	28,17 x 3,53	10



REF 100MC3124

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
3,0 x 1,5	20	6,3 x 2,4	15	10,0 x 3	10
5,0 x 1,5	20	8,3 x 2,4	15	12,0 x 3	10
7,0 x 1,5	20	11,3 x 2,4	15	14,0 x 3	10
9,0 x 1,5	20	13,3 x 2,4	15	16,0 x 3	10
11,0 x 1,5	20	17,3 x 2,4	15	18,0 x 3	10
6,0 x 2	20	5,0 x 2,5	15	20,2 x 3	5
8,0 x 2	20	7,0 x 2,5	15	22,2 x 3	5
10,0 x 2	20	10,0 x 2,5	15	24,2 x 3	5
12,0 x 2	20	12,0 x 2,5	15	26,2 x 3	5
14,0 x 2	20	15,0 x 2,5	15	30,2 x 3	5



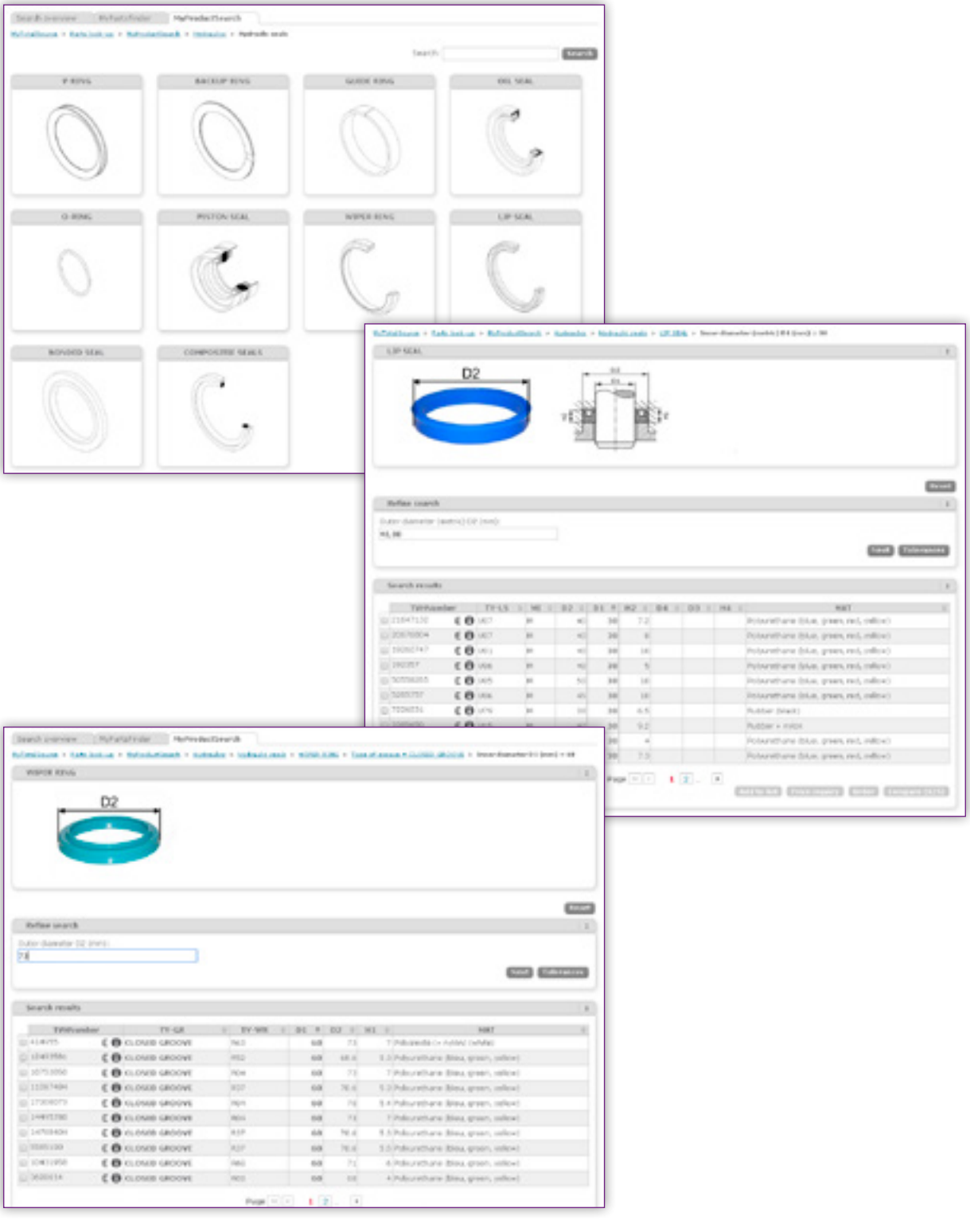
REF 100MC3125

Dimensions mm	Qty	Dimensions mm	Qty	Dimensions mm	Qty
2,90 x 1,78	20	15,60 x 1,78	10	20,29 x 2,62	5
3,68 x 1,78	20	17,16 x 1,78	5	21,89 x 2,62	5
4,48 x 1,78	20	18,77 x 1,78	5	23,47 x 2,62	5
5,28 x 1,78	20	9,19 x 2,62	15	18,64 x 3,53	5
6,07 x 1,78	20	10,78 x 2,62	15	20,22 x 3,53	5
7,66 x 1,78	20	12,37 x 2,62	15	21,82 x 3,53	5
9,25 x 1,78	20	13,95 x 2,62	15	23,40 x 3,53	5
10,82 x 1,78	15	15,54 x 2,62	10	24,99 x 3,53	5
12,42 x 1,78	15	17,13 x 2,62	10	26,58 x 3,53	5
14,00 x 1,78	10	18,72 x 2,62	10	28,17 x 3,53	5

HYDRAULIC SEALS

Via our online program **MyTotalSource**, you can inquire about items by means of their part number. However, if you don't have a part number, you can try to look up the part via our search engines (MyProductSearch or MyPartsFinder), via the catalogues, or you can send us the specifications and we will try to identify the correct part for you.

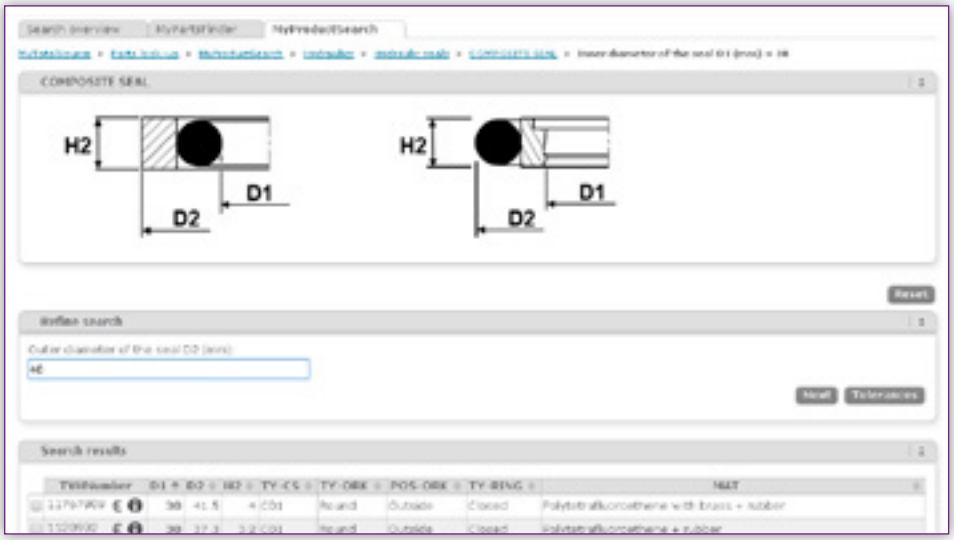
MyProductSearch helps you find the parts that you need by means of their technical details or specifications.
Simply select the correct group and enter the dimensions or specifications to find the desired part.



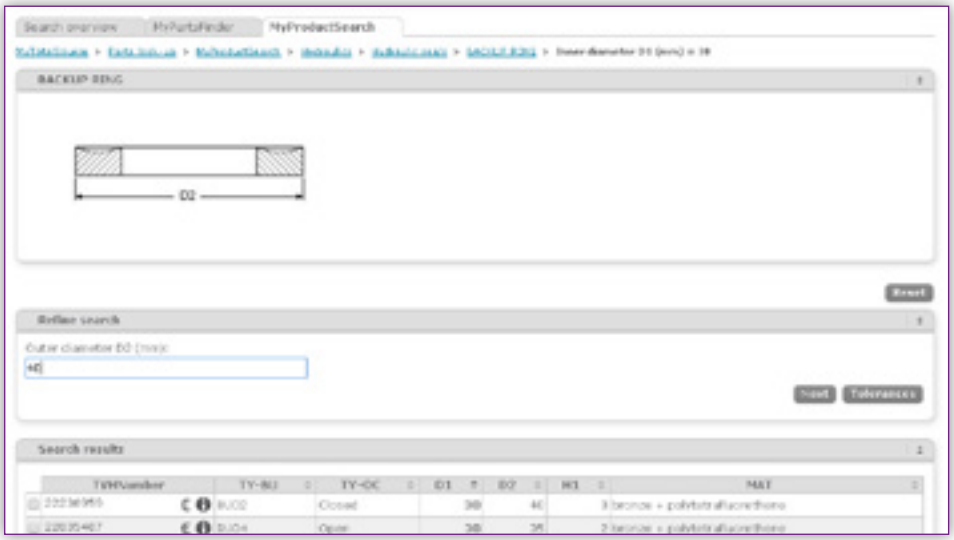
HYDRAULIC SEALS

myTS MyTotalSource

myPS MyProductSearch



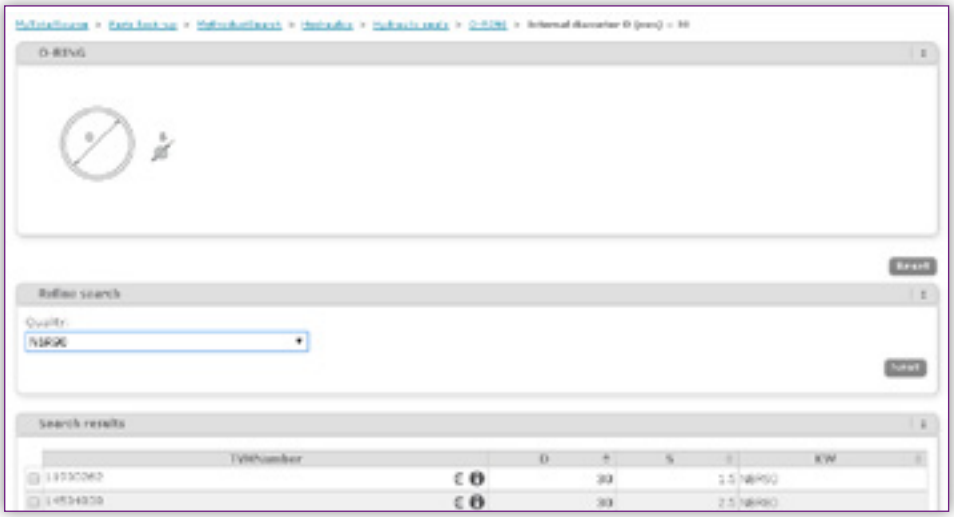


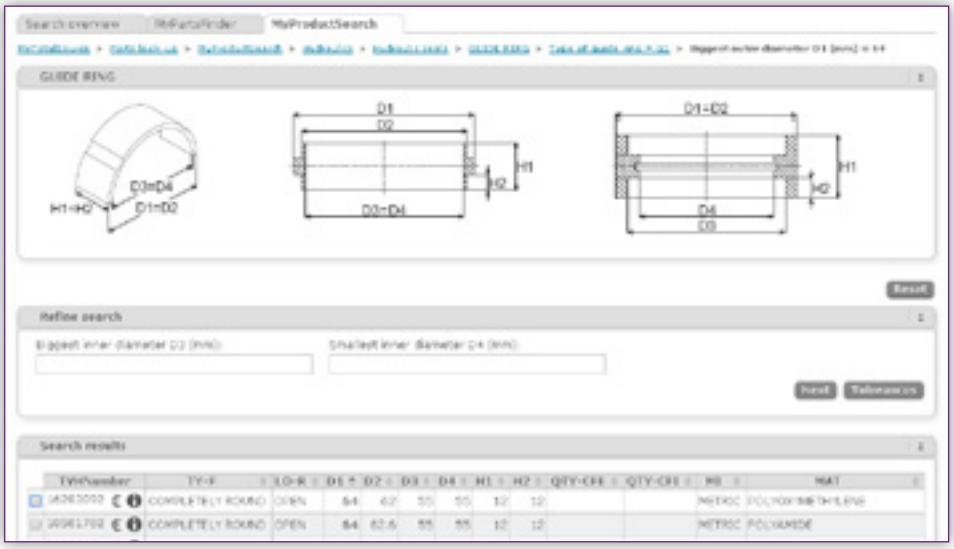


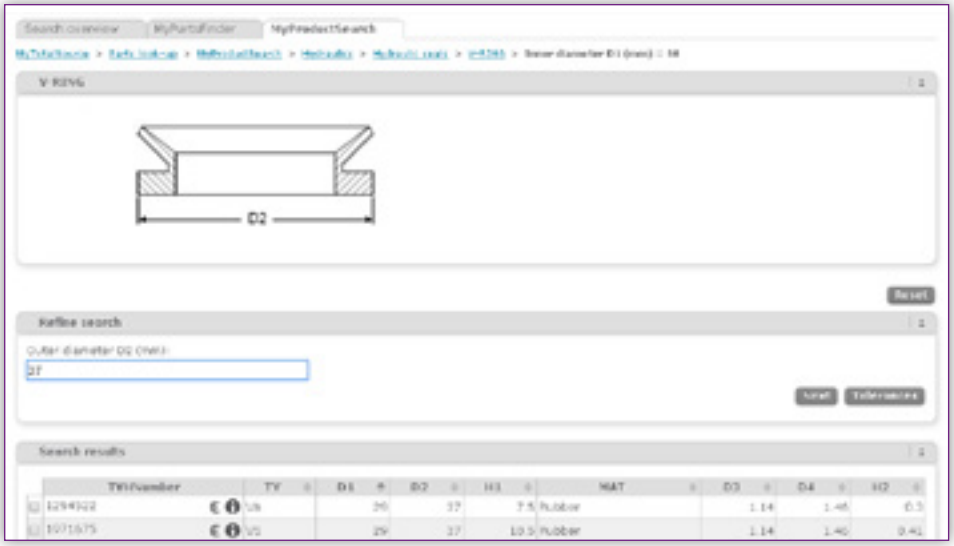
HYDRAULIC SEALS

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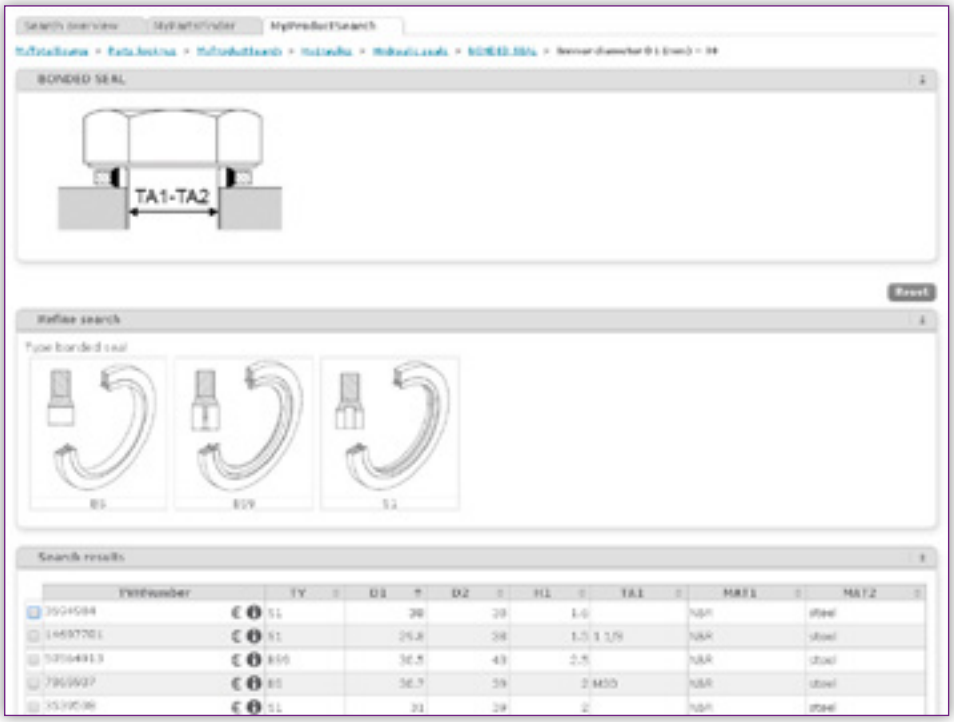


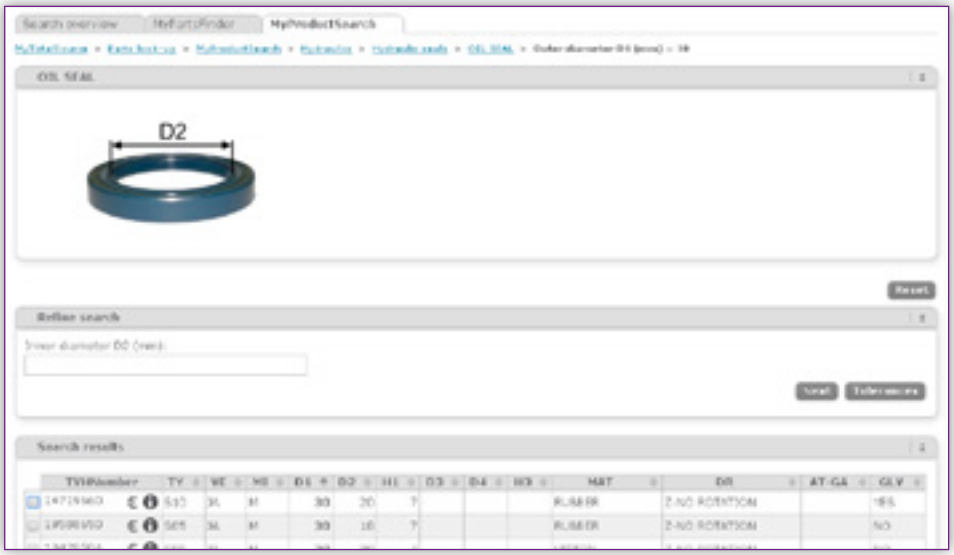


HYDRAULIC SEALS

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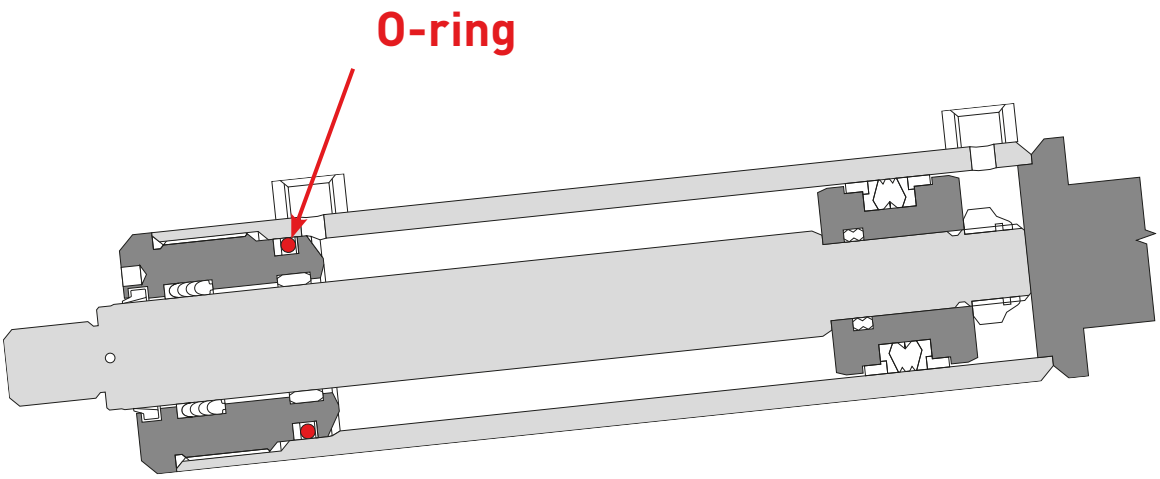


We can offer a complete range of seals and seal kits for any make.
Supply us with measurements and type of each seal. Full truck details are needed.

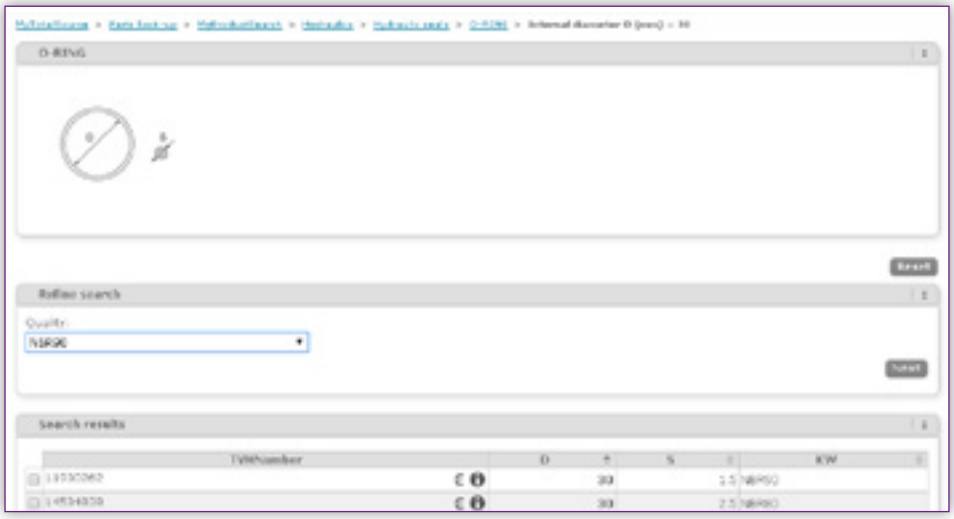
O-RING

No part number, vehicle make or type of truck?
Identify your parts by means of specifications or technical info.

myPS MyProductSearch



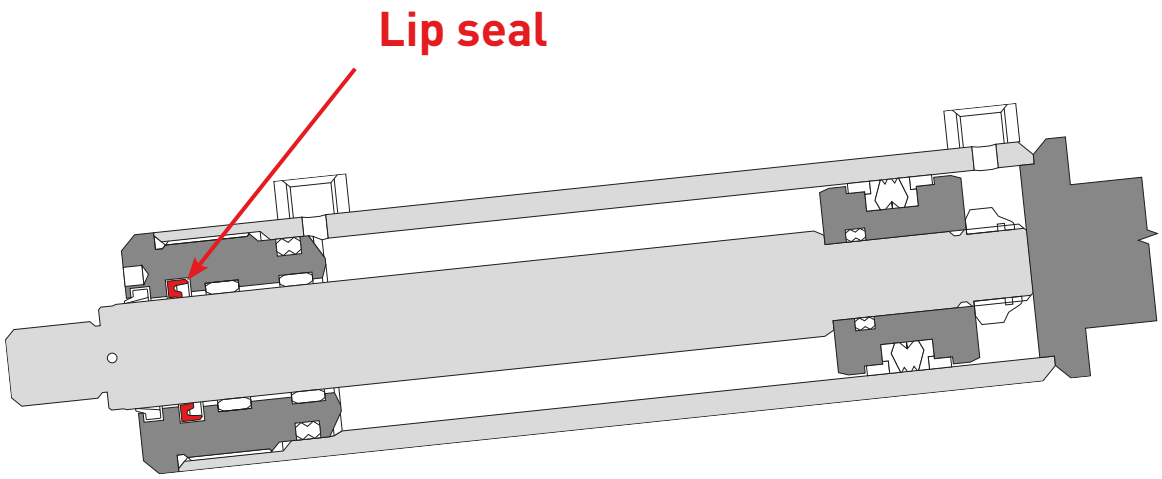




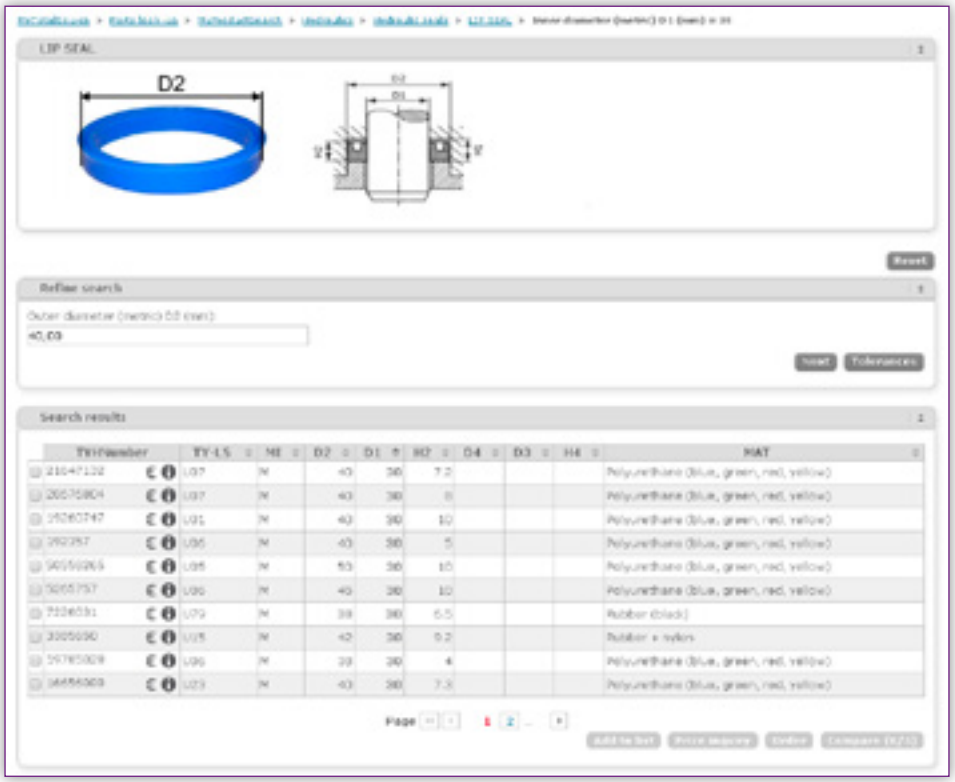
LIP SEAL

No part number, vehicle make or type of truck?
Identify your parts by means of specifications or technical info.

MyProductSearch



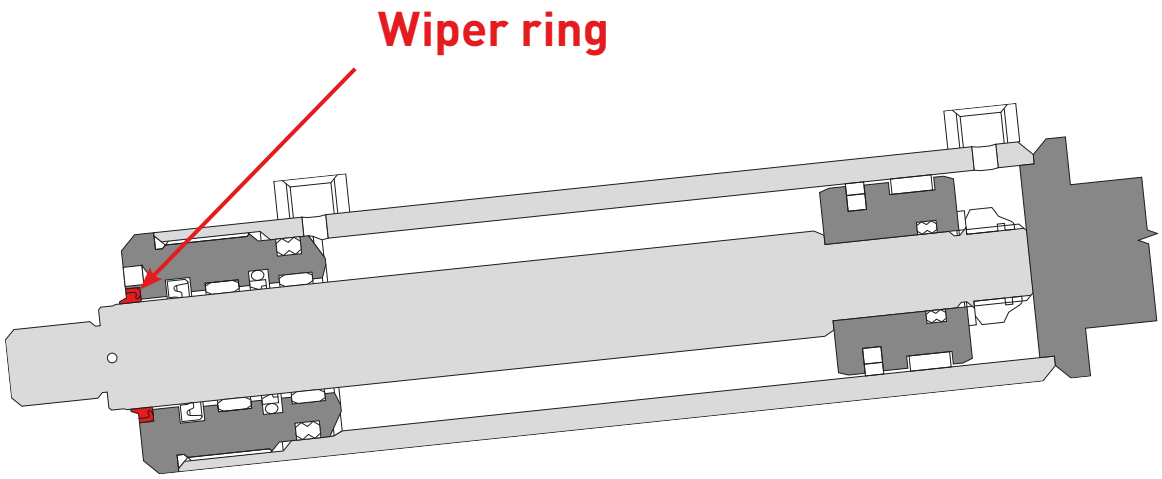




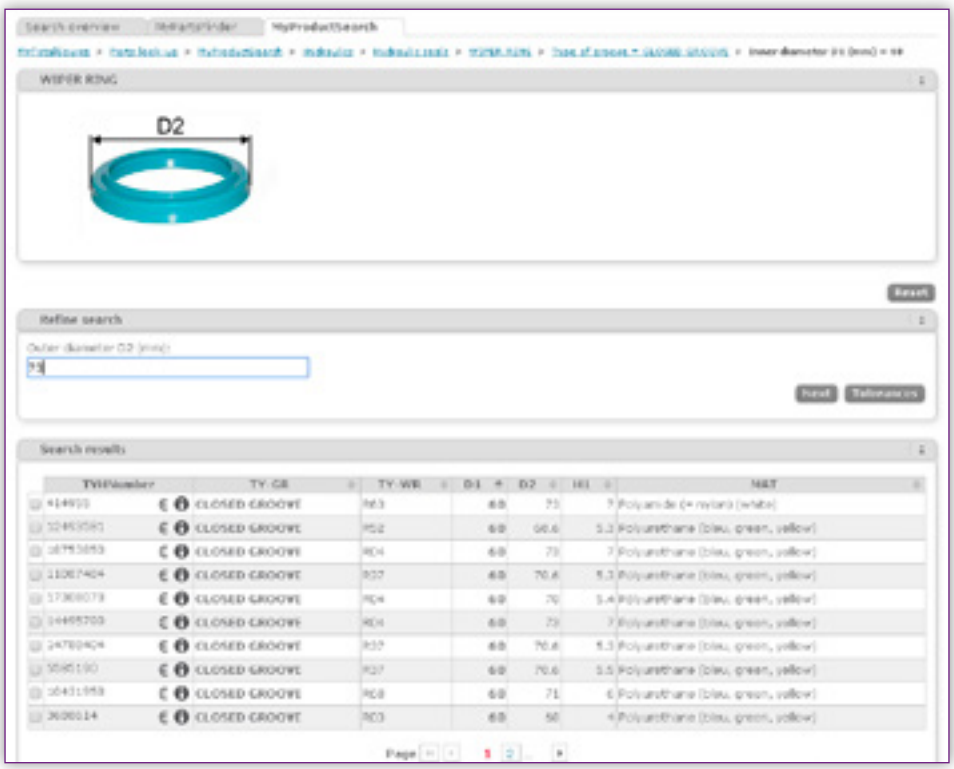
WIPER RING

No part number, vehicle make or type of truck?
Identify your parts by means of specifications or technical info.

myPS MyProductSearch



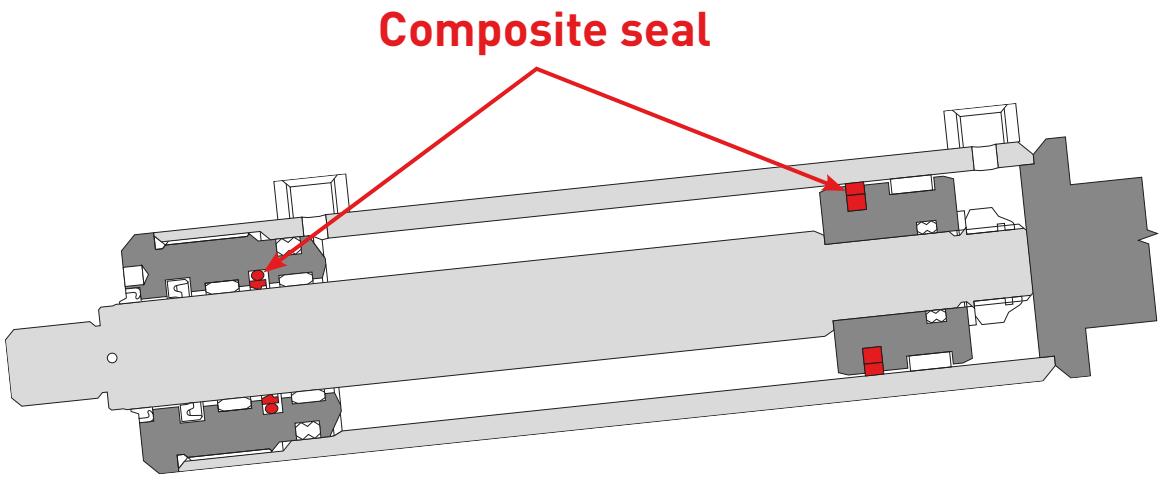




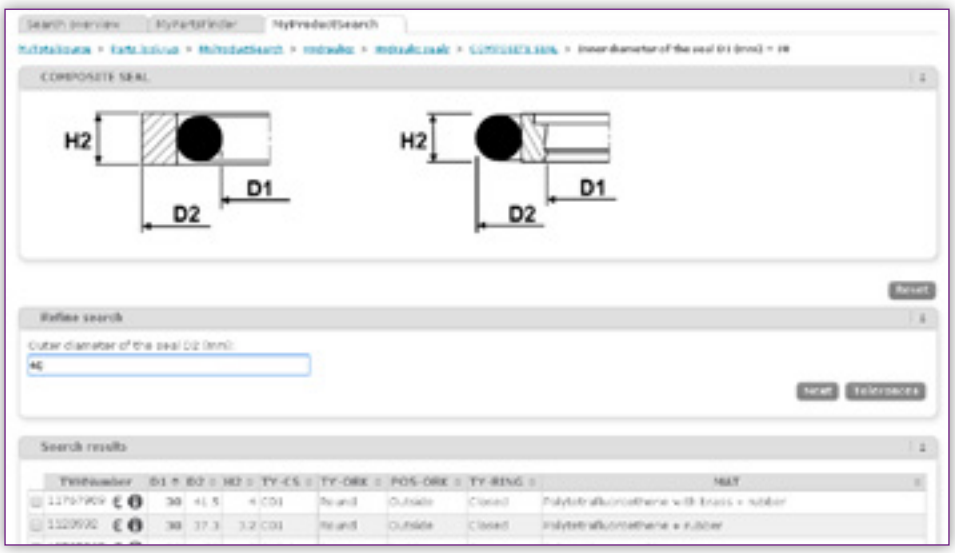
COMPOSITE SEAL

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Identify your parts by means of specifications or technical info.

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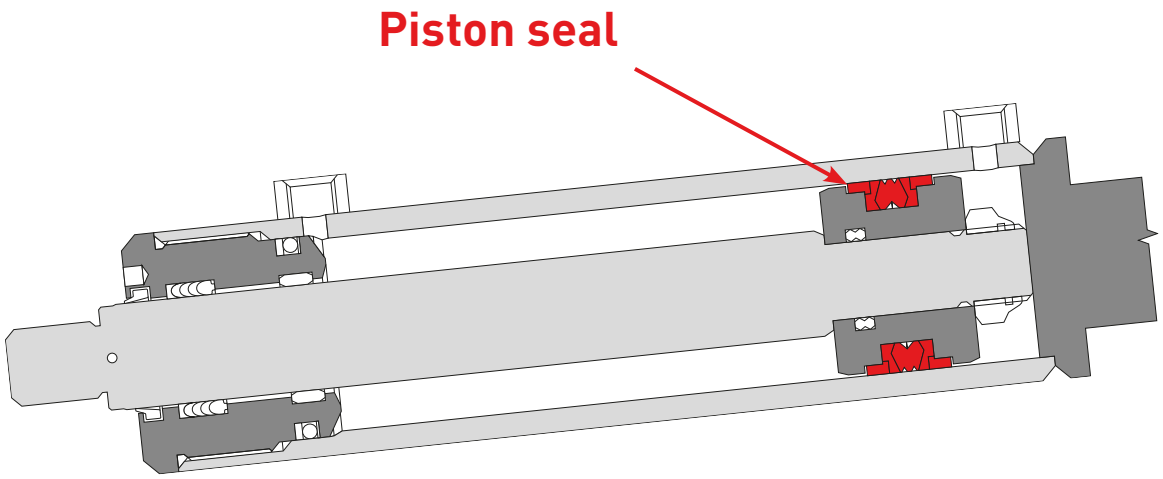




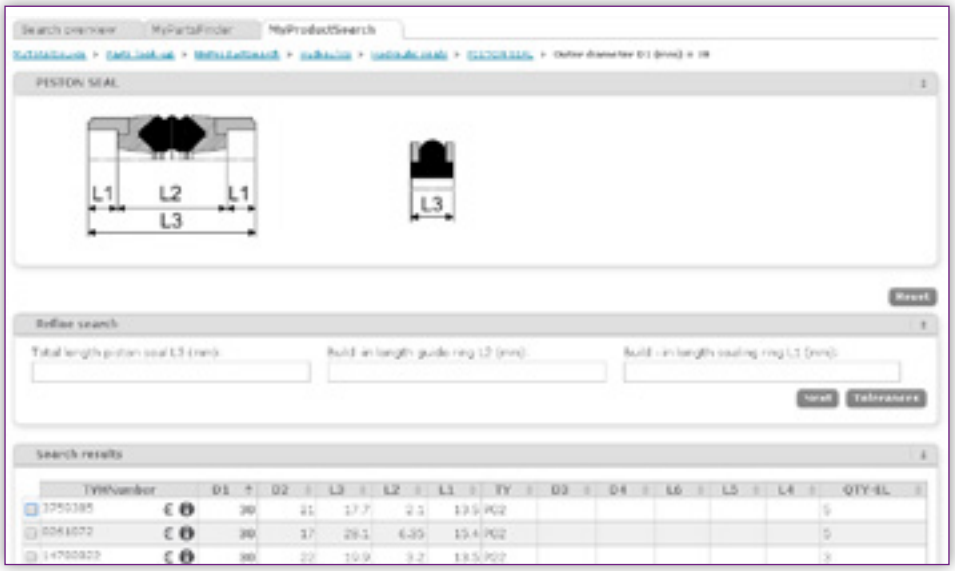
PISTON SEAL

No part number, vehicle make or type of truck?
Identify your parts by means of specifications or technical info.

MyProductSearch

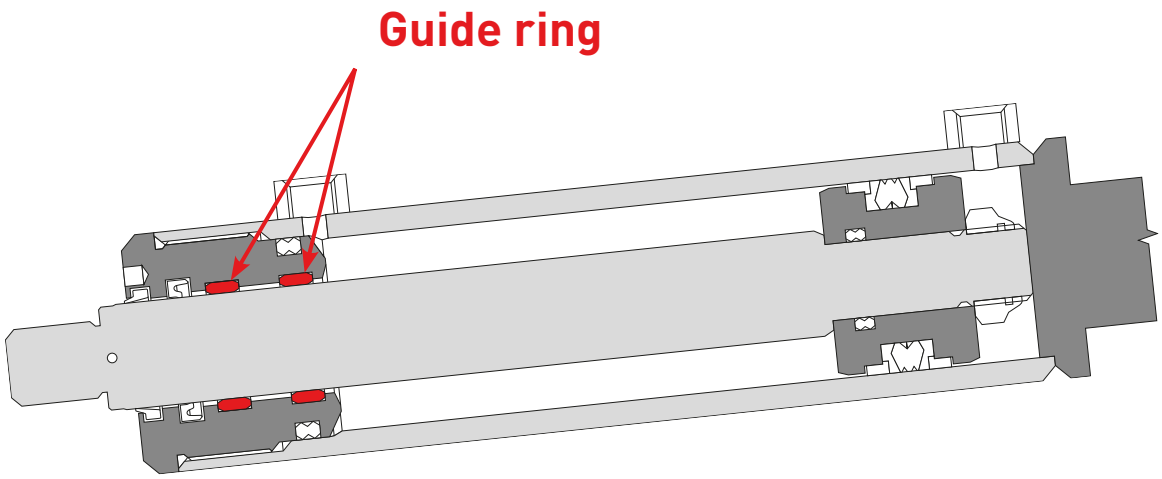




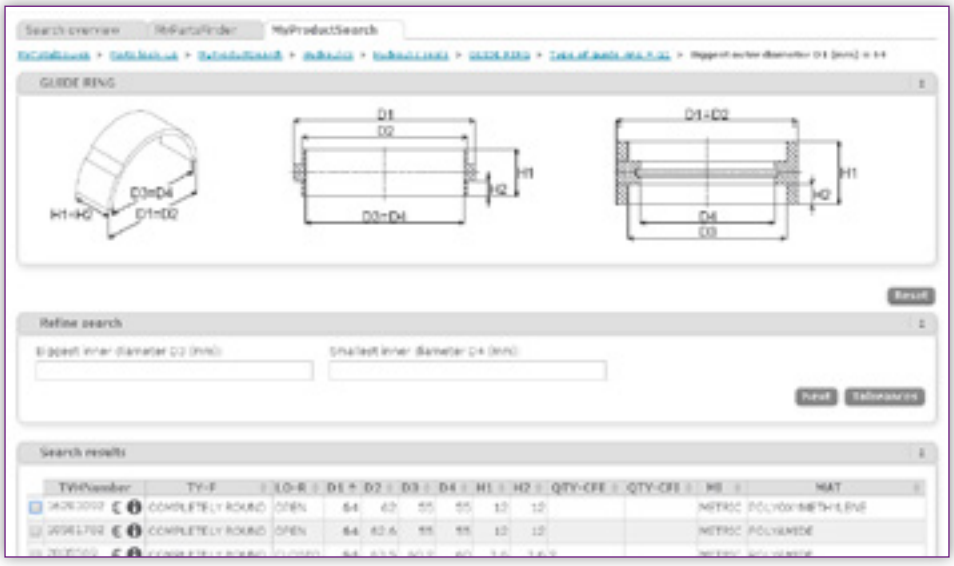


GUIDE RING

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Identify your parts by means of specifications or technical info.

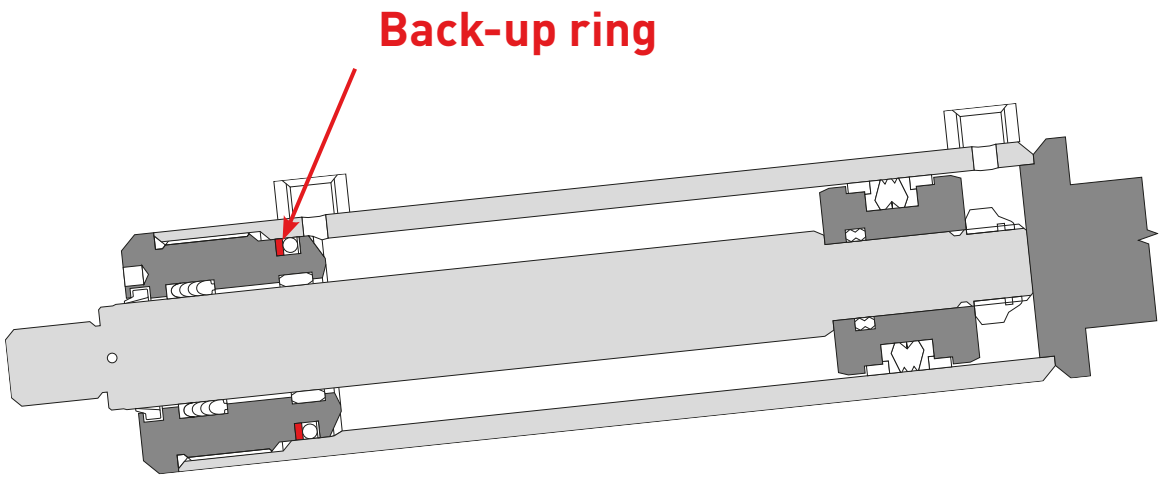




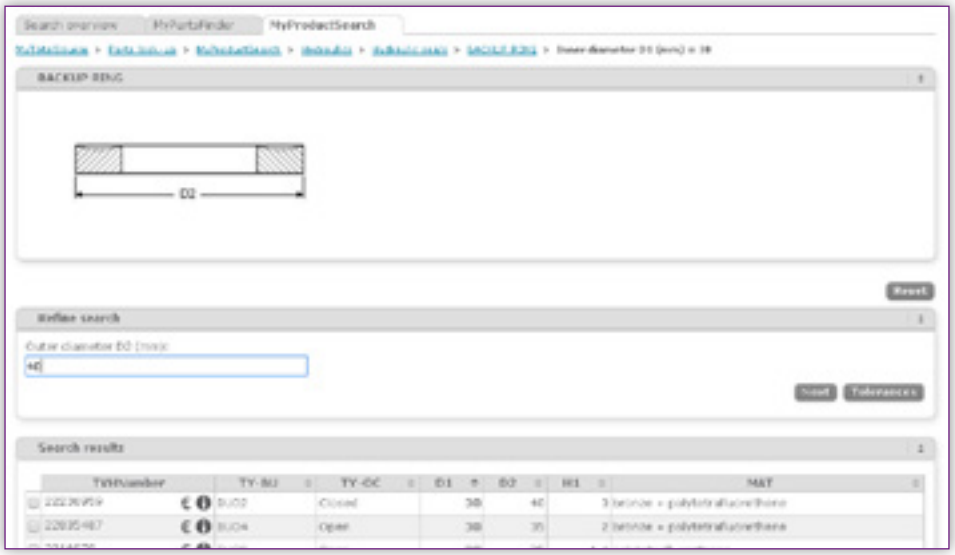


BACK-UP RING

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Identify your parts by means of specifications or technical info.

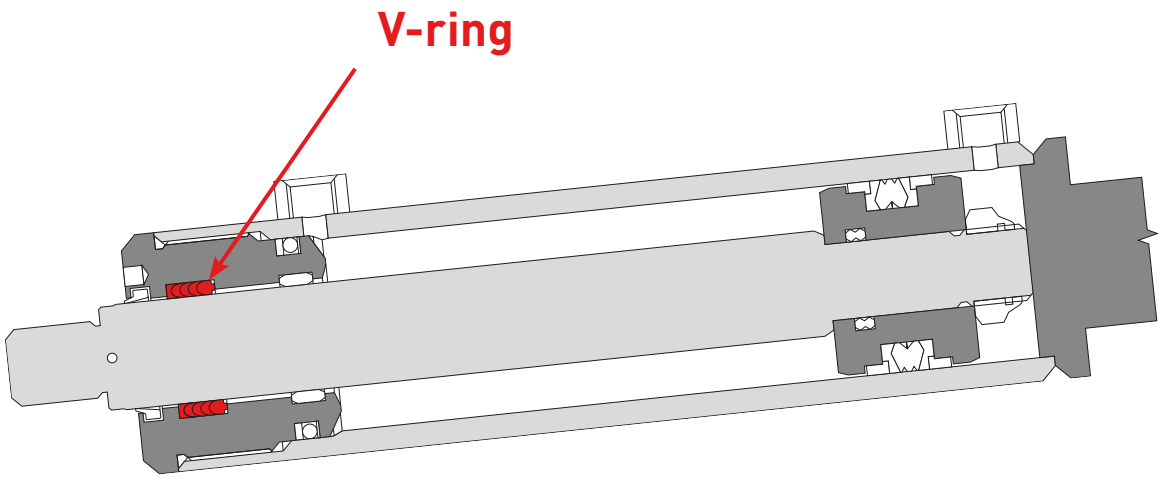




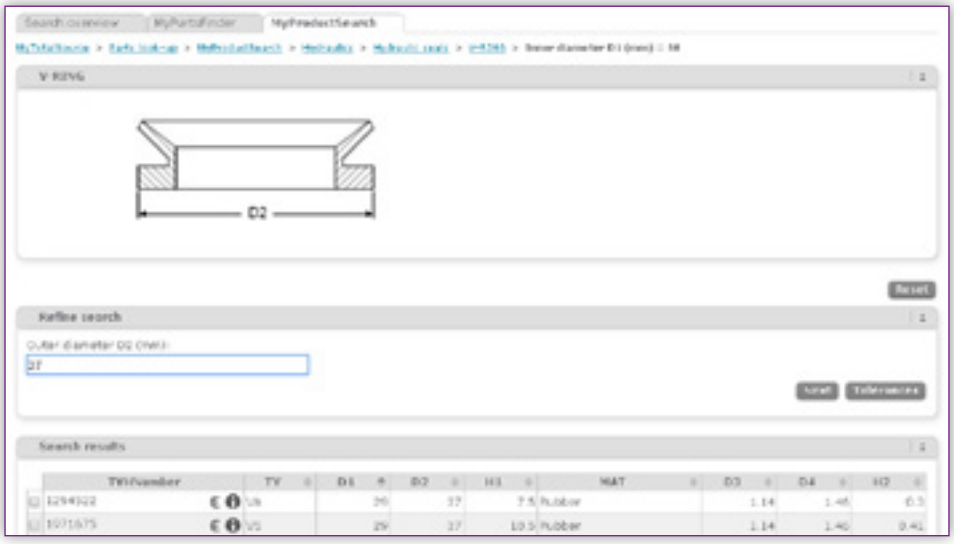


V-RING

No part number, vehicle make or type of truck?
Identify your parts by means of specifications or technical info.



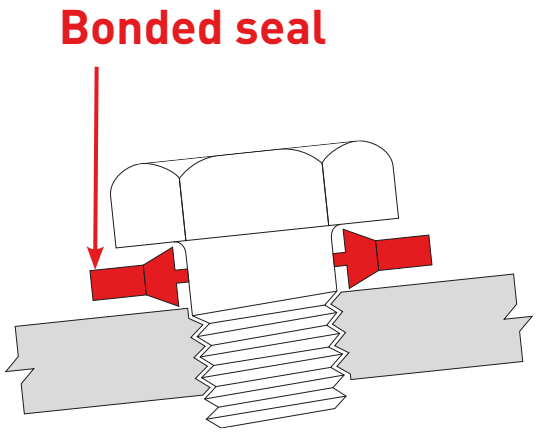




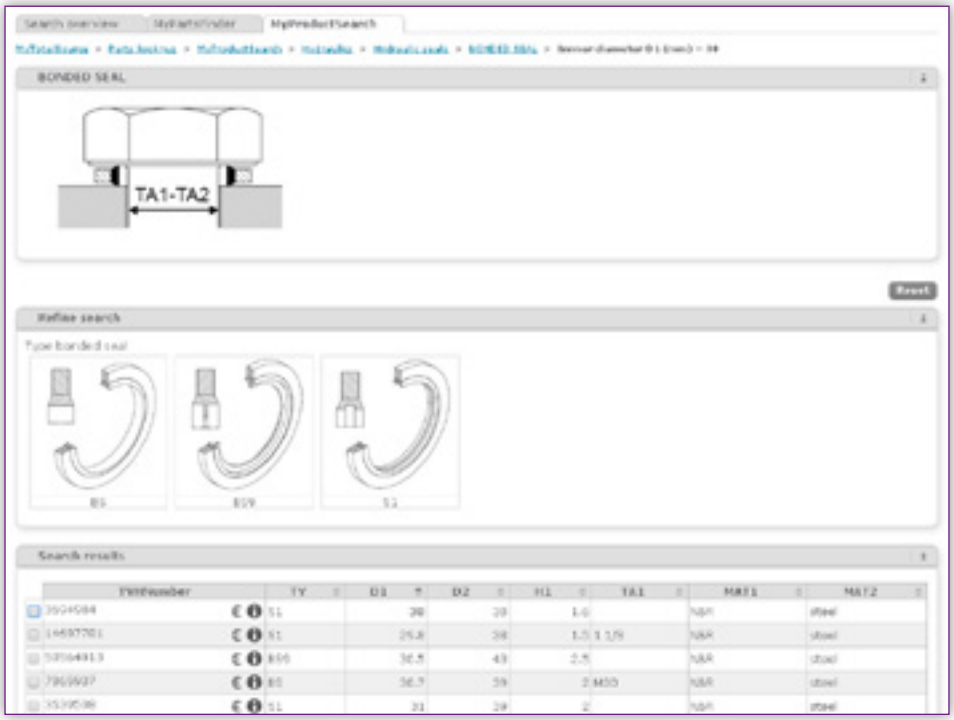
BONDED SEAL

No part number, vehicle make or type of truck?
Identify your parts by means of specifications or technical info.

myPS MyProductSearch

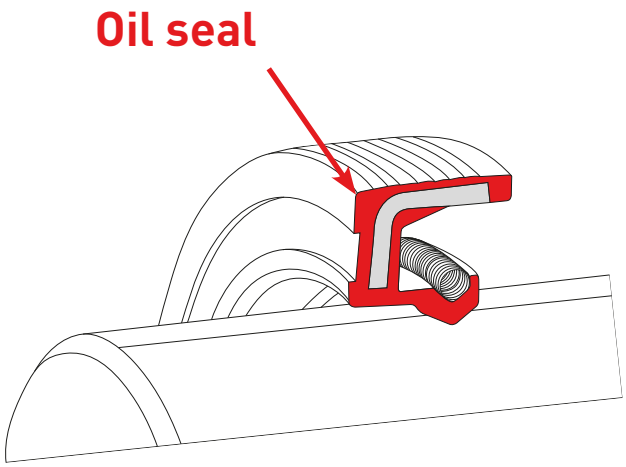




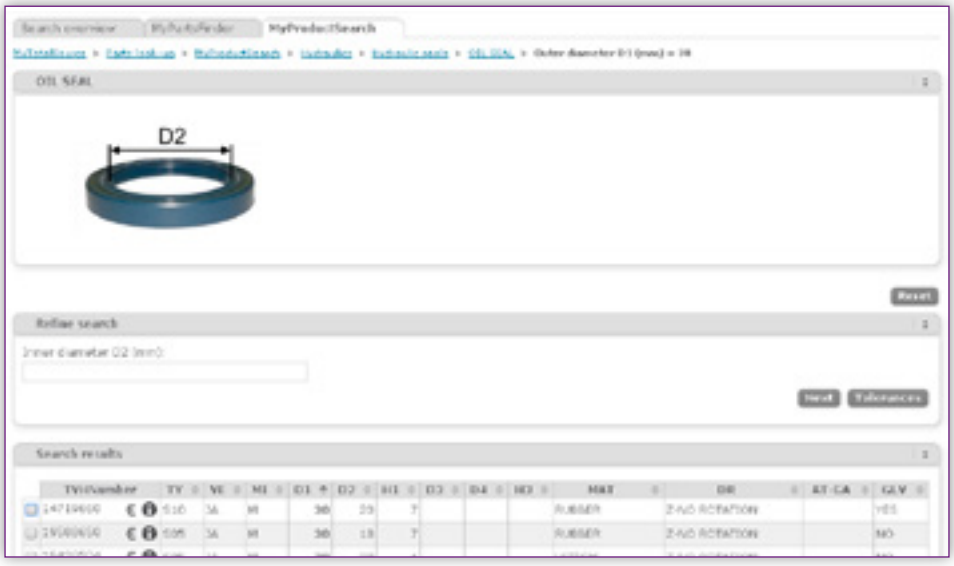


OIL SEAL

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Identify your parts by means of specifications or technical info.



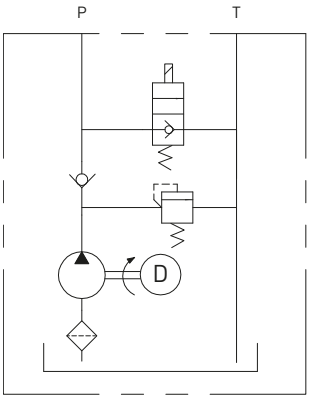


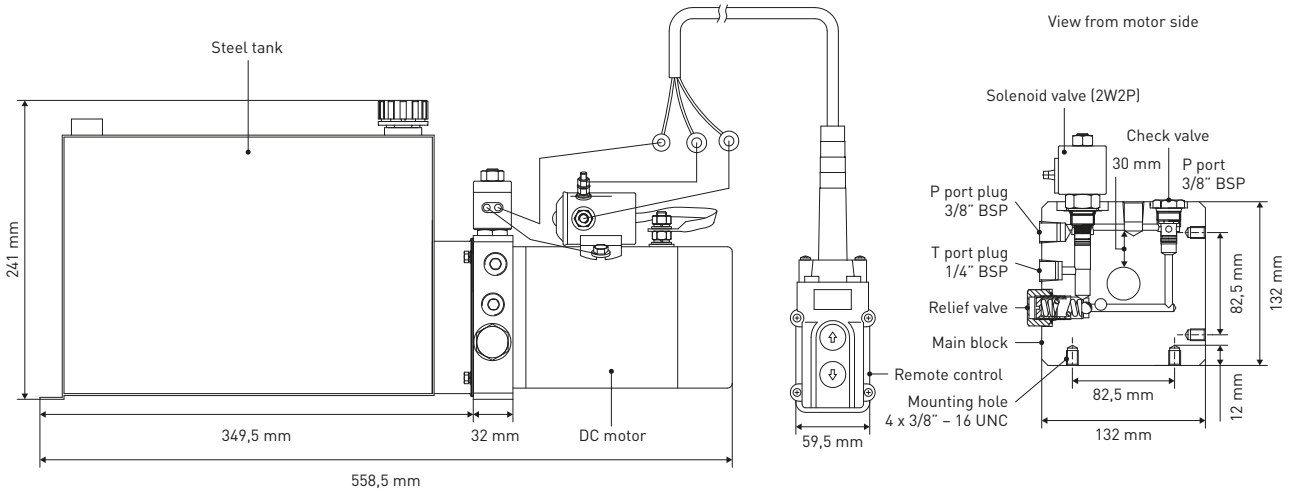


HYDRAULIC PUMP UNIT



Hydraulic diagram





Technical data:

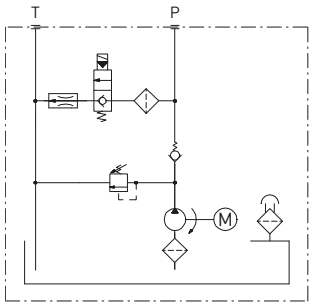
- Motor: 12 VDC 1,5 kW
- Gear pump: 2,1 cc/r
- Relief valve: 200 bar
- Tank: 12 l/horizontally mounted

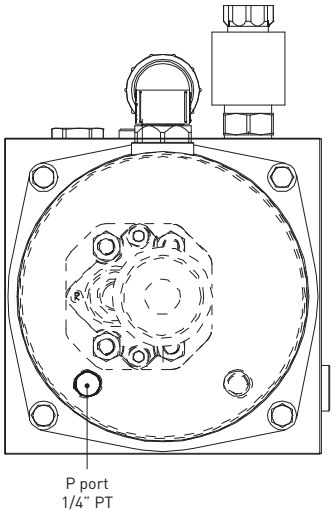
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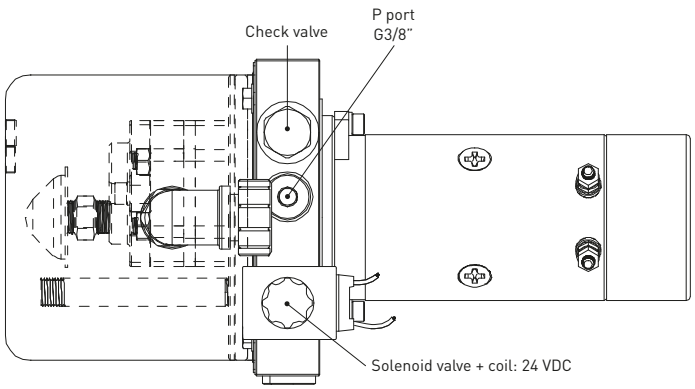
HYDRAULIC PUMP UNIT

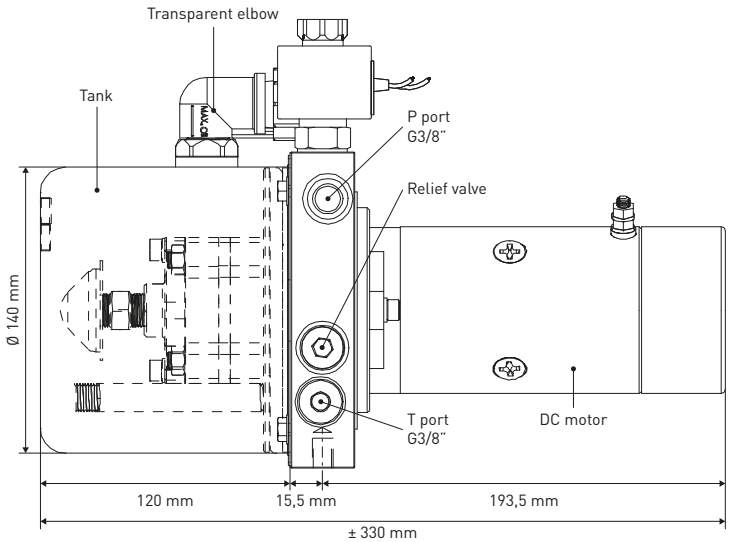


Hydraulic diagram









Technical data:

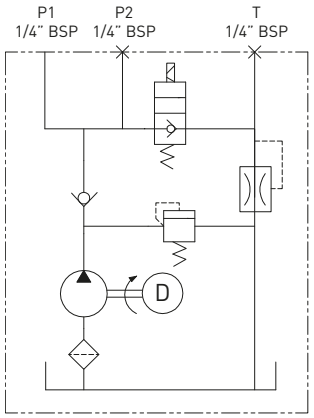
- Motor: 24 VDC 0,8 kW
- Pump: 0,7 cc/r
- Relief valve: 180 bar
- Tank: 1,0 l/vertically mounted

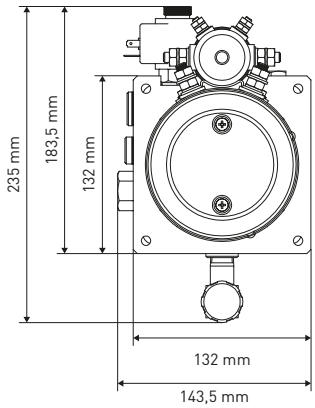
REF 100MC3262

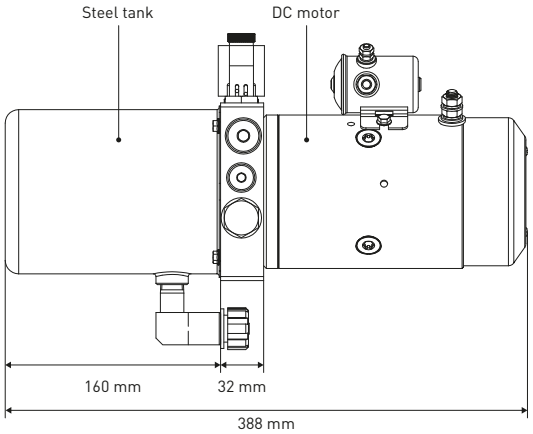
HYDRAULIC PUMP UNIT

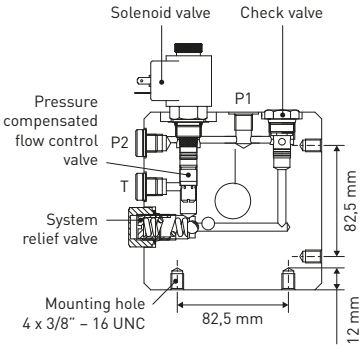


Hydraulic diagram









Technical data:

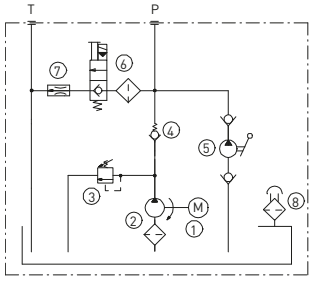
- Motor: 24 VDC 2,2 kW
- Pump: 3,32 cc/r
- Relief valve: 175 bar
- Tank: 1,5 l/vertically mounted

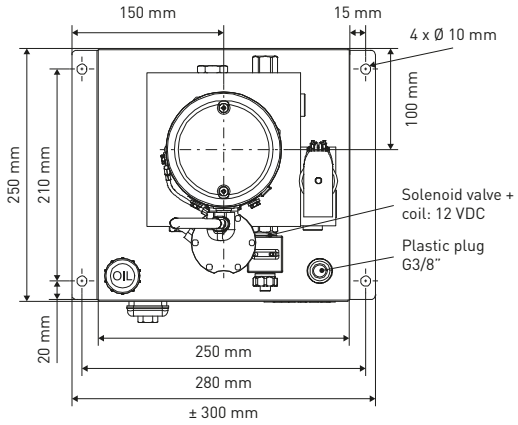
REF 100MC3263

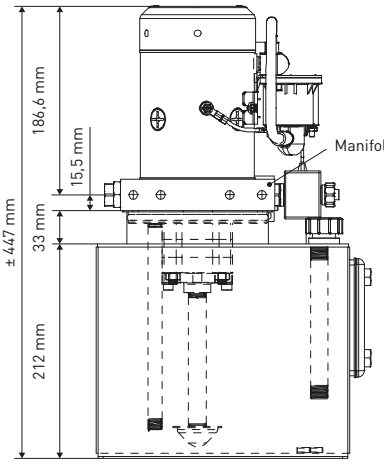
HYDRAULIC PUMP UNIT

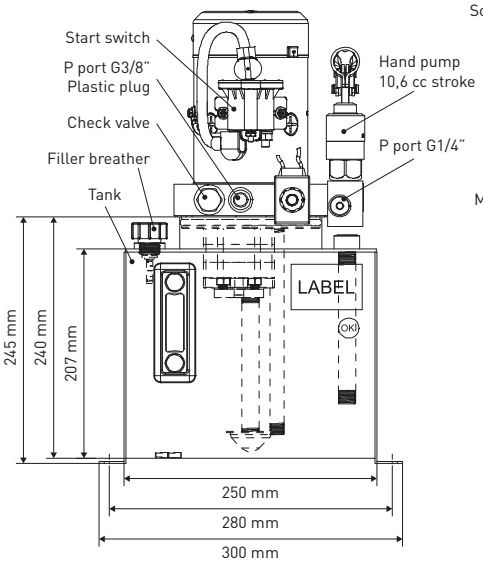


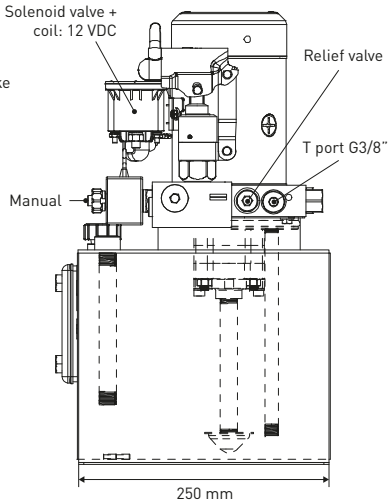
Hydraulic diagram











Technical data:

- Motor: 12 VDC 1,5 kW
- Pump: 4,0 cc/r
- Hand pump: 10,6 cc/stroke
- Relief valve: 120 bar
- Tank: 12 l/vertically mounted

REF 100MC3264

MOTOR PUMPS



- Used for: Clark
- Type: Clark ECM 20-30, EPM 20-30
- Voltage: 80 VDC

REF 100MC3268



- Used for: BT
- Type: BT RT/TRT/FRT
- Voltage: 48 VDC

REF 100MC3269



- Used for: Jungheinrich
- Type: Jungheinrich EKE/EKC/EJP/Kms
- Voltage: 24 VDC

REF 100MC3270



- Used for: Jungheinrich – MIC
- Type: JH EEC 10 E, JH SW 12, JH HC 10, MIC GU100MB, MIC G100MB, MIC G100B, MIC G100C, MIC G10E, MIC GU 10E, MIC G10M
- Voltage: 24 VDC

REF 100MC3271



- Used for: Linde
- Type: Linde E12/E14
- Voltage: 24 VDC

REF 100MC3272



- Used for: Linde
- Type: Linde E12/E14, E15Z-02
- Voltage: 48 VDC

REF 100MC3273

MOTOR PUMPS



- Used for: Linde
- Type: Linde E12
- Voltage: 24 VDC

REF 100MC3274



- Used for: Steinbock
- Type: STEINBOCK WP13/WL15
- Voltage: 24 VDC

REF 100MC3275



- Used for: Linde
- Type: Linde E12
- Voltage: 24 VDC

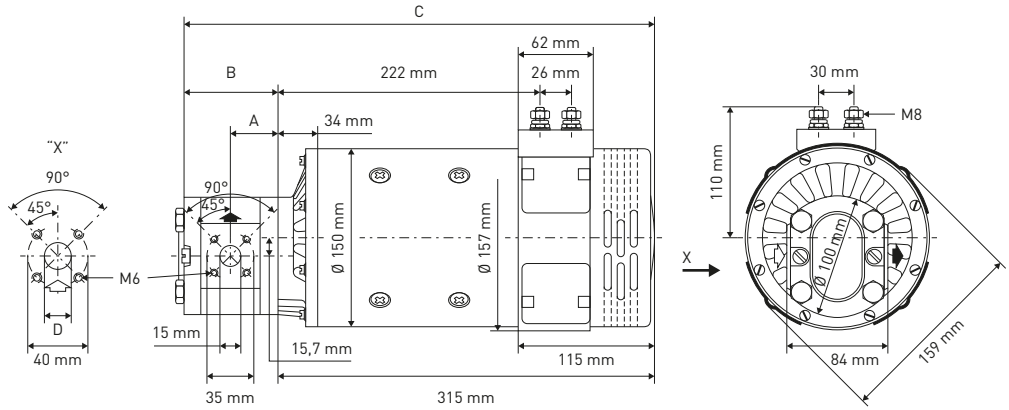
REF 100MC3276



- Used for: Linde, Fenwick
- Type: Fenwick SM10/15P, Fenwick-Linde RE16/20
- Voltage: 72 VDC

REF 100MC3277

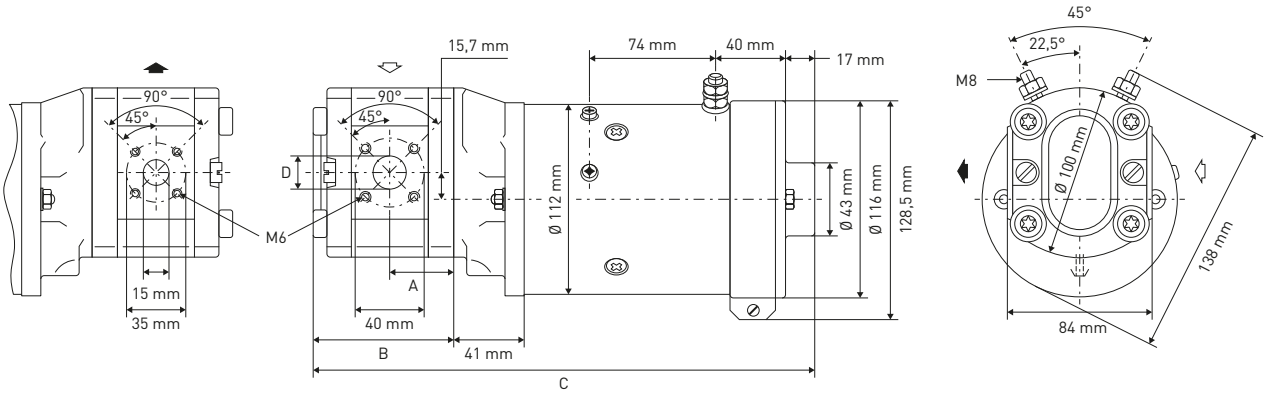
PUMP MOTORS



Universal application

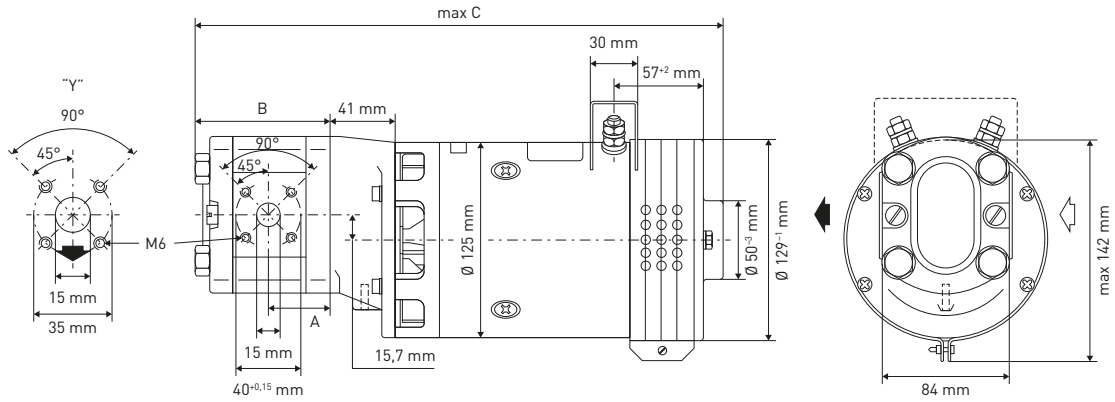
W	V	cm³/rev	A mm	B mm	C mm	D mm	REF
3000	24	8	41	89	404	20	100MC3278
3000	24	11	45	94	409	20	100MC3279
3700	48	11	45	100	415	20	100MC3280

PUMP MOTORS



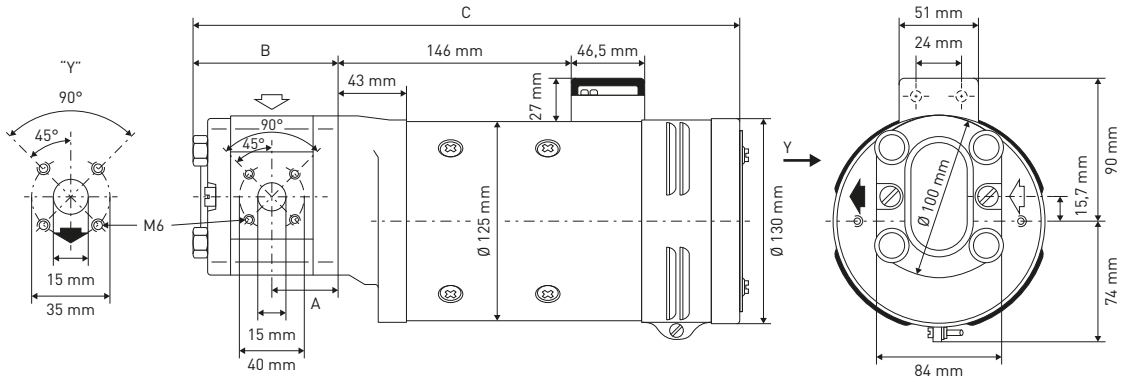
Universal application

W	V	cm³/rev	A mm	B mm	C mm	D mm	REF
2000	24	4	37,3	82,5	293	15	100MC3270



Universal application

W	V	cm³/rev	A mm	B mm	C mm	E mm	REF
1000	72	5,5	38,6	85	333	248	100MC3281

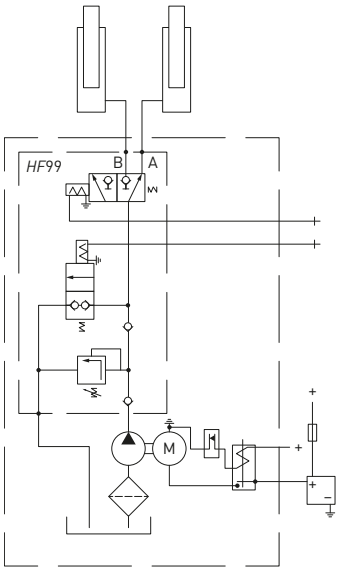


Universal application

W	V	cm³/rev	A mm	B mm	C mm	E mm	REF
500	72	5,5	38,6	85	340	255	100MC3282

DC HYDRAULIC POWER UNITS



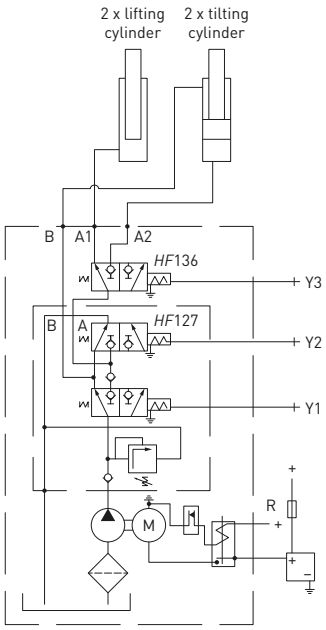


DC hydraulic power unit for two single-acting functions e.g. for tail lifts.

Electric motor kW	Hydraulic circuit	Pump size cc/r	Tank volume l	Voltage VDC	REF
2	2x single-acting	3,2	6,2	12	100MC3283
2	2x single-acting	3,2	6,2	24	100MC3284
2	2x single-acting	3,2	6,2	48	100MC3285

DC HYDRAULIC POWER UNITS





DC hydraulic power unit for mixed double- and single-acting functions e.g. for tail lifts.

Tail lift with:
A. Single-acting lift cylinders
B. Double-acting tilt cylinders

Operations:
1. Lifting (pump power up)
2. Lowering (gravity down)
3. Tilt close (pump power close)
4. Tilt open (pump power open)

Note:
Relief valve setting has to be examined and adjusted to lift construction

Operation overview:
- Operation: activate solenoid
- Up: R + Y1
- Down: Y2
- Tilt up close: R + Y1 + Y3
- Tilt down open: R + Y2 + Y3

Electric motor kW	Pump size cc/r	Tank volume l	Voltage VDC	REF
2	2,6	9,8	12	100MC3286
2	2,6	9,8	24	100MC3287

HYDRAULIC PUMP UNITS – TECHNICAL SHEET

Group	Example	Customer details
03-10-01-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY-PG.....	Type of pump group: *A = motor-pump-reservoir* *B = motor-pump* *C = motor-pump/in housing with reservoir*
L1.....	Overall length, see according to type
B1.....	Overall width, see according to type
H1.....	Overall height, see according to type
FT-HYG.....	Function of the pump group: *H = lifting* *R = driving* *S = steering*
AC/DC	AC = alternating current motor DC = direct current motor
U1.....	Lowest tension of the motor (volt)
U2.....	Highest tension of the motor (volt)
I	Current (ampere)
N.....	Revolutions per minute
P.....	Power (kW). If stated in horsepower, ratio HP-kW is 0,736 (e.g.: 1 HP = 0,736 kW)
KS.....	Cooling fan present (yes/no)
DRZ1	Direction of rotation of the motor: *CW = clockwise* *CCW = counterclockwise*
S1.....	Cycle of operation S1: continuous operation, see identification plate
S2.....	Cycle of operation S2: brief operation, see identification plate
S3.....	Cycle of operation S3: intermittent operation, see identification plate
ST-REL.....	Starter relay present (yes/no)
U3.....	Voltage of the starter relay (volt), if present
Q1.....	Flow of the hydraulic pump, in l/min
BAR	Pressure in bar

HYDRAULIC PUMP UNITS – TECHNICAL SHEET

CAP . . . . . Capacity of the pump: number of cc per revolution

TY-FL . . . . . Type of flange of the hydraulic pump, see figures

AT-EL . . . . . Number of pump elements

DRZ2 . . . . . Direction of rotation of the hydraulic pump:
CW = clockwise
CCW = counterclockwise

D1. . . . . Diameter of the suction side 1st element

TA1 . . . . . Thread type of the suction side 1st element

D2. . . . . Diameter of the pressure side 1st element

TA2 . . . . . Thread type of the pressure side 1st element

D3. . . . . Diameter of the suction side 2nd element

TA3 . . . . . Thread type of the suction side 2nd element

D4. . . . . Diameter of the pressure side 2nd element

TA4 . . . . . Thread type of the pressure side 2nd element

LIT . . . . . Capacity of the reservoir, in litres

L2 . . . . . Length of the reservoir

B2. . . . . Width of the reservoir

H2. . . . . Height of the reservoir

D5. . . . . Diameter of the reservoir

HV. . . . . Position (if a reservoir is present):
H = horizontal
V = vertical

DCP . . . . . Decompression:
Z = without
M = manual
E = electric

U4. . . . . Voltage of the valve (volt), if electrical decompression

TY-VA . . . . . Type of valve:
VNF = normally closed valve
VNO = normally open valve
VLB = directional logical valve

TY-CI . . . . . Type of cylinder:
S = single-acting (one port)
D = double-acting (two ports)

D6. . . . . Diameter of the lowering choke

Q2. . . . . Flow of the lowering choke, in l/min

FV. . . . . Lowering choke proportional with pump (yes/no)

HYDRAULIC PUMP UNITS – TECHNICAL SHEET

TYPES

Type A



Type B

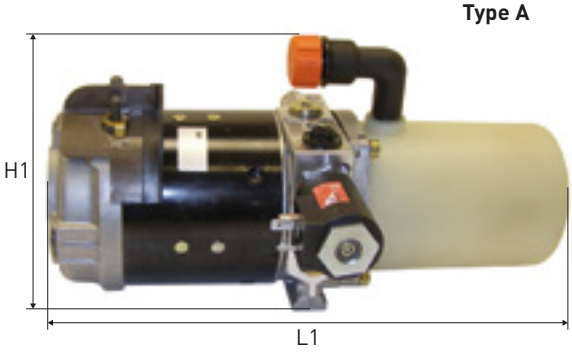


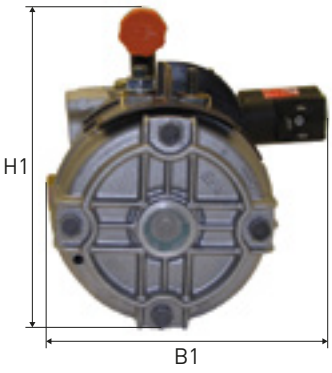
Type C



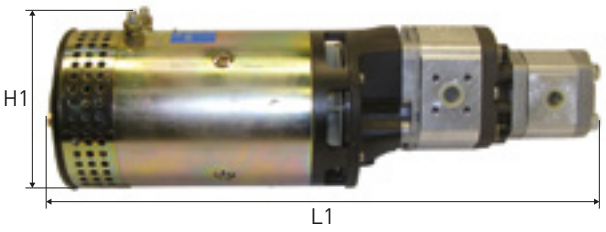
DIMENSIONS

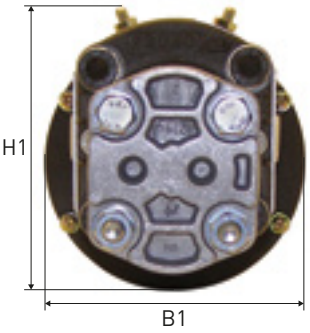
Type A



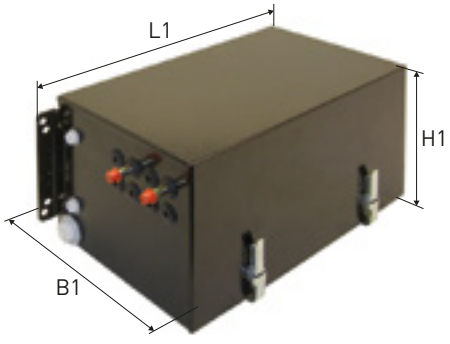


Type B





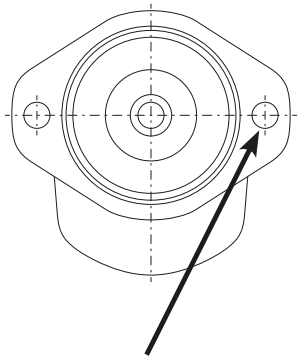
Type C



HYDRAULIC PUMP UNITS – TECHNICAL SHEET

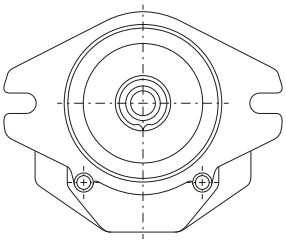
TYPE OF FLANGE

Type A (A)

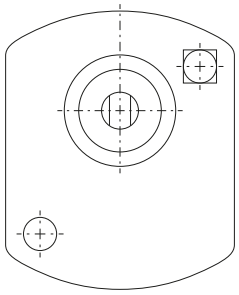


If thread = type AA

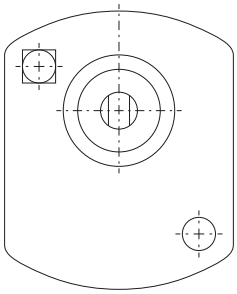
Type B



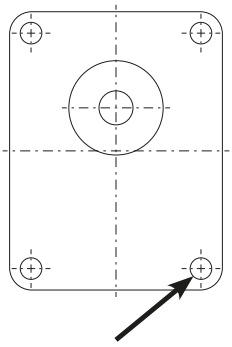
Type C



Type D

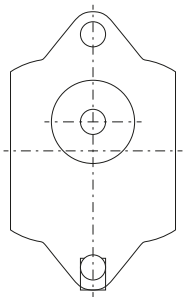


Type E

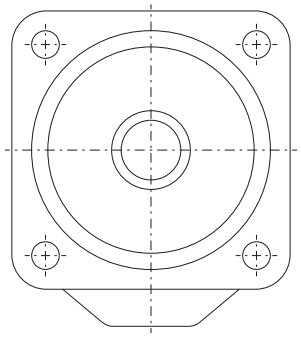


Also possible with a random shape

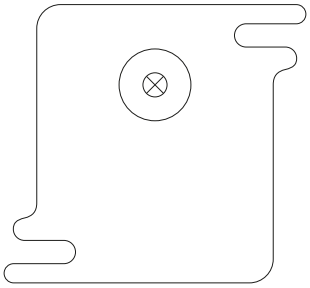
Type F



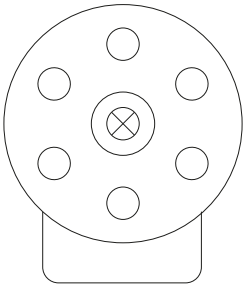
Type G



Type H



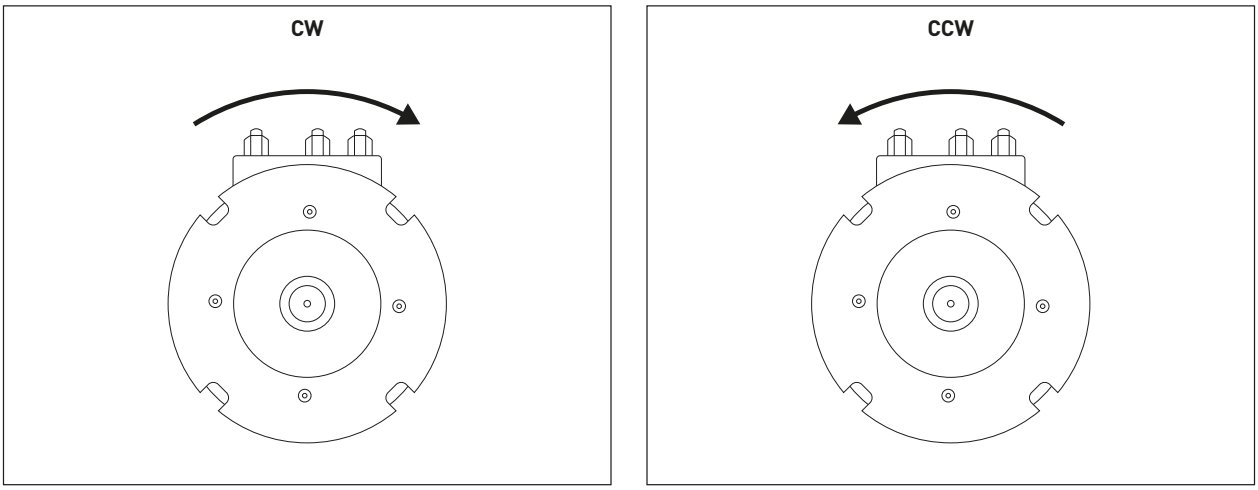
Type I



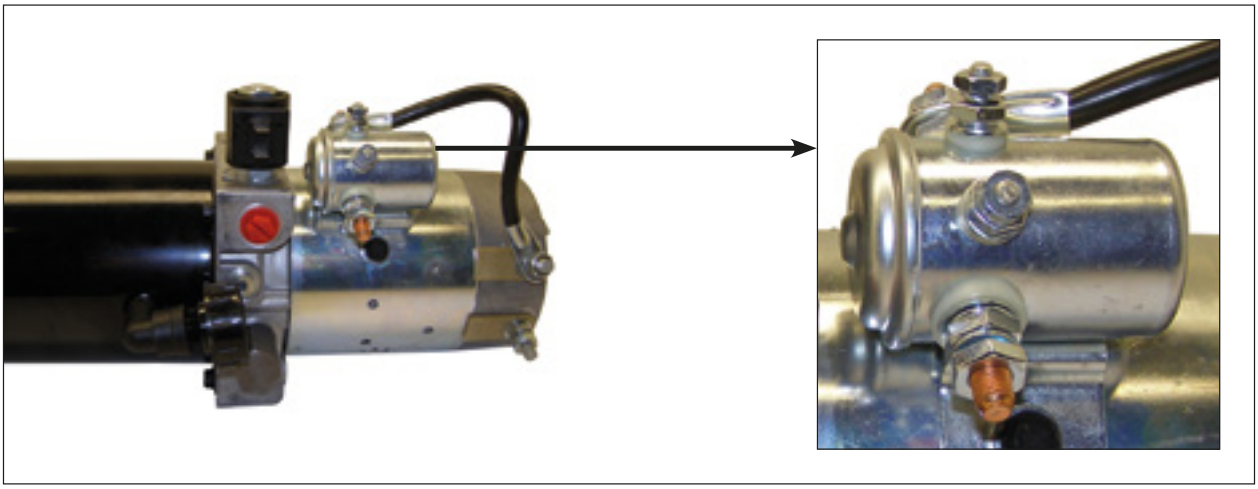
Type S
Special types: none of the above

HYDRAULIC PUMP UNITS – TECHNICAL SHEET

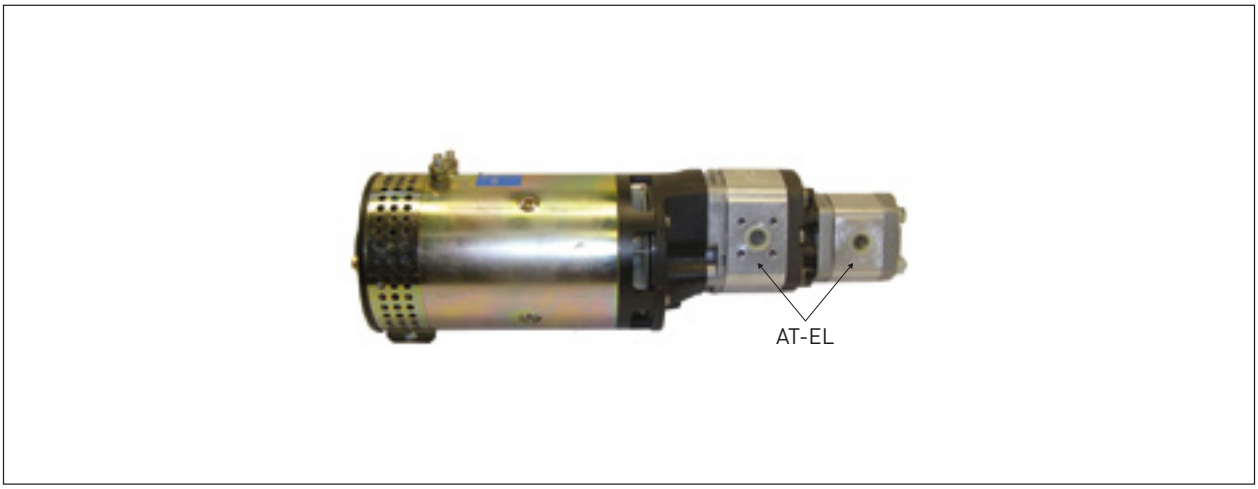
DIRECTION OF ROTATION OF THE MOTOR



STARTER RELAY

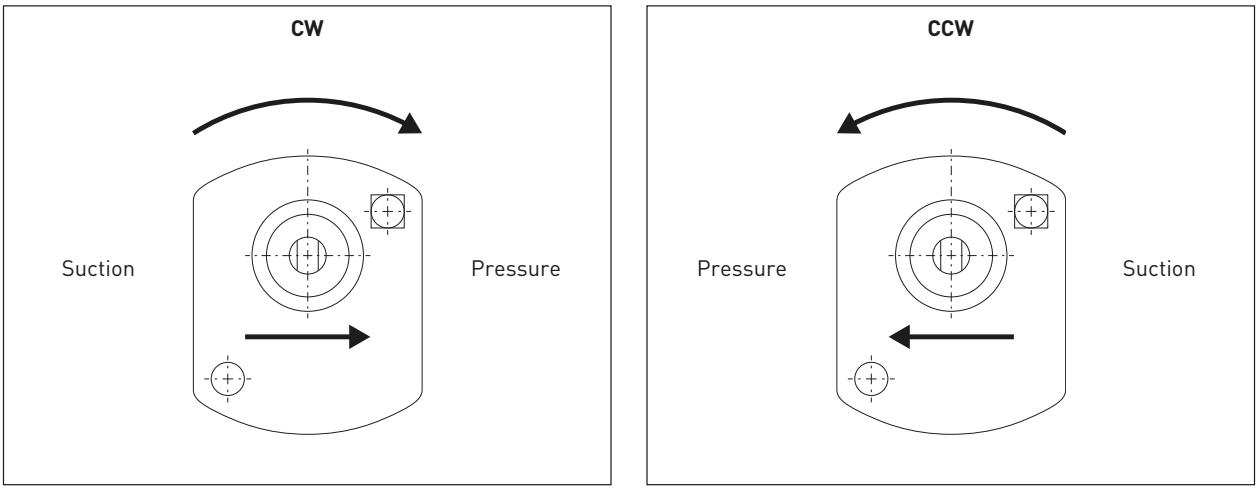


NUMBER OF ELEMENTS

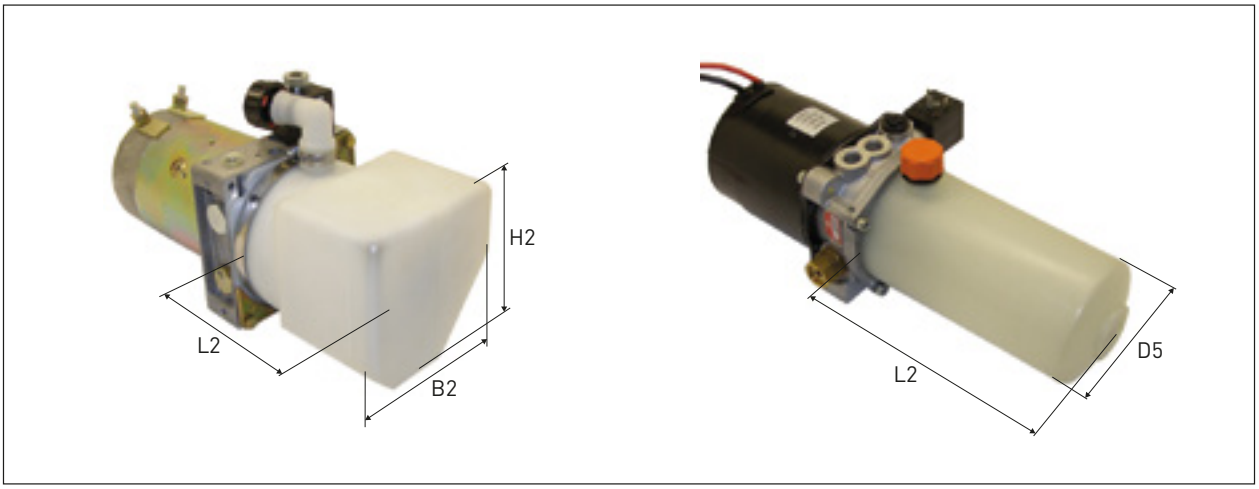


HYDRAULIC PUMP UNITS – TECHNICAL SHEET

DIRECTION OF ROTATION OF THE HYDRAULIC PUMP

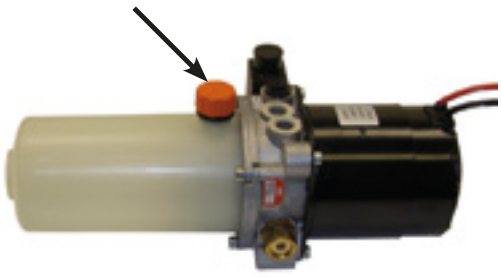


DIMENSIONS OF THE RESERVOIR



POSITION

Type H
Horizontal



Type V
Vertical



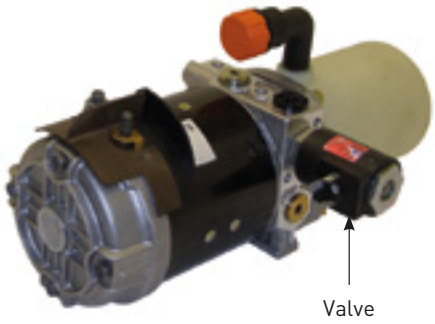
HYDRAULIC PUMP UNITS – TECHNICAL SHEET

DECOMPRESSION

Manual



Electrical



TYPE OF CYLINDER

Type S
Single-acting



Type D
Double-acting



VERY HIGH-PERFORMANCE ANTI-WEAR HYDRAULIC OIL



Product description:

- Designed for use in all kind of hydraulic systems running under the most difficult conditions, such as in machine tools, mound injection machines, presses and other industrial or mobile equipment
- Also used in many other applications, where a universal high-performance anti-wear lubricant is the first choice: low charged gears, sliding and roller bearings, air compressors, servo-motors and control systems equipped with fine filtration system

Specifications:

- AFNOR NF E 48-603HM
- ISO 6743/4 HM
- DIN 51524 P2 HLP

OEM approvals:

- VICKERS M-2950S, -I-286
- DENSION HF0, HF1, HF2 (T6H20C)
- CINCINNATI MILACRON P68, P69, P70

Advantages:

- High protection against wear ensuring maximum equipment life
- Superior thermal stability avoiding formation of sludge even at high temperatures
- Very good oxidation stability ensuring a long service life of the fluid
- Remarkable filterability even in the presence of water
- Excellent hydrolytic stability avoiding filter blocking
- Excellent protection against rust and corrosion
- Good anti-foam and air release properties by using silicone free components
- Good demulsibility ensuring rapid water separation
- Reduced maintenance and operating costs

REF 100MC5068 – 5 l
REF 100MC5069 – 20 l
REF 100MC5070 – 60 l
REF 100MC5071 – 208 l

VERY HIGH-PERFORMANCE ANTI-WEAR HYDRAULIC OIL



Product description:

- The Equivis ZS range is recommended for all kind of hydraulic systems operating under high pressure (limit as indicated by the pump manufacturer) and high temperature (up to 100 °C in hot points)
- Lubricants especially suitable for hydraulic systems working under extreme temperature variations and equipment operating outside: easy start up at low temperature (–30 °C) and regular operating in all seasons: civil engineering, agriculture, marine, transport and other industrial applications

Specifications:

- AFNOR NF E 48-603 HV
- ISO 6743/4 HV
- DIN 51524 P3 HVLP
- CINCINNATI MILACRON
- VICKERS M-2950S, -I-286

Advantages:

- Very high viscosity index
- Excellent shear stability
- Superior thermal stability avoiding the formation of sludge even at high temperature
- Very good oxidation stability ensuring a long service life of the fluid
- High protection against wear insuring maximum equipment life
- Excellent hydrolytic stability avoiding filter blocking
- Remarkable filterability even in the presence of water
- Excellent protection against rust and corrosion
- Good anti-foam and air release properties by using silicone free components
- Very low pour point
- Good demulsibility ensuring rapid water separation

REF 100MC5065 – 20 l
REF 100MC5066 – 60 l
REF 100MC5067 – 208 l

ASHLESS MINERAL HYDRAULIC FLUID WITH A VERY HIGH VISCOSITY INDEX

TOTAL SOURCE
Powered by TOTAL



Product description:
- A hydraulic fluid designed for outdoor equipment operating under extremely low temperatures
- The very high viscosity index extends the temperature operating window of the hydraulic systems

International specifications:
- ISO 11158 HV
- DIN 51524-3 HVLP

Advantages:
- The low pur point and low-temperature fluidity limit cavitation issues during start-up operations. Thanks to this low-temperature fluidity, the hydraulic system is fully operable immediately after start-up
- Good shear stability ensuring a high-temperature lubricating film thickness and hydraulic pump efficiency during the fluid service life
- Ashless formulation offering a very high oxidation stability, reducing deposits, formation of varnish and allowing extended drain intervals
- Good wear, rust and corrosion protection of the material
- Excellent air release behaviour

REF 101MC1378 – 20 l, ISO VG 15

HIGH VISCOSITY INDEX ANTIWEAR HYDRAULIC OIL



Product description:

- Recommended for all kind of hydraulic systems operating under high pressure (limit as indicated by the pump manufacturer) and high temperature (up to 100 °C in hot spots)
- Lubricants especially suitable for hydraulic systems working under extreme temperature variations and equipment operating outside: easy start-up at low temperatures (–30 °C)

International specifications:

- Afnor NF E 48-603 HV
- ISO 6743/4 HV
- DIN 51524 P3 HVLP
- Cincinnati Milacron P68, P69, P70
- Vickers M-2950S, -I-286

Advantages:

- Very high viscosity index
- Excellent shear stability
- Superior thermal stability avoiding the formation of sludge even at high temperatures
- Very good oxidation stability ensuring a long service life of the fluid
- High protection against wear ensuring maximum equipment life
- Excellent hydrolytic stability avoiding filter blocking
- Remarkable filterability even in the presence of water
- Excellent protection against rust and corrosion
- Good anti-foam and air release properties by using silicone free components
- Very low pour point
- Good demulsibility ensuring rapid water separation

REF 101MC1379 – 1 l, ISO VG 15
REF 101MC1380 – 5 l, ISO VG 15
REF 101MC1381 – 20 l, ISO VG 22
REF 101MC1382 – 20 l, ISO VG 32

BIODEGRADABLE HYDRAULIC FLUIDS



TOTAL SOURCE Powered by TOTAL

EU Ecolabel www.ecolabel.eu

Product description:

- A biodegradable synthetic hydraulic fluid offering good lubricating properties. It was designed for demanding hydraulic systems requiring hydraulic fluids with reinforced anti-wear properties
- Recommended for use when incidental spillage in environmentally sensitive areas can occur, e.g.: forestry works, navigation, off-shore, water catchment areas, ski resorts, hydroelectric stations ...

Specifications:

- ISO 15380 HEES

Advantages:

- Produced with renewable raw materials, this oil contributes to CO_2-emission reduction
- High natural viscosity index gives a wide temperature operating window (–20 °C to 80 °C)
- The very high shear stability will ensure the hydraulic equipment is kept to an optimum efficiency during the fluid service life
- The good lubricating properties, as well as the very good wear and corrosion protection, extends the life of the hydraulic system's moving components

REF 101MC1383 – 20 l, ISO VG 46
REF 101MC1384 – 20 l, ISO VG 68
REF 101MC1385 – 208 l, ISO VG68

BIODEGRADABLE HYDRAULIC FLUIDS SUITABLE FOR INCIDENTAL FOOD CONTACT

TOTAL SOURCE Powered by TOTAL



Product description:

- Oil for hydraulic systems presenting risks of leaks of fluid into the environment and incidental contact with foodstuffs: grape harvests, crop harvests ...
- Operating temperatures: –20 °C to 70 °C

Specificiations:

- NSF H1
- ISO 15380 HETG
- Poclain Hydraulics 11-06
- ISO 6743-4

Advantages:

- Reinforced protection and efficiency of equipment due to a very high viscosity index
- Excellent anti-wear properties

REF 101MC1386 – 20 l
REF 101MC1387 – 208 l

FLEXIBLE/MOULDABLE FUNNEL



- Flexible funnel that facilitates the draining and topping up of a wide variety of fluids and oils
- Suitable applications: engine oil, coolant, brake oil, auto transmission oil ...
- Easy to take along, easy to store thanks to the compact dimensions and foldable properties
- Dimensions: 170 x 372 mm
- Inside material: aluminium
- Outside plastic material: NBR

REF 101MC1377

HYDRAULIC HOSE: TYPE 1SN EN 853



Construction:
- Core tube: oil-resistant synthetic rubber
- Inner tube: one braided layer of high-tensile steel wire
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Medium-pressure hydraulic applications
Please indicate reference + length in metres

Inside Ø			Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	DN	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
6,4	6	1/4	13,4	0,53	225	3250	900	13 050	100	100MC2883
7,9	8	5/16	15	0,59	215	3100	850	12 350	115	100MC2884
9,5	10	3/8	17,4	0,69	180	2600	720	10 450	130	100MC2885
12,7	12	1/2	20,6	0,81	160	2300	640	9300	180	100MC2886

HYDRAULIC HOSE: TYPE 2SN EN 853

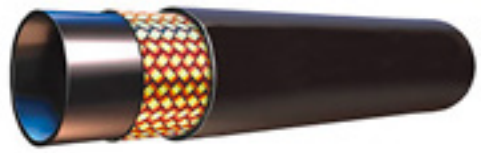


Construction:
- Core tube: oil-resistant synthetic rubber
- Inner tube: two braided layers of high-tensile steel wire
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Medium-pressure hydraulic applications
Please indicate reference + length in metres

Inside Ø			Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	DN	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
6,4	6	1/4	15	0,59	400	5800	1600	23 200	100	100MC2887
7,9	8	5/16	16,6	0,65	350	5100	1400	20 300	115	100MC2888
9,5	10	3/8	19	0,75	330	4800	1320	19 150	130	100MC2889
12,7	12	1/2	22,2	0,87	275	4000	1100	15 950	180	100MC2890

HYDRAULIC HOSES: TYPE 1SC EN 857



Construction:
- Core tube: oil-resistant synthetic rubber
- Inner tube: one braided layer of high-tensile steel wire
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Medium-pressure hydraulic applications
Please indicate reference + length in metres

Inside Ø			Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	DN	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
6,4	6	1/4	13	0,51	225	3260	900	13 050	75	100MC2891
7,9	8	5/16	14	0,55	215	3110	860	12 470	85	100MC2892
9,5	10	3/8	16,4	0,65	180	2610	720	10 440	90	100MC2893
12,7	12	1/2	19,5	0,77	160	2320	640	9280	130	100MC2894

HYDRAULIC HOSES: TYPE 2SC EN 857



Construction:
- Core tube: oil-resistant synthetic rubber
- Inner tube: two braided layers of high-tensile steel wire
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Medium-pressure hydraulic applications
Please indicate reference + length in metres

Inside Ø			Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	DN	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
6,4	6	1/4	13,6	0,54	400	5800	1600	23 200	75	100MC2895
7,9	8	5/16	15,2	0,6	350	5000	1400	20 000	85	100MC2896
9,5	10	3/8	17,5	0,69	330	4800	1320	19 200	90	100MC2897
12,7	12	1/2	20,9	0,82	275	4000	1100	16 000	130	100MC2898

HYDRAULIC HOSES: TYPE SAE100R7



Construction:
- Core tube: polyester elastomer
- Inner tube: braided layer of high-tensile synthetic fibre
- Cover: polyurethane
- Temperature range: –40 °C to 100 °C

Medium-pressure hose suitable for hydraulic applications like earth-moving machinery and forklifts
Please indicate reference + length in metres

Inside Ø		Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
4,8	3/16	10,7	0,42	225	3250	900	13000	19	100MC8203
6,4	1/4	12,6	0,50	210	3000	830	12 000	32	100MC2904
7,9	5/16	14,3	0,56	175	2500	690	10 000	44	100MC2905
9,5	3/8	16,3	0,64	155	2250	620	9000	51	100MC2906
12,7	1/2	20,3	0,80	140	2000	560	8000	76	100MC2907

MEDIUM-PRESSURE HOSES: TYPE SAE100R7 DOUBLE



Construction:
- Core tube: polyester elastomer
- Inner tube: braided layer of high-tensile synthetic fibre
- Cover: polyurethane
- Temperature range: –40 °C to 100 °C

Medium-pressure hose suitable for hydraulic applications like earth-moving machinery and forklifts
Please indicate reference + length in metres

Inside Ø		Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
4,8	3/16	10,7	0,42	225	3250	900	13 000	19	100MC8201
6,4	1/4	12,6	0,50	210	3000	830	12 000	32	100MC2908
7,9	5/16	14,3	0,56	175	2500	690	10 000	44	100MC2909
9,5	3/8	16,3	0,64	155	2250	620	9000	51	100MC2910
12,7	1/2	20,3	0,80	140	2000	560	8000	76	100MC8202

SUCTION AND RETURN LINE – HYDRAULIC HOSES: TYPE SAE100R4



Construction:
- Core tube: synthetic rubber
- Inner tube: multiple layers of fibre spiral and one helical wire
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Suction and return line hose
Please indicate reference + length in metres

Inside Ø		Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
19,1	3/4	32	1,26	20	300	83	1200	127	100MC2899
25,4	1	38	1,5	17	250	70	1000	152	100MC2900
31,8	1 1/4	45	1,77	14	200	55	800	203	100MC2901
38,1	1 1/2	52	2,05	10	150	41	600	254	100MC2902
50,8	2	64	2,52	7	100	28	400	305	100MC2903

HYDRAULIC HOSE: TYPE EN 854 SAE100R6



Construction:
- Core tube: synthetic rubber
- Inner tube: textile fibres
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Low-pressure hydraulic applications
Please indicate reference + length in metres

Inside Ø		Outside Ø		Operating pressure		Min burst pressure		Min bend radius	REF
mm	Inch	mm	Inch	Bar	Psi	Bar	Psi	mm	Per metre
6	1/4	12,7	0,5	28	400	110	1600	64	100MC2911
8	5/16	14,3	0,56	28	400	110	1600	76	100MC2912
10	3/8	15,9	0,63	28	400	110	1600	76	100MC2913
13	1/2	19,8	0,78	28	400	110	1600	102	100MC2914
16	5/8	23	0,91	24	350	97	1400	127	100MC2915
19	3/4	26,9	1,06	21	300	83	1200	152	100MC2916

HYDRAULIC HOSE: TYPE SAE100R9R



Construction:

- Core tube: synthetic rubber
- Inner tube: four high-tensile steel wire spiral layers
- Cover: synthetic rubber
- Temperature range: –40 °C to 100 °C

Multispiral hose for very high pressure
Please indicate reference + length in metres

Inside Ø			Outside Ø		Operating pressure		Min burst pressure	Min bend radius	REF
mm	DN	Inch	mm	Inch	Bar	Psi	Bar	mm	Per metre
6,4	6	1/4	17,2	0,67	450	6525	1800	150	100MC2917
9,5	10	3/8	21,3	0,83	445	6450	1780	180	100MC2918
12,7	12	1/2	23,8	0,94	415	6020	1660	230	100MC2919
15,9	16	5/8	27,7	1,09	350	5075	1400	250	100MC2920
19	19	3/4	31,2	1,22	350	5075	1400	300	100MC2921
25,4	25	1	38,5	1,56	280	4060	1120	340	100MC2922
32,2	32	1 1/4	49,5	1,95	210	3045	840	460	100MC5063

Multi-spiral hose for very high-pressure

STEEL PROTECTIVE COIL SPRINGS



Inside Ø mm	REF Per metre
13	100MC2970
15	100MC2971
17	100MC2972
19	100MC2973
21	100MC2974
23	100MC2975
26	100MC2976
29	100MC2977
33	100MC2978
41	100MC2979
48	100MC2980
54	100MC2981



Inside Ø mm	Wire thickness mm	REF Per metre
14	2	100MC2982
18	2	100MC2983
20	2	100MC2984
23	2	100MC2985
25	2	100MC2986
27	2	100MC2987
27	2,5	100MC2988
30	3	100MC2989
34	3	100MC2990
41	3	100MC2991
48	3	100MC2992
51	3	100MC2993
52	3	100MC2994
54	3	100MC2995



Length: ± 200 mm

Inside Ø mm	REF Per metre
18,5	100MC2996
22,3	100MC2997
25,5	100MC2998
29,3	100MC2999
34,2	100MC3000
42	100MC3001
53,1	100MC3002

PLASTIC PROTECTIVE COIL SLEEVES



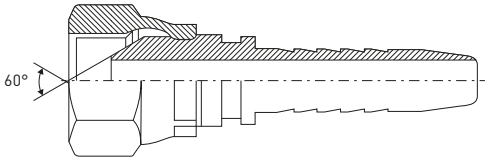
Inside Ø mm	REF Per metre
7	100MC3003
9	100MC3004
13	100MC3005
16	100MC3006
20	100MC3007
25	100MC3008
30	100MC3009
40	100MC3010
50	100MC3011

HYDRAULIC COUPLINGS QUICK-RELEASE BSP

	Male or female	REF			
		3/8"	1/2"	3/4"	1"
	Male	100MC3071	100MC3072	100MC3073	100MC3074
	Female	100MC3076	100MC3077	100MC3078	100MC3079

BC – BSP THREAD





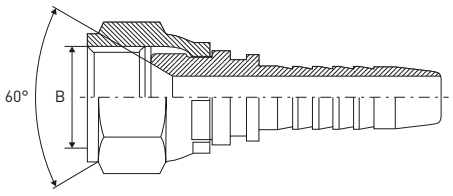
Thread	Hose Inch	REF
1/8"–28	3/16	100MC7746
1/8"–28	1/4	100MC7747
1/4"–19	3/16	100MC7748
1/4"–19	1/4	100MC7749
1/4"–19	5/16	100MC7750
1/4"–19	3/8	100MC7751
3/8"–19	1/4	100MC7752

Thread	Hose Inch	REF
3/8"–19	5/16	100MC7753
3/8"–19	3/8	100MC7754
3/8"–19	1/2	100MC7755
1/2"–14	1/4	100MC7756
1/2"–14	3/8	100MC7757
1/2"–14	1/2	100MC7758
1/2"–14	5/8	100MC7759

Thread	Hose Inch	REF
1/2"–14	3/4	100MC7760
5/8"–14	1/2	100MC7761
5/8"–14	5/8	100MC7762
3/4"–14	1/2	100MC7763
3/4"–14	5/8	100MC7764
3/4"–14	3/4	100MC7765
3/4"–14	1	100MC7766

BJC – FEMALE CONE 60° – BSP THREAD





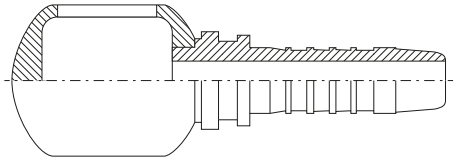
Thread	Hose Inch	REF
1/4"–19	1/4	100MC7767
3/8"–19	3/8	100MC7768
1/2"–14	1/2	100MC7769

Thread	Hose Inch	REF
3/4"–14	3/4	100MC7770
1"–11	1	100MC7771
1 1/4"–11	1 1/4	100MC7772

Thread	Hose Inch	REF
1 1/2"–11	1 1/2	100MC7773

BB – BANJO – BSP THREAD





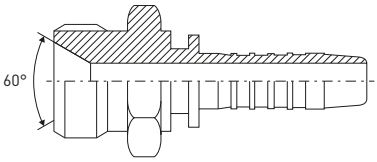
Banjo eye Inch	Hose Inch	REF
1/8	3/16	100MC7774
1/4	1/4	100MC7775
1/4	3/8	100MC7776

Banjo eye Inch	Hose Inch	REF
3/8	5/16	100MC7777
3/8	3/8	100MC7778
1/2	3/8	100MC7779

Banjo eye Inch	Hose Inch	REF
1/2	1/2	100MC7780
5/8	5/8	100MC7781
3/4	3/4	100MC7782

BD – BSP THREAD





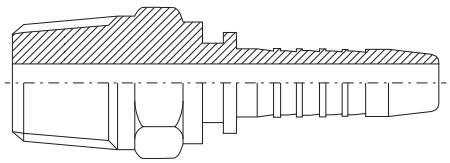
Thread	Hose Inch	REF
1/8"–28	3/16	100MC7783
1/8"–28	1/4	100MC7784
1/4"–19	1/4	100MC7785
1/4"–19	5/16	100MC7786
1/4"–19	3/8	100MC7787
3/8"–19	1/4	100MC7788

Thread	Hose Inch	REF
3/8"–19	5/16	100MC7789
3/8"–19	3/8	100MC7790
3/8"–19	1/2	100MC7791
1/2"–14	3/8	100MC7792
1/2"–14	1/2	100MC7793
1/2"–14	5/8	100MC7794

Thread	Hose Inch	REF
5/8"–14	1/2	100MC7795
5/8"–14	5/8	100MC7796
3/4"–14	5/8	100MC7797
3/4"–14	3/4	100MC7798

BDT – BSP CONICAL THREAD





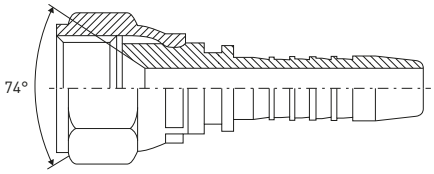
Thread	Hose Inch	REF
1/8"–28	3/16	100MC7799
1/8"–28	1/4	100MC7800
1/4"–19	1/4	100MC7801
1/4"–19	3/8	100MC7802
3/8"–19	1/4	100MC7803

Thread	Hose Inch	REF
3/8"–19	5/16	100MC7804
3/8"–19	3/8	100MC7805
3/8"–19	1/2	100MC7806
1/2"–14	3/8	100MC7807
1/2"–14	1/2	100MC7808

Thread	Hose Inch	REF
5/8"–14	5/8	100MC7809
3/4"–14	5/8	100MC7810
3/4"–14	3/4	100MC7811

JC – 37 JIC





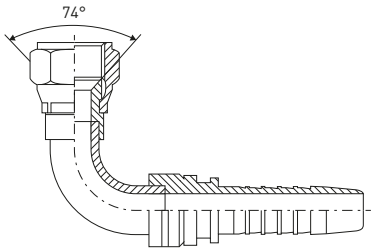
Thread	Hose Inch	REF
7/16"–20	3/16	100MC7812
7/16"–20	1/4	100MC7813
1/2"–20	1/4	100MC7814
1/2"–20	5/16	100MC7815
1/2"–20	3/8	100MC7816
9/16"–18	1/4	100MC7817

Thread	Hose Inch	REF
9/16"–18	5/16	100MC7818
9/16"–18	3/8	100MC7819
9/16"–18	1/2	100MC7820
3/4"–16	5/16	100MC7821
3/4"–16	3/8	100MC7822
3/4"–16	1/2	100MC7823

Thread	Hose Inch	REF
3/4"–16	5/8	100MC7824
7/8"–14	3/8	100MC7825
7/8"–14	1/2	100MC7826
7/8"–14	5/8	100MC7827
7/8"–14	3/4	100MC7828

JC90S – 37 JIC





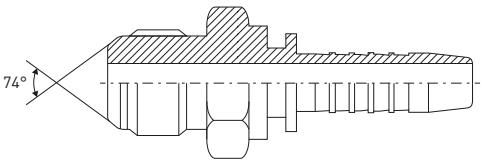
Thread	Hose Inch	REF
7/16"–20	1/4	100MC7829
1/2"–20	1/4	100MC7830
1/2"–20	5/16	100MC7831
1/2"–20	3/8	100MC7832

Thread	Hose Inch	REF
9/16"–18	1/4	100MC7833
9/16"–18	5/16	100MC7834
9/16"–18	3/8	100MC7835
3/4"–16	3/8	100MC7836

Thread	Hose Inch	REF
3/4"–16	1/2	100MC7837
7/8"–14	5/8	100MC7838
7/8"–14	3/8	100MC7839
7/8"–14	1/2	100MC7840

JCM – 37 JIC





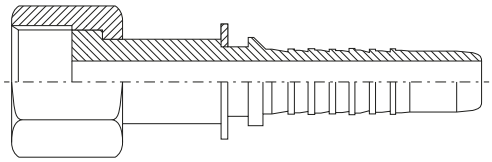
Thread	Hose Inch	REF
7/16"–20	1/4	100MC7841
1/2"–20	1/4	100MC7842
1/2"–20	3/8	100MC7843
9/16"–18	1/4	100MC7844

Thread	Hose Inch	REF
9/16"–18	5/16	100MC7845
9/16"–18	3/8	100MC7846
3/4"–16	3/8	100MC7847
3/4"–16	1/2	100MC7848

Thread	Hose Inch	REF
7/8"–14	1/2	100MC7849
7/8"–14	5/8	100MC7850

LRF – UNF FLAT SEAT





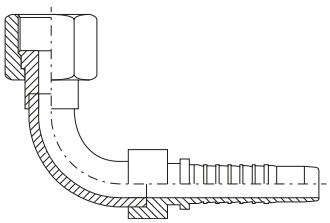
Thread	Hose Inch	REF
9/16"–18	1/4	100MC7851
11/16"–16	1/4	100MC7852
11/16"–16	5/16	100MC7853

Thread	Hose Inch	REF
11/16"–16	3/8	100MC7854
11/16"–16	3/8	100MC7855
11/16"–16	1/2	100MC7856

Thread	Hose Inch	REF
1"–14	5/8	100MC7857

LRF90S – UNF FLAT SEAT





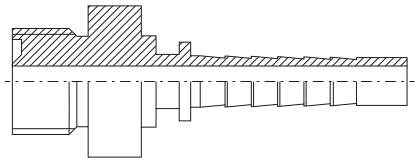
Thread	Hose Inch	REF
9/16"–18	1/4	100MC7858
11/16"–16	5/16	100MC7859

Thread	Hose Inch	REF
11/16"–16	3/8	100MC7860
13/16"–16	1/2	100MC7861

Thread	Hose Inch	REF
1"–14	5/8	100MC7862

ORM – UNF FLAT SEAT WITH O-RING



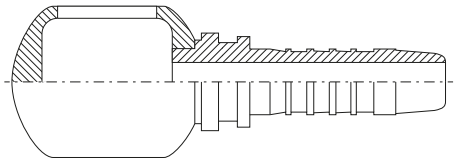


Thread	Hose Inch	REF
9/16"–18	1/4	100MC7946
11/16"–16	3/8	100MC7947

Thread	Hose Inch	REF
13/16"–16	1/2	100MC7948
1 3/16"–12	3/4	100MC7949

MBN – METRIC BANJO BOLT





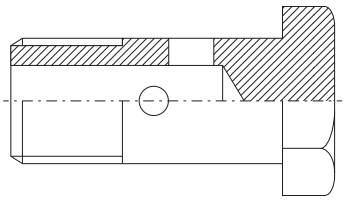
Eye mm	Hose Inch	REF
10	3/16	100MC7886
10	1/4	100MC7887
12	1/4	100MC7888
14	1/4	100MC7889

Eye mm	Hose Inch	REF
14	5/16	100MC7890
16	5/16	100MC7891
16	3/8	100MC7892
18	3/8	100MC7893

Eye mm	Hose Inch	REF
18	1/2	100MC7894
22	1/2	100MC7895

MBG – BSP BANJO BOLT





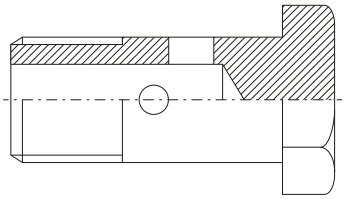
Thread	REF
1/8"–28	100MC7896
1/4"–19	100MC7897

Thread	REF
3/8"–19	100MC7898
1/2"–14	100MC7899

Thread	REF
5/8"–14	100MC7900
3/4"–14	100MC7901

MBG – METRIC BANJO BOLT





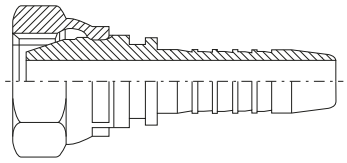
Thread	REF
M10 x 1,5	100MC7902
M12 x 1,5	100MC7903
M14 x 1,5	100MC7904

Thread	REF
M16 x 1,5	100MC7905
M18 x 1,5	100MC7906
M22 x 1,5	100MC7907

Thread	REF
M26 x 1,5	100MC7908

MSFO – METRIC O-RING





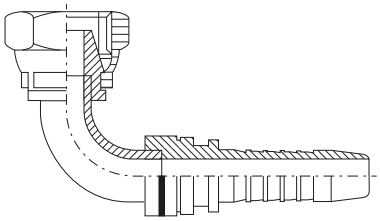
Tube mm	Thread	Hose Inch	REF
6	M12 x 1,5	3/16	100MC7909
6	M12 x 1,5	1/4	100MC7910
6	M14 x 1,5	1/4	100MC7911
8	M14 x 1,5	1/4	100MC7912
8	M16 x 1,5	3/16	100MC7913
8	M16 x 1,5	1/4	100MC7914
10	M16 x 1,5	1/4	100MC7915

Tube mm	Thread	Hose Inch	REF
10	M16 x 1,5	5/16	100MC7916
10	M16 x 1,5	3/8	100MC7917
10	M18 x 1,5	1/4	100MC7918
10	M18 x 1,5	3/8	100MC7919
12	M18 x 1,5	5/16	100MC7920
12	M18 x 1,5	3/8	100MC7921
12	M20 x 1,5	5/16	100MC7922

Tube mm	Thread	Hose Inch	REF
12	M20 x 1,5	3/8	100MC7923
14	M22 x 1,5	3/8	100MC7924
14	M22 x 1,5	1/2	100MC7925
15	M22 x 1,5	1/2	100MC7926
16	M24 x 1,5	1/2	100MC7927
18	M26 x 1,5	1/2	100MC7928
18	M26 x 1,5	5/8	100MC7929

MSFO – 90S METRIC O-RING





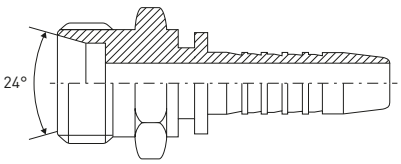
Tube mm	Thread	Hose Inch	REF
6	M12 x 1,5	3/16	100MC7930
6	M12 x 1,5	1/4	100MC7931
8	M14 x 1,5	1/4	100MC7932
8	M16 x 1,5	3/16	100MC7933
8	M16 x 1,5	1/4	100MC7934
10	M16 x 1,5	1/4	100MC7935

Tube mm	Thread	Hose Inch	REF
10	M16 x 1,5	5/16	100MC7936
10	M16 x 1,5	3/8	100MC7937
10	M18 x 1,5	1/4	100MC7938
12	M18 x 1,5	3/8	100MC7939
12	M20 x 1,5	5/16	100MC7940
12	M20 x 1,5	3/8	100MC7941

Tube mm	Thread	Hose Inch	REF
14	M22 x 1,5	3/8	100MC7942
15	M22 x 1,5	1/2	100MC7943
16	M24 x 1,5	1/2	100MC7944
18	M26 x 1,5	5/8	100MC7945

ME





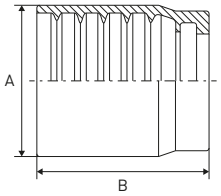
Tube mm	Thread	Hose Inch	REF
6	M12 x 1,5	3/16	100MC7863
6	M12 x 1,5	1/4	100MC7864
6	M14 x 1,5	1/4	100MC7865
8	M14 x 1,5	1/4	100MC7866
8	M16 x 1,5	3/16	100MC7867
8	M16 x 1,5	1/4	100MC7868
8	M16 x 1,5	3/8	100MC7869
10	M16 x 1,5	1/4	100MC7870

Tube mm	Thread	Hose Inch	REF
10	M16 x 1,5	5/16	100MC7871
10	M16 x 1,5	3/8	100MC7872
10	M18 x 1,5	1/4	100MC7873
10	M18 x 1,5	3/8	100MC7874
12	M18 x 1,5	5/16	100MC7875
12	M18 x 1,5	3/8	100MC7876
12	M20 x 1,5	5/16	100MC7877
12	M20 x 1,5	3/8	100MC7878

Tube mm	Thread	Hose Inch	REF
14	M22 x 1,5	3/8	100MC7879
14	M22 x 1,5	1/2	100MC7880
15	M22 x 1,5	3/8	100MC7881
15	M22 x 1,5	1/2	100MC7882
16	M24 x 1,5	1/2	100MC7883
18	M26 x 1,5	1/2	100MC7884
18	M26 x 1,5	5/8	100MC7885

R1/2 AT – 1SN/2SN – COMPACT 1SC/2SC – FITTING NON-SKIVED HOSE





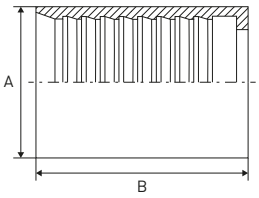
Inch	A mm	B mm	REF
3/16	20,0	21,0	100MC7950
1/4	23,0	29,6	100MC7951
5/16	24,0	30,5	100MC7952

Inch	A mm	B mm	REF
3/8	26,0	31,2	100MC7953
1/2	29,7	33,5	100MC7954
5/8	33,0	36,0	100MC7955

Inch	A mm	B mm	REF
3/4	37,0	40,0	100MC7956

SAE100R7 – THERMOPLASTIC HOSE FITTING





Inch	A mm	B mm	REF
3/16	14,5	25,5	100MC7957
1/4	16,6	32,5	100MC7958

Inch	A mm	B mm	REF
5/16			100MC7959
3/8	21,0	32,0	100MC7960

Inch	A mm	B mm	REF
1/2	24,6	36,5	100MC7961
3/4	30,1	44,5	100MC7962

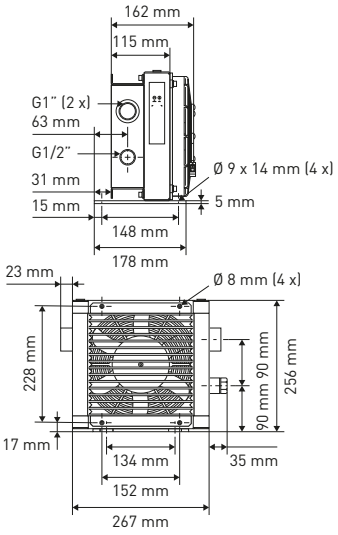
PROTECTIVE COVERS



See **MyProductSearch** for all measurements

OIL COOLER



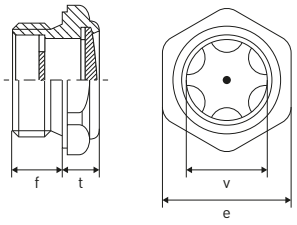


- 25 l/min to 120 l/min
- Including thermocontact to 47 °C
- Operating pressure: 10 bar
- Max pressure: 14 bar

REF 100MC3080 – Voltage: 12 VDC
REF 100MC3081 – Voltage: 24 VDC

VISUAL LEVEL INDICATORS

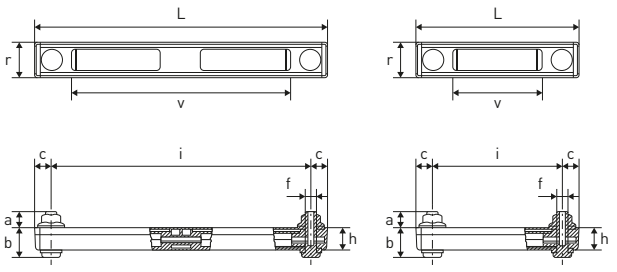




Thread	f mm	t mm	v mm	e mm	REF
G3/8"	10,5	7	13	22	100MC3082
G1/2"	11	9	16	27	100MC3083
G3/4"	12	9	21	32	100MC3084
G1"	15,5	10	27	40	100MC3085
G1 3/4"	15	10	37	50	100MC3086
M33 x 2	15,5	10	27	40	100MC3087

VERTICAL LEVEL INDICATORS





L mm	r mm	v mm	c mm	i mm	f	h mm	a mm	b mm	REF
109	34	37	16,5	76	M10	21,5	11	29	100MC3088
109	34	37	16,5	76	M12	21,5	11	29	100MC3089
160	34	88	16,5	127	M10	21,5	16	29	100MC3090
160	34	88	16,5	127	M12	21,5	16	29	100MC3091

ANALOGUE PRESSURE GAUGES



- Pressure gauges for oil
- Connection: 1/4" BSP
- Case: Ø 63 mm
- Stainless steel
- Filled with glycerine

Bar	Psi	REF
0–1	0–15	100MC2812
0–1.6	0–23	100MC2813
0–2.5	0–35	100MC2814
–1–3	–1–40	100MC2815
0–4	0–60	100MC2816
0–6	0–80	100MC2817
0–10	0–150	100MC2818
0–16	0–230	100MC2819
0–25	0–350	100MC2820
0–40	0–600	100MC2821
0–60	0–850	100MC2822
0–100	0–1500	100MC2823
0–160	0–2300	100MC2824
0–250	0–3600	100MC2825
0–400	0–5800	100MC2826
0–600	0–8450	100MC2827

Connection on the bottom

ANALOGUE PRESSURE GAUGES



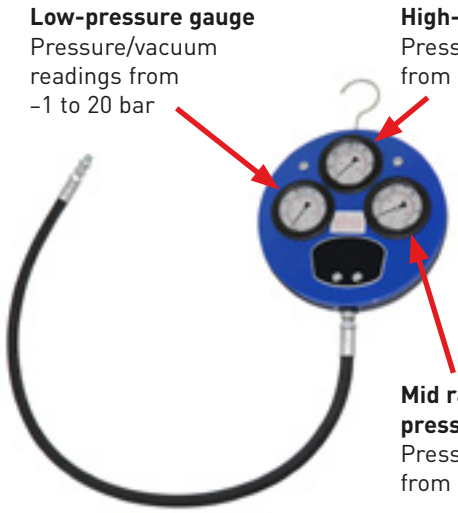


- Pressure gauges for oil
- Connection: 1/4" BSP
- Case: Ø 63 mm
- Stainless steel
- Filled with glycerine

Bar	Psi	REF
–1–3	–1–40	100MC2828
0–6	0–80	100MC2829
0–10	0–150	100MC2830
0–16	0–230	100MC2831
0–25	0–350	100MC2832
0–40	0–600	100MC2833
0–60	0–850	100MC2834
0–100	0–1500	100MC2835
0–160	0–2300	100MC2836
0–250	0–3600	100MC2837
0–400	0–5800	100MC2838
0–600	0–8450	100MC2839

Connection on the back

ANALOGUE PRESSURE GAUGES



Multi-pressure tester

Pressure testing device for hydraulic, air and vacuum systems.

Technical information:

- Glycerine-filled gauge for a safe readout
- Built-in valve protects device against high pressures
- Readings in psi (pounds/inch²) or bar (kgf/cm²)
- Dust- and moisture-resistant
- Compact, provided with a 90 cm flexible hose
- 1/8" NPTF connection
- Compatible with most hydraulic fluids

REF 100MC2840

ACCESSORIES FOR ANALOGUE PRESSURE GAUGES



Pressure gauge support to connect the pressure gauge to a wall (for gauges Ø 63 mm)

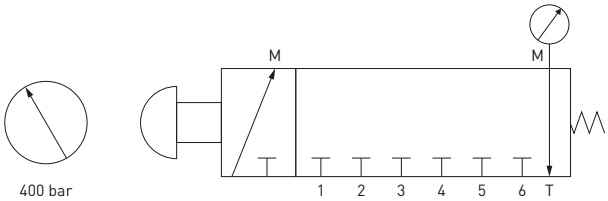
REF 100MC5064



Rubber protection for Ø 63 mm pressure gauges (blue)

REF 100MC2842





Pressure gauge selector

- Connections: 6 x P
- Bar: 400
- Thread: 1/4"
- M BSPP: G1/4"
- P BSPP: G1/4"
- T BSPP: G1/4"

- For reading 6 pressures without permanent pressure on pressure gauge
- Prevents damage to pressure gauge caused by peak pressures
- Extends the life of the gauge considerably

REF 100MC2843

TEFLON TAPE



- Width: 12 mm
- Length: 12 m
- 75 microns

REF 100MC5075

DIGITAL PRESSURE GAUGES



- Digital pressure gauge with pressure peak display
- Accuracy typ 0,5% FS (full scale)
- Capturing pressure peaks
- Easy operation, robust and reliable
- Battery life time cycle 1500 hours

Bar	Psi	REF
0–100	0–1500	100MC2844
0–400	0–5800	100MC2845
0–600	0–8750	100MC2846



The kit is the ideal tool for every application in service, maintenance and repair of hydraulic systems.
Depending on the pressure ranges you can choose between 3 versions.
This kit is delivered in a durable case.

The kit can be used for quick and reliable troubleshooting.

Kits contains:
- 1 digital pressure gauge
- 1 test hose 1,5 m

Bar	Psi	REF
0–100	0–1500	100MC2847
0–400	0–5800	100MC2848
0–600	0–8750	100MC2849

Kit

DIAGNOSTIC SERVICE KITS



Basic pressure measuring kit

This kit contains the most basic components to diagnose the hydraulics.
Packed in a durable case.

Contents:
- 1 pressure gauge 0–40 bar (0–600 psi)
- 1 pressure gauge 0–400 bar (0–6000 psi)
- 1 test point: 1/8" BSP
- 1 test point: 1/4" BSP
- 1 test hose: 2 m
- 1 coupling: 1/4" BSP -> 3/8" BSP
- 1 coupling: 1/4" BSP -> M18

REF 100MC2850



General pressure measuring kit

This diagnostic service case has all the general components to diagnose the hydraulics on your machine.

Contents:
- 1 digital pressure gauge 0–600 bar
- 1 test hose 1,5 m
- 11 test couplings in metric, BSP and UNF thread
- Case included

REF 100MC2851



Pressure measuring kit

This diagnostic service case has all the required components to diagnose the hydraulics on your machine.
Used for general diagnostics on LINDE machines.

Contents:
- 0–60 bar range
- All these items are included in a very durable ABS case
- Test points in various dimensions: M8 – M10 – M12 – M14 with adapters included to fit inside your machine
- Test hoses in different lengths: 1 hose with length 1,5 m and 2 hoses of 1 m each
- Hose caps in various dimensions to diagnose your piston pump
- Analogue pressure gauges with different ranges:
  1 pressure gauge with a 0–600 bar range and 2 pressure gauges with a 0–60 bar range

REF 100MC2852

Other test points, test hoses and pressure gauges are available from stock. Please contact the sales department.

DIAGNOSTIC SERVICE KIT



Universal accumulator pressure control kit

This kit enables you to check or to change the pressure of a hydraulic accumulator. Discharging the accumulator is also possible with this kit.
Compatible with all hydraulic accumulator connections.
All this comes in a durable, lightweight case.

Contents:
- Charging valve
- 1 gauge 0–25 bar
- 1 gauge 0–250 bar
- 5 most used accumulator connections (3/4" BSP; M16 x 2; M28 x 1,5; 5/8" UNF; 7/8" UNF)
- Adapters to connect French and German nitrogen bottles
- 2,5 m hose to connect the valve to bottle

REF 100MC2853

HYDRAULIC FLOW INDICATORS



Basic flow indicators

These in-line flow indicators are designed for trouble-shooting the hydraulics of the machine. They can be mounted in any orientation and are weatherproof for outside use. Pressure up to 240 bar (3500 psi) is acceptable. Operating temperatures may not exceed 110 °C (240 °F)

Ports	Flow range	REF
1/2" BSP	2–18 l/min (0,5–5 US gpm)	100MC2854
3/4" BSP	12–113 l/min (3–30 US gpm)	100MC2855



Flow and temperature indicator

This indicator can measure flow and temperature of your hydraulic system.

Technical specifications:
- Flow range: 10 to 200 l/min (0–50 US gpm)
- Pressures up to 280 bar (4000 psi)
- Temperature: up to 110 °C (230 °F)
- 1 1/2" BSP port size
- Possibility to connect a pressure gauge with Minimess

REF 100MC2856

HYDRAULIC FLOW INDICATORS



Flow indicator with loading valve to 120 l/min

This indicator can measure flow, temperature and pressure of your hydraulic system in both directions.

Technical specifications:
- Flow range: 5 to 120 l/min (1,3–32 US gpm)
- Pressures up to 420 bar (6000 psi)
- Temperature: up to 110 °C (230 °F)
- 1" BSP port size

REF 100MC2857



Flow indicator with loading valve to 200 l/min

This indicator can measure flow, temperature and pressure of your hydraulic system in both directions.

Technical specifications:
- Flow range: 10 to 200 l/min (2,5–54 US gpm)
- Pressure: 0–420 bar (6000 psi)
- Temperature: up to 110 °C (230 °F)
- 1" BSP port size

REF 100MC2869



Digital hydraulic tester

This hydraulic tester shows the flow and temperature digitally with the push of a button.
The pressure is shown analogous. It comes with a built-in loading valve, which enables you to test the system. The tester can be used in both directions which simplifies the testing. The device is robust, portable and lightweight.
The tester is protected by a very durable steel case.

Technical specifications:
- Flow range: 10–400 lpm (2,5–100 US gpm)
- Pressure: 0–420 bar (6000 psi)
- Temperature: up to 120 °C (250 °F)
- 1" BSP port size

REF 100MC2868

Please contact the sales division if you are interested in a more heavy-duty version.

MINIMESS SYSTEM



Minimess test couplings M16 x 2 system

Dimensions	REF
M10 x 1	100MC2858
M12 x 1,5	100MC2859
M14 x 1,5	100MC2860
M16 x 1,5	100MC2861
1/8" BSP	100MC2862
1/4" BSP	100MC2863
3/8" BSP	100MC2864
7/16" UNF	100MC2865
9/16" UNF	100MC2866
3/8" UNF	100MC2867

DIRECT GAUGE ADAPTER



REF 100MC2870

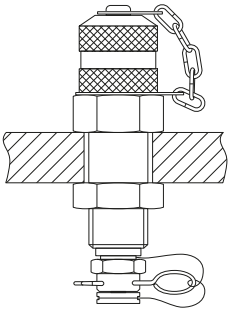
PLUG-IN SYSTEM



Dimensions	REF
M8	100MC2876
M10	100MC2877

CONVERTER ADAPTER





M16 x 2 system <-> plug-in system

REF 100MC2878

TEST HOSES



Hydraulic test hose M16 x 2 system max pressure (630 bar)

Dimensions	Length m	REF
M16 x 2 – M16 x 2	1	100MC2871
M16 x 2 – M16 x 2	1,5	100MC2872
M16 x 2 – M16 x 2	2	100MC2873

Other lengths and connectors also available.
Please contact your sales advisor.



Test hose coupler

Max pressure 630 bar

Technical specifications:
2 ends M16 x 2

REF 100MC2874



Test hose coupler

Max pressure 630 bar

Technical spcifications:
- Gauge side: 1/4" BSP
- Test hose side: M16 x 2

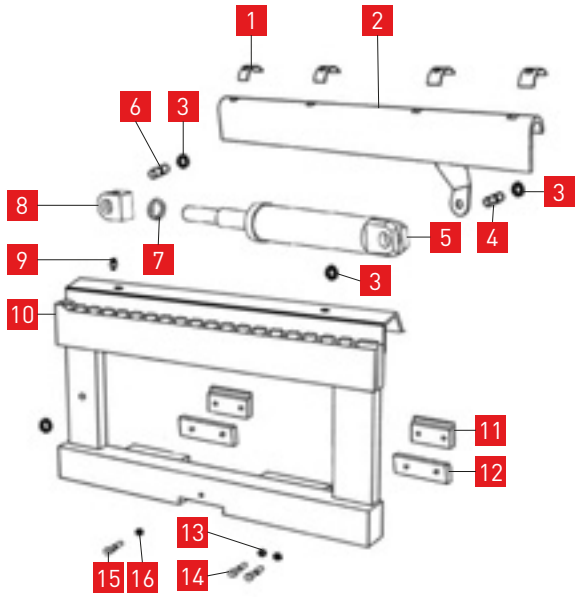
REF 100MC2875

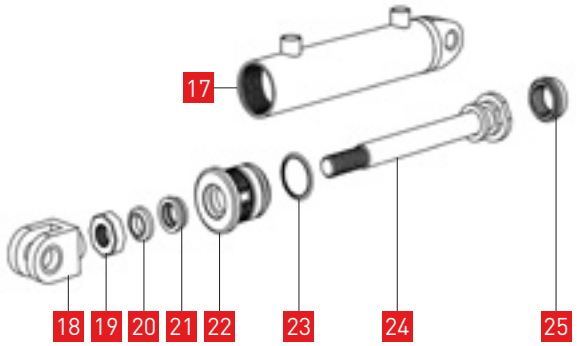
NOTES



MASTS & BOOMS

SPARE PARTS FOR SIDESHIFTER ATIB 108.25
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG

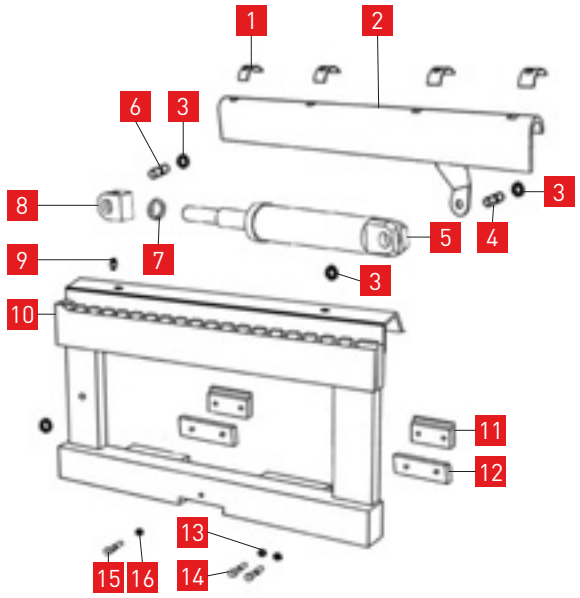


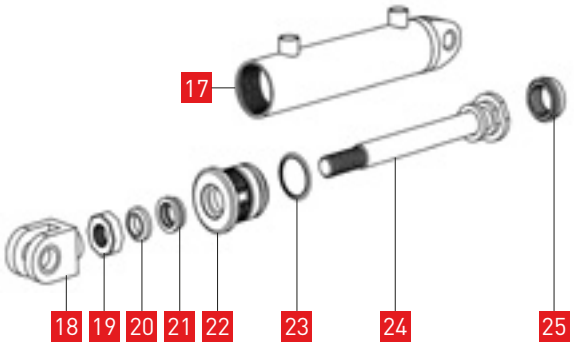


Type: 03GFA2C3002–03GFA2C3028

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing	4	Material: nylon	100MC9011
1	Upper bearing	4	Material: brass	100MC9012
2	Cylinder support			Not available
3	Snap ring	4		100MC9013
4	Pin	1		100MC9014
5	Cylinder	1	See cylinder section	100MC9015
6	Pin	1		100MC9016
7	Nut	1		100MC9017
8	Cylinder bracket	1		100MC9018
9	Grease nipple	2		100MC9019
10	Frame			Not available
11	Hook***	2		100MC9020
12	Lower bearing*	2	Material: nylon	100MC9021
12	Lower bearing**	2	Material: brass	100MC9022
13	Washer***	4		100MC9023
14	Bolt***	4		100MC9024
15	Bolt	1		100MC9025
16	Washer	1		100MC9026
*	Bearing kit for sideshifter (incl 1 (4x) & 12 (2x))	1	Material: nylon	100MC9027
**	Bearing kit for sideshifter (incl 1 (4x) & 12)	1	Material: brass	100MC9028
***	Hook kit for sideshifter (incl 11 (1x), 13 (2x) & 14 (2x))	2	Set for 1 hook	100MC9029
Cylinder of sideshifter				
	Cylinder complete	1	Stroke: 200 mm	100MC9015
17	Tube	1		100MC9030
18	Bracket	1		100MC9031
19	Nut	1		100MC9032
20	Wiper ring*	1		Included in seal kit
21	Seal*	1		Included in seal kit
22	Cylinder rod guide	1		100MC9033
23	Seal*	1		Included in seal kit
24	Cylinder rod	1		100MC9034
25	Piston seal*	1		Included in seal kit
*	Seal kit (incl 20 (1x), 21 (1x), 23 (1x) & 25 (1x))	1		100MC9035

SPARE PARTS FOR SIDESHIFTER ATIB 108.50
SLIDING PIECES VERSION, FEM 3, CAPACITY: 5000 KG

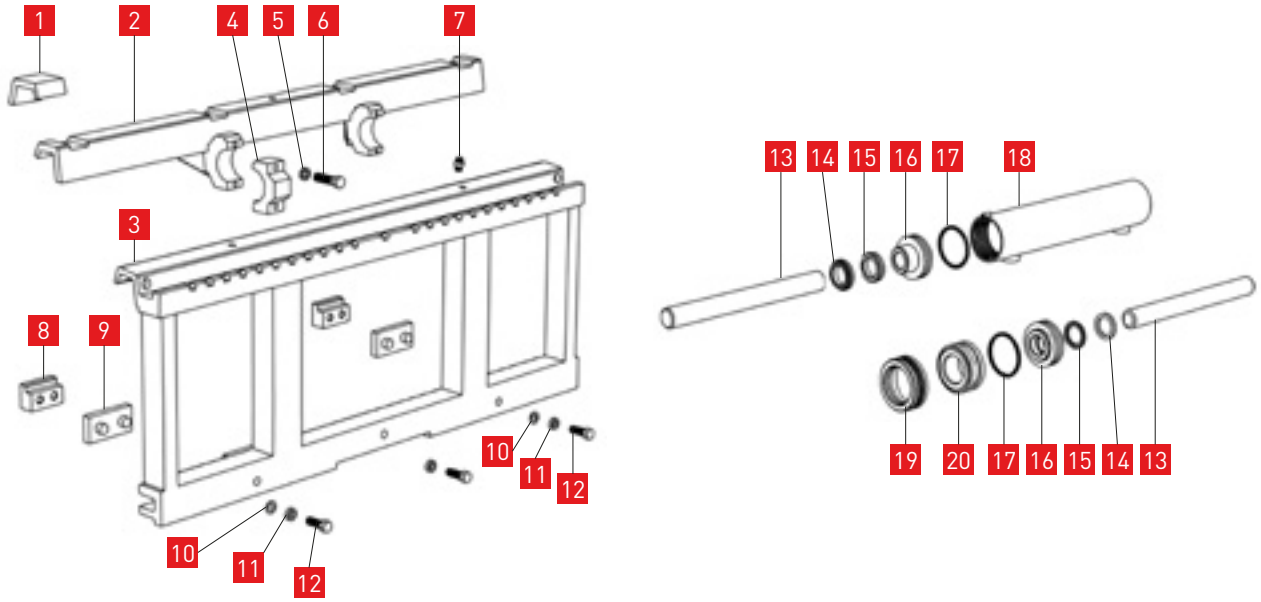




Type: 03GLL3C3003–03GLL3C3020

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing	4	Material: nylon	100MC9036
1	Upper bearing	4	Material: brass	100MC9037
2	Frame	1		Not available
3	Snap ring	4		100MC9038
4	Pin	1		100MC9039
5	Cylinder	1	See cylinder section	100MC9040
6	Pin	1		100MC9041
7	Bush	1		100MC9042
8	Cylinder bracket	1		100MC9043
9	Grease nipple	2		100MC9019
10	Frame	1		Not available
11	Hook***	2		100MC9044
12	Lower bearing*	2	Material: nylon	100MC9021
12	Lower bearing**	2	Material: brass	100MC9022
13	Washer***	4		100MC9023
14	Bolt***	4		100MC9045
15	Bolt	1		100MC4525
16	Washer	1		100MC9046
*	Bearing kit for sideshifter (incl 1 (4x) & 12 (2x))	1	Material: nylon	100MC9047
**	Bearing kit for sideshifter (incl 1 (4x) & 12)	1	Material: brass	100MC9048
***	Hook kit for sideshifter (incl 11 (1x), 13 (2x) & 14 (2x))	2	Set for 1 hook	100MC9049
Cylinder of sideshifter				
	Cylinder complete	1	Stroke: 200 mm	100MC9050
17	Tube	1		100MC9051
18	Bracket	1		100MC9052
19	Nut	1		100MC9042
20	Wiper ring*	1		Included in seal kit
21	Seal*	1		Included in seal kit
22	Cylinder rod guide	1		100MC9053
23	Seal*	1		Included in seal kit
24	Cylinder rod	1		100MC9054
25	Piston seal*	1		Included in seal kit
*	Seal kit (incl 20 (1x), 21 (1x), 23 (1x) & 25 (1x))	1		100MC9055

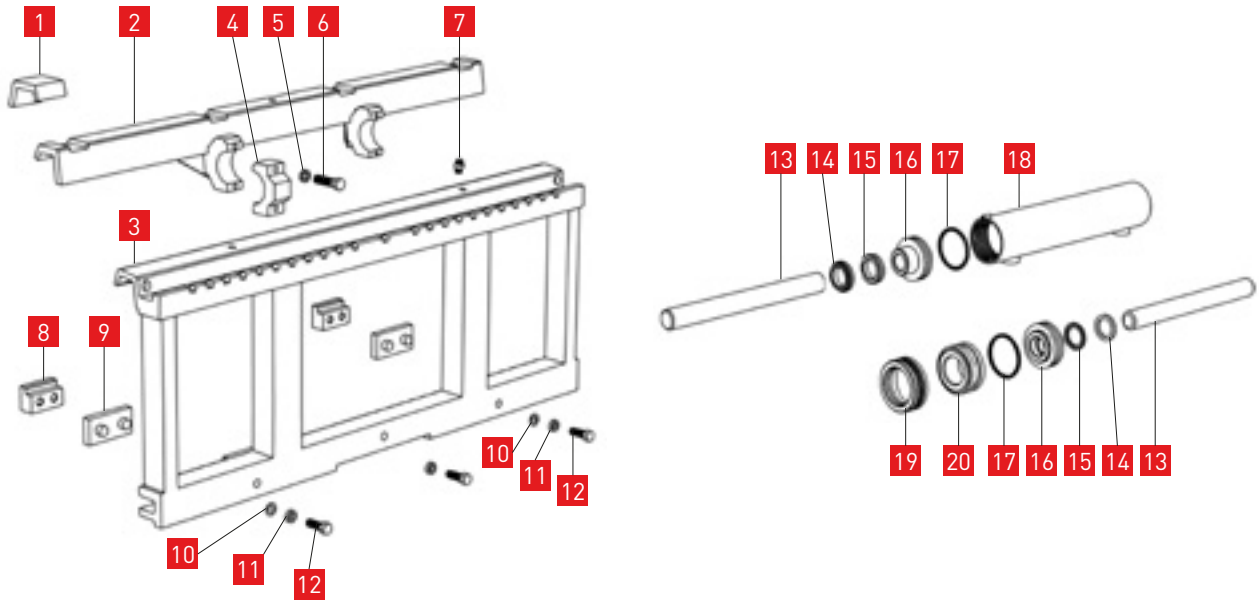
SPARE PARTS FOR SIDESHIFTER ATIB 109.25
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG



Type: 03HFA2C3002–03HFA2C3028

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	4	Material: nylon	100MC9011
1	Upper bearing**	4	Material: brass	100MC9012
2	Cylinder support	1	On request, give serial n°	Not available
3	Frame	1	On request, give serial n°	Not available
4	Bracket	2		100MC9056
5	Washer	4		100MC9057
6	Bolt	4		100MC9058
7	Grease nipple	2		100MC9019
8	Lower hook***	2		100MC9020
9	Lower bearing*	2	Material: nylon	100MC9021
9	Lower bearing**	2	Material: brass	100MC9022
10	Washer***	4		100MC9059
11	Washer***	4		100MC9060
12	Bolt***	4		100MC9061
*	Bearing kit for sideshifter (incl 1 (4x) & 9 (2x))	1	Material: nylon	100MC9027
**	Bearing kit for sideshifter (incl 1 (4x) & 9 (2x))	1	Material: brass	100MC9062
***	Hook kit for sideshifter (incl 8 (2x), 10 (2x), 11 (2x) & 12 (2x))	2	Set for 1 hook	100MC9063
Cylinder of sideshifter				
	Cylinder assembly	1	Stroke: 200 mm	100MC9064
13	Cylinder rod	2		100MC9065
14	Wiper ring*	2		Included in seal kit
15	Seal*	2		Included in seal kit
16	Plug	2		100MC9068
17	O-ring*	2		Included in seal kit
18	Tube	1		100MC9070
19	Gasket set*	1		Included in seal kit
20	Piston	1		100MC9072
*	Seal kit (incl 14 (2x), 15 (2x), 17 (2x) & 19 (1x))	1		100MC9073

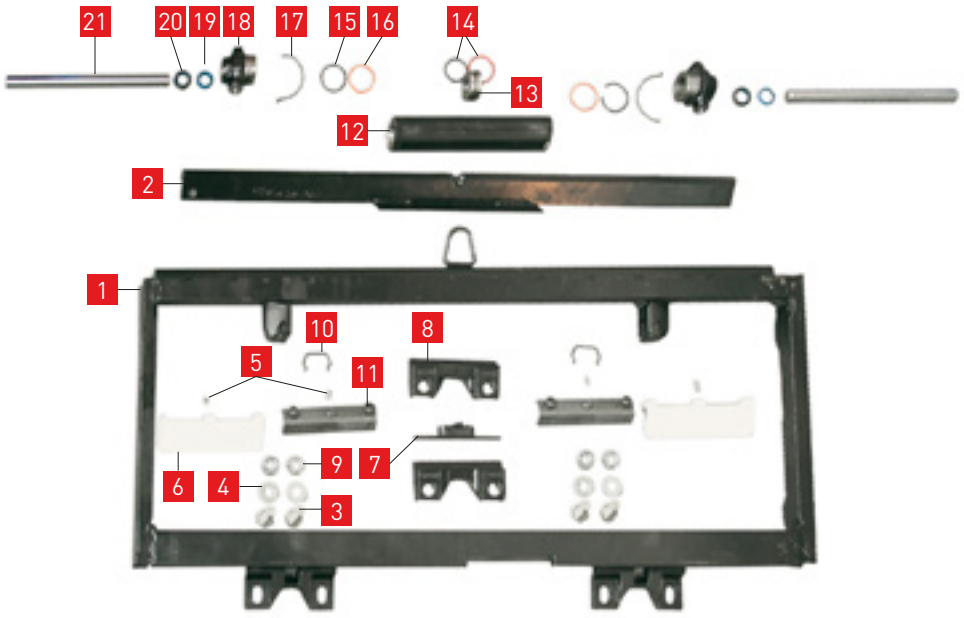
SPARE PARTS FOR SIDESHIFTER ATIB 109.50
SLIDING PIECES VERSION, FEM 3, CAPACITY: 5000 KG



Type: 03HLL3C003–03HLL3C3020

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	4	Material: nylon	100MC9036
1	Upper bearing**	4	Material: brass	100MC9037
2	Cylinder support	1	On request, give serial n°	Not available
3	Frame	1	On request, give serial n°	Not available
4	Bracket	2		100MC9074
5	Washer	4		100MC9057
6	Bolt	4		100MC9075
7	Grease nipple	2		100MC9019
8	Hook***	2		100MC9044
9	Lower bearing*	2	Material: nylon	100MC9021
9	Lower bearing**	2	Material: brass	100MC9022
10	Washer***	4		100MC9076
11	Washer***	4		100MC9077
12	Bolt***	4		100MC9078
*	Bearing kit for sideshifter (incl 1 (4x) & 9 (2x))	1	Material: nylon	100MC9047
**	Bearing kit for sideshifter (incl 1 (4x) & 9 (2x))	1	Material: brass	100MC9079
***	Hook kit for sideshifter (incl 8 (2x), 10 (2x), 11 (2x) & 12 (2x))	2	Set for 1 hook	100MC9080
Cylinder of sideshifter				
	Cylinder assembly	1	Stroke: 200 mm	100MC9081
13	Cylinder rod	2		100MC9082
14	Wiper ring*	2		Included in seal kit
15	Seal*	2		Included in seal kit
16	Plug	2		100MC9085
17	O-ring*	2		Included in seal kit
18	Tube	1		100MC9087
19	Gasket set*	1		Included in seal kit
20	Piston	1		100MC9089
	Seal kit (incl 14 (2x), 15 (2x), 17 (2x) & 19 (1x))	1		100MC9090

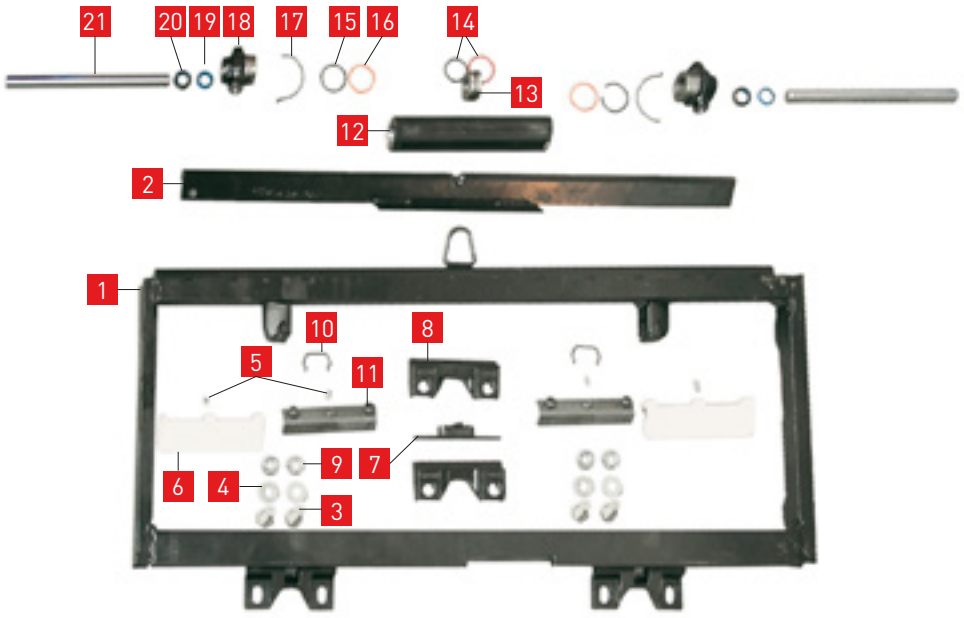
SPARE PARTS FOR SIDESHIFTER BOLZONI FEM 2, CAPACITY: 2500 KG



Type: HN25-HN4/HN4 800–HN4 1550

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Cylinder support	1	Width of sideshifter: 800–900 mm	100MC9091
2	Cylinder support	1	Width of sideshifter: 901–1020 mm	100MC9092
2	Cylinder support	1	Width of sideshifter: 1021–1100 mm	100MC9093
2	Cylinder support	1	Width of sideshifter: 1101–1600 mm	100MC9094
3	Screw**	4		100MC9095
4	Washer**	4		100MC9096
5	Grease nipple*	4		100MC9097
6	Lower pad*	2		100MC9098
7	Lower hook pad*	2		100MC9099
8	Lower hook*	2		100MC9100
9	Self-locking nut**	4		100MC9101
10	Split pin	2		100MC9102
11	Upper pad*	2		100MC9103
12	Cylinder body***/****	1		100MC4480
13	Piston***/****	1		100MC4478
14	Seal***/****	1		100MC9104
15	Seal***/****	1		100MC9105
16	Seal***/****	2		100MC9106
17	Cylinder cup link***/****	2		100MC4465
18	Cap metric version***	2		100MC9107
18	Cap JIC version****	2		100MC9108
19	Seal****	2		100MC9109
20	Scraper***/****	2		100MC9110
21	Rod***/****	2		100MC4471
	Seal complete***/****	1		100MC4483
*	Bearing kit (incl 5 (4x), 6 (2x), 7 (2x) & 11 (2x))	1		100MC9111
**	Hook kit (complete for 1 hook, incl 3 (2x), 4 (2x), 8 (1x) & 9 (2x))	2	Set for 1 hook	100MC9112
***	Cylinder complete with metric thread connection (incl 12–18 & 20–22)	1		100MC9113
****	Cylinder complete with JIC thread connection (incl 12–17 & 19–22)	1		100MC9114

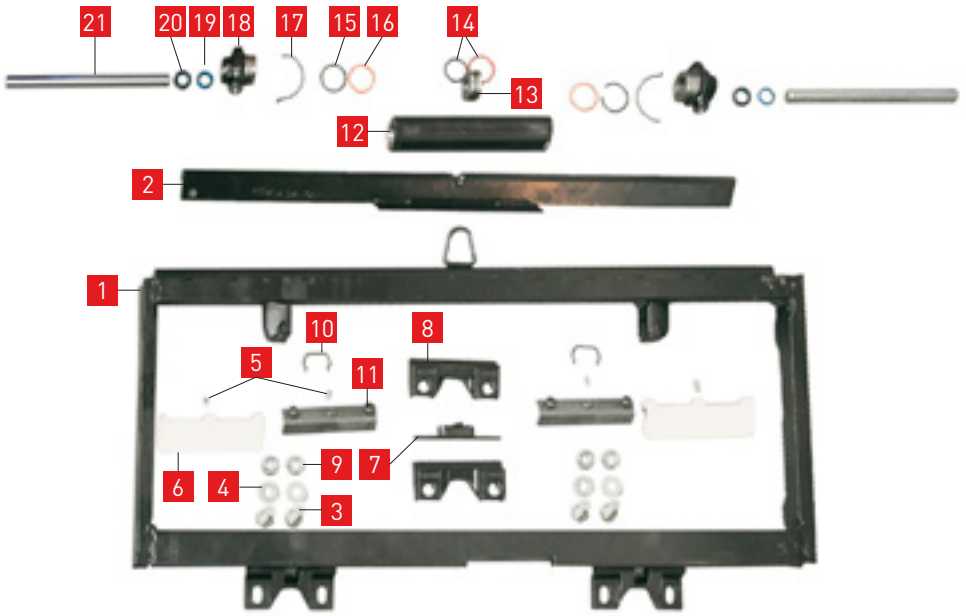
SPARE PARTS FOR SIDESHIFTER BOLZONI FEM 3, CAPACITY: 3500 KG



Type: HN35-HN5/HN5 1100–HN5 1350

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Cylinder support	1	Width of sideshifter: 900–1019 mm	100MC9115
2	Cylinder support	1	Width of sideshifter: 1020–1150 mm	100MC9116
2	Cylinder support	1	Width of sideshifter: 1151–1350 mm	100MC9117
3	Screw**	4		100MC9118
4	Washer**	4		100MC9119
5	Grease nipple*	4		100MC9097
6	Lower pad*	2		100MC9120
7	Lower hook pad*	2		100MC9121
8	Lower hook**	2		100MC9122
9	Self-locking nut**	4		100MC9123
10	Split pin	2		100MC9102
11	Upper pad*	2		100MC9124
12	Cylinder body***/****	1		100MC4480
13	Piston***/****	1		100MC4478
14	Seal***/****	1		100MC9104
15	Seal***/****	1		100MC9105
16	Seal***/****	2		100MC9106
17	Cylinder cup link***/****	2		100MC4465
18	Cap metric version***	2		100MC9107
18	Cap JIC version****	2		100MC9108
19	Seal****	2		100MC9109
20	Scraper***/****	2		100MC9110
21	Rod***/****	2		100MC4471
	Seal complete***/****	1		100MC4483
*	Bearing kit (incl 5 (4x), 6 (2x), 7 (2x) & 11 (2x))	1		100MC9125
**	Hook kit (complete for 1 hook, incl 3 (2x), 4 (2x), 8 (1x) & 9 (2x))	2	Set for 1 hook	100MC9126
***	Cylinder complete with metric thread connection (incl 12–18 & 20–22)	1		100MC9113
****	Cylinder complete with JIC thread connection (incl 12–18 & 20–22)	1		100MC9114

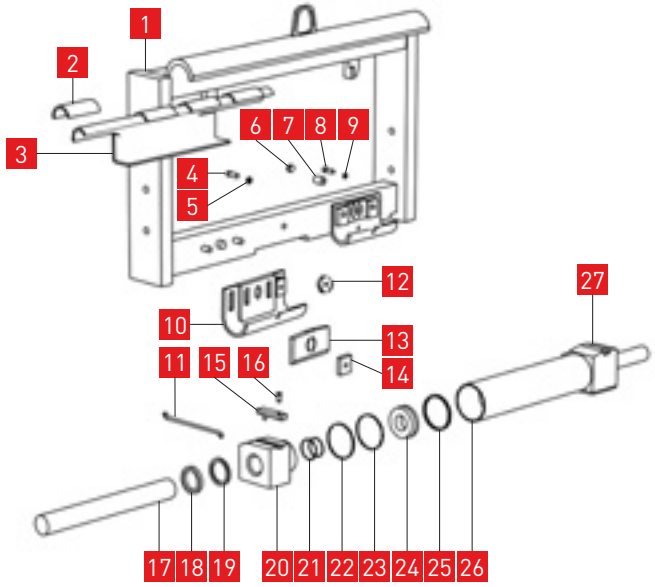
SPARE PARTS FOR SIDESHIFTER BOLZONI FEM 3, CAPACITY: 4900 KG



Type: HN49-HN6/HN6 1100–HN6 2000

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Cylinder support	1	Width of sideshifter: 1000–1150 mm	100MC9127
2	Cylinder support	1	Width of sideshifter: 1151–1350 mm	100MC9128
2	Cylinder support	1	Width of sideshifter: 1351–1660 mm	100MC9129
2	Cylinder support	1	Width of sideshifter: 1661–2000 mm	100MC9130
3	Screw***	4		100MC9131
4	Washer***	4		100MC9119
5	Grease nipple*/**	4		100MC9097
6	Lower pad*/**	2		100MC9132
7	Lower hook pad*/**	2		100MC9099
8	Lower hook***	2		100MC9122
9	Self-locking nut***	4		100MC9123
10	Elastic pin	2		100MC9133
11	Upper pad*	2	Width of sideshifter: < 1600 mm	100MC9124
11	Upper pad**	4	Width of sideshifter: > 1600 mm	100MC9124
12	Cylinder body****/*****	1		100MC9134
13	Piston****/*****	1		100MC4497
14	Seal****/*****	1		100MC4498
15	Seal****/*****	1		100MC4496
16	Seal****/*****	2		100MC4495
17	Cylinder cup link****/*****	2		100MC9135
18	Cap metric version****	2		100MC9136
18	Cap JIC version*****	2		100MC9137
19	Seal*****	2		100MC9110
20	Scraper****/*****	2		100MC4492
21	Rod****/*****	2		100MC4491
	Seal complete****/*****	1		100MC4500
*	Bearing kit (incl 5 (4x), 6 (2x), 7 (2x) & 11 (2x))	1	Width of sideshifter: < 1600 mm	100MC9138
**	Bearing kit (incl 5 (4x), 6 (2x), 7 (2x) & 11 (2x))	1	Width of sideshifter: > 1600 mm	100MC9139
***	Hook kit (complete for 1 hook, incl 3 (2x), 4 (2x), 8 (1x) & 9 (2x))	2	Set for 1 hook	100MC9126
****	Cylinder complete with metric thread connection (incl 3, 4, 8 & 9)	1		100MC9140
*****	Cylinder complete with JIC thread connection (incl 12–18 & 20–22)	1		100MC9141

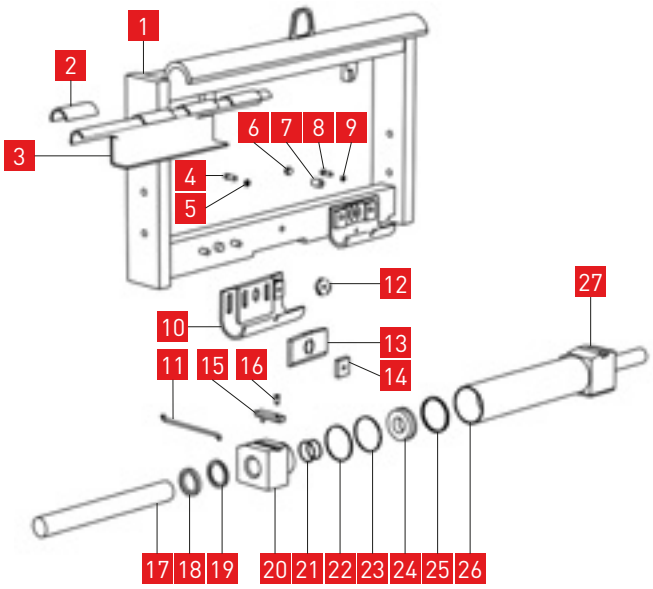
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG



Type: SL4

Fig	Description	Quantity	Remarks	REF
1	Frame	1		Not available
2	Upper bearing**	4		100MC9142
3	Cylinder support	1	Width of sideshifter: < 1000 mm	100MC9143
3	Cylinder support	1	Width of sideshifter: > 1000 mm	100MC9144
4	Screw	1		100MC4457
5	Safety washer	1		100MC9145
6	Screw***	2	M16 x 16	100MC4459
7	Screw***	2	M16 x 30	100MC4460
8	Screw***	4		100MC9146
9	Elastic washer***	4		100MC4463
10	Lower hook***	2		100MC9147
11	Cylinder cup link	2		100MC4465
12	Washer***	2		100MC4466
13	Lower pad**	2		100MC9148
14	Hook fixed plate***	4		100MC4468
15	Bracket	2		100MC4469
16	Screw	4		100MC4470
17	Rod	2		100MC4471
18	Wiper ring*	2		100MC4472
19	Seal*	2		100MC4473
20	Left plug	1		100MC4474
21	Bushing	2		100MC4475
22	Ring*	2		100MC4476
23	O-ring*	2		100MC4477
24	Piston	2		100MC4478
25	Seal*	2		100MC4479
26	Cylinder body	1		100MC4480
27	Right plug	1		100MC4481
	Cylinder assembly	1		100MC4482
*	Seal kit (incl 18 (2x), 19 (2x), 22 (2x), 23 (2x) & 25 (2x))	1		100MC4483
**	Bearing kit (incl 2 (4x) & 13 (2x))	1		100MC9149
***	Hook kit (complete for 1 hook, incl 6 (1x), 7 (1x), 8 (2x), 9 (2x), 10 (1x) & 14 (2x))	2	Set for 1 hook	100MC9150

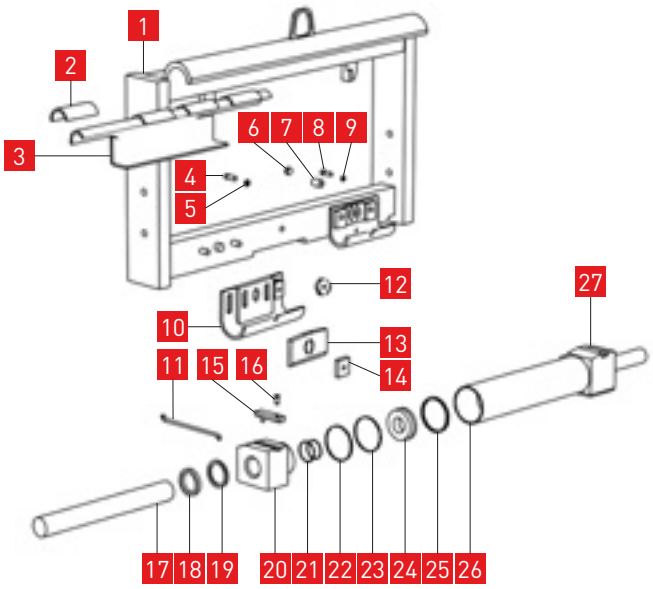
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 3, CAPACITY: 3500 KG



Type: SL5

Fig	Description	Quantity	Remarks	REF
1	Frame	1		Not available
2	Upper bearing**	4		100MC4454
3	Cylinder support	1	Width of sideshifter: ⩽ 1150 mm	100MC4455
3	Cylinder support	1	Width of sideshifter: > 1150 mm	100MC4456
4	Screw	1		100MC4457
5	Safety washer	1		100MC4458
6	Screw***/****	2	M16 x 16	100MC4459
7	Screw***	2	M16 x 30, width of sideshifter: ⩽ 1150 mm	100MC4460
7	Screw***/****	2	M16 x 40, width of sideshifter: > 1150 mm	100MC4461
8	Screw***/****	4		100MC4462
9	Elastic washer***/****	4		100MC4463
10	Lower hook***/****	2		100MC4464
11	Cylinder cup link	2		100MC4465
12	Washer***/****	2		100MC4466
13	Lower pad**	2		100MC4467
14	Hook fixed plate***/****	4		100MC4468
15	Bracket	2		100MC4469
16	Screw	4		100MC4470
17	Rod	2		100MC4471
18	Wiper ring*	2	Included in seal kit	
19	Seal*	2	Included in seal kit	
20	Left plug	1		100MC4474
21	Bushing	2		100MC4475
22	Ring*	2	Included in seal kit	
23	O-ring*	2	Included in seal kit	
24	Piston	2		100MC4478
25	Seal*	2	Included in seal kit	
26	Cylinder body	1		100MC4480
27	Right plug	1		100MC4481
27	Cylinder assembly	1		100MC4482
*	Seal kit (incl 18 (2x), 19 (2x), 22 (2x), 23 (2x) & 25 (2x))	1		100MC4483
**	Bearing kit (incl 2 (4x) & 13 (2x))	1		100MC6437
***	Hook kit (complete for 1 hook, incl 6 (1x), 7 (1x), 8 (2x), 9 (2x), 10 (1x), 12 (1x) & 14 (2x))	2	Width of sideshifter: ⩽ 1150 mm set for 1 hook	100MC4485
****	Hook kit (incl 6 (1x), 7 (1x), 8 (2x), 9 (2x), 10 (1x), 12 (1x) & 14 (2x))	2	Width of sideshifter: > 1150 mm set for 1 hook	100MC4486

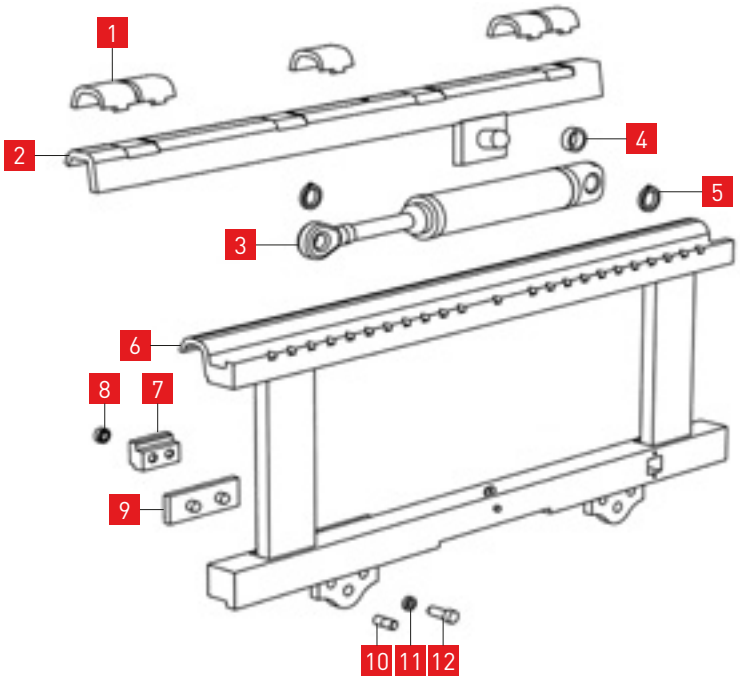
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 3, CAPACITY: 4900 KG



Type: SL6

Fig	Description	Quantity	Remarks	REF
1	Frame	1		Not available
2	Upper bearing**	4		100MC4454
3	Cylinder support	1	Width of sideshifter: ⩽ 1350 mm	100MC4487
3	Cylinder support	1	Width of sideshifter: > 1350 ⩽ 1660 mm	100MC4488
3	Cylinder support	1	Width of sideshifter: > 1660 mm	100MC4489
4	Screw	1		100MC4457
5	Safety washer	1		100MC4463
6	Screw***	2	M16 x 16	100MC4459
7	Screw***	2	M16 x 40	100MC4461
8	Screw***	4		100MC4490
9	Elastic washer***	4		100MC4458
10	Lower hook***	2		100MC4464
11	Cylinder cup link	2		100MC4465
12	Washer***	2		100MC4466
13	Lower pad**	2		100MC4467
14	Hook fixed plate***	4		100MC4468
15	Bracket	2		100MC4469
16	Screw	4		100MC4470
17	Rod	2		100MC4491
18	Wiper ring*	2	Included in seal kit	
19	Seal*	2	Included in seal kit	
20	Left plug	1		100MC4474
21	Bushing	2		100MC4494
22	Ring*	2	Included in seal kit	
23	O-ring*	2	Included in seal kit	
24	Piston	2		100MC4497
25	Seal*	2	Included in seal kit	
26	Cylinder body	1		100MC4480
27	Right plug	1		100MC4481
27	Cylinder assembly	1		100MC4499
*	Seal kit (incl 18 (2x), 19 (2x), 22 (2x), 23 (2x) & 25 (2x))	1		100MC4500
**	Bearing kit (incl 2 (4x) & 13 (2x))	1		100MC4484
***	Hook kit (incl 6 (1x), 7 (1x), 8 (2x), 9 (2x), 10 (1x), 12 (1x) & 14 (2x))	2	Set for 1 hook	100MC4501

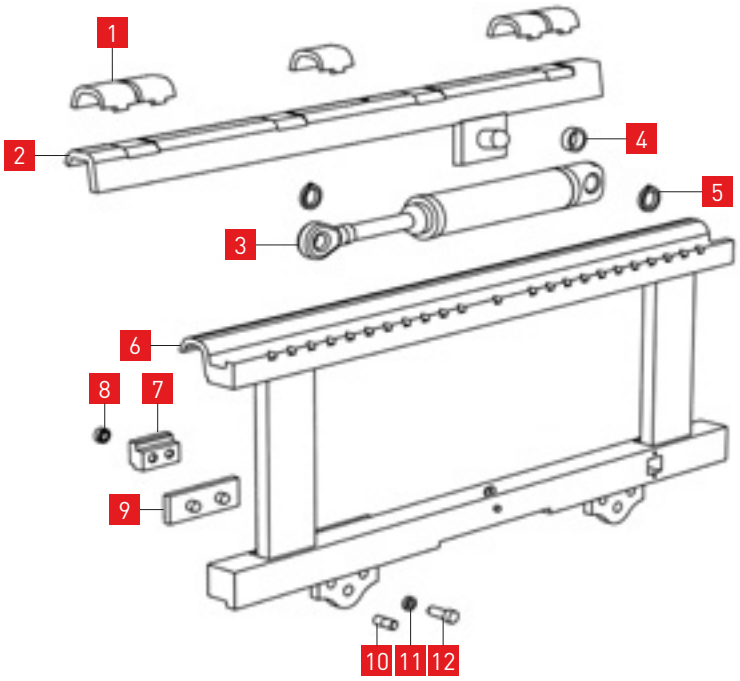
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 1, CAPACITY: 990 KG



Type: SU2

Fig	Description	Quantity	Remarks	REF
1	Upper bearing*	5		100MC9151
2	Cylinder support	1	On request, give serial n°	
3	Cylinder	1		100MC9152
4	Spacer	1		100MC9153
5	Snap ring	1		100MC9154
6	Frame	1		Not available
7	Lower hook**	2		100MC9155
8	Nut**	4		100MC9156
9	Lower pad*	2		100MC4516
10	Screw**	2		100MC4517
11	Washer**	4		100MC9157
12	Bolt**	4		100MC9158
	Cylinder seal kit	1		100MC9159
*	Bearing kit for sideshifter (incl 1 (5x) & 9 (2x))	1		100MC9160
**	Hook kit for sideshifter (incl 7 (1x), 8 (2x), 10 (1x), 11 (2x) & 12 (2x))	2	Set for 1 hook	100MC9161

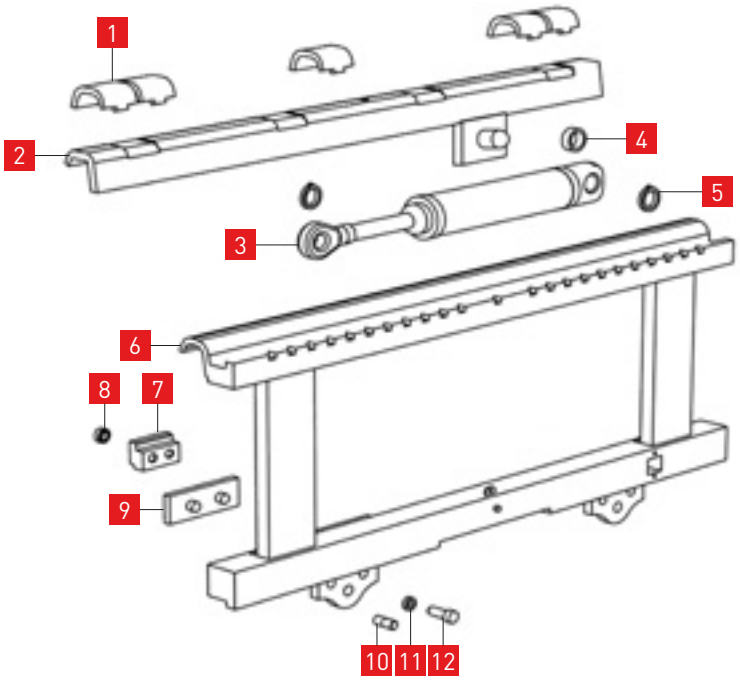
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG



Type: SU4

Fig	Description	Quantity	Remarks	REF
1	Upper bearing*	5		100MC9151
2	Cylinder support	1	On request, give serial n°	
3	Cylinder	1		100MC9152
4	Spacer	1		100MC9153
5	Snap ring	1		100MC9154
6	Frame	1		Not available
7	Lower hook**	1		100MC9155
8	Nut**	2		100MC9156
9	Lower pad*	2		100MC4516
10	Screw**	2		100MC4517
11	Washer**	4		100MC9157
12	Bolt**	4		100MC9158
	Cylinder seal kit	1		100MC9159
*	Bearing kit for sideshifter (incl 1 (5x) & 9 (2x))	1		100MC9160
**	Hook kit for sideshifter (incl 7 (1x), 8 (2x), 10 (1x), 11 (2x) & 12 (2x))	2	Set for 1 hook	100MC9161

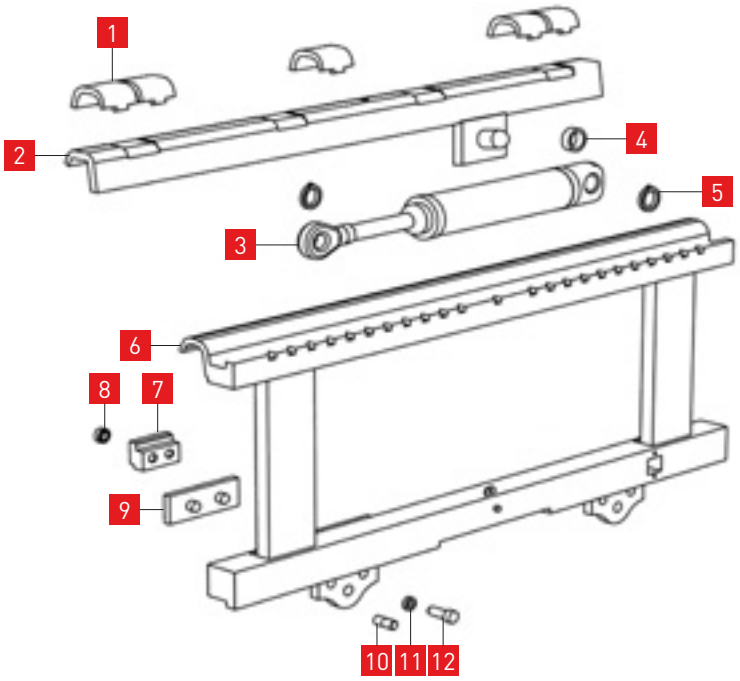
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 3, CAPACITY: 3500 KG



Type: SU5

Fig	Description	Quantity	Remarks	REF
1	Upper bearing*	5		100MC4508
2	Cylinder support	1	On request, give serial n°	
3	Cylinder	1		100MC9152
4	Spacer	1		100MC9153
5	Snap ring	1		100MC9154
6	Frame	1		Not available
7	Lower hook**	2		100MC4514
8	Nut**	4		100MC4515
9	Lower pad*	2		100MC4516
10	Screw**	2		100MC4517
11	Washer**	4		100MC4518
12	Bolt**	4		100MC4519
	Cylinder seal kit	1		100MC9159
*	Bearing kit for sideshifter (incl 1 (5x) & 9 (2x))	1		100MC4521
**	Hook kit for sideshifter (incl 7 (1x), 8 (2x), 10 (1x), 11 (2x) & 12 (2x))	2	Set for 1 hook	100MC4522

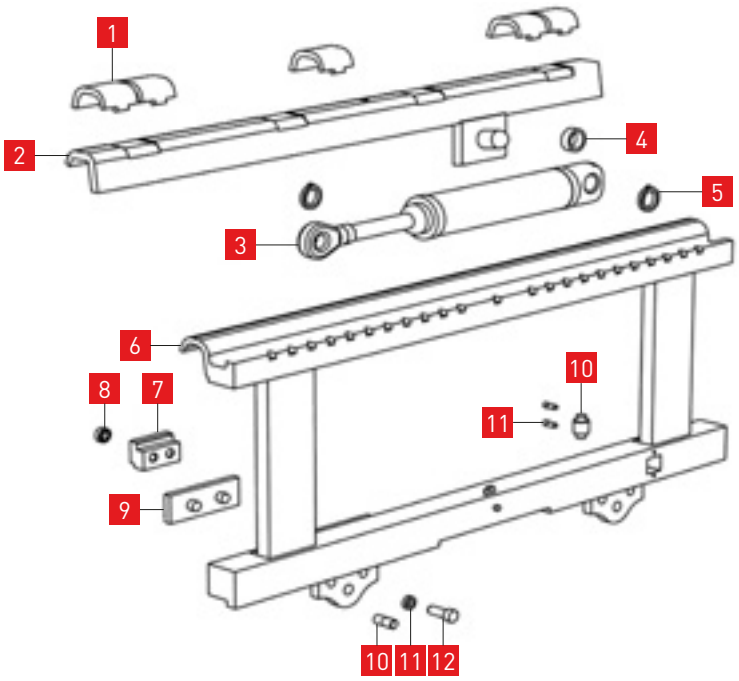
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 3, CAPACITY: 4900 KG



Type: SU6

Fig	Description	Quantity	Remarks	REF
1	Upper bearing*	5		100MC4508
2	Cylinder support	1	Width of sideshifter: ⩽ 1380 mm	100MC4509
2	Cylinder support	1	Width of sideshifter: ⩾ 1500 mm	100MC4510
3	Cylinder	1		100MC4511
4	Spacer	1		100MC4512
5	Snap ring	1		100MC4513
6	Frame	1		Not available
7	Lower hook**	2		100MC4514
8	Nut**	4		100MC4515
9	Lower pad*	2		100MC4516
10	Screw**	2		100MC4517
11	Washer**	4		100MC4518
12	Bolt**	4		100MC4519
	Cylinder seal kit	1		100MC4520
*	Bearing kit for sideshifter (incl 1 (5x) & 9 (2x))	1		100MC4521
**	Hook kit for sideshifter (incl 7 (1x), 8 (2x), 10 (1x), 11 (2x) & 12 (2x))	2	Set for 1 hook	100MC4522

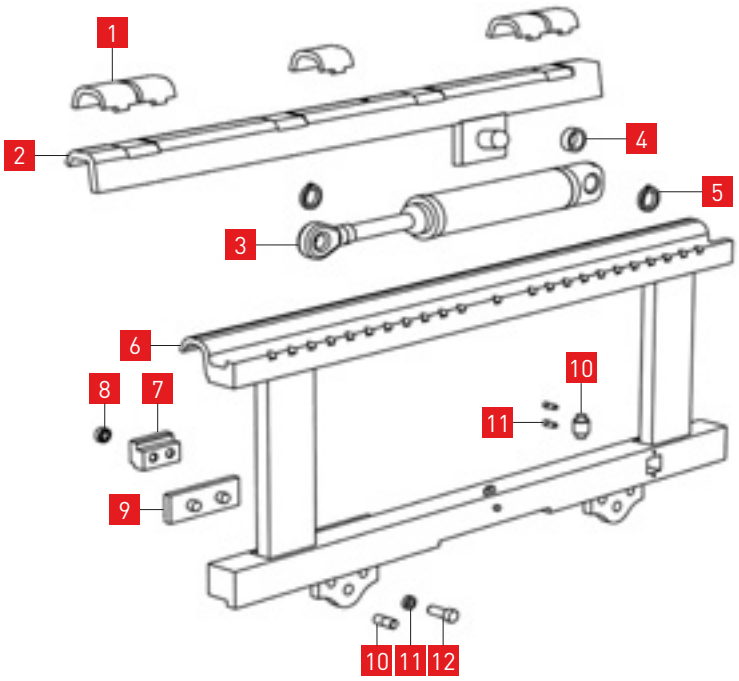
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 4, CAPACITY: 6500 KG



Type: SU7

Fig	Description	Quantity	Remarks	REF
1	Upper bearing*	7		100MC4508
2	Cylinder support	1	On request, give serial n°	
3	Cylinder	1	Stroke: 200 mm	100MC4511
4	Spacer	1		100MC9153
5	Snap ring	1		100MC9162
6	Frame	1		Not available
7	Lower hook**	2		100MC9163
8	Nut**	4		100MC9164
9	Lower pad			Not available
10	Roller assembly*	3		100MC9165
11	Screw	6		100MC9166
12	Screw	2		100MC9167
13	Washer**	4		100MC4463
14	Bolt**	4		100MC9168
	Cylinder seal kit	1		100MC4520
*	Bearing set for sideshifter (incl 1 (7x) & 10 (3x))	1		100MC9169
**	Hook kit for sideshifter (incl 7 (1x), 8 (2x), 13 (2x) & 14 (2x))	2	Set for 1 hook	100MC9170

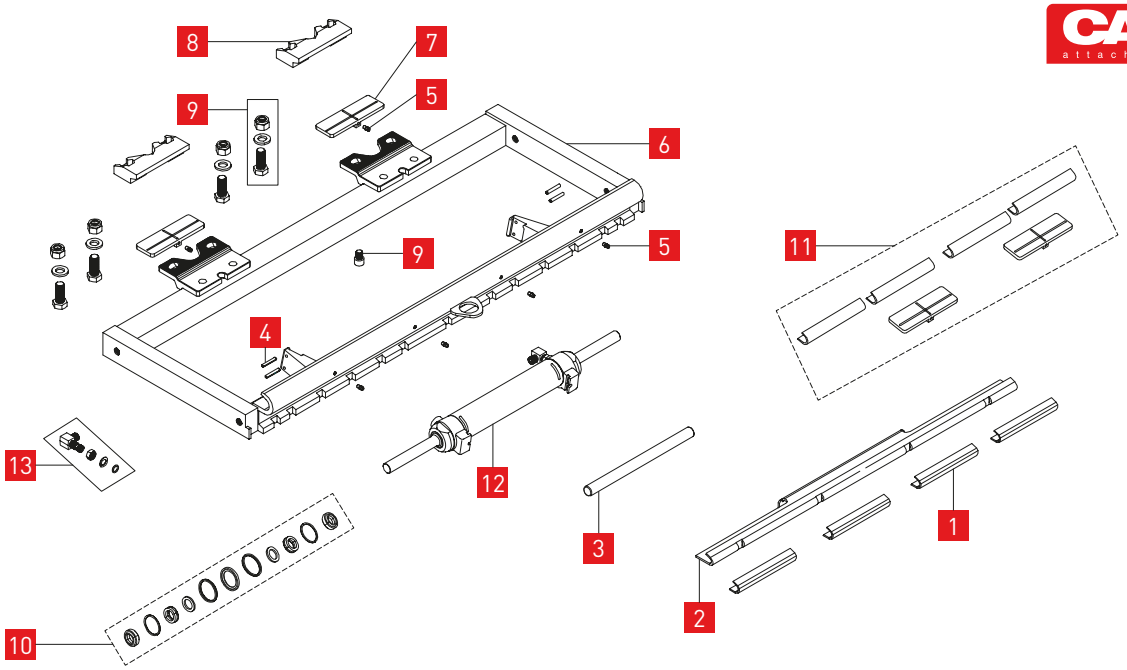
SPARE PARTS FOR SIDESHIFTER BOLZONI
SLIDING PIECES VERSION, FEM 4, CAPACITY: 8000 KG



Type: SU8

Fig	Description	Quantity	Remarks	REF
1	Upper bearing*	7		100MC4508
2	Cylinder support	1	On request, give serial n°	
3	Cylinder	1		100MC4511
4	Spacer	1		100MC9153
5	Snap ring	1		100MC9162
6	Frame	1		Not available
7	Lower hook**	2		100MC9163
8	Nut**	4		100MC9164
9	Lower pad			Not available
10	Roller assembly*	3		100MC9165
11	Screw	6		100MC9166
12	Screw	2		100MC9167
13	Washer**	4		100MC4463
14	Bolt**	4		100MC9168
	Cylinder seal kit	1		100MC4520
*	Bearing set (incl 1 (7x) & 10 (3x))			100MC9169
**	Hook kit for sideshifter (incl 7 (1x), 8 (2x), 13 (2x) & 14 (2x))	2	Set for 1 hook	100MC9170

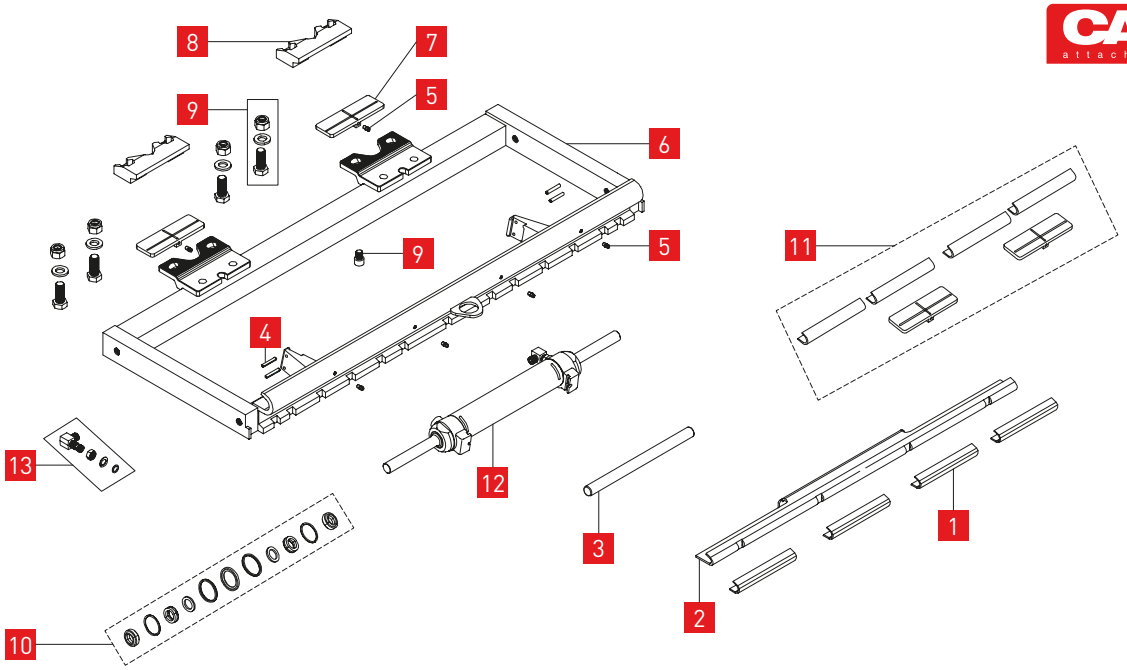
SPARE PARTS FOR SIDESHIFTER CAM ATTACHMENTS FEM 2, CAPACITY: 2500 KG



Type: SH225.P

Fig	Description	Quantity	Remarks	REF
1	Upper slide plate	4		100MC9171
2	Anchor bracket L-600	1	Width of sideshifter: 800–900 mm	100MC9172
2	Anchor bracket L-664	1	Width of sideshifter: 920–980 mm	100MC9173
2	Anchor bracket L-744	1	Width of sideshifter: 1000–1040 mm	100MC9174
2	Anchor bracket L-844	1	Width of sideshifter: 1070–1150 mm	100MC9175
2	Anchor bracket L-944	1	Width of sideshifter: 1250 mm	100MC9176
2	Anchor bracket L-1140	1	Width of sideshifter: 1400 mm	100MC9177
3	Piston rod	2		100MC9178
4	Spring pin	4		100MC9179
5	Greaser	6		100MC9180
6	Frame	1		Not sold as spare part
7	Lower slide plate	2	Includes item 5	100MC9181
8	Lower hook	2		100MC9196
9	Bolt, nut, washer assembly	4		100MC9182
10	Seal kit	1	Up to serial n° 0001/13/SH	100MC9183
10	Seal kit	1	As from serial n° 0001/13/SH	100MC9184
10	Seal kit	1	As from serial n° 0001/14/SH	100MC9185
10	Seal kit	1	As from serial n° 2636/15/SH	100MC9186
11	Plastic slide plate	1 set (incl 6 pcs)	Includes item 1, 5 & 7	100MC4651
12	Cylinder assembly	1		100MC9187
13	Fitting assembly	2		100MC9188
	Hook kit (incl 8 (1x), 9 (2x)	2		101MC3450

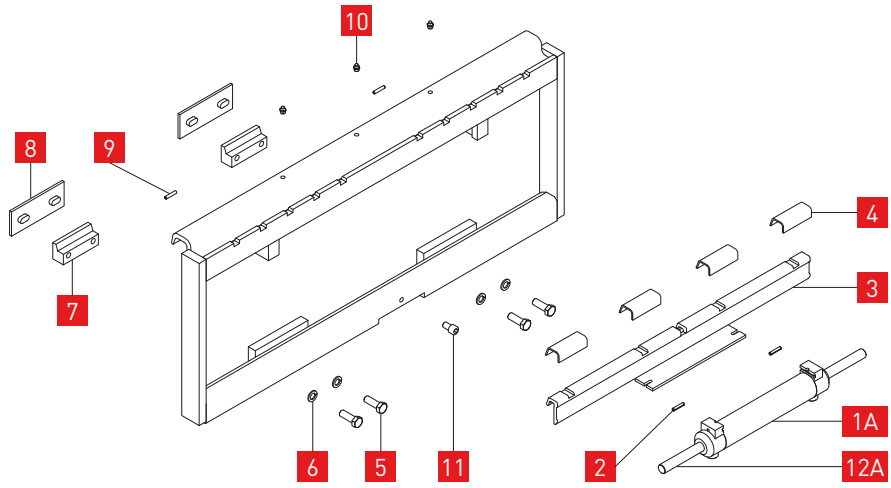
SPARE PARTS FOR SIDESHIFTER CAM ATTACHMENTS FEM 3, CAPACITY: 3500 KG

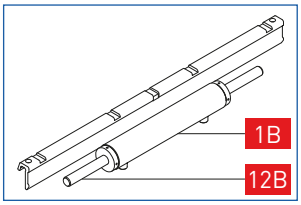


Type: SH335.P

Fig	Description	Quantity		REF
1	Upper slide plate	4		100MC9189
2	Anchor bracket L-744	1	Width of sideshifter: 1000–1070 mm	100MC9190
2	Anchor bracket L-844	1	Width of sideshifter: 1100–1150 mm	100MC9191
2	Anchor bracket L-944	1	Width of sideshifter: 1200–1250 mm	100MC9192
2	Anchor bracket L-1044	1	Width of sideshifter: 1300–1350 mm	100MC9193
2	Anchor bracket L-1140	1	Width of sideshifter: 1400 mm	100MC9194
3	Piston rod	2		100MC9178
4	Spring pin	4		100MC9179
5	Greaser	6		100MC9180
6	Frame	1	On request, give type and serial n°	Not sold as spare part
7	Lower slide plate	2	Includes item 5	100MC9195
8	Lower hook	2		100MC9196
9	Bolt, nut, washer assembly	4		100MC9182
10	Seal kit	1	Up to serial n° 0001/13/SH	100MC5061
10	Seal kit	1	As from serial n° 0001/13/SH	100MC9197
10	Seal kit	1	As from serial n° 0001/14/SH	100MC9198
10	Seal kit	1	As from serial n° 2636/15/SH	100MC9199
11	Plastic slide plate	1 set (incl 6 pcs)	Includes item 1, 5 & 7	100MC9200
12	Cylinder assembly	1		100MC9201
13	Fitting assembly	2		100MC9188
	Hook kit (incl 8 (1x), 9 (2x)	2		101MC3450

SPARE PARTS FOR SIDESHIFTER CAM ATTACHMENTS SLIDING PIECES VERSION, FEM 2, CAPACITY 2500 KG



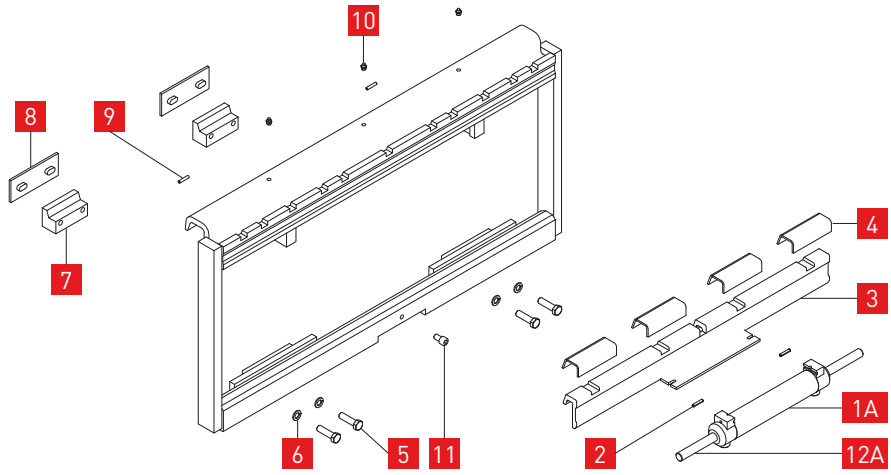


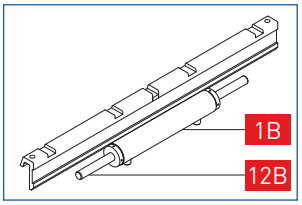


Type: TRF 225

Fig	Description	Quantity	Remarks	REF
1A	Cylinder	1		100MC9187
1B	Cylinder	1	Width of sideshifter: 800 mm	100MC9202
1B	Cylinder	1	Width of sideshifter: 900–940 mm	100MC9203
1B	Cylinder	1	Width of sideshifter: 970–1150 mm	100MC9204
1B	Cylinder	1	Width of sideshifter: 1260–1400 mm	100MC9205
1B	Cylinder	1	Width of sideshifter: > 1400 mm	100MC9206
2	Pin	2		100MC9207
3	Fixed extruded	1	For width of sideshifter: 800 mm For cylinder type 1A	100MC9208
3	Fixed extruded	1	For width of sideshifter: 900–940 mm For cylinder type 1A	100MC9209
3	Fixed extruded	1	For width of sideshifter: 970–1150 mm For cylinder type 1A	100MC9210
3	Fixed extruded	1	For width of sideshifter: 1260–1400 mm For cylinder type 1A	100MC9211
3	Fixed extruded	1	For width of sideshifter: > 1400 mm For cylinder type 1A	100MC9212
4	Upper nylon slide*	4		100MC9213
5	Screw**	4		100MC9214
6	Washer**	4		100MC9215
7	Bottom hook**	2		100MC9216
8	Bottom nylon slide*	2		100MC9217
9	Screw	2		100MC9218
10	Greaser	3		100MC9219
11	Safety screw	1		100MC9220
12	Rod	2	For cylinder type: 1	100MC9221
12A	Rod	2	For cylinder type: 1A	100MC9178
12B	Seal kit	1	For cylinder type: 1B	100MC9222
	Rod	2	For cylinder type: 1	100MC9223
	Seal kit	1	For cylinder type: 1A	100MC9183
	Seal kit	1	For cylinder type: 1A, as from serial n° 0690/13/TRF up to 0019/14/TRF	100MC9184
	Seal kit	1	For cylinder type: 1A, as from serial n° 0020/14/TRF up to 1024/15/TRF	100MC9185
	Seal kit	1	For cylinder type: 1A, as from serial n° 1025/15/TRF up to 0062/16/TRF	100MC9186
	Seal kit	1	For cylinder type: 1B, as from serial n° 0063/16/TRF	100MC9224
*	Bearing kit (incl 4 (4x) & 8 (2x))	1		100MC9225
**	Hook kit complete for 1 hook (incl 5 (2x), 6 (2x) & 7 (1x))	1		100MC9226

SPARE PARTS FOR SIDESHIFTER CAM ATTACHMENTS SLIDING PIECES VERSION, FEM 3, CAPACITY 3500 KG



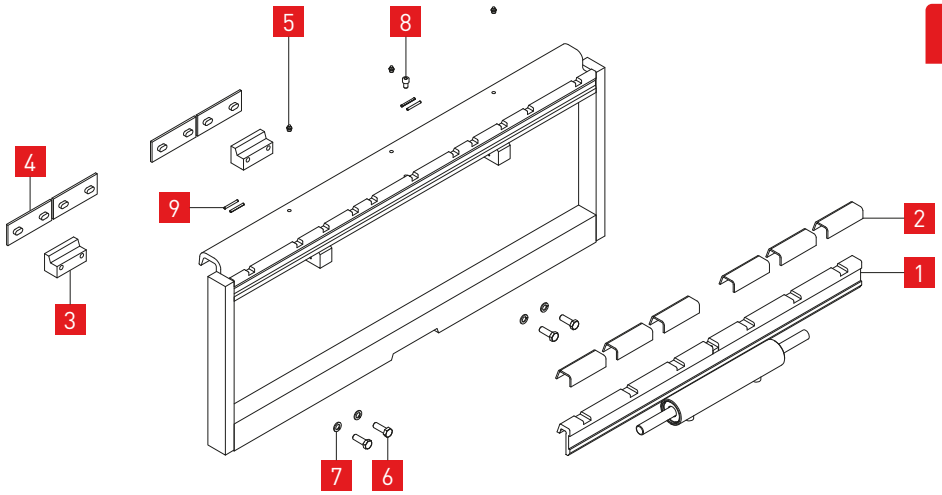




Type: TRF 335.P

Fig	Description	Quantity	Remarks	REF
1A	Cylinder	1		100MC9187
1B	Cylinder	1	Width of sideshifter: 1000 mm	100MC9227
1B	Cylinder	1	Width of sideshifter: 1070–1200 mm	100MC9228
1B	Cylinder	1	Width of sideshifter: 1250–1350 mm	100MC9229
2	Pin	2		100MC9207
3	Fixed extruded	1	For width of sideshifter: 1000 mm For cylinder type: 1A	100MC9230
3	Fixed extruded	1	For width of sideshifter: 1070–1200 mm For cylinder type: 1A	100MC9231
3	Fixed extruded	1	For width of sideshifter: 1250–1350 mm For cylinder type: 1A	100MC9232
4	Upper nylon slide*	4		100MC9233
5	Screw**	4		100MC9234
6	Washer**	4		100MC9215
7	Bottom hook**	2		100MC9235
8	Bottom nylon slide*	2		100MC9217
9	Screw	2		100MC9236
10	Greaser	3		100MC9219
11	Safety screw	1		100MC9220
12	Rod	2	For cylinder type: 1	100MC9223
12A	Rod	2	For cylinder type: 1A	100MC9178
12B	Rod	2	For cylinder type: 1B	100MC9222
	Seal kit	1	For cylinder type: 1	100MC9223
	Seal kit	1	Up to serial n° 0690/12/TRF For cylinder type: 1A	100MC9183
	Seal kit	1	As from serial n° 0690/13/TRF For cylinder type: 1A	100MC9184
	Seal kit	1	As from serial n° 0020/14/TRF For cylinder type: 1A	100MC9185
	Seal kit	1	As from serial n° 1025/15/TRF For cylinder type: 1A	100MC9186
	Seal kit	1	As from serial n° 0200/16/TRF and up For cylinder type: 1B	100MC9224
*	Bearing kit (incl 4 (4x) & 8 (2x))	1		100MC9237
**	Hook kit complete for 1 hook (incl 5 (2x), 6 (2x) & 7 (1x))	1		100MC9238

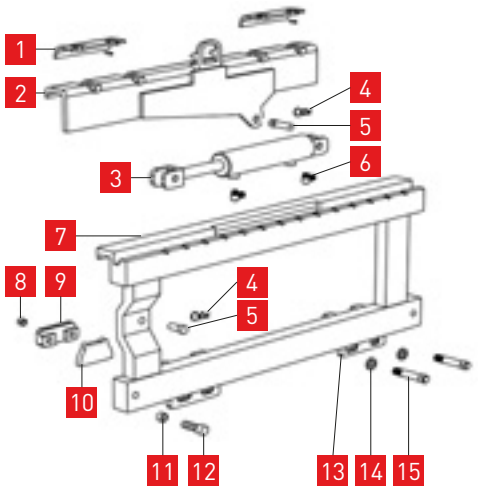
SPARE PARTS FOR SIDESHIFTER CAM ATTACHMENTS SLIDING PIECES VERSION, FEM 3, CAPACITY 5000 KG

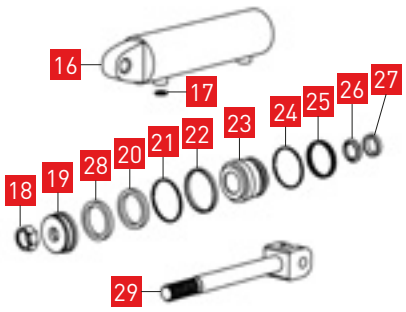


Type: TRF 350.P

Fig	Description	Quantity	Remarks	REF
1	Cylinder	1	Length: 600 mm, width of sideshifter: 1000 mm	100MC9239
1	Cylinder	1	Length: 800 mm, width of sideshifter: 1070–1200 mm	100MC9240
1	Cylinder	1	Length: 1000 mm, width of sideshifter: 1260–1350 mm	100MC9241
1	Cylinder	1	Length: 1300 mm, width of sideshifter: 1560–2000 mm	100MC9242
1	Cylinder	1	Length: 1650 mm, width of sideshifter: > 1900 mm	100MC9243
2	Upper nylon slide*	4	For sideshifter width: ≤ 1200 mm	100MC9233
2	Upper nylon slide**	6	For sideshifter width: ≥ 1260 mm	100MC9233
3	Bottom hook***	2		100MC9235
4	Bottom nylon slide*/**	4		100MC9217
5	Greaser	3	For sideshifter width: 1000–1350 mm	100MC9219
5	Greaser	5	For sideshifter width: 1560–2000 mm	100MC9219
6	Screw***	4		100MC9234
7	Washer***	4		100MC9215
8	Safety screw	1		100MC9244
9	Pin	4		100MC9245
	Seal kit	1		100MC9246
*	Bearing kit (incl 2 (4x) & 4 (4x))		For sideshifter width: < 1260 mm	100MC9247
**	Bearing kit (incl 2 (6x) & 4 (4x))		For sideshifter width: ≥ 1260 mm	100MC9248
***	Hook kit complete for 1 hook (incl 3 (1x), 6 (2x) & 7 (2x))	2		100MC9249

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 2, CAPACITY: 1500 KG

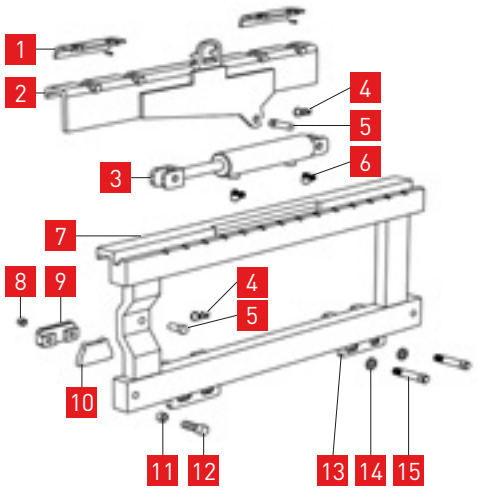


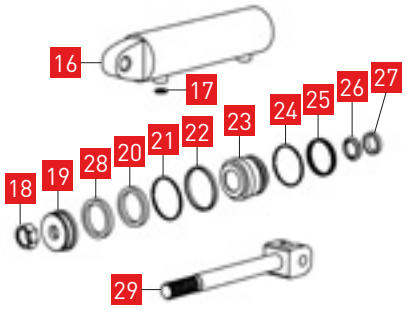


Type: 30DSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*/**	2		100MC9250
2	Support	1	On request, give serial n°	
3	Cylinder	1		100MC9251
4	Cotter hairpin	2		100MC9252
5	Pin	2		100MC9253
6	Fitting (JIC thread)	2		100MC9254
6	Fitting (metric thread)	2		100MC4342
7	Frame	1		Not available
8	Nut***	4		100MC9255
9	Lower hook***	2		100MC9256
10	Lower bearing**	2		100MC9257
11	Washer	4		100MC9258
12	Bolt	4		100MC9259
13	Support	2		100MC9260
14	Washer***	4		100MC4321
15	Bolt***	4		100MC4350
*	Upper bearing kit for sideshifter (incl 1 (2x))	1		100MC9261
**	Bearing kit for sideshifter (incl 1 (2x) & 10 (2x))	1		100MC9262
***	Hook kit for sideshifter (incl 8 (2x), 9 (1x), 14 (2x) & 15 (2x))	2	Set for 1 hook	100MC9263
Cylinder of sideshifter				
	Cylinder assembly	1		100MC9251
16	Shell	1		100MC9264
17	Washer	1		100MC9265
18	Nut	1		100MC4502
19	Piston	1		100MC9266
20	Seal*	1		Included in seal kit
21	Seal*	1		Included in seal kit
22	O-ring*	1		Included in seal kit
23	Retainer	1		100MC9270
24	Retaining ring	1		100MC9271
25	Snap ring*	1		Included in seal kit
26	Seal*	1		Included in seal kit
27	Wiper ring*	1		Included in seal kit
28	Seal*	1		Included in seal kit
29	Cylinder rod	1		100MC9275
*	Seal kit (incl 20 (1x), 21 (1x), 22 (1x), 25 (1x), 26 (1x), 27 (1x) & 28 (1x))	1		100MC9276

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG

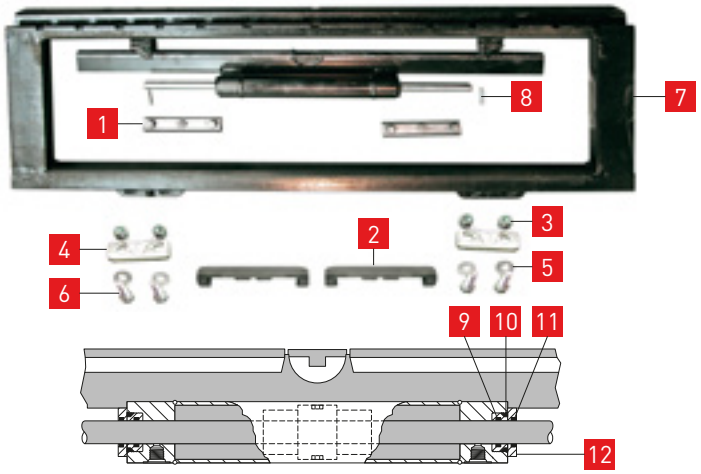




Type: 55DSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*/**	2		100MC9250
2	Support	1	On request, give serial n°	
3	Cylinder	1		100MC9251
4	Cotter hairpin	2		100MC9252
5	Pin	2		100MC9253
6	Fitting (JIC thread)	2		100MC9254
6	Fitting (metric thread)	2		100MC4342
7	Frame	1		Not available
8	Nut***	4		100MC9255
9	Lower hook***	2		100MC9256
10	Lower bearing**	2		100MC9257
11	Washer	4		100MC9258
12	Bolt	4		100MC9259
13	Support	2		100MC9260
14	Washer***	4		100MC4321
15	Bolt***	4		100MC4350
*	Upper bearing kit for sideshifter (incl 1 (2x))	1		100MC9261
**	Bearing kit for sideshifter (incl 1 (2x) & 10 (2x))	1		100MC9262
***	Hook kit for sideshifter (incl 8 (2x), 9 (1x), 14 (2x) & 15 (2x))	2	Set for 1 hook	100MC9263
Cylinder of sideshifter				
	Cylinder assembly	1		100MC9251
16	Shell	1		100MC9264
17	Washer	1		100MC9265
18	Nut	1		100MC4502
19	Piston	1		100MC9266
20	Seal*	1		Included in seal kit
21	Seal*	1		Included in seal kit
22	O-ring*	1		100MC9269
23	Retainer	1		100MC9270
24	Retaining ring	1		100MC9271
25	Snap ring*	1		Included in seal kit
26	Seal*	1		Included in seal kit
27	Wiper ring*	1		Included in seal kit
28	Seal*	1		Included in seal kit
29	Cylinder rod	1		100MC9275
*	Seal kit (incl 20 (1x), 21 (1x), 22 (1x), 25 (1x), 26 (1x), 27 (1x) & 28 (1x))	1		100MC9276

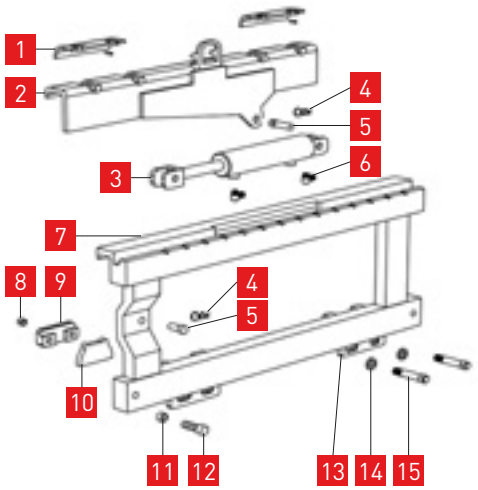
SPARE PARTS FOR SIDESHIFTER CASCADE FEM 2, CAPACITY: 2500 KG

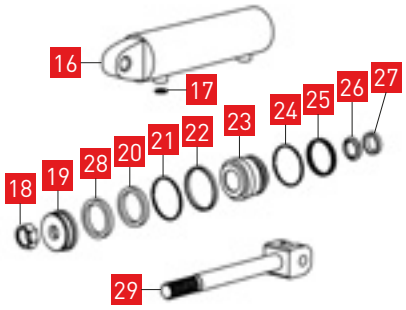


Type: 55D71568–55D71557

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing nylon**	2		100MC9293
2	Lower bearing nylon**	2		100MC9294
3	Nut*	4		100MC9295
4	Lower hook*	2		100MC9296
5	Washer*	4		100MC9297
6	Capscrew*	4		100MC9298
7	Frame	1	On request, give serial n°	
8	Roll pin	2		100MC4567
*	Hook kit (complete for 1 hook, incl 3 (2x), 4 (1x), 5 (2x), 6 (2x))	2	Set for 1 hook	100MC9299
**	Bearing kit for sideshifter (incl 1 (2x) & 2 (2x))	1	Width of sideshifter: 780–840 mm	100MC9300
Cylinder of sideshifter				
	Cylinder assembly	1	Width of sideshifter: 859–899 mm	100MC9301
	Cylinder assembly	1	Width of sideshifter: 900–1040 mm	100MC9302
	Cylinder assembly	1	Width of sideshifter: 1050–1140 mm	100MC9303
	Cylinder assembly	1	Width of sideshifter: 1150–1200 mm	100MC9304
	Cylinder assembly	1		100MC9305
9	Rod seal*	2		100MC9306
10	O-ring*	2		100MC9307
11	Rod wiper seal*	2		100MC9308
12	Retainer	2		100MC9309
*	Seal kit (incl 9 (2x), 10 (2x), 11 (2x))	1		100MC9310

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 3, CAPACITY: 3000 KG

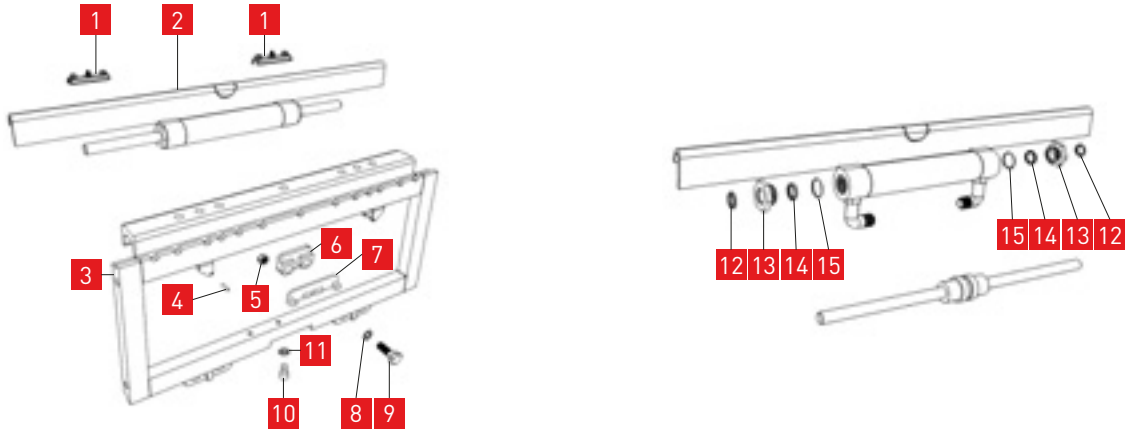




Type: 60DSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*/**	2		100MC4348
2	Support	1	On request, give serial n°	
3	Cylinder	1		100MC9251
4	Cotter hairpin	2		100MC9252
5	Pin	2		100MC9253
6	Fitting (JIC thread)	2		100MC9254
6	Fitting (metric thread)	2		100MC4342
7	Frame	1		Not available
8	Nut***	4		100MC9255
9	Lower hook***	2		100MC9322
10	Lower bearing**	2		100MC9257
11	Washer	4		100MC4463
12	Bolt	4		100MC9323
13	Support	2		100MC9260
14	Washer***	4		100MC4321
15	Bolt***	4		100MC9324
*	Upper bearing kit for sideshifter (incl 1 (2x))	1		100MC9325
**	Bearing kit for sideshifter (incl 1 (2x) & 10 (2x))	1		100MC9326
***	Hook kit for sideshifter (incl 8 (2x), 9 (1x), 14 (2x) & 15 (2x))	2	Set for 1 hook	100MC9327
Cylinder of sideshifter				
	Cylinder assembly	1		100MC9251
16	Shell	1		100MC9264
17	Washer	1		100MC9265
18	Nut	1		100MC4502
19	Piston	1		100MC9266
20	Seal*	1		Included in seal kit
21	Seal*	1		Included in seal kit
22	O-ring*	1		Included in seal kit
23	Retainer	1		100MC9270
24	Retaining ring	1		100MC9271
25	Snap ring*	1		Included in seal kit
26	Seal*	1		Included in seal kit
27	Wiper ring*	1		Included in seal kit
28	Seal*	1		Included in seal kit
29	Cylinder rod	1		100MC9275
*	Seal kit (incl 20 (1x), 21 (1x), 22 (1x), 25 (1x), 26 (1x), 27 (1x) & 28 (1x))	1		100MC9276

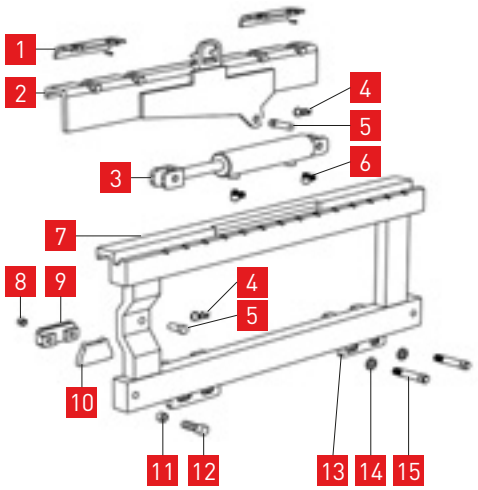
SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 3, CAPACITY: 3500 KG

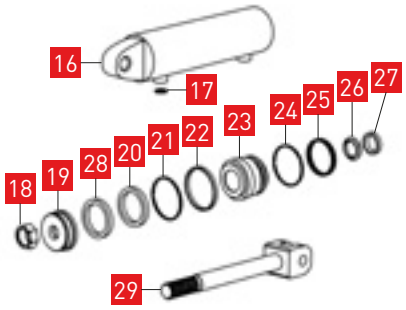


Type: 65D33801, 65D33802, 65D33803, 65D33804, 65D33805, 65D33806, 65D33807, 65D33808

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2	Material: nylon	100MC4554
2	Cylinder	1	See cylinder section	
3	Frame	1	On request, give serial n°	
4	Roll pin	2		100MC4555
5	Nut	4		100MC4318
6	Lower hook**	2		100MC4319
7	Lower bearing*	2		100MC4556
8	Washer**	4		100MC4321
9	Bolt**	4		100MC4557
10	Bolt	3		100MC4558
*	Bearing kit for sideshifter (incl 1 (2x) & 7 (2x))	1		100MC4559
**	Hook kit for sideshifter (incl 6 (1x), 8 (2x) & 9 (2x))	2		100MC4560
Cylinder of sideshifter				
	Cylinder assembly	1	For 65D33801	100MC4561
	Cylinder assembly	1	For 65D33802	100MC4562
	Cylinder assembly	1	For 65D33803, 65D33804, 65D33805, 65D33806	100MC4563
	Cylinder assembly	1	For 65D33807, 65D33808	100MC4564
11	Rod seal*	2		100MC4565
12	O-ring*	2		100MC4566
13	Rod wiper seal*	2		100MC4331
14	Retainer	2		100MC4567
*	Cylinder seal kit (incl 11 (2x), 12 (2x) & 13 (2x))	1		100MC4568

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 3, CAPACITY: 5000 KG

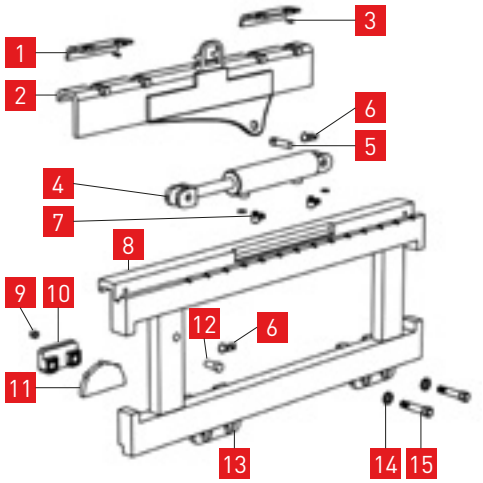


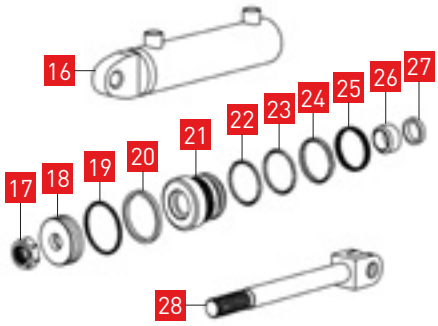


Type: 100DSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*/**	2		100MC4348
2	Support	1	On request, give serial n°	
3	Cylinder	1		100MC9328
4	Cotter hairpin	2		100MC9252
5	Pin	2		100MC9329
6	Fitting (JIC thread)	2		100MC9254
	Fitting (metric thread)	2		100MC4342
7	Frame	1		Not available
8	Nut***	4		100MC9255
9	Lower hook***	2		100MC9256
10	Lower bearing**	2		100MC9330
11	Washer	4		100MC4463
12	Bolt	4		100MC9323
13	Support	2		100MC9331
14	Washer***	4		100MC4321
15	Bolt***	4		100MC9324
*	Upper bearing kit for sideshifter (incl 1 (2x))	1		100MC9325
**	Bearing kit for sideshifter (incl 1 (2x) & 10 (2x))	1		100MC9332
***	Hook kit for sideshifter (incl 8 (2x), 9 (1x), 14 (2x) & 15 (2x))	2	Set for 1 hook	100MC9333
Cylinder of sideshifter				
	Cylinder assembly	1		100MC9328
16	Shell	1		100MC9334
17	Washer	1		100MC9265
18	Nut	1		100MC9335
19	Piston	1		100MC9336
20	Seal*	1		Included in seal kit
21	Seal*	1		Included in seal kit
22	O-ring*	1		100MC9339
23	Retainer	1		100MC9340
24	Retaining ring	1		100MC9341
25	Snap ring*	1		Included in seal kit
26	Seal*	1		Included in seal kit
27	Wiper ring*	1		Included in seal kit
28	Seal*	1		Included in seal kit
29	Cylinder rod	1		100MC9345
*	Seal kit (incl 20 (1x), 21 (1x), 22 (1x), 25 (1x), 26 (1x), 27 (1x) & 28 (1x))	1		100MC9346

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 4, CAPACITY: 5500 KG

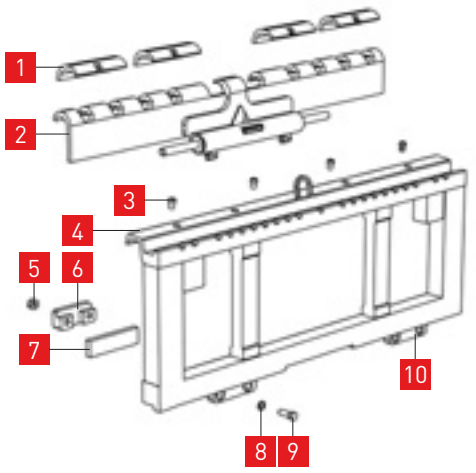


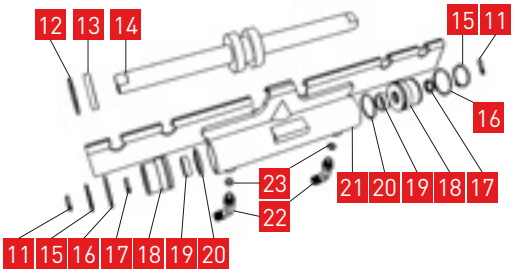


Type: 120DSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2		100MC4348
2	Support	1	On request, give serial n°	
3	Grease nipple	4		100MC4317
4	Cylinder	1		100MC9328
5	Pin	1		100MC9329
6	Cotter hairpin	2		100MC9252
7	Fitting JIC	2		100MC9254
8	Frame	1		Not available
9	Nut	4		100MC4502
10	Lower hook**	2		100MC9347
11	Lower bearing**	2		100MC9330
12	Pin	1		100MC9329
13	Support	2		100MC4359
14	Washer**	4		100MC4321
15	Bolt**	4		100MC9348
*	Bearing kit for sideshifter (incl 1 (2x) & 11 (2x))	1		100MC9332
**	Hook kit for sideshifter (incl 9 (2x), 10 (1x), 14 (2x) & 15 (2x))	2	Set for 1 hook	100MC9349
Cylinder of sideshifter				
	Cylinder assembly	1	Stroke: 200 mm	100MC9328
16	Shell	1		100MC9334
17	Nut	1		100MC9335
18	Piston	1		100MC9336
19	Seal*	1		Included in seal kit
20	Back up ring*	1		Included in seal kit
21	Retainer	1		100MC9340
22	O-ring*	1		Included in seal kit
23	Back up ring*	1		Included in seal kit
24	Ring steel	1		100MC9341
25	Snap ring	1		Included in seal kit
26	Seal*	1		Included in seal kit
27	Wiper ring*	1		100MC9344
28	Cylinder rod	1		100MC9345
*	Seal kit (incl 19 (1x), 20 (1x), 22 (1x), 23 (1x), 26 (1x) & 27 (1x))	1		100MC9346

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2000 KG

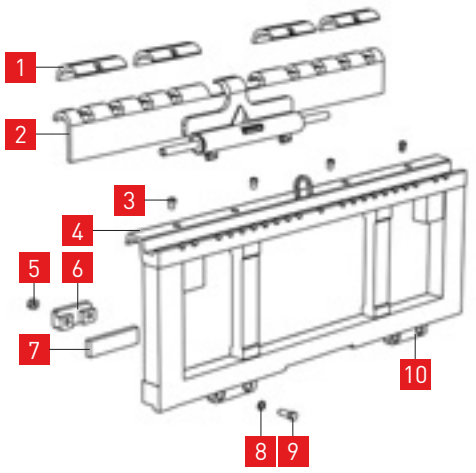


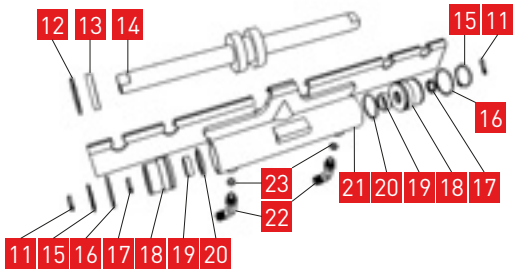


Type: 40ESS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2		100MC4316
2	Support	1	On request, give serial n°	
3	Cylinder	1		
4	Nut**	4	See cylinder section	100MC4318
5	Lower hook**	2		100MC4319
6	Lower bearing*	2		100MC4320
7	Washer**	4		100MC4321
8	Bolt**	4		100MC4350
9	Support	2		100MC4323
*	Bearing kit for sideshifter (incl 1 (2x) & 6 (2x))	1		100MC4503
**	Hook kit for sideshifter (incl 4 (2x), 5 (1x), 7 (2x) & 8 (2x))	2	Set for 1 hook	100MC4361
Cylinder of sideshifter				
	Cylinder assembly	1	Width of sideshifter: 776–900 mm	100MC9279
	Cylinder assembly	1	Width of sideshifter: 901–965 mm	100MC9280
	Cylinder assembly	1	Width of sideshifter: 966–1020 mm	100MC9281
	Cylinder assembly	1	Width of sideshifter: 1021–1040 mm	100MC9282
10	Wiper*	2		Included in seal kit
11	Bearing ring*	2		Included in seal kit
12	Piston seal*	1		Included in seal kit
13	Rod	1		100MC4334
14	Snap ring	2		100MC9285
15	Retaining ring	2		100MC9286
16	Wiper ring*	2		Included in seal kit
17	Retainer	2		100MC9287
18	Rod seal*	2		Included in seal kit
19	O-ring*	2		Included in seal kit
20	Cylinder shell	1		Not available
21	Fitting	2	Thread: n° 6 JIC	100MC4341
21	Fitting	2	Thread: 10 mm; L-series	100MC4342
21	Fitting	2	Thread: 12 mm; L-series	100MC9289
21	Fitting	2	Thread: 10 mm; S-series	100MC9290
21	Fitting	2	Thread: 12 mm; S-series	100MC9291
22	Spacer	2		100MC4346
*	Seal kit (incl 10 (2x), 11 (2x), 12 (1x), 16 (2x), 18 (2x) & 19 (2x))	1		100MC9292

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG



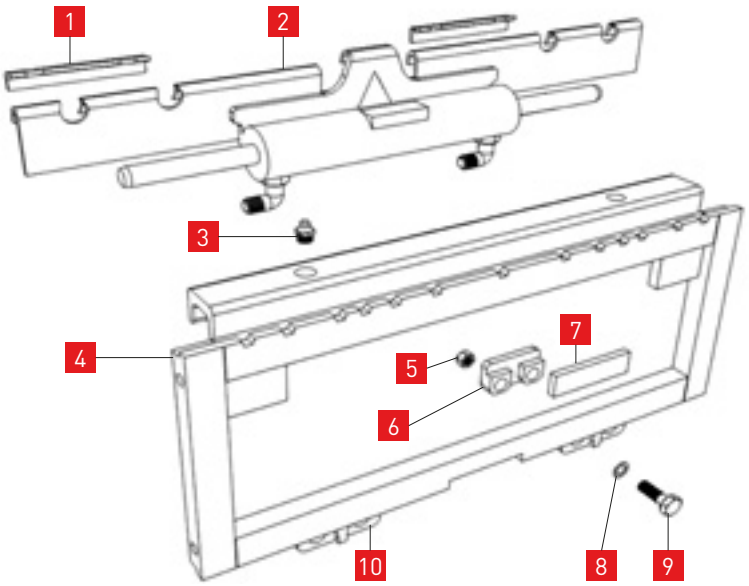


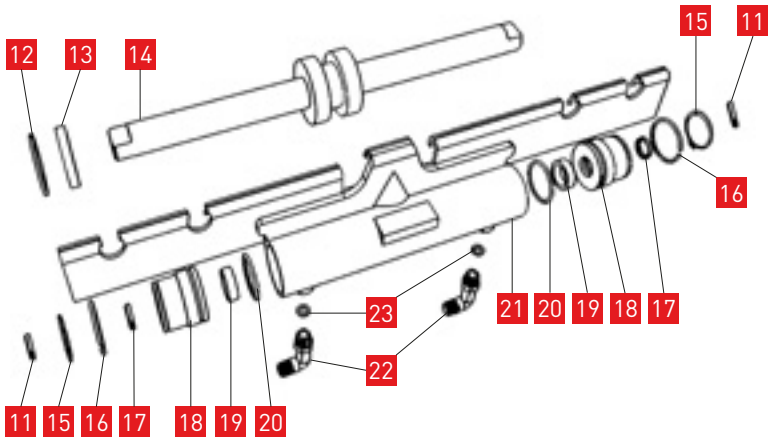
Type: 55ESS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2	Width of sideshifter: 736–1045 mm	100MC4316
1	Upper bearing*	4	Width of sideshifter: 1046–1300 mm	100MC4316
2	Cylinder	1	See cylinder section	
3	Grease nipple	4		100MC4317
4	Frame	1	On request, give serial n°	
5	Nut**	2		100MC4318
6	Lower hook**	2		100MC4319
7	Lower bearing*	2		100MC4320
8	Washer**	4		100MC4321
9	Bolt**	2		100MC4350
10	Support	2		100MC4323
*	Bearing kit for sideshifter (incl 1 (2x) & 7 (2x))	1	Width of sideshifter: 736–1045 mm	100MC4503
*	Bearing kit for sideshifter (incl 1 (4x) & 7 (2x))	1	Width of sideshifter: 1046–1300 mm	100MC4324
**	Hook kit for sideshifter (incl 5 (1x), 6 (1x), 8 (2x) & 9 (1x))	2	Set for 1 hook	100MC4325
Cylinder of sideshifter				
	Cylinder assembly	1	Width of sideshifter: 1046–1125 mm	100MC4326
	Cylinder assembly	1	Width of sideshifter: 1126–1205 mm	100MC4327
	Cylinder assembly	1	Width of sideshifter: 1206–1300 mm	100MC4328
	Cylinder assembly	1	Width of sideshifter: 1301–1420 mm	100MC4329
	Cylinder assembly	1	Width of sideshifter: 1421–1650 mm	100MC4330
11	Wiper***	2		Included in seal kit
12	Bearing ring***	2		Included in seal kit
13	Piston seal***	1		Included in seal kit
14	Rod	1		100MC4334
15	Snap ring	2		100MC4335
16	Retaining ring	2		100MC4336
17	Wiper ring***	2		Included in seal kit
18	Retainer	2		100MC4338
19	Rod seal***	2		Included in seal kit
20	O-ring***	2		Included in seal kit
21	Cylinder shell	1		Not available
22	Fitting	2	Thread: n° 6 JIC	100MC4341
22	Fitting	2	Thread: 10 mm, L-series	100MC4342
22	Fitting	2	Thread: 12 mm, L-series	100MC4343
22	Fitting	2	Thread: 10 mm, S-series	100MC4344
22	Fitting	2	Thread: 12 mm, S-series	100MC4345
***	Seal kit (incl 11 (2x), 12 (2x), 13 (1x), 17 (2x), 19 (2x) & 20 (2x))			100MC4347

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 3, CAPACITY: 3000 KG

Type: 60ESS





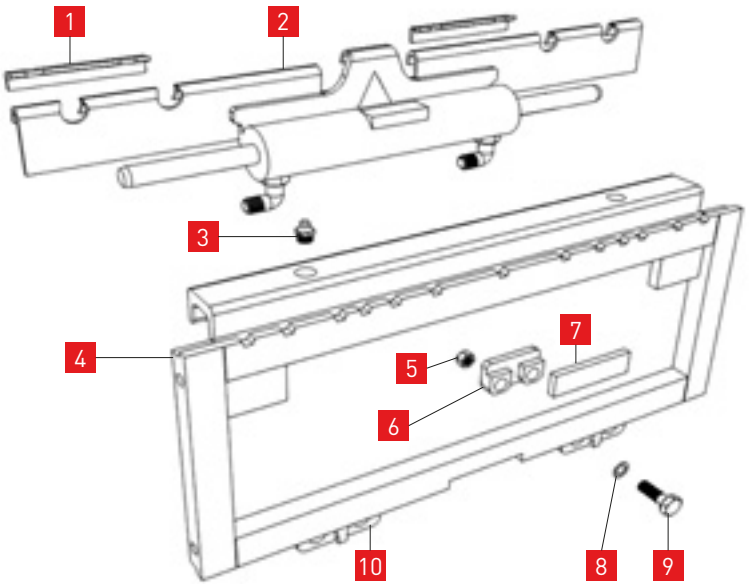
SPARE PARTS FOR SIDESHIFTER CASCADE SLIDING PIECES VERSION, FEM 3, CAPACITY: 3000 KG

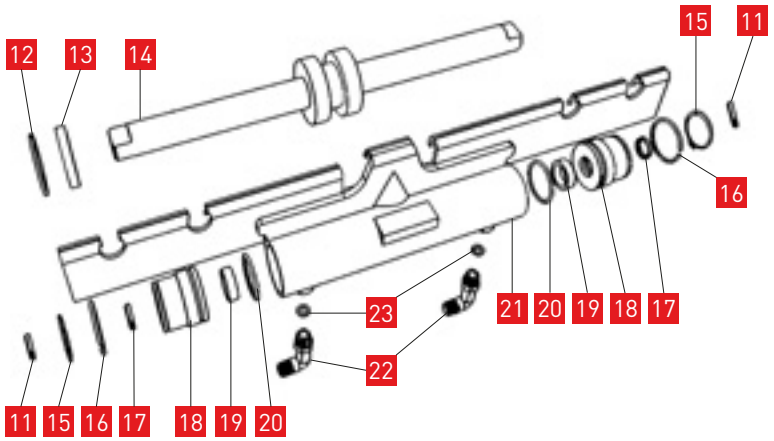
Type: 60ESS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2		100MC4348
2	Cylinder	1	See cylinder section	
3	Grease nipple	2		100MC4317
4	Frame	1	On request, give serial n°	
5	Nut**	4		100MC4318
6	Lower hook**	2		100MC4319
7	Lower bearing*	2		100MC4349
8	Washer**	4		100MC4321
9	Bolt**	4		100MC4322
10	Support	1		100MC4359
*	Bearing kit for sideshifter (incl 1 (2x) & 7 (2x))	1		100MC4351
**	Hook kit for sideshifter (incl 5 (2x), 6 (1x), 8 (2x) & 9 (2x))	2	Set for 1 hook	100MC4325
Cylinder of sideshifter				
	Cylinder assembly	1	Width of sideshifter: 915–1040 mm	100MC4352
	Cylinder assembly	1	Width of sideshifter: 1041–1245 mm	100MC4353
	Cylinder assembly	1	Width of sideshifter: 1246–1300 mm	100MC4354
11	Wiper***	2		Included in seal kit
12	Bearing ring***	2		Included in seal kit
13	Piston seal***	1		Included in seal kit
14	Rod	1		100MC4355
15	Snap ring	2		100MC4335
16	Retaining ring	2		100MC4336
17	Wiper ring***	2		Included in seal kit
18	Retainer	2		100MC4338
19	Rod seal***	2		Included in seal kit
20	O-ring***	2		Included in seal kit
21	Cylinder shell	1		Not available
22	Fitting	2	Thread: n° 6 JIC	100MC4341
22	Fitting	2	Thread: 10 mm; L-series	100MC4342
22	Fitting	2	Thread: 12 mm; L-series	100MC4343
22	Fitting	2	Thread: 10 mm; S-series	100MC4344
22	Fitting	2	Thread: 12 mm; S-series	100MC4345
23	Spacer	2		100MC4346
***	Seal kit (incl 11 (2x), 12 (2x), 13 (1x), 17 (2x), 19 (2x) & 20 (2x))	1		100MC4347

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 3, CAPACITY: 5000 KG

Type: 100ESS



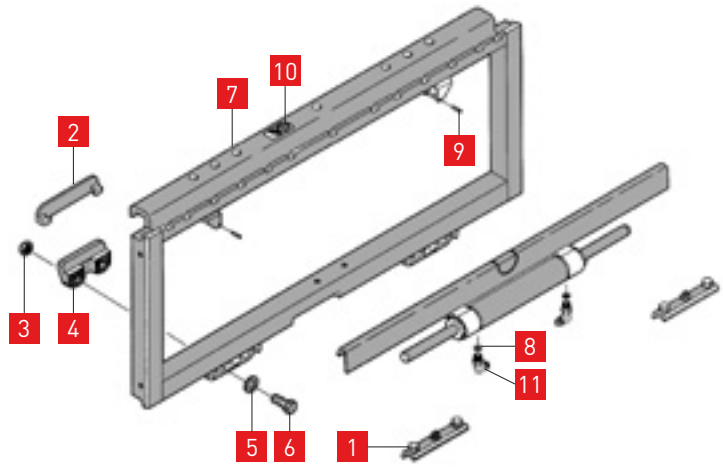


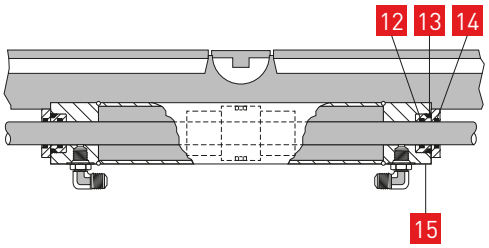
SPARE PARTS FOR SIDESHIFTER CASCADE SLIDING PIECES VERSION, FEM 3, CAPACITY: 5000 KG

Type: 100ESS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*/**	2		100MC4348
2	Cylinder	1	See cylinder section	
3	Grease nipple	4		100MC4317
4	Frame	1	On request, give serial n°	
5	Nut***	6		100MC4318
6	Lower hook***	2	Width of sideshifter: ⩽ 1490 mm	100MC4319
6	Lower hook***	3	Width of sideshifter: ⩾ 1500 mm	100MC4319
7	Lower bearing*	2	Width of sideshifter: ⩽ 1490 mm	100MC4356
7	Lower bearing**	3	Width of sideshifter: ⩾ 1500 mm	100MC4356
8	Washer***	6		100MC4321
9	Bolt***	6		100MC4322
10	Support	2	Width of sideshifter: ⩽ 1490 mm	100MC4359
10	Support	3	Width of sideshifter: ⩾ 1500 mm	100MC4359
*	Bearing kit for sideshifter (incl 1 (2x) & 7 (2x))	1	Width of sideshifter: ⩽ 1490 mm	100MC4358
**	Bearing kit for sideshifter (incl 1 (2x) & 7 (3x))	1	Width of sideshifter: ⩾ 1500 mm	100MC4360
***	Hook kit for sideshifter (incl 5 (2x), 6 (2x), 8 (2x) & 9 (2x)), set for 1 hook	2	Width of sideshifter: ⩽ 1490 mm	100MC4361
***	Hook kit for sideshifter (incl 5 (2x), 6 (2x), 8 (2x) & 9 (2x)), set for 1 hook	3	Width of sideshifter: ⩾ 1500 mm	100MC4361
Cylinder of sideshifter				
	Cylinder assembly	1	Width of sideshifter: 941–1245 mm	100MC4362
	Cylinder assembly	1	Width of sideshifter: 1246–1370 mm	100MC4363
	Cylinder assembly	1	Width of sideshifter: 1371–1695 mm	100MC4364
	Cylinder assembly	1	Width of sideshifter: 1696–2085 mm	100MC4365
11	Wiper****	2		Included in seal kit
12	Bearing ring****	2		Included in seal kit
13	Piston seal****	1		Included in seal kit
14	Rod assembly	1		100MC4369
15	Snap ring	2		100MC4370
16	Retaining ring	2		100MC4371
17	Rod wiper****	2		Included in seal kit
18	Retainer	2		100MC4372
19	Back-up ring****	2		Included in seal kit
20	Rod seal****	2		Included in seal kit
21	Cylinder shell	1		Not available
22	Fitting	2	Thread: n° 6 JIC	100MC4341
22	Fitting	2	Thread: 10 mm; L-series	100MC4342
22	Fitting	2	Thread: 12 mm; L-series	100MC4343
22	Fitting	2	Thread: 10 mm; S-series	100MC4344
22	Fitting	2	Thread: 12 mm; S-series	100MC4345
23	Washer	2		100MC4346
****	Seal kit (incl 11 (2x), 12 (2x), 17 (2x), 19 (2x) & 20 (2x))	1		100MC4375

SPARE PARTS FOR SIDESHIFTER CASCADE

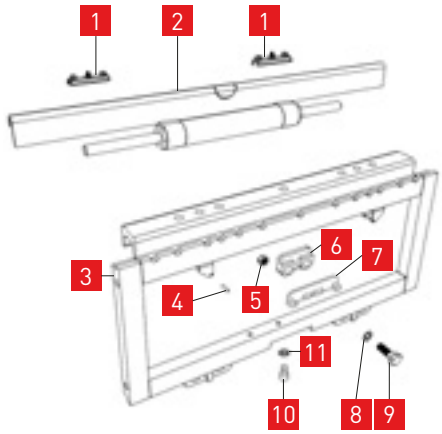


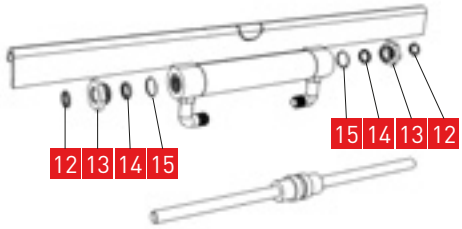


Type: 55F-SSS-...

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing nylon	2		100MC9311
1	Upper bearing nylon	2	From date of construction October 1999 and onwards	100MC9312
2	Lower bearing nylon	2		100MC9313
2	Lower bearing nylon	2	From date of construction March 2000 and onwards	100MC9314
3	Nut*	4		100MC4318
4	Lower hook*	2		100MC4319
5	Washer*	4		100MC4321
6	Capscrew*	4		100MC4557
7	Frame	1	On request, give serial n°	
8	Restrictor washer	2		100MC9315
9	Roll pin	2		100MC4555
10	Safety decal	1		Not available
11	Fitting	2		100MC9254
*	Hook kit (complete for 1 hook, incl 3 (2x), 4 (1x), 5 (2x), 6 (2x))	2	Set for 1 hook	100MC9316
Cylinder of sideshifter				
	Cylinder assembly	1	Width of sideshifter: 780–840 mm	100MC9317
	Cylinder assembly	1	Width of sideshifter: 859–899 mm	100MC9318
	Cylinder assembly	1	Width of sideshifter: 900–1040 mm	100MC9319
	Cylinder assembly	1	Width of sideshifter: 1050–1140 mm	100MC9320
	Cylinder assembly	1	Width of sideshifter: 1150–1200 mm	100MC9321
12	Rod seal*	2		100MC4339
13	O-ring*	2		100MC4566
14	Rod wiper seal*	2		100MC4337
15	Retainer	2		100MC4567
*	Seal kit (incl 12 (2x), 13 (2x) & 14 (2x))	1		100MC4568

SPARE PARTS FOR SIDESHIFTER CASCADE SLIDING PIECES VERSION, FEM 3, CAPACITY: 3500 KG

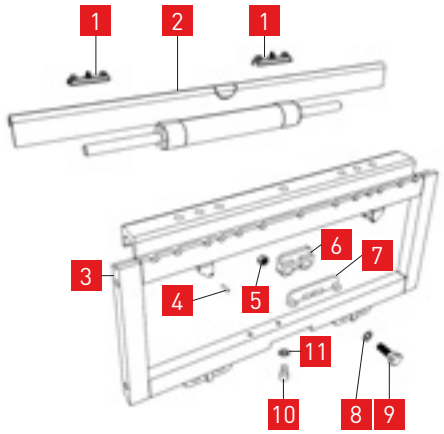


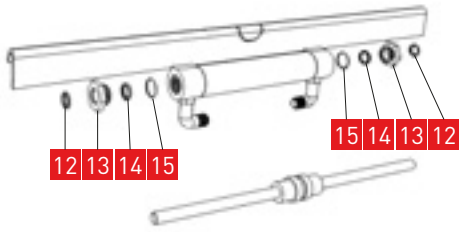


Type: 65FSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2	Material: nylon	100MC4554
2	Cylinder	1	On request, give serial n°	
3	Frame	1	On request, give serial n°	
4	Roll pin	2		100MC4569
5	Nut**	4		100MC4318
6	Lower hook**	2		100MC4319
7	Lower bearing*	2		100MC4556
8	Washer**	4		100MC4570
9	Bolt**	4		100MC4557
10	Bolt	2		100MC4558
11	Washer	1		100MC4574
*	Bearing kit for sideshifter (incl 1 (2x) & 7 (2x))	1		100MC4559
**	Hook kit for sideshifter (incl 5 (4x), 6 (2x), 8 (4x) & 9 (4x))	1	Set for 2 hooks	100MC4571
Cylinder of sideshifter				
12	Rod wiper seal*	2		Included in seal kit
13	Retainer	2		100MC4567
14	Rod seal*	2		Included in seal kit
15	O-ring*	2		Included in seal kit
*	Cylinder seal kit (incl 11 (2x), 12 (2x) & 13 (2x))	1		100MC4568

SPARE PARTS FOR SIDESHIFTER CASCADE
SLIDING PIECES VERSION, FEM 3, CAPACITY: 5000 KG

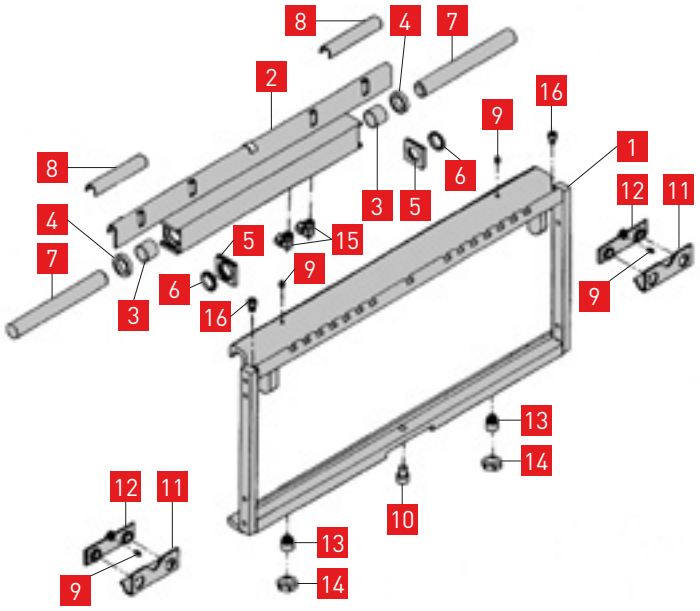




Type: 100FSS

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	2	Material: nylon	100MC4554
2	Cylinder	1	On request, give serial n°	
3	Frame	1	On request, give serial n°	
4	Roll pin	2		100MC4575
5	Nut**	4		100MC4318
6	Lower hook**	2		100MC4576
7	Lower bearing*	2		100MC4556
8	Washer**	4		100MC4570
9	Bolt**	4		100MC4322
10	Bolt	1		100MC4558
11	Washer	1		100MC4574
*	Bearing kit for sideshifter (incl 1 (2x) & 7 (2x))	1		100MC4559
**	Hook kit for sideshifter (incl 5 (4x), 6 (2x), 8 (4x) & 9 (4x))	1	Set for 2 hooks	100MC4571
Cylinder of sideshifter				
12	Rod wiper seal*	2		Included in seal kit
13	Retainer	2		100MC4579
14	Rod seal*	2		Included in seal kit
15	O-ring*	2		Included in seal kit
*	Cylinder seal kit (incl 10 (2x), 11 (2x) & 12 (2x))	1		100MC4580

SPARE PARTS FOR SIDESHIFTER KAUP

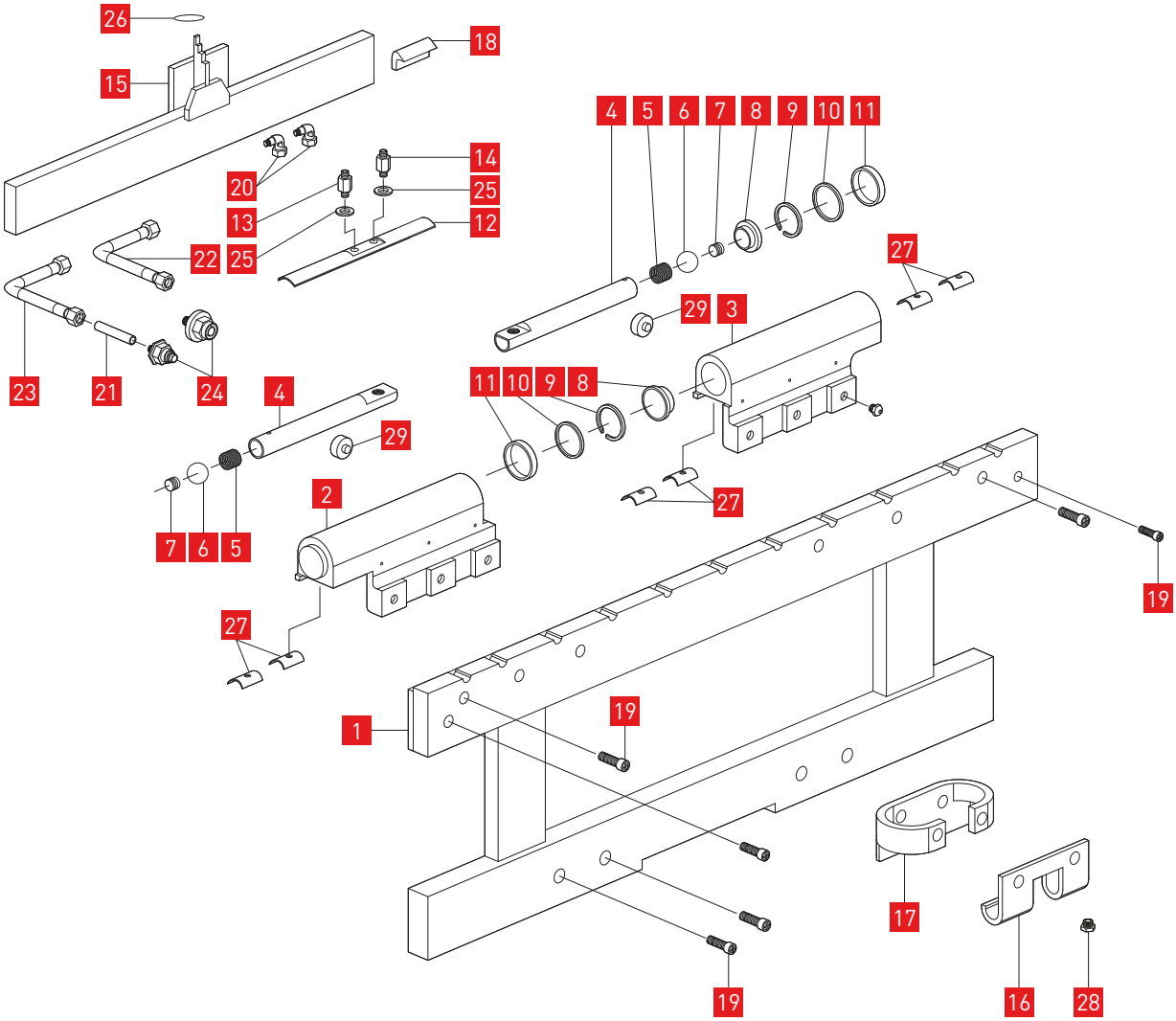


Type: 1 T/2 T 151 P4, P4 N, P4 ND

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Guide complete	1	For 1 T/2 T 151 P4 and P4 N	100MC4376
2	Guide complete	1	For 1 T/2 T 151 P4 ND	100MC4377
3	Bush	2	For 1 T/2 T 151 P4 and P4 N	100MC4378
3	Bush	2	For 1 T/2 T 151 P4 ND	100MC4379
4	Groove ring*	2	For 1 T/2 T 151 P4 and P4 N	100MC4380
4	Groove ring**	2	For 1 T/2 T 151 P4 ND	100MC4381
5	Washer	2	For 1 T/2 T 151 P4 and P4 N	100MC4382
5	Washer	2	For 1 T/2 T 151 P4 ND	100MC4383
6	Wiper ring*	2	For 1 T/2 T 151 P4 and P4 N	100MC4384
6	Wiper ring**	2	For 1 T/2 T 151 P4 ND	100MC4385
7	Piston rod	2	For 1 T/2 T 151 P4 and P4 N	100MC4386
7	Piston rod	2	For 1 T/2 T 151 P4 ND	100MC4387
8	Upper bearing***	2		100MC4388
9	Grease nipples***	4		100MC4389
10	Screw	1		100MC4390
11	Hook	2	From year of construction 1999 and onwards Material: cast iron	100MC4391
11	Hook	2	Up to year of construction 1999 Material: stamped plate	100MC4392
12	Lower bearing***	2		100MC4393
13	Screw plug	2		100MC4394
14	Nut	2		100MC4395
15	Fitting	2	On request, give serial n°	
16	Screw	2	On request, give serial n°	
*	Seal kit complete (incl 4 (2x), 6 (2x))	1	For 1 T/2 T 151 P4 and P4 N	100MC4396
**	Seal kit (incl 4 (2x), 6 (2x))	1	For 1 T/2 T 151 P4 ND	100MC4397
***	Bearing kit (incl 8 (2x), 9 (4x), 12 (2x))	1		100MC4398

SPARE PARTS FOR SIDESHIFTER KAUP

Type: 1 T/2 T 151 P3



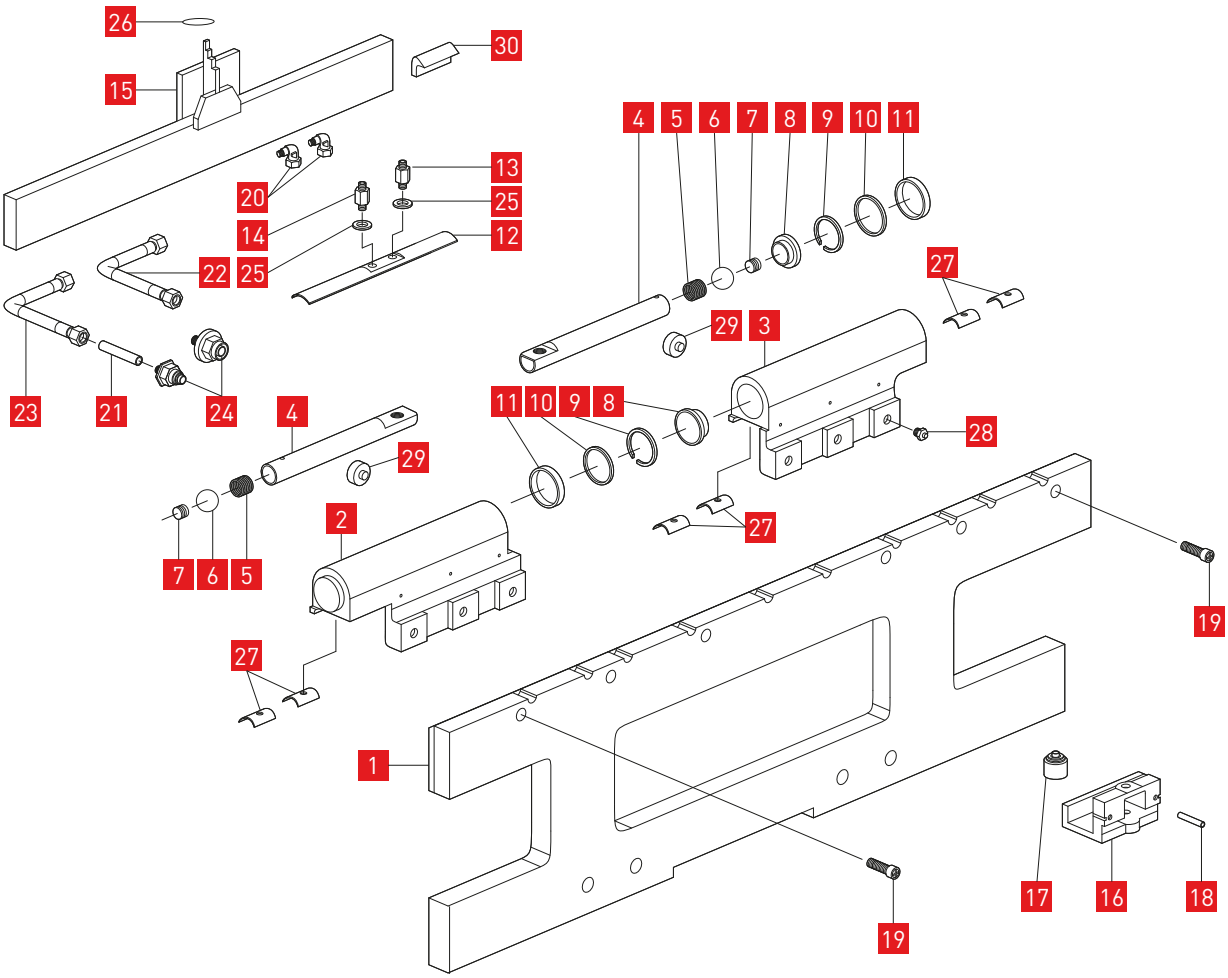
SPARE PARTS FOR SIDESHIFTER KAUP

Type: 1 T/2 T 151 P3

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Housing complete, right-hand side	1	Stroke: 80 mm, incl 4–11; for 1 T 151 P3	100MC4399
2	Housing complete, right-hand side	1	Stroke: 100 mm, incl 3, 5–11; for 2 T 151 P3	100MC4400
3	Housing complete, left-hand side	1	Stroke: 80 mm, incl 4–11; for 1 T 151 P3	100MC4401
3	Housing complete, left-hand side	1	Stroke: 100 mm, incl 3, 5–11; for 2 T 151 P3	100MC4402
4, 5, 6, 7	Piston rod	2	Stroke: 80 mm; for 1 T 151 P3	100MC4286
4, 5, 6, 7	Piston rod	2	Stroke: 100 mm; for 2 T 151 P3	100MC4287
5	Pressure spring	2		100MC4288
6	Ball	2		100MC4403
7	Screw plug	2		100MC4404
8	Wiper ring*	2		100MC4405
9	Circlips	2		100MC4292
10	Washer	2		100MC4293
11	Groove ring*	2		100MC4380
12	Protection plate	1		100MC4406
13	Screw set	1		100MC4296
14	Screw set	1		100MC4296
15	Plate	1	Length: 800 mm	100MC4297
15	Plate	1	Length: 1020 mm	100MC4298
16	Hook	2		100MC4407
17	Lower bearing**	2		100MC4408
18	Intermediate element	4		100MC4311
19	Screw set	12		100MC4409
20	Elbow	2		100MC4305
21	Pipe	2	On request, give serial n°	
22	Hose line	1	On request, give serial n°	
23	Hose line	1	On request, give serial n°	
24	Quick coupling	2	On request, give serial n°	
25	Seal ring	2		100MC4306
26	O-ring	1		100MC4307
27	Upper bearing*	6		100MC4308
28	Grease nipple*	6		100MC4389
29	Spacer	2		100MC4310
*	Seal kit (incl 8 (2x), 11 (2x))	1		100MC4312
**	Bearing kit (incl 17 (2x) & 27 (6x))	1		100MC4410

SPARE PARTS FOR SIDESHIFTER KAUP

Type: 1 T/2 T/3 T 151 P2



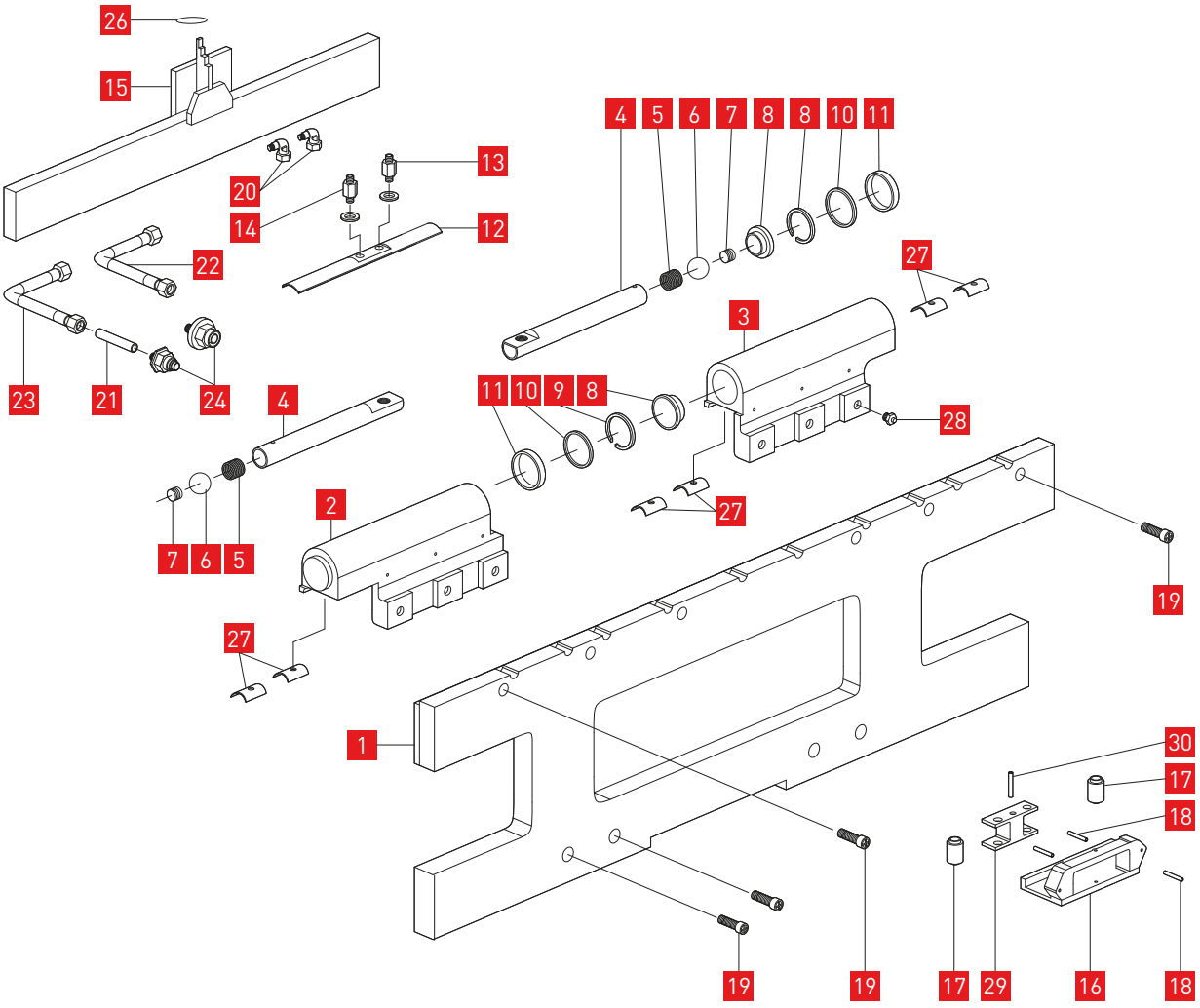
SPARE PARTS FOR SIDESHIFTER KAUP

Type: 1 T/2 T/3 T 151 P2

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Housing complete, right-hand side	1	Stroke: 80 mm, incl 4–11; for 1 T 151 P2	100MC4282
2	Housing complete, right-hand side	1	Stroke: 100 mm, incl 3, 5–11; for 2 T/3 T 151 P2	100MC4283
3	Housing complete, left-hand side	1	Stroke: 80 mm, incl 4–11; for 1 T 151 P2	100MC4284
3	Housing complete, left-hand side	1	Stroke: 100 mm, incl 3, 5–11; for 2 T/3 T 151 P2	100MC4285
4, 5, 6, 7	Piston rod	2	Stroke: 80 mm; for 1 T 151 P2	100MC4286
4, 5, 6, 7	Piston rod	2	Stroke: 100 mm; for 2 T/3 T 151 P2	100MC4287
5	Pressure spring	2		100MC4288
6	Ball	2		100MC4289
7	Screw plug	2		100MC4290
8	Wiper ring*	2		100MC4291
9	Circlips	2		100MC4292
10	Washer	2		100MC4293
11	Groove ring*	2		100MC4294
12	Protection plate	1		100MC4295
13	Screw set	1		100MC4296
14	Screw set	1		100MC4296
15	Plate	1	Length: 800 mm; for 1 T/2 T 151 P2	100MC4297
15	Plate	1	Length: 1020 mm; for 1 T/2 T 151 P2	100MC4298
15	Plate	1	Length: 1020 mm; for 3 T 151 P2	100MC4299
16	Hook**	2	For 1 T/2 T 151 P2	100MC4300
16	Hook**	2	For 3 T 151 P2	100MC4301
17	Supporting roller**/***	2		100MC4302
18	Fixing pin**	2		100MC4303
19	Screw	10		100MC4304
20	Elbow	2		100MC4305
21	Pipe	2	On request, give serial n°	
22	Hose	1	On request, give serial n°	
23	Hose	1	On request, give serial n°	
24	Quick coupling	2	On request, give serial n°	
25	Seal ring	2		100MC4306
26	O-ring	1		100MC4307
27	Sliding piece***	6		100MC4308
28	Grease nipples	6		100MC4309
29	Spacer	2		100MC4310
30	Intermediate element	4		100MC4311
*	Seal kit (incl 8 (2x), 11 (2x))	1		100MC4312
**	Hook kit (complete for 1 hook, incl 16 (1x), 17 (1x), 18 (1x))	2	For 1 T/2 T 151 P2, set for 1 hook	100MC4313
**	Hook kit (complete for 1 hook, incl 16 (1x), 17 (1x), 18 (1x))	2	For 3 T 151 P2, set for 1 hook	100MC4314
***	Roller and bearing kit (incl 17 (2x), 27 (6x))	1		100MC4315

SPARE PARTS FOR SIDESHIFTER KAUP

Type: 4 T 151 P2



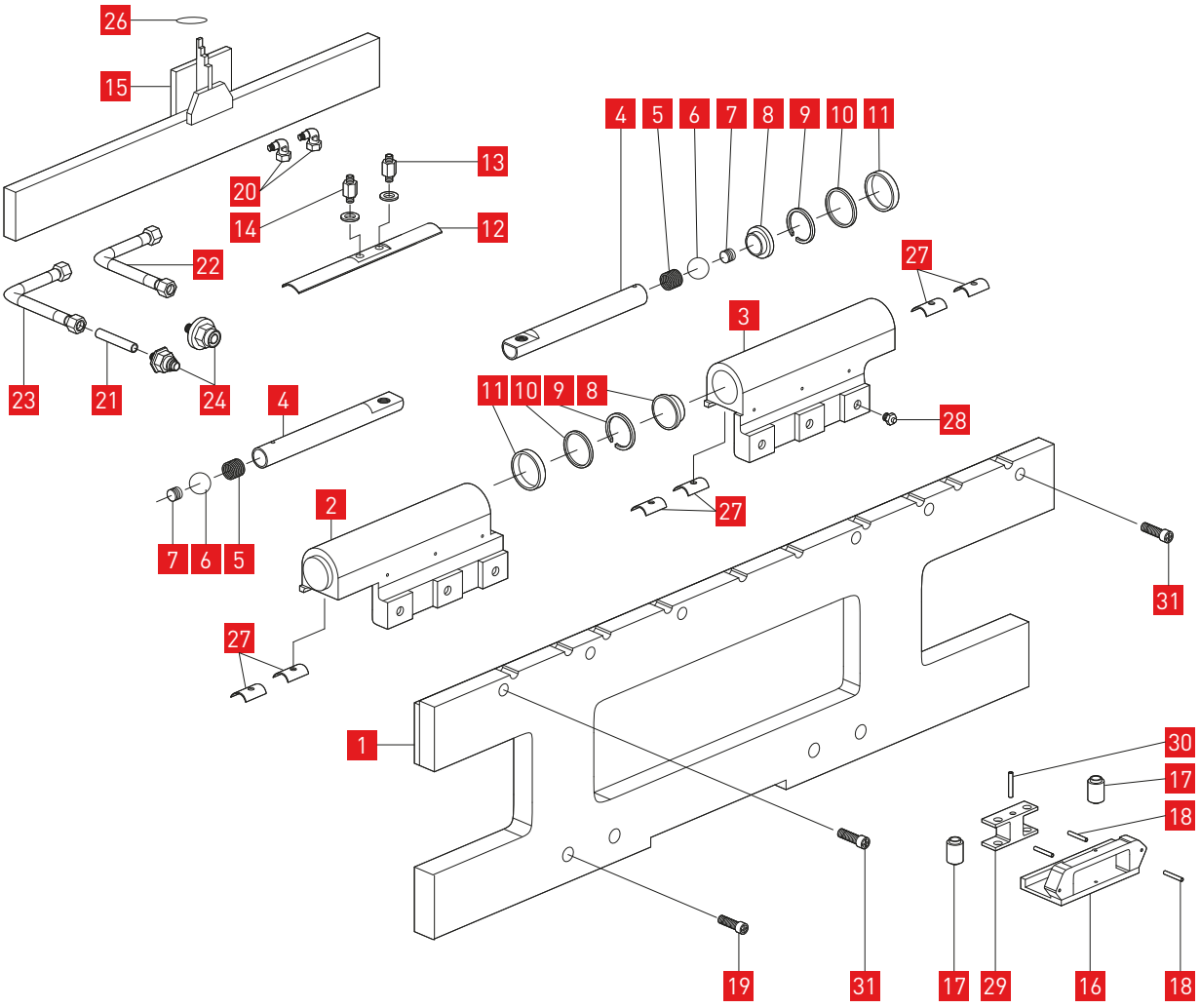
SPARE PARTS FOR SIDESHIFTER KAUP

Type: 4 T 151 P2

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Housing complete, right-hand side	1	Stroke: 100 mm, incl 4–11	100MC9351
	Housing complete, right-hand side	1	Stroke: 125 mm, incl 3, 5–11	100MC9352
3	Housing complete, left-hand side	1	Stroke: 100 mm, incl 4–11	100MC9353
	Housing complete, left-hand side	1	Stroke: 125 mm, incl 3, 5–11	100MC9354
4	Piston rod	2	Stroke: 100 mm, incl 4–7	100MC4421
	Piston rod	2	Stroke: 125 mm, incl 4–7	100MC4422
5	Pressure spring	2		100MC4426
6	Ball	2		100MC4289
7	Screw plug	2		100MC4290
8	Wiper ring*	2		100MC4427
9	Circlip	2		100MC4429
10	Washer	2		100MC4431
11	Groove ring*	2		100MC4433
12	Protection plate	1		100MC4435
13	Screw set	1		100MC4296
14	Screw set	1		100MC4296
15	Plate length: 1100 mm	1		100MC9355
16	Hook**	2		100MC9356
17	Supporting roller**/***	4		100MC9357
18	Fixing pin**	6		100MC4303
19	Screw	10		100MC4304
20	Elbow	2		100MC4305
21	Pipe	2	On request, give serial n°	
22	Hose line	1	On request, give serial n°	
23	Hose line	1	On request, give serial n°	
24	Quick coupling	2	On request, give serial n°	
26	O-ring	1		100MC4307
27	Sliding piece***	6		100MC4445
28	Grease nipple	6		100MC4309
29	Holder**	2		100MC4446
30	Bolt**	2		100MC4447
*	Seal kit (incl 8 (2x) & 11 (2x))	1		100MC4448
**	Hook kit (complete for 1 hook, incl 16 (1x), 17 (2x), 18 (3x), 29 (1x) & 30 (1x))	2	Set for 1 hook	100MC9358
***	Roller and bearing kit (incl 17 (4x) & 27 (6x))	1		100MC4452

SPARE PARTS FOR SIDESHIFTER KAUP

Type: 5 T/6 T 151 P2

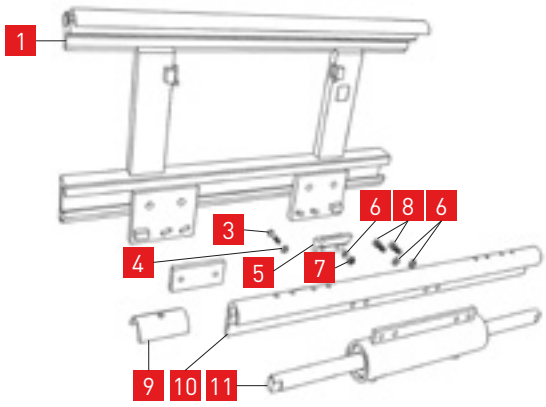


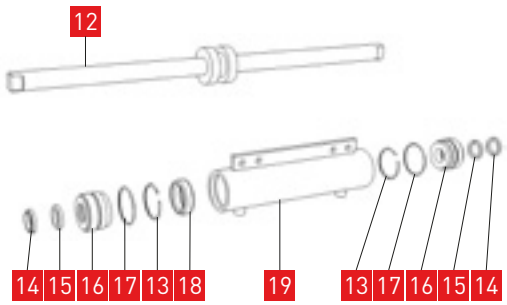
SPARE PARTS FOR SIDESHIFTER KAUP

Type: 5 T/6 T 151 P2

Fig	Description	Quantity	Remarks	REF
1	Frame	1	On request, give serial n°	
2	Housing complete, right-hand side	1	Stroke: 100 mm, incl 4–11; for 5 T 151 P2	100MC4411
2	Housing complete, right-hand side	1	Stroke: 125 mm, incl 3, 5–11; for 5 T 151 P2	100MC4412
2	Housing complete, right-hand side	1	Stroke: 100 mm, incl 4–11; for 6 T 151 P2	100MC4413
2	Housing complete, right-hand side	1	Stroke: 125 mm, incl 4–11; for 6 T 151 P2	100MC4414
2	Housing complete, right-hand side	1	Stroke: 160 mm, incl 4–11; for 6 T 151 P2	100MC4415
3	Housing complete, left-hand side	1	Stroke: 100 mm, incl 4–11 for 5 T 151 P2	100MC4416
3	Housing complete, left-hand side	1	Stroke: 125 mm, incl 3, 5–11; for 5 T 151 P2	100MC4417
3	Housing complete, left-hand side	1	Stroke: 100 mm, incl 4–11; for 6 T 151 P2	100MC4418
3	Housing complete, left-hand side	1	Stroke: 125 mm, incl 4–11; for 6 T 151 P2	100MC4419
3	Housing complete, left-hand side	1	Stroke: 160 mm, incl 4–11; for 6 T 151 P2	100MC4420
4	Piston rod	2	Stroke: 100 mm, incl 4–7; for 5 T 151 P2	100MC4421
4	Piston rod	2	Stroke: 125 mm, incl 4–7; for 5 T 151 P2	100MC4422
4	Piston rod	2	Stroke: 100 mm, incl 4–7; for 6 T 151 P2	100MC4423
4	Piston rod	2	Stroke: 125 mm, incl 4–7; for 6 T 151 P2	100MC4424
4	Piston rod	2	Stroke: 160 mm, incl 4–7; for 6 T 151 P2	100MC4425
5	Pressure spring	2		100MC4426
6	Ball	2		100MC4289
7	Screw plug	2		100MC4290
8	Wiper ring*	2	For 5 T 151 P2	100MC4427
8	Wiper ring**	2	For 6 T 151 P2	100MC4428
9	Circlip	2	For 5 T 151 P2	100MC4429
9	Circlip	2	For 6 T 151 P2	100MC4430
10	Washer	2	For 5 T 151 P2	100MC4431
10	Washer	2	For 6 T 151 P2	100MC4432
11	Groove ring*	2	For 5 T 151 P2	100MC4433
11	Groove ring**	2	For 6 T 151 P2	100MC4434
12	Protection plate	1	For 5 T 151 P2	100MC4435
12	Protection plate	1	For 6 T 151 P2	100MC4436
13	Screw	1	For 5 T 151 P2	100MC4296
13	Screw	1	For 6 T 151 P2	100MC4437
14	Screw	1	For 5 T 151 P2	100MC4296
14	Screw	1	For 6 T 151 P2	100MC9359
15	Plate	1	Length: 1220 mm; for 5 T 151 P2	100MC4439
15	Plate	1	Length: 1390 mm; for 6 T 151 P2	100MC4440
15	Plate	1	Length: 1700 mm; for 6 T 151 P2	100MC4438
16	Hook***	2		100MC4441
17	Supporting roller***/****/*****	4		100MC4302
18	Fixing pin***	6		100MC4303
19	Screw	4		100MC4442
20	Elbow	2	For 5 T 151 P2	100MC4443
20	Elbow	2	For 6 T 151 P2	100MC4305
21	Pipe	2	On request, give serial n°	
22	Hose line	1	On request, give serial n°	
23	Hose line	1	On request, give serial n°	
24	Quick coupling	2	On request, give serial n°	
26	O-ring	1		100MC4307
27	Sliding piece****	6	For 6 T 151 P2	100MC4444
27	Sliding piece*****	6	For 5 T 151 P2	100MC4445
28	Greasing nipple	6		100MC4309
29	Holder***	2		100MC4446
30	Bolt***	2		100MC4447
31	Bolt	8	For 5 T 151 P2	100MC4453
31	Bolt	10	For 6 T 151 P2	100MC4453
*	Seal kit (incl 8 (2x), 11 (2x))	1	For 5 T 151 P2	100MC4448
**	Seal kit (incl 8 (2x), 11 (2x))	1	For 6 T 151 P2	100MC4449
***	Hook kit (complete for 1 hook, incl 16 (1x), 17 (2x), 18 (3x), 29 (1x), 30 (1x))	1	Set for 1 hook	100MC4450
****	Roller and bearing kit (incl 17 (4x), 27 (6x))		For 6 T 151 P2	100MC4451
*****	Roller and bearing kit (incl 17 (4x), 27 (6x))		For 5 T 151 P2	100MC4452

SPARE PARTS FOR SIDESHIFTER RONCARI DSL2
SLIDING PIECES VERSION, FEM 2, CAPACITY: 2500 KG
SPARE PARTS FOR SIDESHIFTER RONCARI DSL3
SLIDING PIECES VERSION, FEM 3, CAPACITY: 4900 KG

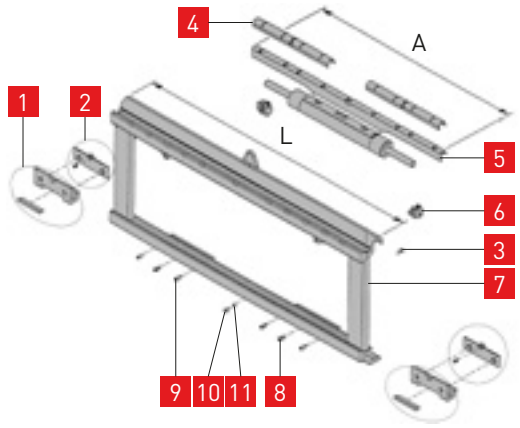


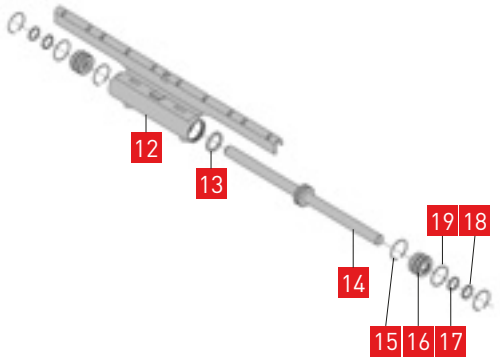


Type: DSL2–DSL3

Fig	Description	Quantity	Remarks	REF	
				DSL2	DSL3
Sideshifter					
1	Frame	1	On request, give serial n°		
2	Lower pad*	2		100MC9360	100MC9360
3	Bolt**	4		100MC9361	100MC9444
4	Washer**	5		100MC9362	100MC9362
5	Bracket**	2		100MC9363	100MC9445
6	Washer**	4		100MC9059	100MC9059
7	Nut**	4		100MC9364	100MC9446
8	Bolt	5		100MC9365	100MC9365
9	Upper bearing*	4		100MC9366	100MC9447
10	Slide rail	1	On request, give serial n°		
11	Cylinder	1	See cylinder section		
*	Bearing kit (incl 2 (2x), 9 (4x))	1		100MC9367	100MC9448
**	Hook kit (incl 3 (2x), 4 (2x), 5 (1x), 6 (2x) & 7 (2x))	2	Set for 1 hook	100MC9368	100MC9449
Cylinder of sideshifter					
	Cylinder assembly	1	Stroke: 200 mm	100MC9369	100MC9450
	Cylinder assembly	1	Stroke: 300 mm	100MC9370	100MC9451
12	Cylinder rod with seal	1	Stroke: 200 mm	100MC9371	100MC9452
	Cylinder rod with seal	1	Stroke: 300 mm	100MC9372	100MC9453
13	Circlips	2		100MC9373	100MC9429
14	Wiper*	2		Included in seal kit	Included in seal kit
15	Seal*	2		Included in seal kit	Included in seal kit
16	Flange	2		100MC9375	100MC9375
17	O-ring*	2		Included in seal kit	Included in seal kit
18	Composite seal*	1		Included in seal kit	Included in seal kit
19	Cylinder tube	1	On request, give serial n°		
*	Seal kit (incl 14 (2x), 15 (2x), 17 (2x) & 18 (1x))	1		100MC9378	100MC9434

SPARE PARTS FOR SIDESHIFTER RONCARI DSL2 FEM 2, CAPACITY: 2500 KG



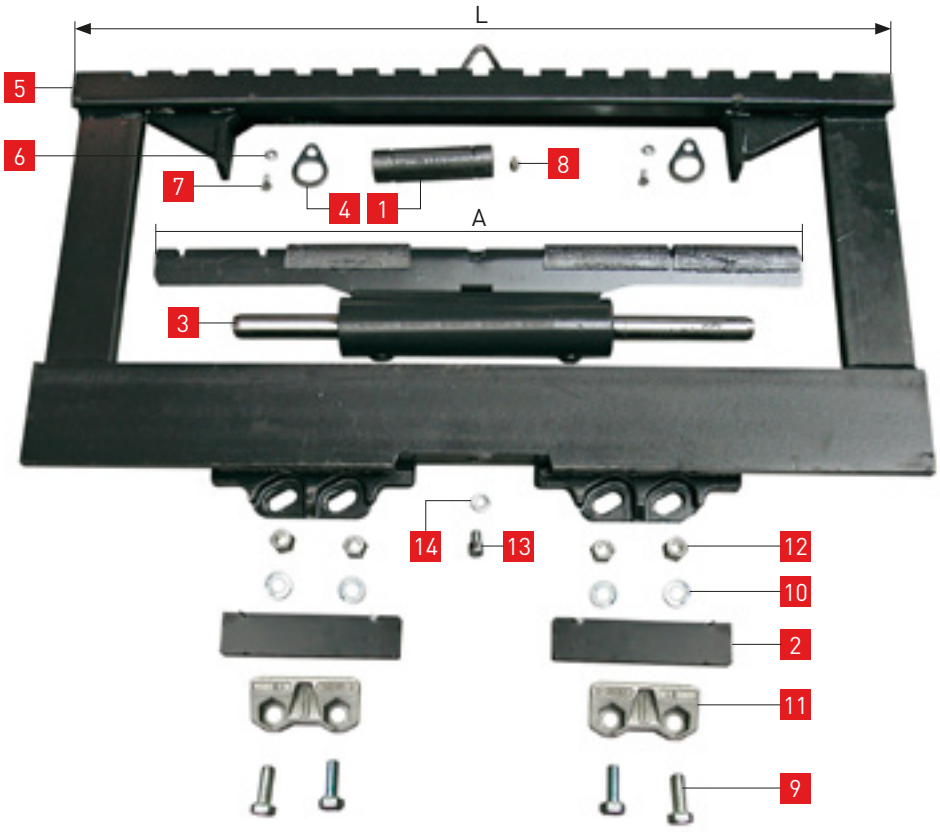


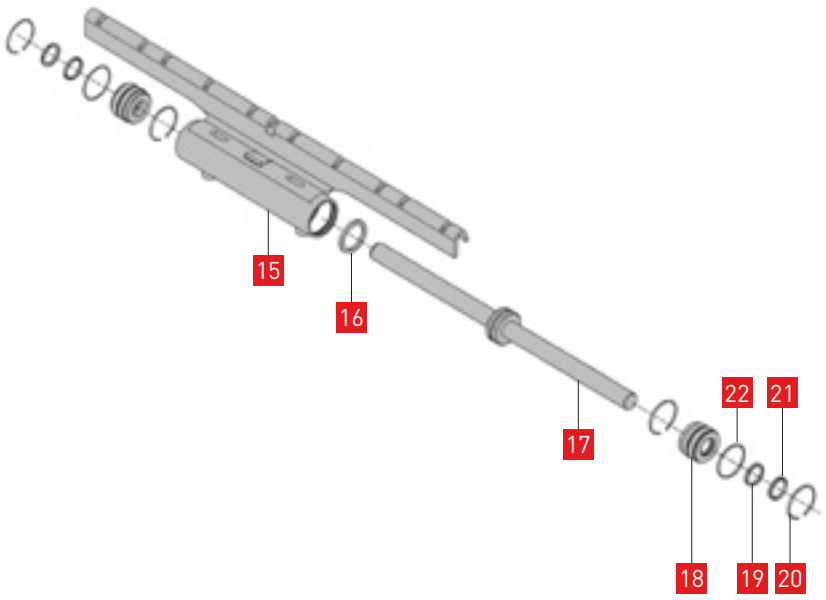
Type: DSL2-01.0001–DSL2-01.0015

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Hook******	2		100MC9379
2	Lower bearing*/**/***	2	Width of sideshifter: 780–1340 mm	100MC4524
2	Lower bearing****/*****	3	Width of sideshifter: 1345–1620 mm	100MC4524
3	Screw	2		100MC9380
4	Upper bearing*	3	Width of sideshifter: 780–820 mm	100MC9381
4	Upper bearing**	4	Width of sideshifter: 820–1060 mm	100MC9381
4	Upper bearing***/****	5	Width of sideshifter: 1060–1520 mm	100MC9381
4	Upper bearing*****	6	Width of sideshifter: 1520–1620 mm	100MC9381
5	Complete cylinder assembly	1	Width of sideshifter: 800 mm; A: 620 mm	100MC9382
5		1	Width of sideshifter: 880–990 mm; A: 680 mm	100MC9383
5		1	Width of sideshifter: 990–1050 mm; A: 780 mm	100MC9384
5		1	Width of sideshifter: 1090–1260 mm; A: 880 mm	100MC9385
5		1	Width of sideshifter: 1270–1420 mm; A: 980 mm	100MC9386
5		1	Width of sideshifter: 1420–1520 mm; A: 1080 mm	100MC9387
5		1	Width of sideshifter: 1530–1630 mm; A: 1180 mm	100MC9388
6	Plastic mount	2		100MC4535
7	Frame	1	On request, give serial n°	
8	Screw******	2		100MC9389
9	Spring cotter pin******	4		100MC9390
10	Screw TC	1		100MC9380
11	Washer	1		100MC9391
*	Bearing kit (incl 2 (2x) & 4 (3x))		Width of sideshifter: 780–820 mm	100MC9392
**	Bearing kit (incl 2 (2x) & 4 (4x))		Width of sideshifter: 820–1060 mm	100MC9393
***	Bearing kit (incl 2 (2x) & 4 (5x))		Width of sideshifter: 1060–1340 mm	100MC9394
****	Bearing kit (incl 2 (3x) & 4 (5x))		Width of sideshifter: 1345–1520 mm	100MC9395
*****	Bearing kit (incl 2 (3x) & 4 (6x))		Width of sideshifter: 1520–1620 mm	100MC9396
******	Hook kit (complete for 1 hook, incl 1 (1x), 8 (1x) & 9(2x))		Set for 1 hook	100MC9397
Cylinder of sideshifter				
12	Cylinder liner	1	On request, give serial n°	
13	Seal E/GR*	1		Included in seal kit
14	Rod + piston	1		100MC9398
15	Elastic ring	4		100MC9399
16	Ring nut	2		100MC9400
17	Seal EU*	2		Included in seal kit
18	Seal WRM*	2		100MC9066
19	O-ring*	2		Included in seal kit
*	Seal kit (incl 13 (1x), 17 (2x), 18 (2x) & 19 (2x))			100MC9403

SPARE PARTS FOR SIDESHIFTER RONCARI DSL3 FEM 3, CAPACITY: 5000 KG, 500 MM

Type: DSL3 1000R20-04–DSL3 2000R20-04, DSL3 5004.0001–DSL3 5004.0013





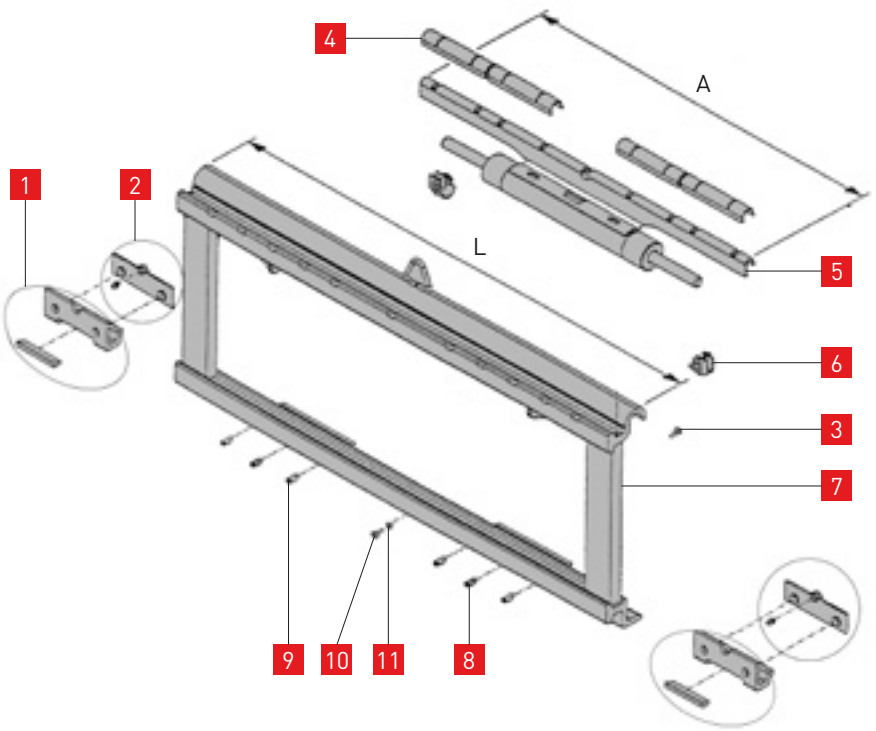
SPARE PARTS FOR SIDESHIFTER RONCARI DSL3 FEM 3, CAPACITY: 5000 KG, 500 MM

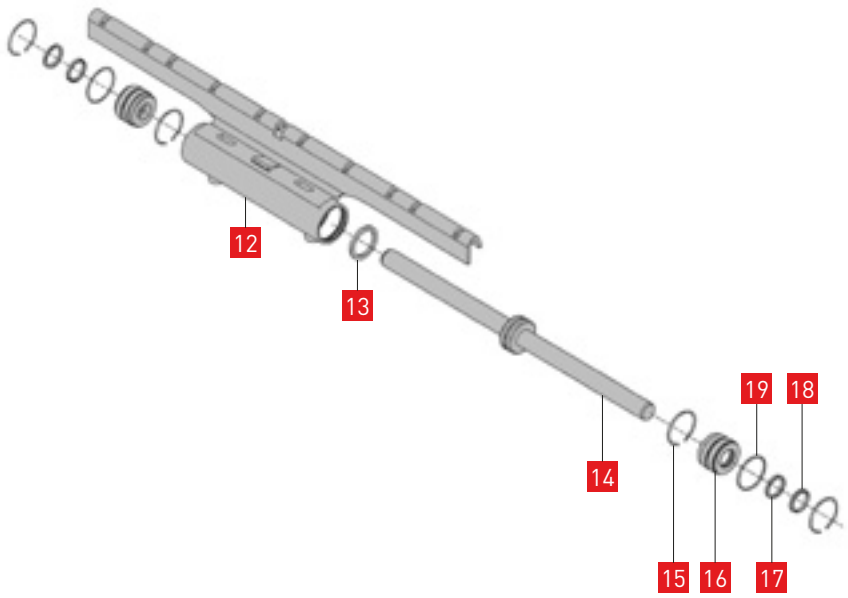
Type: DSL3 1000R20-04–DSL3 2000R20-04, DSL3 5004.0001–DSL3 5004.0013

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Upper bearing*	4	Width of sideshifter: 1000–1090 mm	100MC4526
1	Upper bearing**/***	5	Width of sideshifter: 1095–1450 mm	100MC4526
1	Upper bearing****/*****	7	Width of sideshifter: 1450–1800 mm	100MC4526
1	Upper bearing******	9	Width of sideshifter: 1800–2020 mm	100MC4526
2	Lower bearing*/**	2	Width of sideshifter: 1000–1320 mm	100MC9404
2	Lower bearing***/****	3	Width of sideshifter: 1350–1700 mm	100MC9404
2	Lower bearing*****/******	4	Width of sideshifter: 1720–2020 mm	100MC9404
3	Cylinder assembly	1	Width of sideshifter: 1000–1090 mm; A: 780 mm	100MC9405
3	Cylinder assembly	1	Width of sideshifter: 1095–1160 mm; A: 880 mm	100MC9406
3	Cylinder assembly	1	Width of sideshifter: 1160–1320 mm; A: 980 mm	100MC9407
3	Cylinder assembly	1	Width of sideshifter: 1320–1420 mm; A: 1080 mm	100MC9408
3	Cylinder assembly	1	Width of sideshifter: 1430–1620 mm; A: 1280 mm	100MC9409
3	Cylinder assembly	1	Width of sideshifter: 1620–1680 mm; A: 1380 mm	100MC9410
3	Cylinder assembly	1	Width of sideshifter: 1680–1770 mm; A: 1480 mm	100MC9411
3	Cylinder assembly	1	Width of sideshifter: 1770–2020 mm; A: 1680 mm	100MC9412
4	Washer	2		100MC9413
5	Frame	1	On request, give serial n°	
6	Washer grower	2		100MC9414
7	Screw TE	2		100MC9415
8	Grease nipple		Quantity on request	100MC4278
9	Screw TE*******	4		100MC9416
10	Washer grower*******	4		100MC9417
11	Lower Hook*******	2		100MC9418
12	Self-locking nut*******	4		100MC9419
13	Screw TC	1		100MC4538
14	Washer grower	1		100MC4539
*	Bearing kit (incl 1 (4x) & 2 (2x))		Width of sideshifter: 990–1090 mm	100MC9420
**	Bearing kit (incl 1 (5x) & 2 (2x))		Width of sideshifter: 1095–1320 mm	100MC9421
***	Bearing kit (incl 1 (5x) & 2 (3x))		Width of sideshifter: 1340–1420 mm	100MC9422
****	Bearing kit (incl 1 (7x) & 2 (3x))		Width of sideshifter: 1430–1680 mm	100MC9423
*****	Bearing kit (incl 1 (7x) & 2 (4x))		Width of sideshifter: 1690–1760 mm	100MC9424
******	Bearing kit (incl 1 (9x) & 2 (4x))		Width of sideshifter: 1760–2020 mm	100MC9425
*******	Hook kit (complete for 1 hook, incl 9 (2x), 10 (2x), 11 (1x) & 12 (2x))		Set for 1 hook	100MC9426
Cylinder of sideshifter				
15	Cylinder	1	On request, give serial n°	
16	Seal E/GR*	1		Included in seal kit
17	Rod + piston	1		100MC9428
18	Elastic ring	2		100MC9429
19	Ring nut	2		100MC9430
20	Seal EU*	2		Included in seal kit
21	Seal WRM*	2		Included in seal kit
22	O-ring*	2		Included in seal kit
*	Seal kit (incl 16 (1x), 20 (2x), 21 (2x) & 22 (2x))			100MC9434

SPARE PARTS FOR SIDESHIFTER RONCARI DSL3 FEM 3

Type: DSL3 1000A20–DSL3 2000A20, DSL3-01.0001–DSL3-01.0013, DSL3-01R0001–DSL3-01R0004



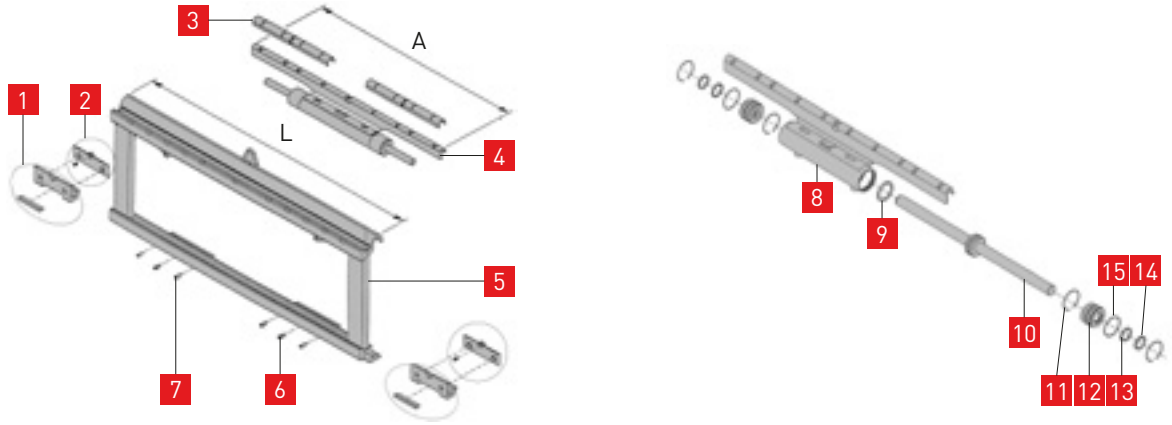


SPARE PARTS FOR SIDESHIFTER RONCARI DSL3 FEM 3

Type: DSL3 1000A20–DSL3 2000A20, DSL3-01.0001–DSL3-01.0013, DSL3-01R0001–DSL3-01R0004

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Hook******	2	Width of sideshifter: 1000–1090 mm	100MC4523
2	Lower bearing*/**/***/****/*****	3		100MC4524
3	Screw	2		100MC4525
4	Upper bearing*	4		100MC4526
4	Upper bearing**	5	Width of sideshifter: 1090–1590 mm	100MC4526
4	Upper bearing***	6	Width of sideshifter: 1600–1650 mm	100MC4526
4	Upper bearing****	7	Width of sideshifter: 1655–1760 mm	100MC4526
4	Upper bearing*****	8	Width of sideshifter: 1760–2010 mm	100MC4526
5	Complete cylinder assembly	1	Width of sideshifter: 1000 mm; A: 780 mm	100MC4527
5		1	Width of sideshifter: 1090–1260 mm; A: 880 mm	100MC4528
5		1	Width of sideshifter: 1260–1420 mm; A: 980 mm	100MC4529
5		1	Width of sideshifter: 1420–1550 mm; A: 1080 mm	100MC4530
5		1	Width of sideshifter: 1560–1620 mm; A: 1180 mm	100MC4531
5		1	Width of sideshifter: 1630–1670 mm; A: 1280 mm	100MC4532
5		1	Width of sideshifter: 1680–1760 mm; A: 1380 mm	100MC4533
5		1	Width of sideshifter: 1760–2010 mm; A: 1580 mm	100MC4534
6	Plastic mount	2		100MC4535
7	Frame	1	On request, give serial n°	
8	Screw******	2		100MC4536
9	Spring cotter pin******	4		100MC4537
10	Screw TC	1		100MC4538
11	Washer	1		100MC4539
*	Bearing kit (incl 2 (3x) & 4 (4x))		Width of sideshifter: 1000–1090 mm	100MC4540
**	Bearing kit (incl 2 (3x) & 4 (5x))		Width of sideshifter: 1090–1590 mm	100MC4541
***	Bearing kit (incl 2 (3x) & 4 (6x))		Width of sideshifter: 1600–1650 mm	100MC4542
****	Bearing kit (incl 2 (3x) & 4 (7x))		Width of sideshifter: 1655–1760 mm	100MC4543
*****	Bearing kit (incl 2 (3x) & 4 (8x))		Width of sideshifter: 1760–2010 mm	100MC4544
******	Hook kit (complete for 1 hook, incl 1 (1x), 8 (1x) & 9 (2x))		Set for 1 hook	100MC4545
Cylinder of sideshifter				
12	Cylinder liner	1	On request, give serial n°	
13	Seal E/GR*	1		Included in seal kit
14	Rod + piston	1		100MC4547
15	Elastic ring	2		100MC4548
16	Ring nut	2		100MC4549
17	Seal EU*	2		Included in seal kit
18	Seal WRM*	2		Included in seal kit
19	O-ring*	2		Included in seal kit
*	Seal kit (incl 13 (1x), 17 (2x), 18 (2x) & 19 (2x))			100MC4553

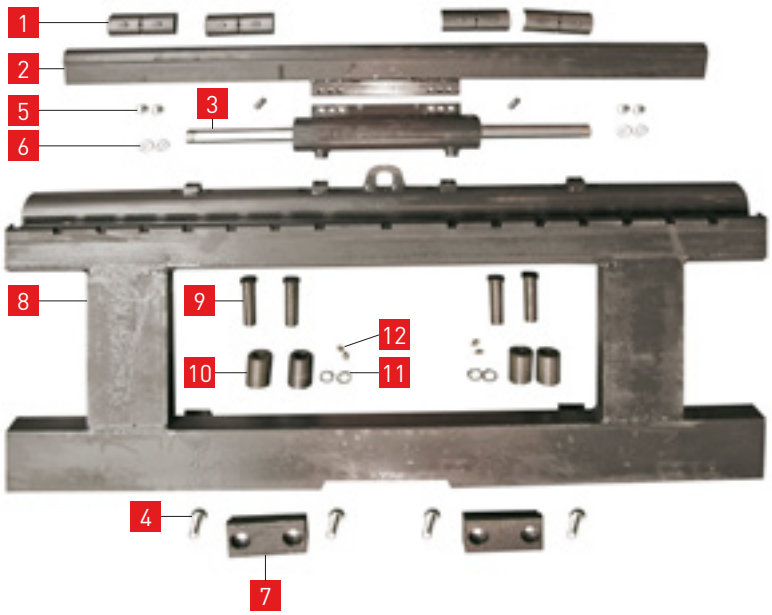
SPARE PARTS FOR SIDESHIFTER RONCARI DSL3 FEM 3, CAPACITY: 5000 KG, 500 MM



Type: DSL3 1250R20–DSL3 2000R20, DSL3-01R0005–DSL3-01R0013

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Hook******	2		100MC4523
2	Lower bearing*/**/***/****/*****	2	Width of sideshifter: 780–1340 mm	100MC4524
3	Upper bearing**	3	Width of sideshifter: 1200–1630 mm	100MC4526
3	Upper bearing***	4	Width of sideshifter: 1650–1740 mm	100MC4526
3	Upper bearing****	5	Width of sideshifter: 1745–2100 mm	100MC4526
3	Upper bearing*****	6	Width of sideshifter: 2200–2320 mm	100MC4526
4	Complete cylinder assembly	1	Width of sideshifter: 1000–1260 mm; A: 880 mm	100MC9435
4		1	Width of sideshifter: 1260–1420 mm; A: 980 mm	100MC9436
4		1	Width of sideshifter: 1490–1620 mm; A: 1080 mm	100MC9408
4		1	Width of sideshifter: 1650–1680 mm; A: 1180 mm	100MC9437
4		1	Width of sideshifter: 1690–1760 mm; A: 1280 mm	100MC9409
4		1	Width of sideshifter: 1770–2020 mm; A: 1480 mm	100MC9411
4		1	Width of sideshifter: 2050–2350 mm; A: 1750 mm	100MC9438
5	Frame	1	On request, give serial n°	
6	Screw******	2		100MC4536
7	Spring cotter pin******	4		100MC4537
*	Bearing kit (incl 2 (2x))		Width of sideshifter: 1210–1260 mm	100MC9439
**	Bearing kit (incl 2 (2x) & 3 (3x))		Width of sideshifter: 1280–1620 mm	100MC9440
***	Bearing kit (incl 2 (2x) & 3 (4x))		Width of sideshifter: 1650–1680 mm	100MC9441
****	Bearing kit (incl 2 (2x) & 3 (5x))		Width of sideshifter: 1690–2020 mm	100MC9442
*****	Bearing kit (incl 2 (2x) & 3 (6x))		Width of sideshifter: 2050–2350 mm	100MC9443
******	Hook kit (complete for 1 hook, incl 1 (1x), 6 (1x) & 7 (2x))		Set for 1 hook	100MC4545
Cylinder of sideshifter				
8	Cylinder liner	1	On request, give serial n°	
9	Seal E/GR*	1		Included in seal kit
10	Rod + piston	1		100MC9428
11	Elastic ring	2		100MC9429
12	Ring nut	2		100MC9430
13	Seal EU*	2		Included in seal kit
14	Seal WRM*	2		Included in seal kit
15	O-ring*	2		Included in seal kit
*	Seal kit (incl 9 (1x), 11 (4x), 13 (2x), 14 (2x) & 15 (2x))			100MC9434

SPARE PARTS FOR SIDESHIFTER RONCARI DSL4
SLIDING PIECES VERSION, FEM 4, CAPACITY: 8000 KG, 600 MM





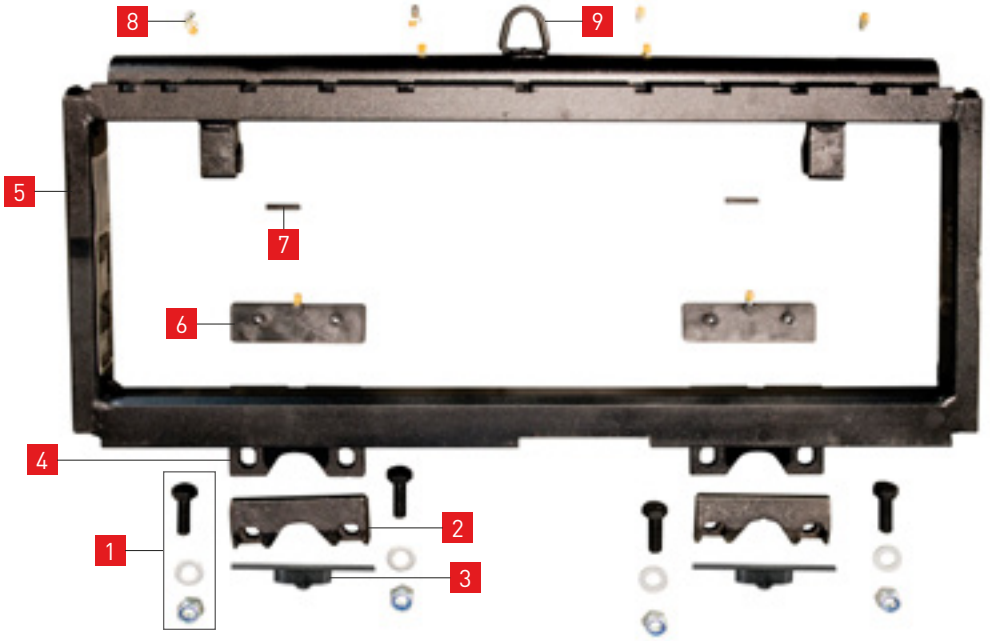
REF 100MC4280

Type: DSL4-0010–DSL4-0066

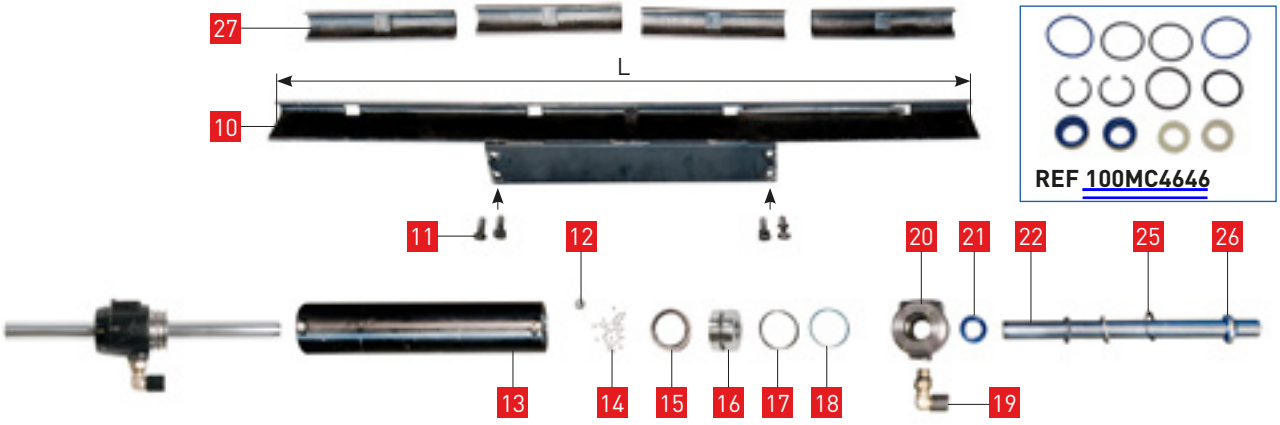
Fig	Description	Quantity	Remarks	REF
1	Upper bearing	4	On request, give serial n°	100MC4268
2	Slide rail	1		
3	Cylinder assembly	1	Stroke: 200 mm	100MC4269
	Cylinder assembly	1	Stroke: 300 mm	100MC4270
4	Bolt*	4		100MC4271
5	Bolt	4		100MC4272
6	Washer	4		100MC4273
7	Bracket*	4		100MC4274
8	Frame	1	On request, give serial n°	
9	Guide pin**		Quantity depends on width of sideshifter	100MC4275
10	Roller**		Quantity depends on width of sideshifter	100MC4276
11	Retaining ring**		Quantity depends on width of sideshifter	100MC4277
12	Grease nipple**		Quantity depends on width of sideshifter	100MC4278
*	Hook kit (incl 4 (2x) & 7 (2x))	2		100MC4279
**	Roller complete kit (incl 9 (1x), 10 (1x), 11 (1x) & 12 (1x))		Quantity depends on width of sideshifter	100MC4281
	Seal kit of cylinder assembly	1		100MC4280

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS II

Type: SS200800-A2711867, SS200900-A2711868, SS200920-B2711626, SS200940-D2711868, SS200980-A2711869, SS201000-C2711869, SS201020-C2711626, SS201040-E2711869, SS201070-A3004564, SS201100-C2711870, SS201150-E2711870, SS201250-E2711871, SS201400-D2711872

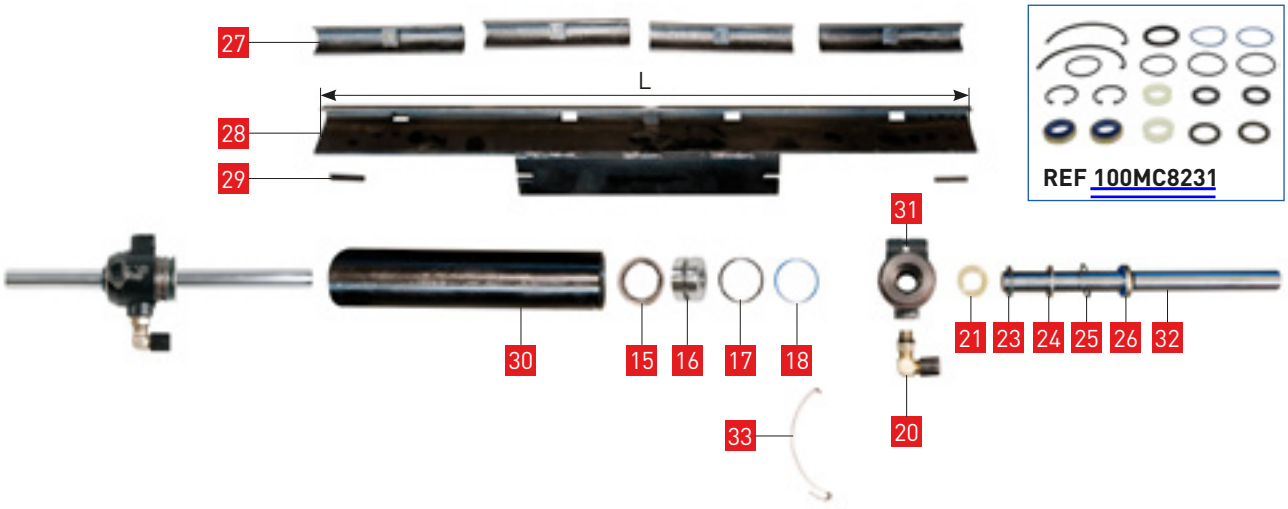


Old type of cylinder



REF 100MC4646

New type of cylinder



REF 100MC8231

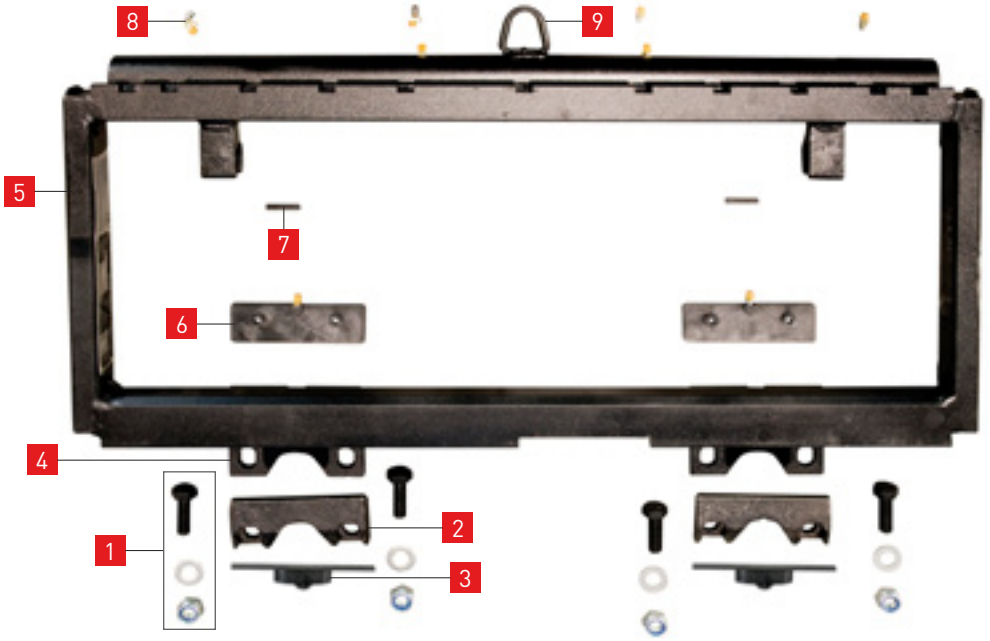
SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS II

Type: SS200800-A2711867, SS200900-A2711868, SS200920-B2711626, SS200940-D2711868, SS200980-A2711869, SS201000-C2711869, SS201020-C2711626, SS201040-E2711869, SS201070-A3004564, SS201100-C2711870, SS201150-E2711870, SS201250-E2711871, SS201400-D2711872

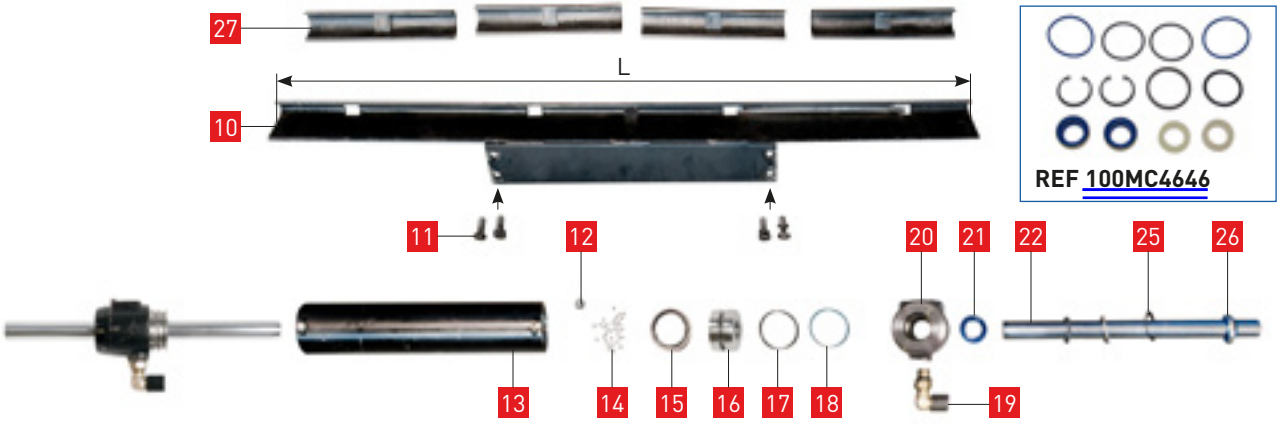
Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Bolt assembly	4		100MC4616
2	Lower hook	2		100MC4617
3	Lower slide plate**	2		100MC9099
4	Bracket	2		
5	Frame	1	On request, give serial n° and type	
6	Lower slide plate**	2		101MC3764
7	Spring pin	2		100MC4583
8	Nipple	4		100MC4618
9	Hook	1		
Cylinder of sideshifter				
10	Cylinder support	1	For sideshifter width: 800 mm, support width: 600 mm	100MC4619
10	Cylinder support	1	For sideshifter width: 850 mm, support width: 600 mm	100MC4619
10	Cylinder support	1	For sideshifter width: 900 mm, support width: 600 mm	100MC4619
10	Cylinder support	1	For sideshifter width: 920 mm, support width: 664 mm	100MC4620
10	Cylinder support	1	For sideshifter width: 940 mm, support width: 664 mm	100MC4620
10	Cylinder support	1	For sideshifter width: 980 mm, support width: 664 mm	100MC4620
10	Cylinder support	1	For sideshifter width: 1000 mm, support width: 744 mm	100MC4621
10	Cylinder support	1	For sideshifter width: 1020 mm, support width: 744 mm	100MC4621
10	Cylinder support	1	For sideshifter width: 1040 mm, support width: 744 mm	100MC4621
10	Cylinder support	1	For sideshifter width: 1070 mm, support width: 844 mm	100MC4622
10	Cylinder support	1	For sideshifter width: 1100 mm, support width: 844 mm	100MC4622
10	Cylinder support	1	For sideshifter width: 1150 mm, support width: 844 mm	100MC4622
10	Cylinder support	1	For sideshifter width: 1250 mm, support width: 944 mm	100MC4623
10	Cylinder support	1	For sideshifter width: 1400 mm, support width: 1140 mm	100MC4624
11	Bolt + washer	4		100MC4625
12	Screw***	2		100MC4626
13	Cylinder body***	1		100MC4627
14	Steel ball***	72		100MC4628
15	Seal ring*/***/****/*****	1	Consists of 2 pieces	Included in seal kit
16	Piston***/****	1		100MC4629
17	Back-up ring*/***/****/*****	2		Included in seal kit
18	O-ring*/***/****/*****	2		Included in seal kit
19	Fitting	2		100MC4630
20	Guide bush*** + bush***/****	2		100MC4631
21	YQ seal*/***/****/*****	2		
22	Piston rod***	2		100MC4632
23	Plastic washer***/****/*****	2		100MC4633
24	Metal washer***/****/*****	2		100MC4634
25	Locking ring*/***/****/*****	2		Included in seal kit
26	Dust seal ring*/***/****/*****	2		Included in seal kit
27	Upper slide plate**	4		100MC9171
28	Cylinder support	1	For sideshifter width: 800 mm, support width: 600 mm	100MC4635
28	Cylinder support	1	For sideshifter width: 850 mm, support width: 600 mm	100MC4635
28	Cylinder support	1	For sideshifter width: 900 mm, support width: 600 mm	100MC4635
28	Cylinder support	1	For sideshifter width: 920 mm, support width: 664 mm	100MC4636
28	Cylinder support	1	For sideshifter width: 940 mm, support width: 664 mm	100MC4636
28	Cylinder support	1	For sideshifter width: 980 mm, support width: 664 mm	100MC4636
28	Cylinder support	1	For sideshifter width: 1000 mm, support width: 774 mm	100MC4637
28	Cylinder support	1	For sideshifter width: 1020 mm, support width: 774 mm	100MC4637
28	Cylinder support	1	For sideshifter width: 1040 mm, support width: 774 mm	100MC4637
28	Cylinder support	1	For sideshifter width: 1070 mm, support width: 844 mm	100MC4638
28	Cylinder support	1	For sideshifter width: 1100 mm, support width: 844 mm	100MC4638

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS II

Type: SS200800-A2711867, SS200900-A2711868, SS200920-B2711626, SS200940-D2711868, SS200980-A2711869, SS201000-C2711869, SS201020-C2711626, SS201040-E2711869, SS201070-A3004564, SS201100-C2711870, SS201150-E2711870, SS201250-E2711871, SS201400-D2711872

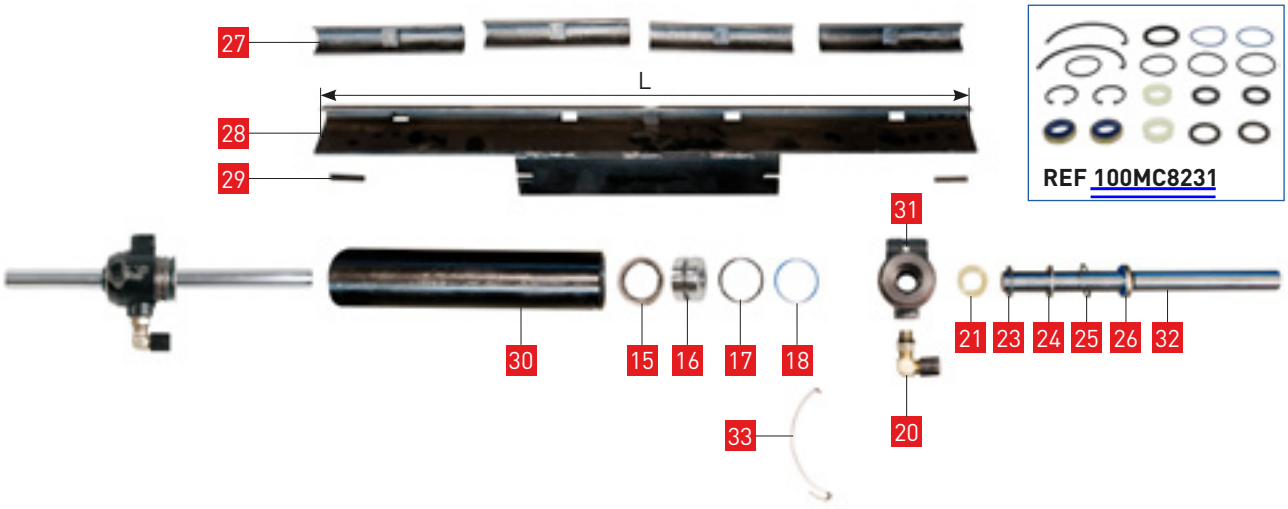


Old type of cylinder



REF 100MC4646

New type of cylinder



REF 100MC8231

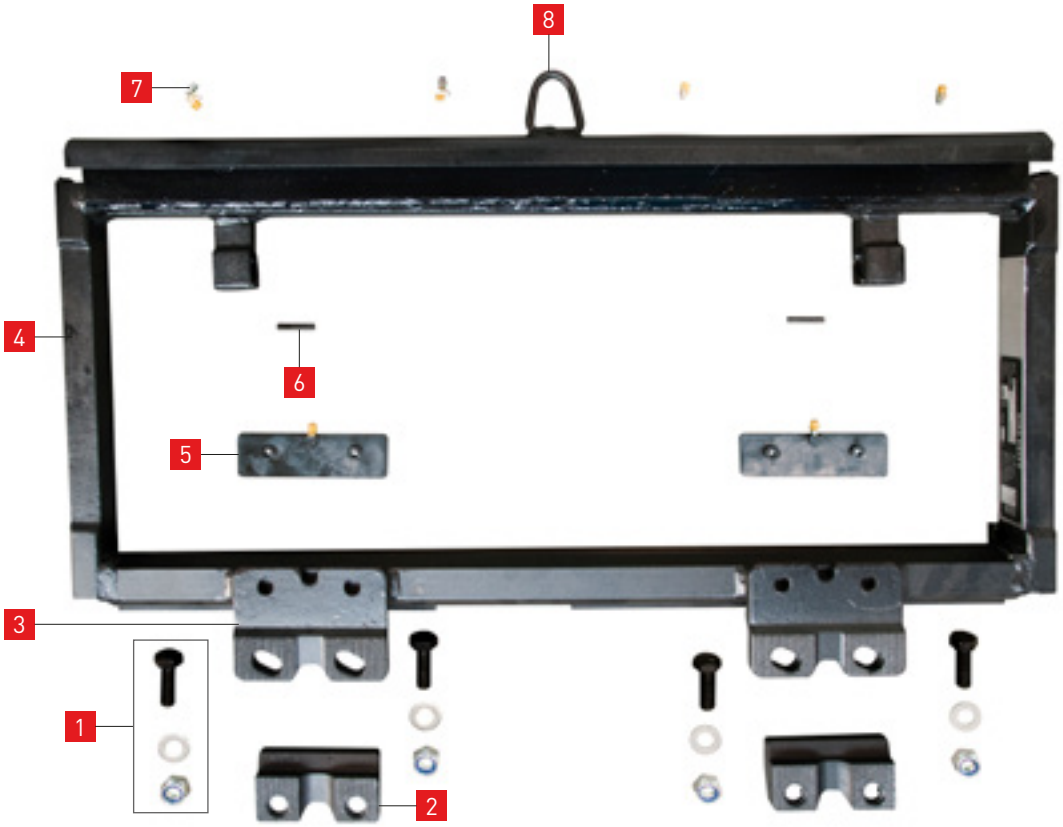
SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS II

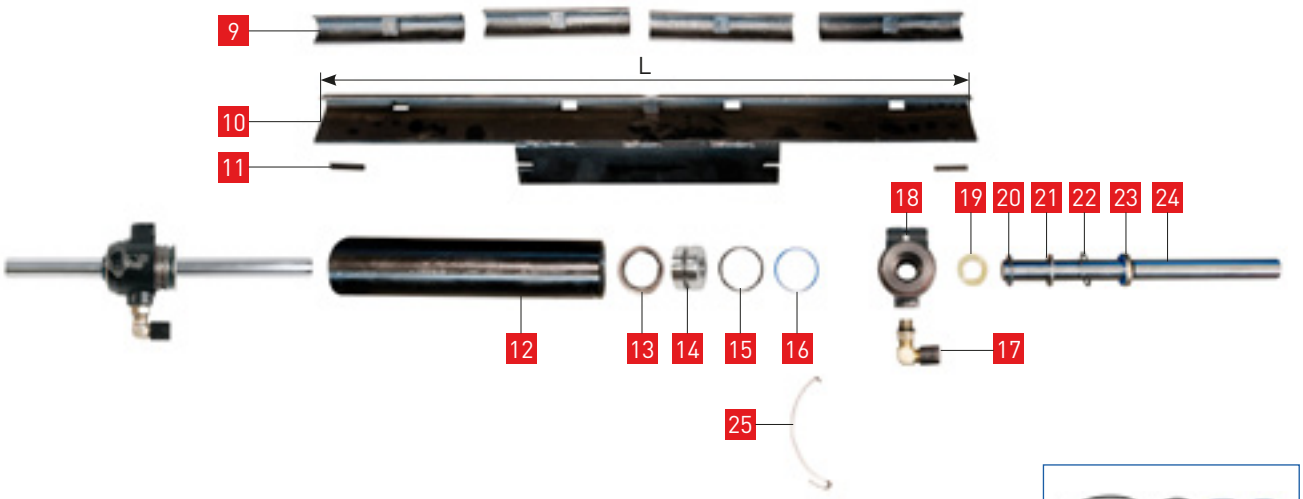
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Fig	Description	Quantity	Remarks	REF
28	Cylinder support	1	For sideshifter width: 1150 mm, support width: 844 mm	100MC4638
28	Cylinder support	1	For sideshifter width: 1250 mm, support width: 944 mm	100MC4639
28	Cylinder support	1	For sideshifter width: 1400 mm, support width: 1140 mm	100MC4640
29	Spring pin	2		100MC4641
30	Cylinder body	1		100MC4642
31	Guide bush**** + bush***/****	2		100MC4643
32	Piston rod****	2		100MC4644
33	Steel wire****/*****	2		100MC4645
*	Seal kit (incl 15 (1x), 17 (2x), 18 (2x), 21 (2x), 25 (2x), 26 (2x)) old type cylinder	1		100MC4646
**	Bearing kit for sideshifter (incl 3 (2x), 6 (2x), 27 (4x))	1		100MC4647
***	Old type of cylinder compl (incl 12–18, 20–26)	1		100MC4648
****	New type of cylinder compl (incl 15–18, 21, 23–26, 31–33)	1		100MC4649
*****	Seal kit incl 15 (1x), 17 (2x), 18 (2x), 21 (2x), 23 (2x), 24 (2x), 25 (2x), 26 (2x), 33 (2x) new type of cylinder	1		100MC8231

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS II

Type: SS200800T-A3306857, SS200900T-C3306901, SS200920T-A3306903, SS200940T-E3306910, SS200980T-E3306911, SS201000T-C3306913, SS201020T-C3306914, SS201040T-D3306915, SS201070T-B3306916, SS201100T-B3306918, SS201150T-B3306919, SS201250T-E3306920, SS201400T-A3306922







REF 100MC8231

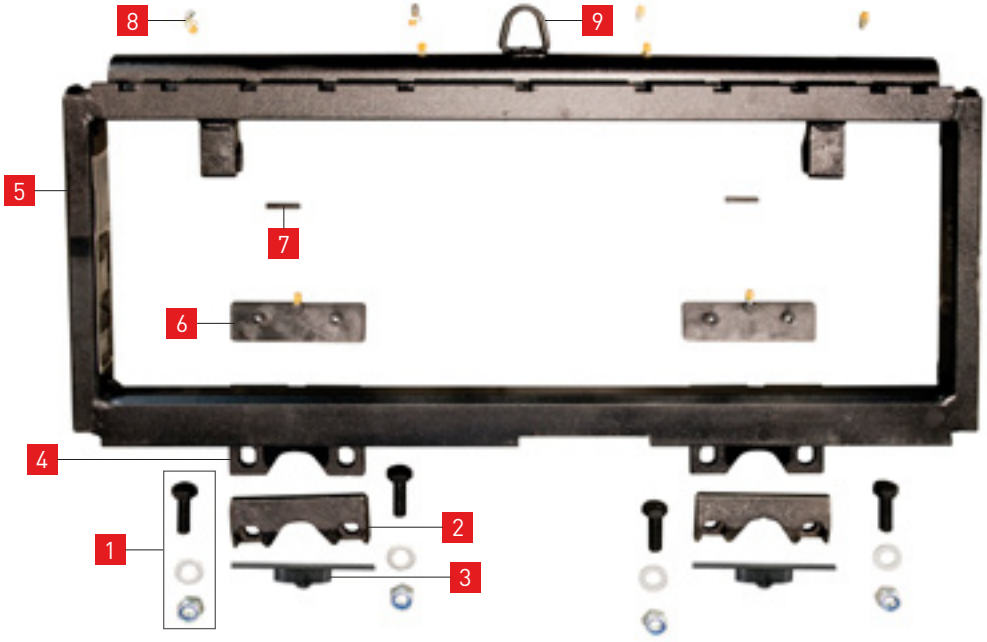
SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS II

Type: SS200800T-A3306857, SS200900T-C3306901, SS200920T-A3306903, SS200940T-E3306910, SS200980T-E3306911, SS201000T-C3306913, SS201020T-C3306914, SS201040T-D3306915, SS201070T-B3306916, SS201100T-B3306918, SS201150T-B3306919, SS201250T-E3306920, SS201400T-A3306922

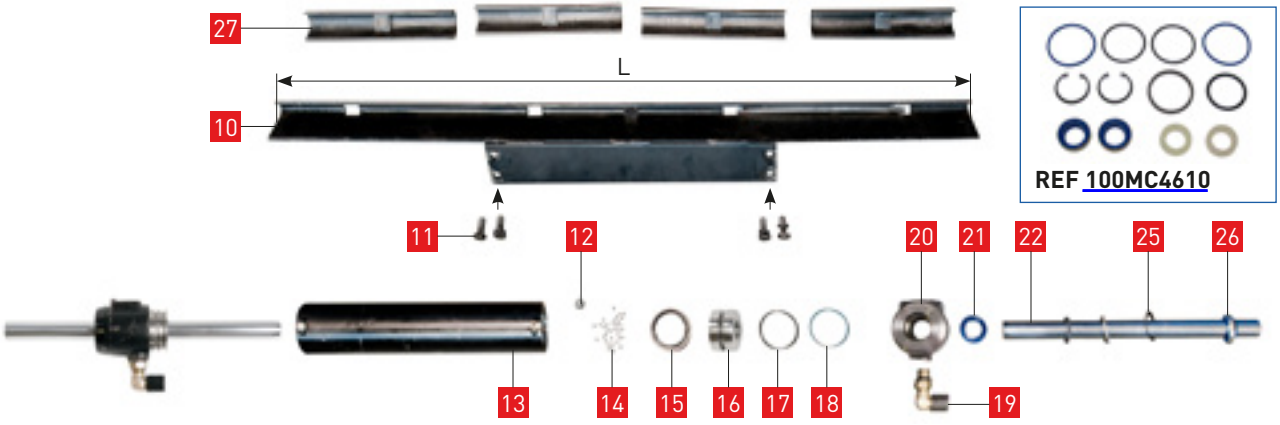
Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Bolt assembly	4		100MC4616
2	Lower hook	2		100MC4650
3	Bracket	2		
4	Frame	1	On request, give serial n° and type	
5	Lower slide plate**	2		101MC3764
6	Spring pin	2		100MC4583
7	Nipple	4		100MC4618
8	Hook	1		
9	Upper slide plate**	4		100MC9171
Cylinder of sideshifter				
10	Cylinder support	1	For sideshifter width: 800 mm, support width: 600 mm	100MC4635
10	Cylinder support	1	For sideshifter width: 850 mm, support width: 600 mm	100MC4635
10	Cylinder support	1	For sideshifter width: 900 mm, support width: 600 mm	100MC4635
10	Cylinder support	1	For sideshifter width: 920 mm, support width: 664 mm	100MC4636
10	Cylinder support	1	For sideshifter width: 940 mm, support width: 664 mm	100MC4636
10	Cylinder support	1	For sideshifter width: 980 mm, support width: 664 mm	100MC4636
10	Cylinder support	1	For sideshifter width: 1000 mm, support width: 744 mm	100MC4637
10	Cylinder support	1	For sideshifter width: 1020 mm, support width: 744 mm	100MC4637
10	Cylinder support	1	For sideshifter width: 1040 mm, support width: 744 mm	100MC4637
10	Cylinder support	1	For sideshifter width: 1070 mm, support width: 844 mm	100MC4638
10	Cylinder support	1	For sideshifter width: 1100 mm, support width: 844 mm	100MC4638
10	Cylinder support	1	For sideshifter width: 1150 mm, support width: 844 mm	100MC4638
10	Cylinder support	1	For sideshifter width: 1250 mm, support width: 944 mm	100MC4639
10	Cylinder support	1	For sideshifter width: 1400 mm, support width: 1140 mm	100MC4640
11	Spring pin	2		100MC4641
12	Cylinder body	1		100MC4642
13	Seal ring*/***	1	Consists of 2 pieces	Included in seal kit
14	Piston***	1		100MC4629
15	Back-up ring*/***	2		Included in seal kit
16	O-ring*/***	2		Included in seal kit
17	Fitting	2		100MC4630
18	Guide bush***+Bush***	2		100MC4643
19	YQ seal*/***	2		Included in seal kit
20	Plastic washer***	2		100MC4633
21	Metal washer***	2		100MC4634
22	Locking ring*/***	2		Included in seal kit
23	Dust seal ring*/***	2		Included in seal kit
24	Piston rod***	2		100MC4644
25	Steel wire***	2		100MC4645
*	Seal kit (incl 13 (1x), 15 (2x), 16 (2x), 19 (2x), 22 (2x), 23 (2x))	1		100MC8231
**	Bearing kit for sideshifter (incl 5 (2x), 9 (4x))	1		100MC4651
***	Cylinder complete (incl 12–16, 18–25)	1		100MC4649

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS III

Type: SS301000-B2711873, SS301070-A3004562, SS301100-D3002699, SS301150-A2711874, SS301200-C2711874, SS301250-E3004559, SS301300-A2711875, SS301350-C2711875, SS301400-D3004560

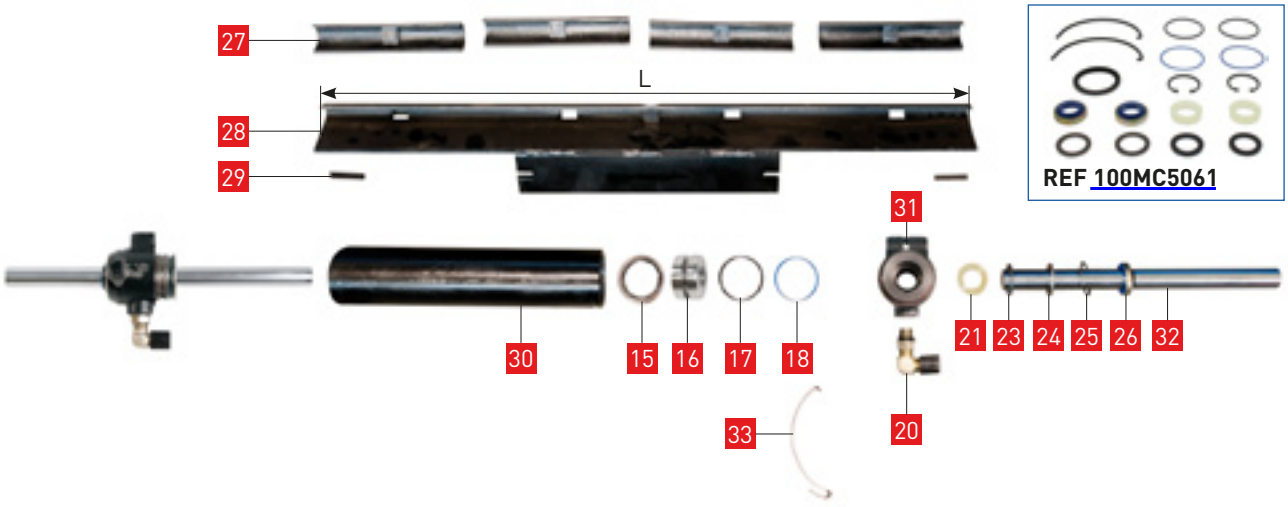


Old type of cylinder



REF 100MC4610

New type of cylinder



REF 100MC5061

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS III

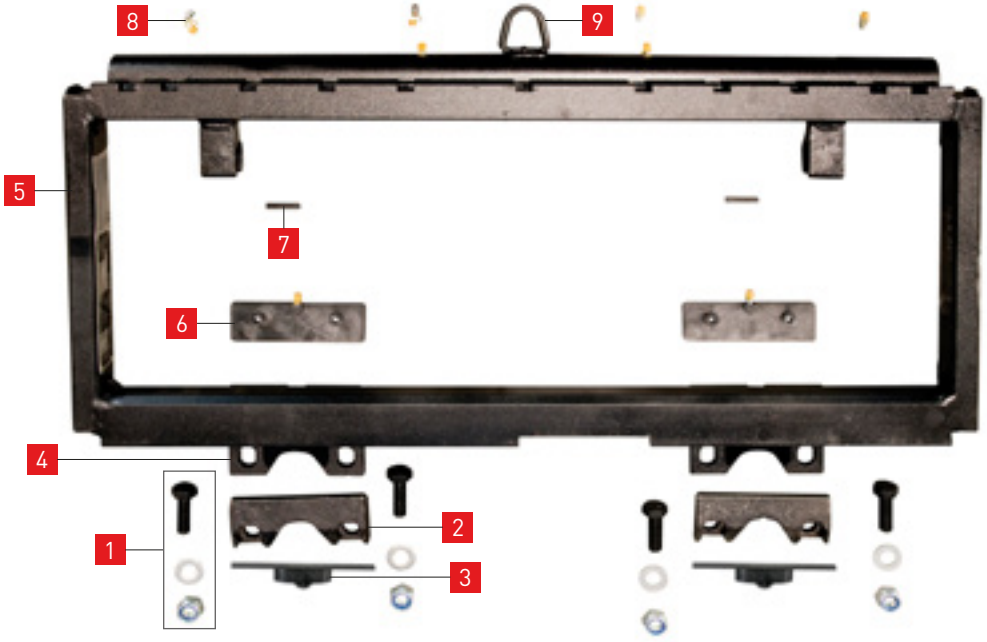
Type: SS301000-B2711873, SS301070-A3004562, SS301100-D3002699, SS301150-A2711874, SS301200-C2711874, SS301250-E3004559, SS301300-A2711875, SS301350-C2711875, SS301400-D3004560

TOTALSOURCE®

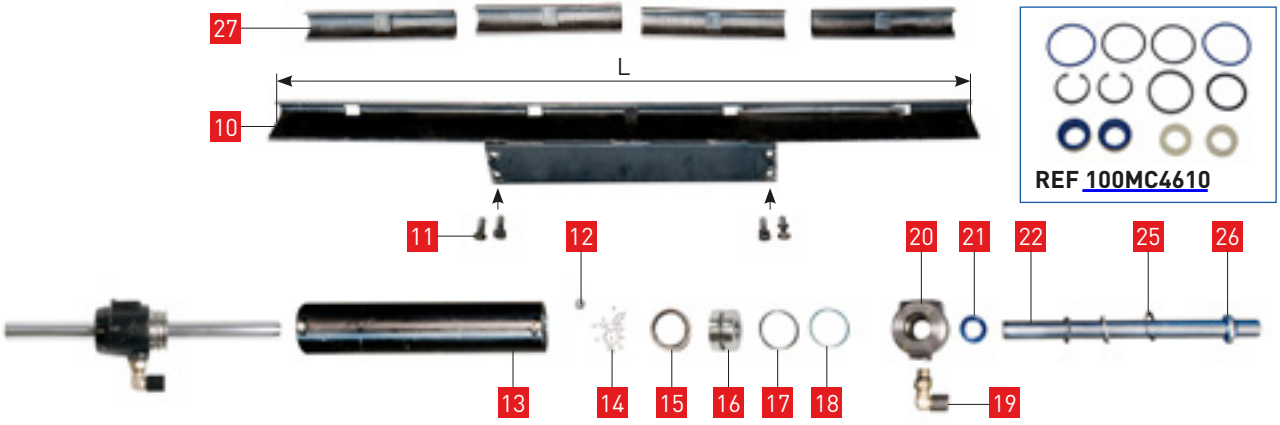
Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Bolt assembly	4		100MC4581
2	Lower hook	2		100MC4582
3	Lower slide plate**	2		100MC9099
4	Bracket	2		
5	Frame	1	On request, give serial n°	
6	Lower slide plate**	2		100MC9195
7	Spring pin	2		100MC4583
8	Nipple	4		100MC4584
9	Hook	1		
Cylinder of sideshifter				
10	Cylinder support	1	For sideshifter width: 1000 mm, support width: 744 mm	100MC4585
10	Cylinder support	1	For sideshifter width: 1070 mm, support width: 744 mm	100MC4585
10	Cylinder support	1	For sideshifter width: 1100 mm, support width: 844 mm	100MC4586
10	Cylinder support	1	For sideshifter width: 1150 mm, support width: 844 mm	100MC4586
10	Cylinder support	1	For sideshifter width: 1200 mm, support width: 944 mm	100MC4587
10	Cylinder support	1	For sideshifter width: 1250 mm, support width: 944 mm	100MC4587
10	Cylinder support	1	For sideshifter width: 1300 mm, support width: 1044 mm	100MC4588
10	Cylinder support	1	For sideshifter width: 1350 mm, support width: 1044 mm	100MC4588
10	Cylinder support	1	For sideshifter width: 1400 mm, support width: 1144 mm	100MC4589
11	Bolt + washer	4		100MC4590
12	Screw***	2		100MC4591
13	Cylinder body***	1		100MC4592
14	Steel ball***	72		100MC4593
15	Seal ring*/***/****/*****	1		Included in seal kit
16	Piston***/****	1		100MC4594
17	Back-up ring*/***/****/*****	2		Included in seal kit
18	O-ring*/***/****/*****	2		Included in seal kit
19	Fitting	2		100MC4595
20	Guide bush***+bush***/****	2		100MC4596
21	YQ seal*/***/****/*****	2		Included in seal kit
22	Piston rod***	2		100MC4597
23	Plastic washer***/****/*****	2		100MC4598
24	Metal washer***/****/*****	2		100MC4599
25	Locking ring*/***/****/*****	2		Included in seal kit
26	Dust seal ring*/***/****/*****	2		
27	Upper slide plate**	4		101MC3765
28	Cylinder support	1	For sideshifter width: 1000 mm, support width: 744 mm	100MC4600
28	Cylinder support	1	For sideshifter width: 1070 mm, support width: 744 mm	100MC4600
28	Cylinder support	1	For sideshifter width: 1100 mm, support width: 844 mm	100MC4601
28	Cylinder support	1	For sideshifter width: 1150 mm, support width: 844 mm	100MC4601
28	Cylinder support	1	For sideshifter width: 1200 mm, support width: 944 mm	100MC4602
28	Cylinder support	1	For sideshifter width: 1250 mm, support width: 944 mm	100MC4602
28	Cylinder support	1	For sideshifter width: 1300 mm, support width: 1044 mm	100MC4603
28	Cylinder support	1	For sideshifter width: 1350 mm, support width: 1044 mm	100MC4603
28	Cylinder support	1	For sideshifter width: 1400 mm, support width: 1144 mm	100MC4604
29	Spring pin	2		100MC4605
30	Cylinder body	1		100MC4606
31	Guide bush**** + bush***/****	2		100MC4607
32	Piston rod****	2		100MC4608
33	Steel wire****/*****	2		100MC4609
*	Seal kit (incl 15 (1x), 17 (2x), 18 (2x), 21 (2x), 25 (2x), 26 (2x)) old type cylinder	1		100MC4610

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS III

Type: SS301000-B2711873, SS301070-A3004562, SS301100-D3002699, SS301150-A2711874, SS301200-C2711874, SS301250-E3004559, SS301300-A2711875, SS301350-C2711875, SS301400-D3004560

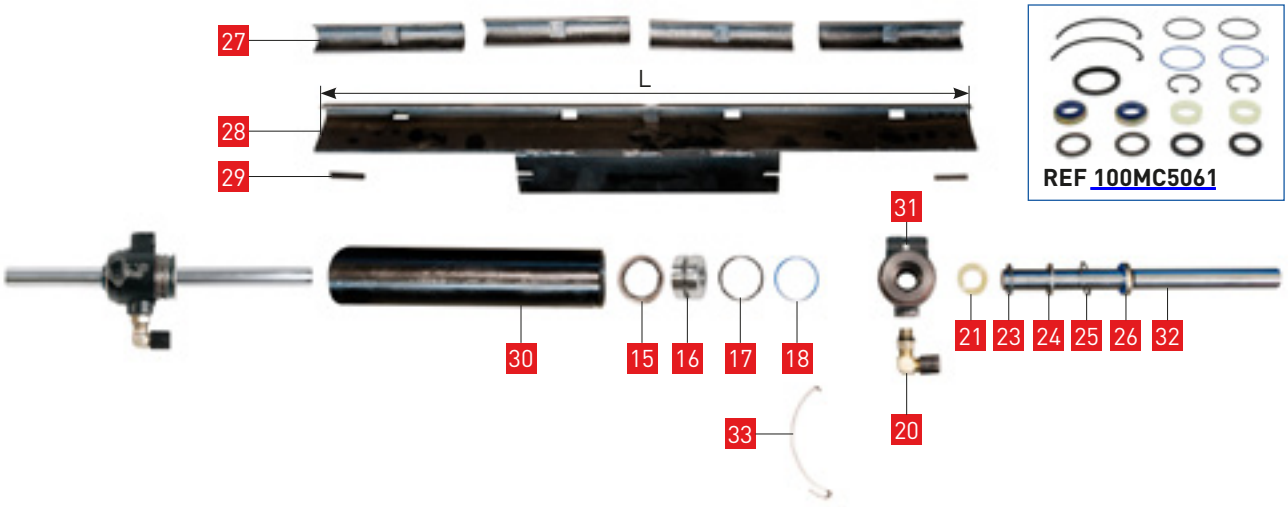


Old type of cylinder



REF 100MC4610

New type of cylinder



REF 100MC5061

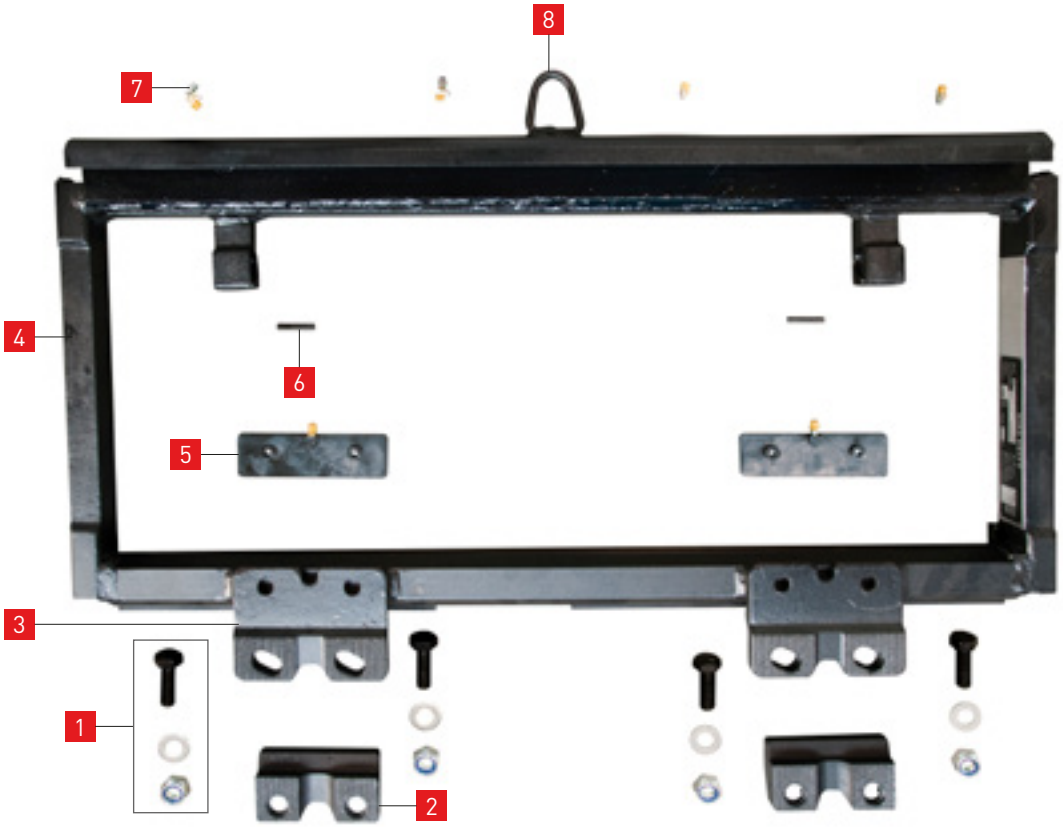
SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS III

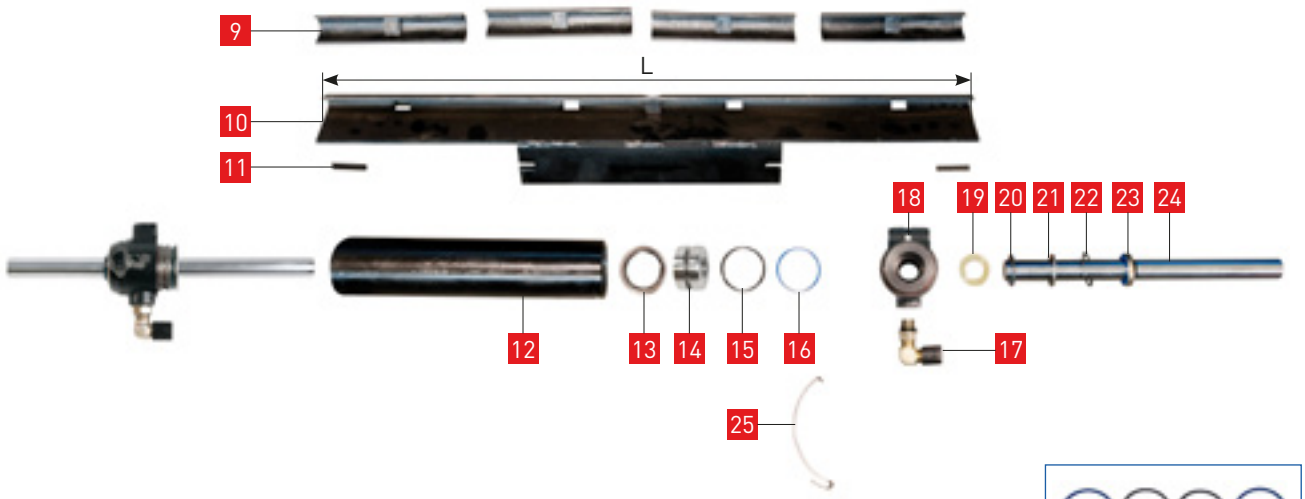
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Fig	Description	Quantity	Remarks	REF
**	Bearing kit for sideshifter (incl 3 (2x), 6 (2x), 27 (4x))	1		100MC4611
***	Old type of cylinder compl (incl 12–18, 20–26)	1		100MC4612
****	New type of cylinder compl (incl 15–18, 21, 23–26, 31–33)	1		100MC4613
*****	Seal kit (incl 15 (1x), 17 (2x), 18 (2x), 21 (2x), 23 (2x), 24 (2x), 25 (2x), 26 (2x), 33 (2x) new type of cylinder	1		100MC5061

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS III

Type: SS301000T-C3306923, SS301070T-A3306928, SS301100T-D3306929, SS301150T-D3306930, SS301200T-E3306931, SS301250T-D3306932, SS301300T-A3306942, SS301350T-D3306934, SS301400T-A3306936







REF 100MC4610

SPARE PARTS FOR SIDESHIFTER TOTALSOURCE® CLASS III

Type: SS301000T-C3306923, SS301070T-A3306928, SS301100T-D3306929, SS301150T-D3306930, SS301200T-E3306931, SS301250T-D3306932, SS301300T-A3306942, SS301350T-D3306934, SS301400T-A3306936

Fig	Description	Quantity	Remarks	REF
Sideshifter				
1	Bolt assembly	4		100MC4581
2	Lower hook	2		100MC4614
3	Bracket	2		
4	Frame	1	On request, give serial n° and type	
5	Lower slide plate**	2		100MC9195
6	Spring pin	2		100MC4583
7	Nipple	4		100MC4584
8	Hook	1		
9	Upper slide plate**	4		101MC3765
Cylinder of sideshifter				
10	Cylinder support	1	For sideshifter width: 1000 mm, support width: 744 mm	100MC4600
10	Cylinder support	1	For sideshifter width: 1070 mm, support width: 744 mm	100MC4600
10	Cylinder support	1	For sideshifter width: 1100 mm, support width: 844 mm	100MC4601
10	Cylinder support	1	For sideshifter width: 1150 mm, support width: 844 mm	100MC4601
10	Cylinder support	1	For sideshifter width: 1200 mm, support width: 944 mm	100MC4602
10	Cylinder support	1	For sideshifter width: 1250 mm, support width: 944 mm	100MC4602
10	Cylinder support	1	For sideshifter width: 1300 mm, support width: 1044 mm	100MC4603
10	Cylinder support	1	For sideshifter width: 1350 mm, support width: 1044 mm	100MC4603
10	Cylinder support	1	For sideshifter width: 1400 mm, support width: 1144 mm	100MC4604
11	Spring pin	2		100MC4605
12	Cylinder body	1		100MC4606
13	Seal ring*/***	1	Consists of 2 pieces	Included in seal kit
14	Piston***	1		100MC4594
15	Back-up ring*/***	2		Included in seal kit
16	O-ring*/***	2		Included in seal kit
17	Fitting	2		100MC4595
18	Guide bush***+bush***	2		100MC4607
19	YQ seal*/***	2		Included in seal kit
20	Plastic washer***	2		100MC4598
21	Metal washer***	2		100MC4599
22	Locking ring*/***	2		Included in seal kit
23	Dust seal ring*/***	2		Included in seal kit
24	Piston rod***	2		100MC4608
25	Steel wire***	2		100MC4609
	Seal kit (incl 13 (1x), 15 (2x), 16 (2x), 19 (2x), 22 (2x), 23 (2x))	1		100MC4610
	Bearing kit for sideshifter (incl 5 (2x), 9 (4x))	1		100MC4615
	Cylinder complete (incl 12–16, 18–25)	1		100MC4613

CAM ATTACHMENTS®



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About CAM attachments
Products by CAM attachments are recognised for their high-quality standards and reliability. Thanks to our extensive accumulated experience, we can offer you a wide range of high-quality attachments.
We have achieved great popularity in Western European countries such as Italy, France, the UK, Portugal, Germany, Spain and Belgium. We sell our products in more than 80 countries all over the world.

Product portfolio
Our product range includes a comprehensive variety of attachments for different industries and types of machines. Sideshifters, fork positioners, multi-fork positioners, bale clamps, fork clamps, 180° or 360° rotating clamps, carton clamps and paper roll clamps are just some of the products manufactured by our Italian plant CAM Srl, but also skips, crane jibs, snow ploughs and forks are included in our range. Moreover, CAM attachments offers customised solutions by studying the customer's internal processes and produces attachments specifically tuned to those needs.

After-sales service
We have an extensive range of spare parts immediately deliverable from stock. Furthermore, our skilled team of engineers guarantees you a complete after-sales service: we offer repair and maintenance of the attachments either on-site or in our workshop, as well as telephonic technical support.

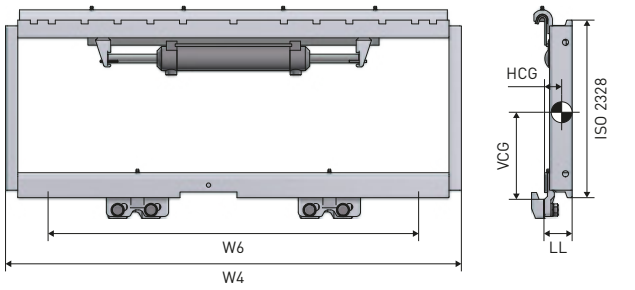
Key industries
Supported by its flexibility and experience, CAM attachments supplies products that successfully operate in all the main sectors of the market, such as the logistics industry, construction, food and beverage, agricultural sector, paper handling, recycling, white goods, manufacturing and foundry applications.

Attachments for all machines
Our attachments are made for different types of machines, such as forklifts, skid steer loaders, telehandlers and tractor loaders.

www.camattachments.com

SIDESHIFTERS ISO/FEM 2 WITH SLIDING PADS





Technical details:

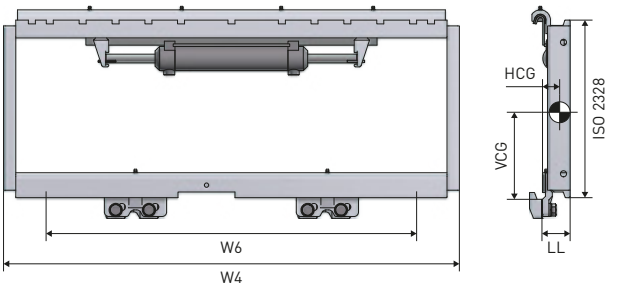
- 1 hydraulic function
- Maximum pressure: 220 bar
- Recommended oil flow: 10 l/min
- W6 – minimal width lift truck carriage
- Total sideshifter stroke 100 + 100 mm

Load backrest available on request

Model	Capacity kg/mm	W4 mm	W6 mm	LL mm	HCG mm	VCG mm	Weight kg	ISO 2328	REF
SH225.080P.CD1	2500/500	800	800	63	32	234	46	2	100MC4984
SH225.090P.CD1	2500/500	900	800	63	32	231	49	2	100MC4985
SH225.092P.CD1	2500/500	920	800	63	32	229	50	2	100MC4986
SH225.094P.CD1	2500/500	940	800	63	32	229	51	2	100MC4987
SH225.098P.CD1	2500/500	980	800	63	32	226	52	2	100MC4988
SH225.100P.CD1	2500/500	1000	800	63	32	226	53	2	100MC4989
SH225.102P.CD1	2500/500	1020	800	63	32	224	54	2	100MC4990
SH225.104P.CD1	2500/500	1040	800	63	32	224	55	2	100MC4991
SH225.107P.CD1	2500/500	1070	800	63	32	221	56	2	100MC4992
SH225.110P.CD1	2500/500	1100	800	63	32	221	57	2	100MC4993
SH225.115P.CD1	2500/500	1150	800	63	32	218	64	2	100MC4994
SH225.125P.CD1	2500/500	1250	1000	63	32	218	66	2	100MC4995
SH225.140P.CD1	2500/500	1400	1000	63	32	216	72	2	100MC4996

SIDESHIFTERS ISO/FEM 3 WITH SLIDING PADS





Technical details:

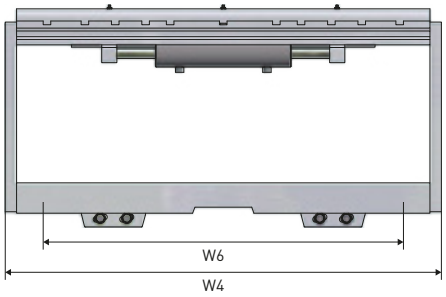
- 1 hydraulic function
- Maximum pressure: 220 bar
- Recommended oil flow: 12 l/min
- W6 – minimal width lift truck carriage
- Total sideshifter stroke 100 + 100 mm

Load backrest on request

Model	Capacity kg/mm	W4 mm	W6 mm	LL mm	HCG mm	VCG mm	Weight kg	ISO 2328	REF
SH335.100P.CD1	3500/500	1000	1000	68	34	300	65	3	100MC4997
SH335.107P.CD2	3500/500	1070	1000	68	34	297	68	3	100MC4998
SH335.110P.CD3	3500/500	1100	1000	68	34	297	70	3	100MC4999
SH335.115P.CD4	3500/500	1150	1000	68	34	295	72	3	100MC5000
SH335.120P.CD5	3500/500	1200	1000	68	34	295	75	3	100MC5001
SH335.125P.CD6	3500/500	1250	1000	68	34	292	77	3	100MC5002
SH335.130P.CD7	3500/500	1300	1000	68	34	292	79	3	100MC5003
SH335.135P.CD8	3500/500	1350	1100	68	34	292	88	3	100MC5004
SH335.140P.CD9	3500/500	1400	1100	68	34	289	90	3	100MC5005

SIDESHIFTERS ISO/FEM 1–2 WITH SLIDING PADS





Technical details:

- 1 hydraulic function
- Maximum pressure: 200 bar
- Recommended oil flow: 8 l/min
- W6 – minimal width lift truck carriage
- Total sideshifter stroke 100 + 100 mm

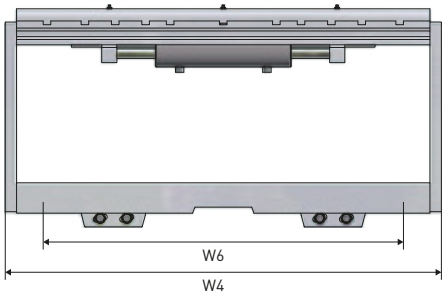
Sideshifters for reach trucks on request
Custom-made sideshifters available on request
Load backrest on request

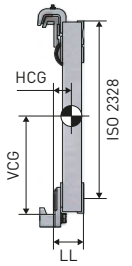
Model	Capacity kg/mm	W4 mm	W6 mm	LL mm	HCG mm	VCG mm	Weight kg	ISO 2328	REF
TRF 112.080P	1000/500	800	700	70	32	238	43	1	100MC5006
TRF 112.085P	1000/500	850	700	70	32	236	45	1	100MC5007
TRF 112.100P	1000/500	1000	850	70	32	236	50	1	100MC5008
TRF 225.080P	2500/500	800	700	70	32	238	43	2	100MC5009
TRF 225.090P	2500/500	900	800	70	34	236	46	2	100MC5010
TRF 225.092P	2500/500	920	800	70	34	236	52	2	100MC5011
TRF 225.094P	2500/500	940	800	70	34	236	53	2	100MC5012
TRF 225.097P	2500/500	970	840	70	34	236	54	2	100MC5013
TRF 225.098P	2500/500	980	850	70	34	236	55	2	100MC5014
TRF 225.100P	2500/500	1000	850	70	34	236	56	2	100MC5015
TRF 225.102P	2500/500	1020	850	70	34	235	56	2	100MC5016
TRF 225.104P	2500/500	1040	850	70	34	235	57	2	100MC5017
TRF 225.107P	2500/500	1070	870	70	34	235	58	2	100MC5018
TRF 225.110P	2500/500	1100	900	70	34	235	59	2	100MC5019
TRF 225.115P	2500/500	1150	900	70	34	233	60	2	100MC5020
TRF 225.126P	2500/500	1260	1000	70	36	230	68	2	100MC5021
TRF 225.140P	2500/500	1400	1100	70	36	225	70	2	100MC5022

SIDESHIFTERS ISO/FEM 3-4 WITH SLIDING PADS

CAM attachments







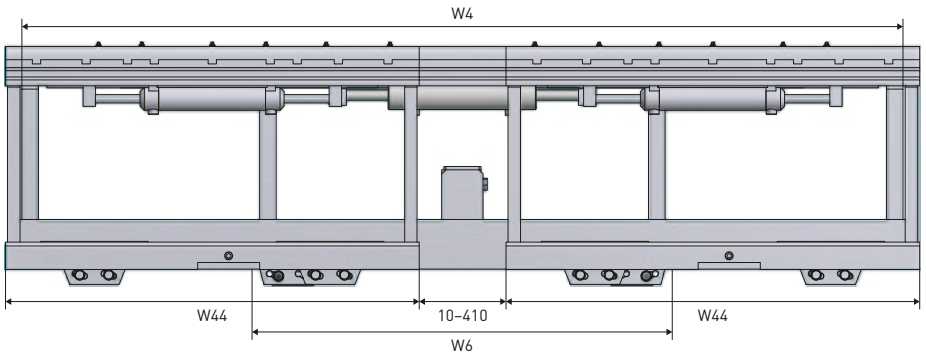
Technical details:

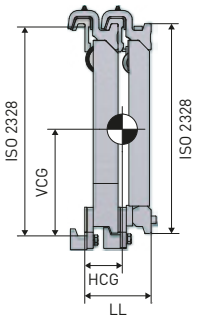
- 1 hydraulic function
- Maximum pressure: 220 bar
- Recommended oil flow: 10 l/min
- W6 – minimal width lift truck carriage
- Total sideshifter stroke 100 + 100 mm (FEM3)
- Total sideshifter stroke 150 + 150 mm (FEM4)

* Sideshifters FEM4 with idlers on request
Load backrest on request

Model	Capacity kg/mm	W4 mm	W6 mm	LL mm	HCG mm	VCG mm	Weight kg	ISO 2328	REF
TRF 335.100P	3500/500	1000	900	80	45	300	79	3	100MC5023
TRF 335.107P	3500/500	1070	950	80	45	302	84	3	100MC5024
TRF 335.110P	3500/500	1100	1000	80	45	302	85	3	100MC5025
TRF 335.115P	3500/500	1150	1000	80	45	303	88	3	100MC5026
TRF 335.120P	3500/500	1200	1000	80	45	305	92	3	100MC5027
TRF 335.125P	3500/500	1250	1100	80	45	305	93	3	100MC5028
TRF 335.130P	3500/500	1300	1100	80	45	308	98	3	100MC5029
TRF 335.135P	3500/500	1350	1100	80	45	308	103	3	100MC5030
TRF 350.100P	5000/500	1000	900	80	39	279	97	3	100MC5031
TRF 350.107P	5000/500	1070	950	80	39	279	102	3	100MC5032
TRF 350.110P	5000/500	1100	950	80	39	279	104	3	100MC5033
TRF 350.115P	5000/500	1150	950	80	39	278	107	3	100MC5034
TRF 350.120P	5000/500	1200	1000	80	39	278	110	3	100MC5035
TRF 350.126P	5000/500	1260	1000	80	39	278	115	3	100MC5036
TRF 350.130P	5000/500	1300	1000	80	39	277	118	3	100MC5037
TRF 350.135P	5000/500	1350	1050	80	39	277	120	3	100MC5038
TRF 350.156P	5000/500	1560	1250	80	39	276	151	3	100MC5039
TRF 350.166P	5000/500	1660	1350	80	40	276	156	3	100MC5040
TRF 350.175P	5000/500	1750	1450	80	40	275	160	3	100MC5041
TRF 350.185P	5000/500	1850	1500	80	40	275	198	3	100MC5042
TRF 350.200P	5000/500	2000	1600	80	40	275	213	3	100MC5043
TRF 465.120P*	6500/600	1200	1050	100	55	365	193	4	100MC5044
TRF 465.135P*	6500/600	1350	1150	100	55	365	213	4	100MC5045
TRF 465.160P*	6500/600	1600	1300	100	55	367	258	4	100MC5046
TRF 465.180P*	6500/600	1800	1500	100	55	367	278	4	100MC5047
TRF 480.180P*	8000/600	1800	1500	100	55	350	310	4	100MC5050
TRF 480.200P*	8000/600	2000	1650	100	55	350	362	4	100MC5049
TRF 480.220P*	8000/600	2200	1850	100	55	351	368	4	100MC5051
TRF 480.240P*	8000/600	2400	1950	100	60	351	425	4	100MC5052
TRF 4120.220P*	12 000/600	2200	1850	115	56	350	520	4	100MC5053
TRF 4120.240P*	12 000/600	2400	1900	115	58	352	520	4	100MC5054

DUAL AND TRIPLE SIDESHIFTERS





Technical details:

- 2DL: 1 hydraulic function – fixed rear frame (no sideshifter)
- 3DL: 2 hydraulic functions – main sideshifter on the rear frame
- Maximum pressure: 160 bar
- W6 – minimal width lift truck carriage
- Without forks

* Triple sideshifter
Standard version with flow divider: both sideshifters move simultaneously in opposite directions
Front sideshifters: independent movement on request

Model	Capacity @500 mm	W4 mm	W44 mm	C mm	LL mm	HCG mm	VCG mm	Weight kg	Stroke mm	REF
2DL2220.170	2 x 1000	1700	2 x750	1100	124	61	226	235	2 x 200	100MC5055
2DL2220.200	2 x 1000	2000	2 x 900	1150	124	61	226	260	2 x 200	100MC5056
2DL2220.215	2 x 1000	2150	2 x 1000	1200	124	61	226	281	2 x 200	100MC5057
2DL3240.170	2 x 2000	1700	2 x 750	1100	129	63	275	305	2 x 200	100MC5058
2DL3240.200	2 x 2000	2000	2 x 900	1150	129	63	275	349	2 x 200	100MC5059
2DL3240.215	2 x 2000	2150	2 x 1000	1200	129	63	275	381	2 x 200	100MC5060
3DL2220.170*	2 x 1000	1700	2 x 750	1300	139	65	236	246	3 x 200	100MC5055*
3DL2220.200*	2 x 1000	2000	2 x 900	1350	139	65	236	271	3 x 200	100MC5056*
3DL2220.215*	2 x 1000	2150	2 x 1000	1400	139	65	236	292	3 x 200	100MC5057*
3DL3240.170*	2 x 2000	1700	2 x 750	1300	139	67	285	335	3 x 200	100MC5058*
3DL3240.200*	2 x 2000	2000	2 x 900	1350	139	67	285	379	3 x 200	100MC5059*
3DL3240.215*	2 x 2000	2150	2 x 1000	1400	139	67	285	409	3 x 200	100MC5060*

CABLE GUIDE



TVH stocks a wide variety of trailer cable chains, specifically for reach stackers and spreaders. You can even find the accessories such as connecting elements and partitions with us. Go to MyProductSearch to discover more references.

CABLE GUIDE – NICE TO KNOW

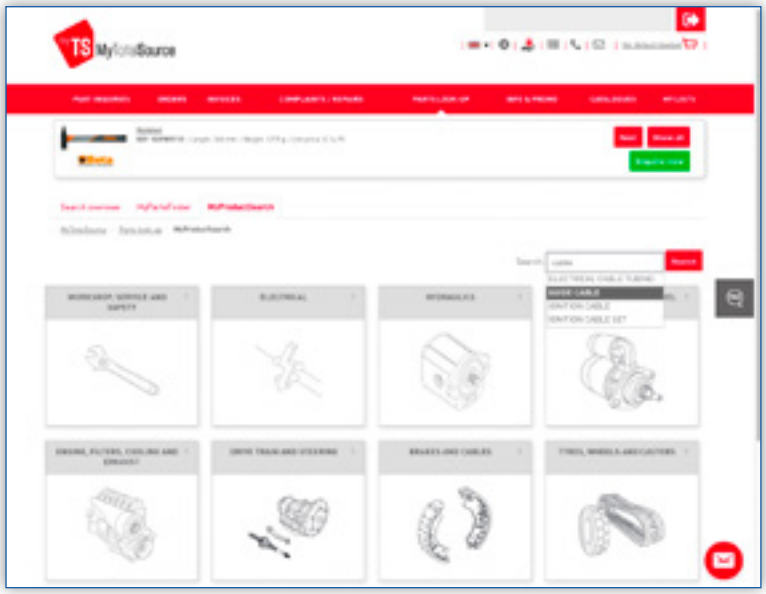
MyTotalSource

Your interactive online webshop for spare parts

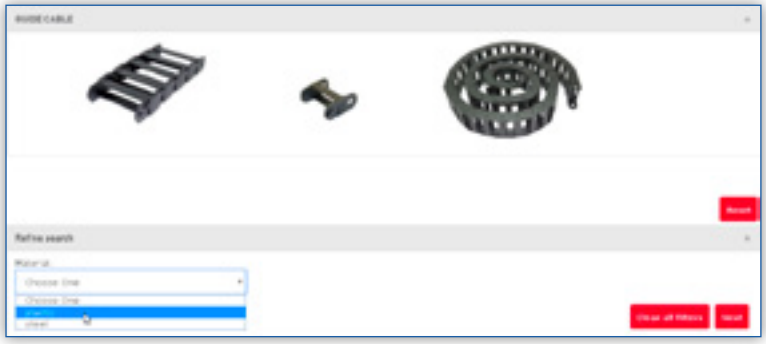
The user-friendly search modules **MyPartsFinder** and **MyProductSearch** allow you to always find the correct part. Alternatively, you can also easily search by part number.

1. In **MyPartsFinder** you can find your parts by entering vehicle specifications (make, type ...)

2. With **MyProductSearch** you can find your part by entering technical details.



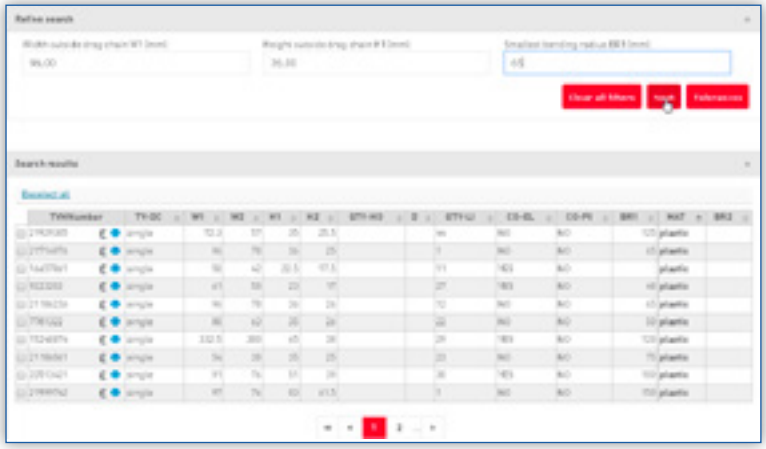
MyProductSearch
Find your cable guide



It is also possible to search further via **MyProductSearch** for a similar part with other characteristics if necessary, or the parts can also be compared to each other.

CABLE GUIDE – NICE TO KNOW

3. Search by part number





- **Single line part inquiry:** for a quick price and lead time of only 1 item
- **Multiple line part inquiry:** for price and lead time of several parts
- Instant price, availability and picture



The reference in the catalogue only contains the most important info, but once the reference is entered via MyTotalSource, then extra info can be consulted such as:

- Extra technical info
- Larger (and more specific) photographs

No login yet? Request your login details now via ecommerce@tvh.com

Help desk: T +32 56 43 48 66

CHAINS & ACCESSORIES

A chain is as strong as the weakest link!





Consult the 'Chains & accessories' catalogue (REF 37474860).

Go to downloads on www.tvh.com to view the catalogue online.

CHAINS – NICE TO KNOW

Only use chain links and pins to connect the chain to the anchor.
Never connect individual pieces of chain together. This will always void the warranty.

Be careful when choosing a pin.
Width of the connected chain anchor could be larger than the width of the chain on its own.
L2 most important length to fit to the anchor.
Anchor width < L2

Available in European OEM brand and Asian OEM brand.

CHAINS – NICE TO KNOW

TVH has a solution for all your chain requirements. We supply quality chains for the most demanding applications, cut to the desired length. In addition, we also have a wide variety of different accessories. 90% of our chains are immediately available from stock. Each ordered chain is automatically accompanied by a chain certificate.

TVH collaborates with the **top brands of the chain world.** Both on the European market with brands such as Rexnord, Sedis, Renold and Wippermann and on the Asian market with the brand Donghua. All roller chains are Donghua-branded. These original quality chains come supplied in bulk or cut to the desired length.

In addition to the standard high-quality steel chains, we also supply corrosion-resistant leaf chain (Dacromat). These are suitable for use in extreme weather or extreme environment conditions.

You can **find the desired chain type** in this parts catalogue or in MyProductSearch, the online research module in MyTotalSource. If neither of these can offer you a solution, then you can leave the research up to us. All you need to do, is to fill in a technical sheet and we will do the rest.

You can also **find the desired chain links, pins and anchors** in this catalogue or MyProductSearch. Should you be unable to find the correct reference, you can fill in a technical sheet and leave the identification to us.

TVH offers 2 types of **measuring tools** to measure the wear of your chains: the standard measuring tool and a professional version where the elongation value is displayed in %. You can find these tools on page 684 of this catalogue.

A good **lubrication** is essential for the lifespan of a chain. With our chain spray (REF 100MC4863) you can maintain the chain optimally.

We supply a **chain certificate** with each chain order. This chain certificate automatically appears on your order confirmation.

How to determine the correct chain length in the easiest way:
1. count the outer plates (marked in red)
2. multiply the # outer plates x 2
3. add 1
4. multiply this result by the pitch in mm
5. divide by 1000

This gives us the following formula: (((# outer plates x 2) + 1) x p) / 1000
The result is the chain length, expressed in metres.

Ending on inners:



1 step | 1 | 1 | + 3 outer links

Note: this formula can only be used for chains ending on the inner plates. If you have a chain ending on the outer plates, this has to be clearly specified in the request.

GENERAL INFO ABOUT LEAF CHAINS

General info about leaf chains

Leaf chains must be replaced once they display an elongation of maximum 3% (or 2% in the UK). This elongation can be measured by means of a wear gauge. The measurement is performed across the piece of chain that runs over the chain roller. This part of the chain is subjected to the most stress and is therefore the ideal measuring point.

In addition to wear, there are also other potential reasons to replace a lift chain:
- twisted or shifted chain pins
- cracked chain leaf due to corrosion or metal fatigue
- seized links
- damage to the chain due to an external cause
- a fracture in the chain due to an excessive load or incorrect lubrication

Some guidelines:
- Replace lift chains per set. If this is not done, the chains are subject to an unequal load. This will result in an uneven wear, which might lead to breakage. A chain is subject to dynamic impact loads, which speed up the wear process.
- Use the same type of chains as the chain that was originally fitted.
- Inspect chain rollers and anchors after removing the chains. In case of wear or breakage these must be replaced.
- Always replace the chain pin and link simultaneously with the chain.
- Never connect individual pieces of chain together. This will always void the warranty.
- Lubricate the chain on a regular basis. sing a chain spray extends the lifespan of the chain, making it more resistant against corrosion and damage.

Chain disassembly

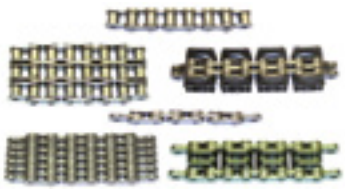
Although TVH offers chains "cut to length", sometimes you may need to cut chains yourselves. We offer all kinds of tools to cut roller chains. Select the right tool depending on chain type and pitch. For leaf chain disassembly, we suggest 2 different ways depending on the chain pitch.

Small pitch chains (pitch ≤ 1 inch)
Although the use of pressing material is preferred, this procedure assumes the use of hammer and chain pin extractor. The cutting should be done on a workbench or other sturdy support surface. First hit the pin with the hammer until the head of the chain pin is equal with the plate, continue to drive the pin through the plates with a hammer and chain pin extractor. The chain pin extractor should have a diameter slightly less than the pin link plate aperture.

Large pitch chains (pitch > 1 inch)
Grind the head of the pin flush with the pin link. Remove the pin by using a hydraulic press and the matching toolkit.

Make sure you always remove the 2 pins fitted on one outer link. Do not damage other chain pins or links besides the one you want to remove.

CHAINS – TECHNICAL SHEET

Group	Example	Customer details
10-01-03-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

☐ Order

TY-K . . . . . Type of chain:
SR = simplex roller chain
DR = duplex roller chain
TR = triplex roller chain
QR = quadruplex roller chain
SK = leaf chain

H . . . . . Total height

P . . . . . Pitch length

L . . . . . Total length

B . . . . . Total width

B2 . . . . . Inner link width

B3 . . . . . Inner width

D1 . . . . . Roller diameter

D2 . . . . . Pin diameter

S . . . . . Plate thickness

TY-SK . . . . . Type of leaf chain, see combinations

MAT . . . . . Material:
ST = steel
SS = stainless steel
DA = dachromat (zinc plated)

KIT . . . . . Yes/no, if chain lock(s) and/or chain anchor(s) are present

F1 . . . . . Nominal breaking load, in kN

F2 . . . . . Actual breaking load, in kN

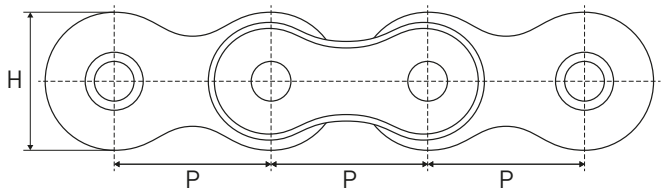
F3 . . . . . Test load, in kN

F4 . . . . . Save working load, in kN/1 000 000 cycles

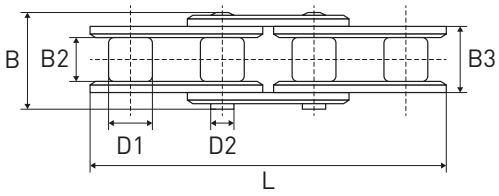
CHAINS – TECHNICAL SHEET

DIMENSIONS

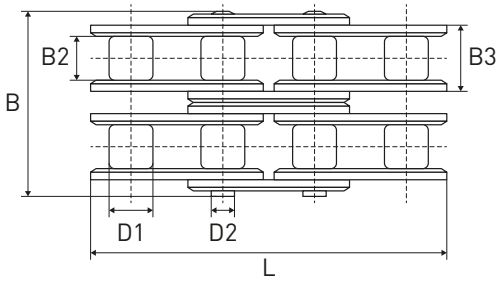
Roller chain



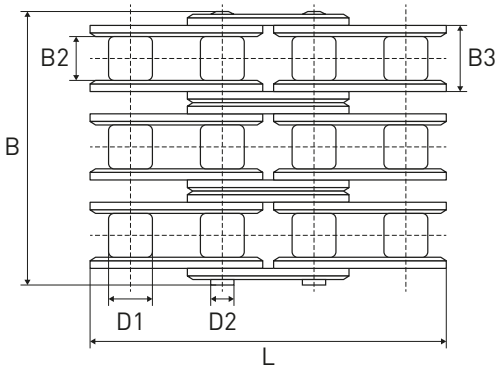
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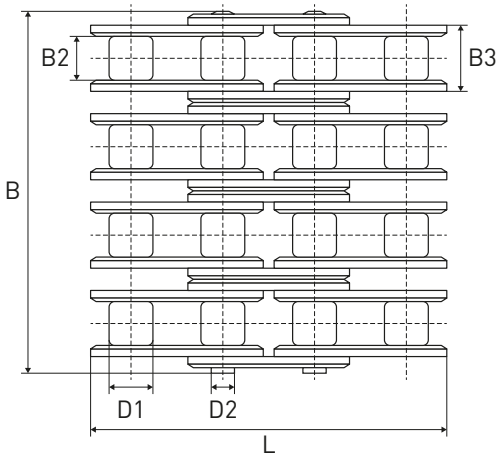
Type DR



Type TR



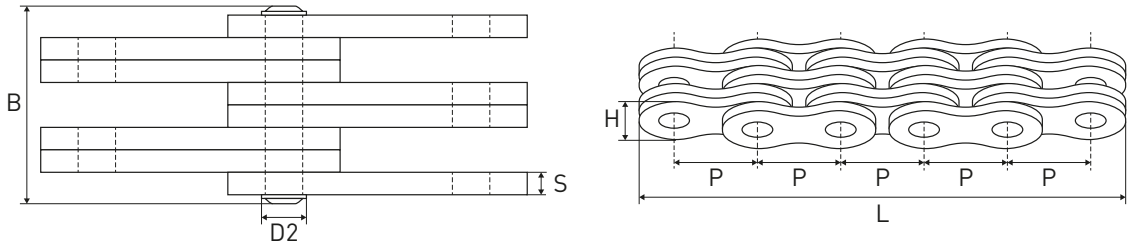
Type QR



CHAINS – TECHNICAL SHEET

DIMENSIONS

Leaf chain



COMBINATIONS



LEAF CHAINS WITHOUT PLASTIC INSERTS BL-SERIES

REXNORD PRECISION. POWER. PERFORMANCE. RENOLD CHAIN WIPPERMANN sedis DONGHUA

Type	Combination	Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Info & used for	REF		
		D2 mm	S mm	H mm	B mm	kN		Per metre	Chain link	Chain pin
1/2" pitch (12,70 mm)										
BL434	3 x 4	5,08	2,06	12,10	17,20	42,50	Fiat, Snorkel	100MC4652	100MC4653	100MC4654
BL444	4 x 4	5,08	2,06	12,10	19,30	58,00	Jungheinrich	100MC4655	100MC4656	100MC4657
BL446	4 x 6	5,08	2,06	12,10	23,50	58,00	Hyster, Clark	100MC4658	100MC4659	100MC4660
BL466	6 x 6	5,08	2,06	12,10	27,80	90,00	Haulotte	100MC4661	100MC4687	100MC4713
5/8" pitch (15,875 mm)										
BL523	2 x 3	5,95	2,46	15,10	15,00	40,10	Fiat, Still	107MC4662	100MC4688	100MC4714
BL534	3 x 4	5,95	2,46	15,10	19,90	60,00		100MC4663	100MC4689	100MC4715
BL544	4 x 4	5,95	2,46	15,10	22,40	78,00		100MC4664	100MC4690	100MC4716
BL546	4 x 6	5,95	2,46	15,10	27,30	78,00		100MC4665	100MC4691	100MC4717
BL566	6 x 6	5,95	2,46	15,10	32,30	120,00		100MC4666	100MC4692	100MC4718
BL588	8 x 8	5,95	2,38	15,00	42,60	174,00	Clark	100MC4667	100MC4693	100MC4719
3/4" pitch (19,05 mm)										
BL623	2 x 3	7,94	3,23	18,20	20,00	60,00		100MC4668	100MC4694	100MC4720
BL634	3 x 4	7,94	3,10	17,80	26,40	73,40		100MC4669	100MC4695	100MC4721
BL644	4 x 4	7,94	3,10	17,80	29,50	97,80		100MC4670	100MC4696	100MC4722
BL646	4 x 6	7,94	3,30	18,10	37,25	120,00		100MC4671	100MC4697	100MC4723
BL666	6 x 6	7,94	3,25	17,80	42,60	181,50		100MC4672	100MC4698	100MC4724
1" pitch (25,40 mm)										
BL823	2 x 3	9,53	4,00	23,60	24,60	84,50		100MC4673	100MC4699	100MC4725
BL834	3 x 4	9,53	4,00	23,60	33,10	126,70		100MC4674	100MC4700	100MC4726
BL844	4 x 4	9,53	4,00	23,60	37,40	169,00		100MC4675	100MC4701	100MC4727
BL846	4 x 6	9,53	4,00	23,60	45,50	169,00		100MC4676	100MC4702	100MC4728
BL866	6 x 6	9,53	4,00	23,60	54,00	253,50		100MC4677	100MC4703	100MC4729
1 1/4" pitch (31,75 mm)										
BL1023	2 x 3	11,11	4,88	29,60	28,70	145,00	Caterpillar, Mitsubishi	100MC4678	100MC4704	100MC4730
BL1034	3 x 4	11,11	4,88	29,60	38,60	244,00		100MC4679	100MC4705	100MC4731
BL1046	4 x 6	11,11	4,88	29,60	53,50	310,00		100MC4680	100MC4706	100MC4732
BL1066	6 x 6	11,11	4,88	29,60	63,40	450,00		100MC4681	100MC4707	100MC4733
1 1/2" pitch (38,10 mm)										
BL1234	3 x 4	12,71	5,68	35,90	45,10	305,00		100MC4682	100MC4708	100MC4734
BL1246	4 x 6	12,71	5,68	35,90	62,70	405,00		100MC4683	100MC4709	100MC4735
BL1266	6 x 6	12,71	5,68	35,90	74,20	560,00		100MC4684	100MC4710	100MC4736
1 3/4" pitch (44,45 mm)										
BL1434	3 x 4	14,28	6,38	41,90	51,20	316,00		100MC4685	100MC4711	100MC4737
BL1446	4 x 6	14,28	6,30	40,80	71,50	382,60		100MC4686	100MC4712	100MC4738

LEAF CHAINS WITHOUT PLASTIC INSERTS AL-SERIES

REXNORD PRECISION. POWER. PERFORMANCE. | RENOLD CHAIN | WIPPERMANN | sedis | DONGHUA

Type	Combination	Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Info & used for	REF		
		D2 mm	S mm	H mm	B mm	kN		Per metre	Chain link	Chain pin
5/8" pitch (15,875 mm)										
AL544	4 x 4	5,08	1,97	12,85	18,90	57,00	Genie	100MC4739	100MC4746	100MC4657
AL566	6 x 6	5,08	2,08	12,70	27,60	85,00		100MC4740	100MC4747	100MC4713
3/4" pitch (19,05 mm)										
AL644	4 x 4	5,95	2,46	15,30	22,40	80,00		100MC4741	100MC4748	100MC4716
AL666	6 x 6	5,95	2,46	15,30	32,30	120,00		100MC4742	100MC4749	100MC4718
1" pitch (25,40 mm)										
AL844	4 x 4	7,94	3,06	20,20	28,20	156,00		100MC4743	100MC4750	100MC4722
AL866	6 x 6	7,94	3,23	20,70	42,40	186,00		100MC4744	100MC4751	100MC4724
1 1/4" pitch (31,75 mm)										
AL1066	6 x 6	9,53	4,00	25,70	52,40	265,00		100MC4745	100MC4752	100MC4873

LEAF CHAINS WITHOUT PLASTIC INSERTS LL-SERIES

REXNORD PRECISION. POWER. PERFORMANCE. | RENOLD CHAIN | WIPPERMANN | sedis | DONGHUA

Type	Combination	Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Info & used for	REF		
		D2 mm	S mm	H mm	B mm	kN		Per metre	Chain link	Chain pin
1/2" pitch (12,70 mm)										
LL0844	4 x 4	4,45	1,34	11,50	13,00	36,40	Haulotte, Saxby	100MC4753	100MC4763	100MC4773
5/8" pitch (15,875 mm)										
LL1044	4 x 4	5,08	1,65	12,10	16,40	44,50	BT, Fiat	100MC4754	100MC4874	100MC4764
LL1066	6 x 6	5,08	1,65	12,10	22,80	69,00		100MC4755	100MC4881	100MC4774
3/4" pitch (19,05 mm)										
LL1244	4 x 4	5,72	1,85	14,30	17,80	61,00		100MC4756	100MC4875	100MC4775
LL1266	6 x 6	5,72	1,85	14,30	25,50	91,50		100MC4757	100MC4882	100MC4776
1" pitch (25,40 mm)										
LL1644	4 x 4	8,27	3,06	20,20	28,10	155,00		100MC4758	100MC4876	100MC4777
LL1666	6 x 6	8,27	3,06	20,20	40,50	216,00	Kalmar, Still	100MC4759	100MC4877	100MC4778
1 1/4" pitch (31,75 mm)										
LL2044	4 x 4	10,17	3,56	25,30	33,40	190,00		100MC4760	100MC4878	100MC4770
1 1/2" pitch (38,10 mm)										
LL2444	4 x 4	14,63	5,08	30,70	46,80	340,00	Kalmar	100MC4761	100MC4879	100MC4779
LL2466	6 x 6	14,63	5,00	33,00	68,30	510,00		100MC4762	100MC4880	100MC4772

ROLLER CHAINS, MOST COMMON TYPES METRE REFERENCE

DONGHUA

Type	Pitch	Inner width	Roller diameter	Pin diameter	Inner width	Plate height	Pin length	Strength	Weight	REF	
	P mm	B3 min mm	D1 max mm	D2 max mm	B2 max mm	H max mm	L max mm	FB kN	q kg/m	Per metre	Connecting link
Simplex chain											
05B-1	8,000	3,00	5,00	2,31	4,77	7,10	8,60	5,00	0,18	100MC4780	100MC4793
06B-1	9,525	5,72	6,35	3,28	8,53	8,30	13,50	9,00	0,41	100MC4781	100MC4794
12B-1	19,050	11,68	12,07	5,72	15,62	15,90	22,30	29,00	1,15	100MC4782	100MC4795
16B-1	25,400	17,02	15,88	8,28	25,40	20,50	35,40	60,00	2,60	100MC4783	100MC4796
20B-1	31,750	19,56	19,05	10,19	29,00	25,70	40,40	95,00	3,70	100MC4784	100MC4797
Duplex roller chain											
16B-2	25,400	17,02	15,88	8,28	25,40	20,50	67,40	106,00	5,30	100MC4785	100MC4798
Simplex chain											
ANSI 35-1	9,525	4,68	5,08	3,58	7,47	9,00	12,00	7,90	0,33	100MC4786	100MC4799
ANSI 40-1	12,700	7,85	7,95	3,96	11,15	11,60	16,30	14,10	0,62	100MC4787	100MC4800
ANSI 50-1	15,875	9,40	10,16	5,08	13,80	14,60	20,30	22,20	1,01	100MC4788	100MC4801
ANSI 60-1	19,050	12,57	11,91	5,94	17,70	17,70	25,70	31,80	1,48	100MC4789	100MC4802
ANSI 100-1	31,750	18,90	19,05	9,53	27,40	29,20	39,40	88,50	3,76	100MC4790	100MC4803
Duplex roller chain											
ANSI 50-2	15,875	9,40	10,16	5,08	13,80	14,60	38,50	44,40	2,00	100MC4791	100MC4804
ANSI 60-2	19,050	12,57	11,91	5,94	17,70	17,70	48,50	63,60	2,95	100MC4792	100MC4805

CHAIN REELS

BEST BUY





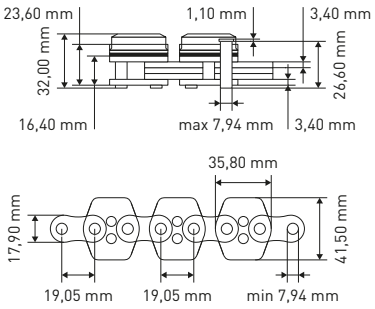


DONGHUA

Type	REF			
	10-metre reel	30-metre reel	50-metre reel	Connecting link
AL644	100MC4883	100MC4915		100MC4947
AL666	100MC4884	100MC4916		100MC4948
AL844	100MC4885	100MC4917		100MC4949
AL866	100MC4886	100MC4918		100MC4950
AL1066	100MC4887	100MC4919		100MC4951
BL446	100MC4888		100MC4939	100MC4952
BL523	100MC4889		100MC4940	100MC4953
BL534	100MC4890		100MC4941	100MC4954
BL544	100MC4891		100MC4942	100MC4955
BL546	100MC4892		100MC4943	100MC4956
BL566	100MC4893		100MC4944	100MC4957
BL623	100MC4894	100MC4920		100MC4958
BL634	100MC4895	100MC4921		100MC4959
BL644	100MC4896	100MC4922		100MC4960
BL646	100MC4897	100MC4923		100MC4961
BL666	100MC4898	100MC4924		100MC4962
BL822	100MC4899	100MC4925		100MC4963
BL823	100MC4900	100MC4926		100MC4964
BL834	100MC4901	100MC4927		100MC4965
BL844	100MC4902	100MC4928		100MC4966
BL846	100MC4903	100MC4929		100MC4967
BL866	100MC4904	100MC4930		100MC4968
BL1023	100MC4905	100MC4931		100MC4969
BL1034	100MC4906	100MC4932		100MC4970
BL1046	100MC4907	100MC4933		100MC4971
LL1044	100MC4908		100MC4945	100MC4972
LL1066	100MC4909		100MC4946	100MC4973
LL1244	100MC4910	100MC4934		100MC4974
LL1266	100MC4911	100MC4935		100MC4975
LL1622	100MC4912	100MC4936		100MC4976
LL1644	100MC4913	100MC4937		100MC4977
LL1666	100MC4914	100MC4938		100MC4978

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





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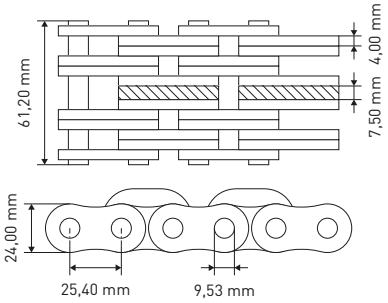
DONGHUA

- Type: 080
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
7,94	3,40	17,90	26,60	62	2,20	100MC4806	100MC4807	100MC4830

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD PRECISION. POWER. PERFORMANCE.

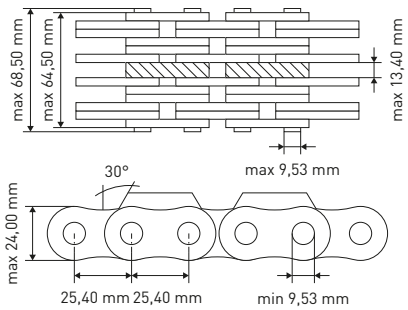
DONGHUA

- Type: 102
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	24,00	61,20	319,5	7,50	100MC4808	100MC4818	100MC4826

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD PRECISION. POWER. PERFORMANCE.

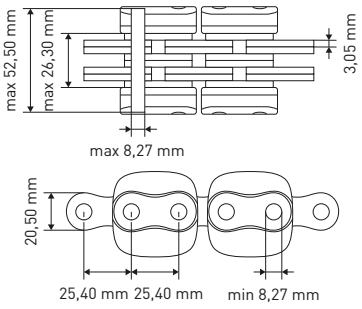
DONGHUA

- Type: 104
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	24,00	68,50	315	7	100MC4809	100MC4819	100MC4831

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





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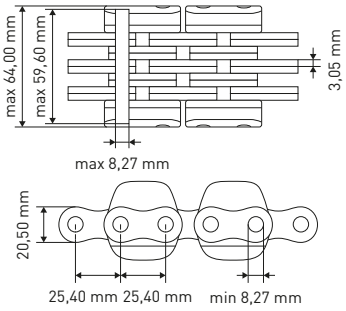
DONGHUA

- Type: 105
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
8,27	3,05	20,50	52,50	116	3	100MC4810	100MC4820	100MC4832

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





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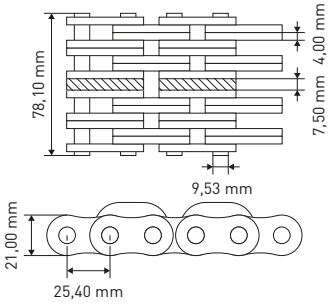
DONGHUA

- Type: 106
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
8,27	3,05	20,50	59,50	174	4,20	100MC4811	100MC4821	100MC4833

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD PRECISION. POWER. PERFORMANCE.

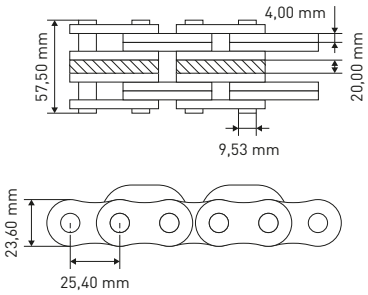
DONGHUA

- Type: 108
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	21,00	78,10	294,20	6,00	100MC4812	100MC4822	100MC4834

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





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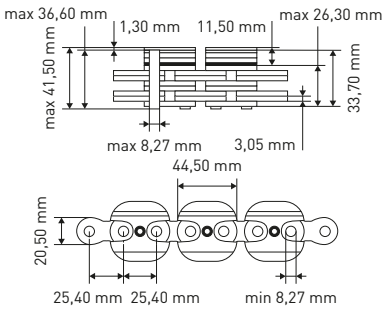
DONGHUA

- Type: 109
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	23,60	57,50	210	4,90	100MC4813	100MC4823	100MC4826

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





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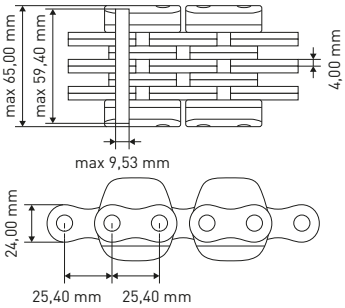
DONGHUA

- Type: 110
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
8,27	3,05	20,50	36,60	116	2,80	100MC4814	100MC4824	100MC4835

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





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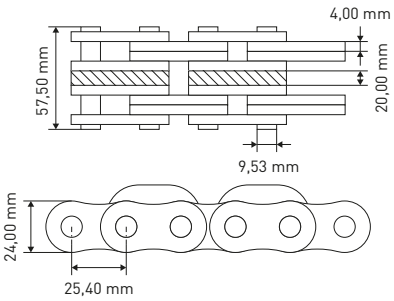
DONGHUA

- Type: 111
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	3,05	24,00	59,50	253	8,50	100MC4815	100MC4827	100MC4825

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD PRECISION. POWER. PERFORMANCE.

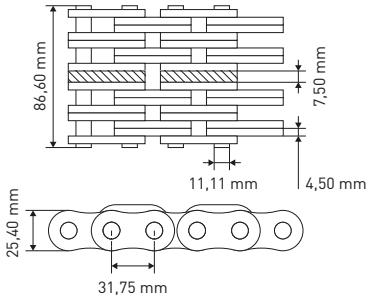
DONGHUA

- Type: 116
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	24,00	57,50	210	4,95	100MC4816	100MC4828	100MC4826

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD PRECISION. POWER. PERFORMANCE.

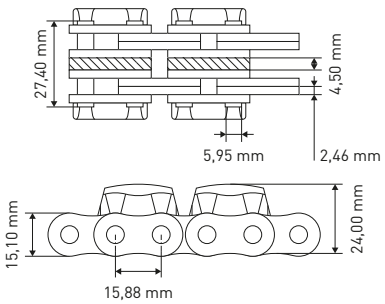
DONGHUA

- Type: 119
- Used for Linde

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
11,11	4,50	25,40	86,60	465	9,10	100MC4817	100MC4829	100MC4836

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





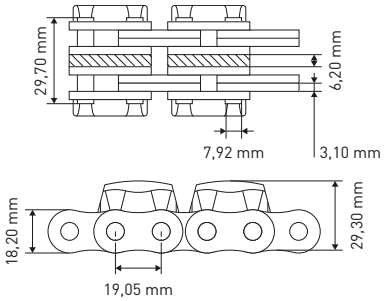
DONGHUA

- Type: BL544KS
- Used for Toyota

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
5,95	2,46	15,10	27,40	66,70	2,30	100MC4837	100MC4838	100MC4839

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





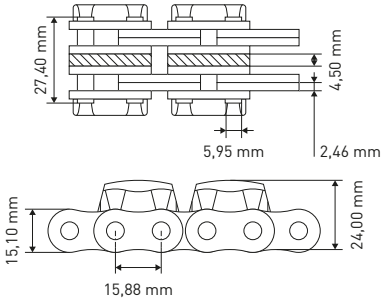
DONGHUA

- Type: BL644KS
- Used for Toyota

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
7,92	3,10	14,60	29,70	120	2,90	100MC4840	100MC4841	100MC4842

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD
PRECISION. POWER. PERFORMANCE.

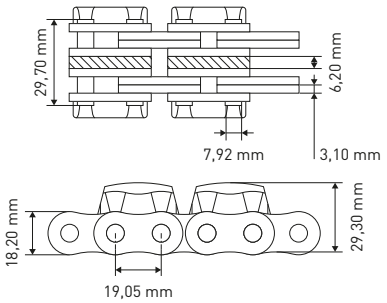
DONGHUA

- Type: BL834LKS
- Used for Still

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	24,00	40,00	125	4,20	100MC4843	100MC4844	100MC4845

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD
PRECISION. POWER. PERFORMANCE.

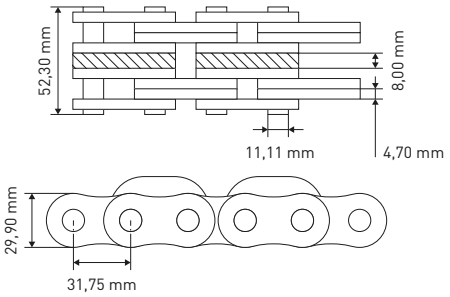
DONGHUA

- Type: BL844LKS
- Used for Still

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
9,53	4,00	24,00	45,00	213	4,90	100MC4846	100MC4847	100MC4848

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





REXNORD PRECISION. POWER. PERFORMANCE.

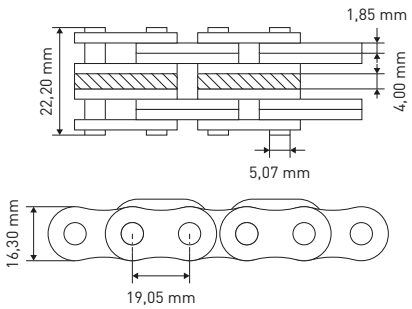
DONGHUA

- Type: BL1044KS
- Used for Still

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF	
mm	mm	mm	mm	kN	kg/m	Per metre	Chain pin
11,11	4,88	29,60	52,20	303	7,20	100MC4849	100MC4850

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





WIPPERMANN

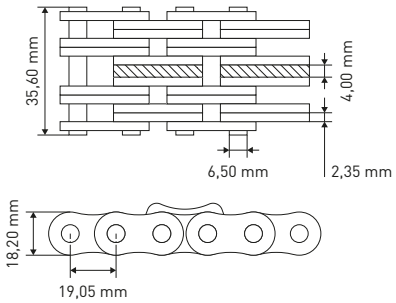
DONGHUA

- Type: FU194K
- Used for Jungheinrich

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF	
mm	mm	mm	mm	kN	kg/m	Per metre	Chain pin
5,72	1,85	16,30	22,20	85	2,10	100MC4851	100MC4856

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





WIPPERMANN

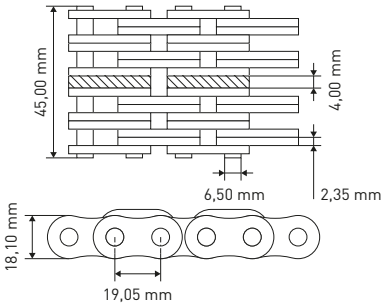
DONGHUA

- Type: FU196SK
- Used for Jungheinrich

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF		
mm	mm	mm	mm	kN	kg/m	Per metre	Chain link	Chain pin
6,50	2,35	18,20	35,60	99	3	100MC4852	100MC4855	100MC4857

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





WIPPERMANN

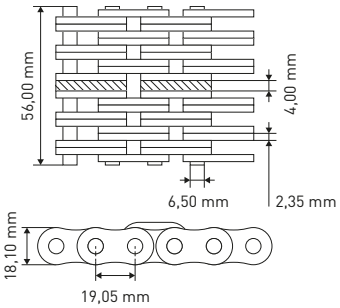
DONGHUA

- Type: FU198K
- Used for Jungheinrich

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF	
mm	mm	mm	mm	kN	kg/m	Per metre	Chain pin
6,50	2,35	18,10	45,00	138	4,80	100MC4853	100MC4858

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





WIPPERMANN

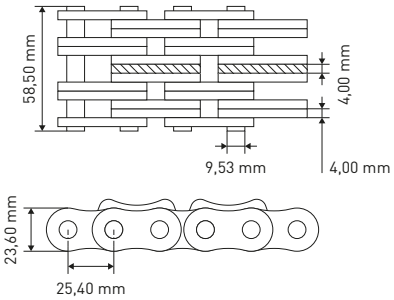
DONGHUA

- Type: FU191SK
- Used for Jungheinrich

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	REF	
mm	mm	mm	mm	kN	Per metre	Chain pin
6,50	2,30	18,10	56,00	215	100MC4854	100MC4859

LEAF CHAIN WITH PLASTIC INSERTS METRE REFERENCE





WIPPERMANN

DONGHUA

- Type: BLK866
- Used for Jungheinrich

Pin diameter	Plate thickness	Plate depth	Pin length	Tensile strength	Weight	REF
mm	mm	mm	mm	kN	kg/m	Per metre
11,11	4,00	23,60	58,50	303	7,20	100MC4849

CHAIN ANCHORS – TECHNICAL SHEET

Group	Example	Customer details
10-01-06-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

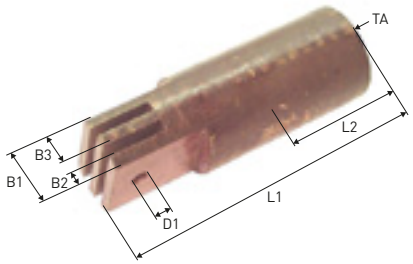
☐ Order

TY-KT	Type of chain anchor
L1	Total length
TA	Thread type (if any)
Pm	Pitch (metric)
Pi	Pitch (inch)
RH/LH	RH-thread or LH-thread
L2	Thread length If no thread, then L2 is measured in a 90-degree angle to L1 and D1
D1	Diameter of the chain pin hole
D2	Diameter of the anchor pin hole
AT-GL	Number of slots
LG-GL	Position of slots, see pictures
B1	Dimensions as per pictures
B2	Smallest distance between the slots
B3	Largest distance between the slots
TY-K1	Type of chain
TY-K2	Type of chain
SL	Is there a chain lock? (yes/no)

CHAIN ANCHORS – TECHNICAL SHEET

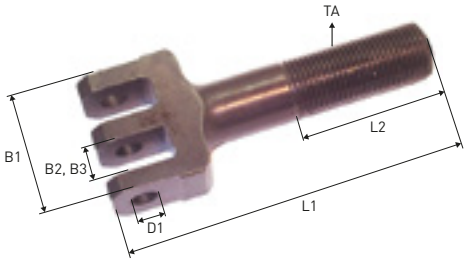
TYPES

Type NI
With inner thread

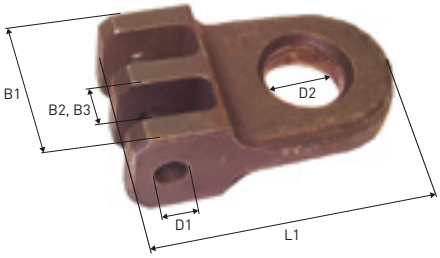


L2 = length of internal thread

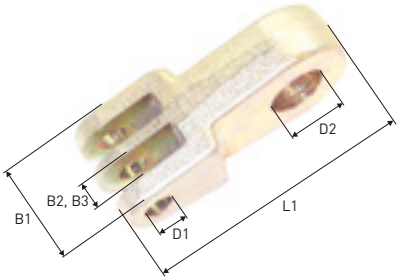
Type NU
With outer thread



Type OH
Holes are in a 90° angle to each other



Type O
Holes are aligned in the same direction



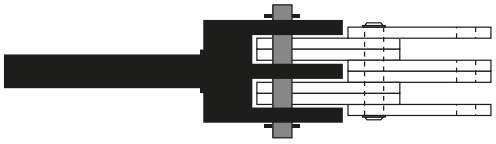
Type S
Very special, none of the above types.
Please fill out as many of the dimensions as possible, and add a drawing of the chain anchor

POSITION OF THE CHAIN ANCHOR

Type I
Between the chain



Type U
Over the chain



CHAIN SPRAY



- High-quality spray to lubricate chain-driven transmissions that are subject to heavy load
- To be processed like oil with the properties of grease
- Resistant to weather influence, weak acids and bases
- Water-repellent
- Content: 400 ml

REF 100MC4863

HIGH SPEED CHAIN OIL



- Water-resistant chain lubricant
- High-quality mineral and synthetic oils, anti-oxidation and antiwear additives, friction modifiers and tackiness agents
- Penetrates deeply into vital chain pin and bushing areas, and sets to form an adhering, long-lasting lubricant film
- For highly loaded fast-running chains used in corrosive, high power and shock load conditions
- Content: 500 ml

REF 100MC9538

PROFESSIONAL CHAIN WEAR GAUGE



Measure the degree of wear of a chain: a value of 2% or more means that the chain must be replaced

REF 100MC4862

PROFESSIONAL CHAIN WEAR GAUGE

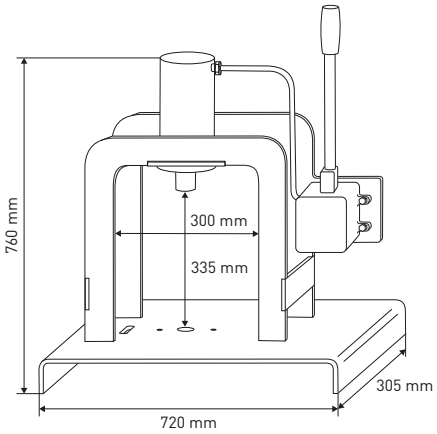


- Chain wear gauge in synthetic material
- Indicates the level of chain wear

REF 100MC4861

MULTIFUNCTIONAL MANUAL HYDRAULIC PRESS





REF 100MC4860

This multifunctional hydraulic press is designed for:
- Cutting forklift chains
- Cutting and crimping of battery cables
- Pressing bearings

The press can be operated manually, but can also be set up for a dual control mode, allowing for the press to be operated by an additional external hydraulic unit.

The standard reference includes only the press, additional options can be bought separately.

Accessories



REF 100MC4979
Chain cutting tool kit
BL544KS TOYOTA – CESAB
TYPE 080 – 105 – 110 – 111 LINDE – OM – STILL



REF 100MC4980
Leaf chain cutting tool kit

AL4 – –	EL4 – –	BL4 – –
AL5 – –	EL5 – –	BL5 – –
AL6 – –	EL6 – –	BL6 – –
EL8 – –	BL8 – –*	

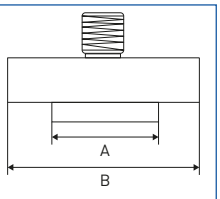


REF 100MC4981
Battery cable cutting kit
Diameter: 16 – 25 – 35 – 50 – 70 – 90 mm²



REF 100MC4982
Tool kit for electric cables/connectors
Diameter: 16 – 25 – 35 – 50 – 70 mm²



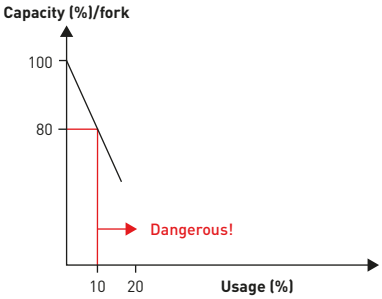


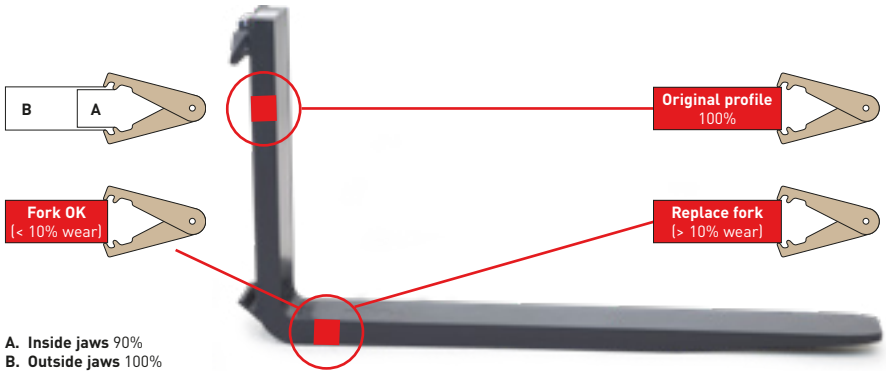
A	B
17 mm	38 mm
20 mm	40 mm
20 mm	45 mm
25 mm	50 mm

REF 100MC4983
Tool kit for cable press

WEAR CALIPER FOR FORKS



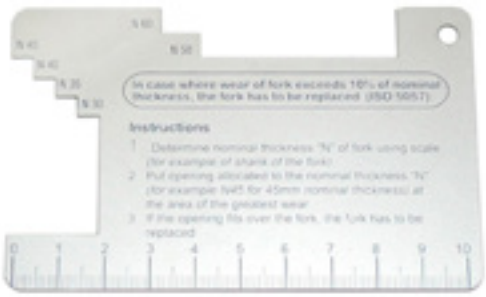




A. Inside jaws 90%
B. Outside jaws 100%

REF 100MC7315

WEAR CALIPER FOR FORKS



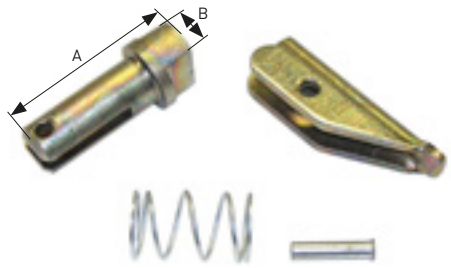
When fork wear exceeds 10% of nominal thickness, the fork has to be replaced (ISO 5057)

Instructions:

- Determine nominal thickness "N" of fork using scale (for example of back of the fork)
- Apply opening allocated to the nominal thickness "N" (for example N45 for the 45 mm nominal thickness) to the area with the greatest wear
- If the opening fits over the fork, the fork has to be replaced

REF 100MC7316

FORK LATCH PIN KITS



For use with CAM attachments-branded forks

Type	Dimensions			REF
	Ø mm	A mm	B mm	
FEM 2	15	55,0	13,0	100MC7347
FEM 3	15	59,5	16,0	100MC7348
FEM 4	16	69,5	16,0	100MC7349

Other dimensions on request

HOSE REELS

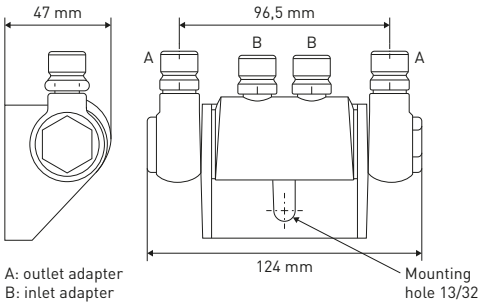


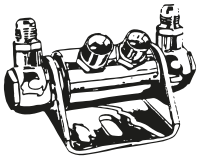
Type	Reel	Max hose length	Hose type	Mast height		Brand	REF
	Ø mm	 mm		Duplex m	Triplex m		
RH	275	4,0	Double synflex 1/4"	6	5	TotalSource	100MC4169
LH	275	4,0	Double synflex 1/4"	6	5	TotalSource	100MC4170
RH	325	4,5	Double synflex 3/8"	7	6	TotalSource	100MC4179
LH	325	4,5	Double synflex 3/8"	7	6	TotalSource	100MC4180
RH	325	5,0	Double synflex 5/16"	7	6	TotalSource	100MC4187
LH	325	5,0	Double synflex 5/16"	7	6	TotalSource	100MC4188
RH	420	6,7	Double synflex 3/8"	11,5	9,5	TotalSource	100MC4190
LH	420	6,7	Double synflex 3/8"	11,5	9,5	TotalSource	100MC4191
RH	420	4,7	Double synflex 1/2"	9	7,5	TotalSource	100MC4195
LH	420	4,7	Double synflex 1/2"	9	7,5	TotalSource	100MC4196
RH	280	3,9	Double synflex 1/4"	6,3	4,8	Cascade	100MC3182
LH	280	3,9	Double synflex 1/4"	6,3	4,8	Cascade	100MC3183
RH	330	4,6	Double synflex 3/8"	7,1	5,5	Cascade	100MC3184
LH	330	4,6	Double synflex 3/8"	7,1	5,5	Cascade	100MC3185
RH	410	5,8	Double synflex 1/2"	8,9	7,4	Cascade	100MC4227
RH	385	4,3	Double synflex 3/8"	4,3	4,9	Linde	100MC7354
LH	385	4,3	Double synflex 3/8"	4,3	4,9	Linde	100MC7355

Please consult our hydraulic parts & accessories catalogue for individual components

SWIVEL JOINTS FOR 2 HOSES







Specifications	Pressure drop	
Flow	19 litres	38 litres
REF 100MC4234 (with check valve)	2,8 bar	8,5 bar
REF 100MC4235 (without check valve)	2,0 bar	6,8 bar

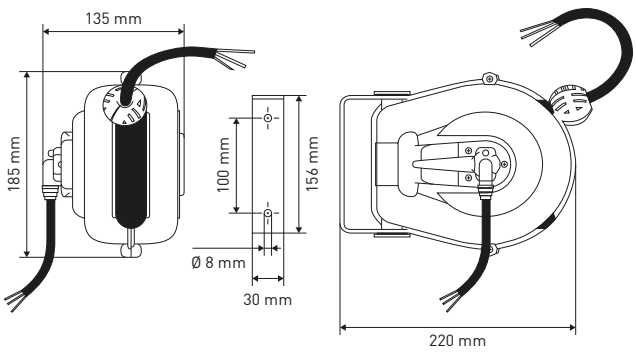
- Pressure range up to 300 bar
- 180° rotation
- Swivel joints are available with or without check valve

Outlet adapter	Inlet adapter	REF	
		With valve	Without check valve
		100MC4234	100MC4235
1/4" BSP	1/4" BSP	100MC4236	100MC4249
3/8" BSP	3/8" BSP	100MC4237	100MC4250
9/16" JIC	9/16" JIC	100MC4238	100MC4251
3/4" 16 UNF	3/4" 16 UNF	100MC4239	100MC4252
M16 x 1,5 (24°)	M16 x 1,5 (24°)	100MC4240	100MC4253
3/8" BSP	1/4" BSP	100MC4241	100MC4254
3/8" BSP	9/16" JIC	100MC4242	100MC4255
1/4" BSP	9/16" JIC	100MC4243	100MC4256
9/16" JIC	3/8" BSP	100MC4244	100MC4257
9/16" JIC	1/4" BSP	100MC4245	100MC4258
9/16" JIC		100MC4246	100MC4259
M18 x 1,5	3/8" BSP	100MC4247	100MC4260
M16 x 1,5 (60°)	M16 x 1,5 (60°)	100MC4248	100MC4261

ELECTRIC CABLE REELS

BEST BUY





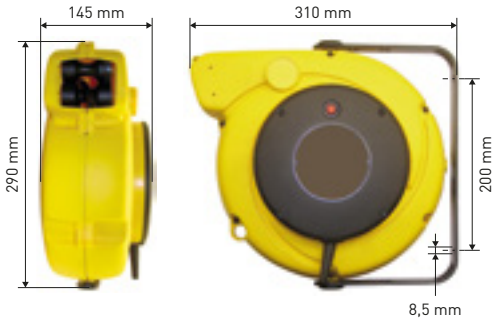
- Automatic, with cable lock system
- Swivel bracket
- Cable: 3 x 1,5 mm²
- Capacity: 800 W
- Supplied with mounting bracket and hose stopper

REF 100MC7364 – Cable length: 5 m
REF 100MC7367 – Cable length: 10 m
REF 100MC7365 – Cable length: 15 m

ELECTRIC CABLE REEL

ZECA





Dimensions:
- PVC cable diameter: 7 mm; 3 G: 1,5 mm²
- Cable length: 11,5 m
  10 m coiled cable length + 1,5 m uncoiled cable length
- kW (20 °C): 1,8 kW (230 V)
- kW (20 °C): 1,2 kW (230 V)

Technical features:
- Shock-resistant plastic external case
- Cable roller guide
- Ratchet stop device every 500 mm, easily removable if constant traction of cable is required
- Collector insulating power: 2,5 kV
- Double earth contact
- Slip ring with brass rings and brushes
- Protection degree: IP42
- Working temperature: –5 to 50 °C
- Delivered without cable at supply side

REF 100MC7368

ELECTRIC CABLE REEL

ZECA



Dimensions:
- Cable diameter: 7 mm, 3 G: 1,5 mm²
- Cable length: 15 m
  14 m coiled cable length + 1 m uncoiled cable length
- Maximum voltage: 500 V
- kW (20 °C): 1,8 kW (230 V)
- kW (20 °C): 1,2 kW (230 V)

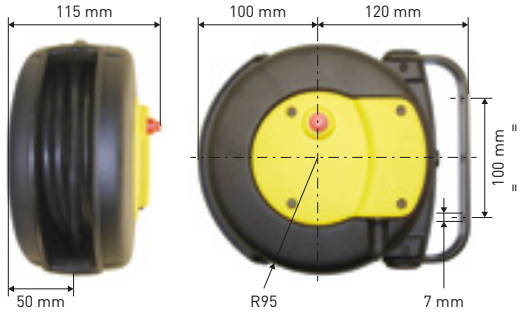
Technical features:
- Shock resistant plastic external case
- Cable roller guide
- Ratchet stop device every 500 mm, easily removable if constant traction of cable is required
- Double earth contact
- Slip ring with brass rings and brushes
- Protection degree: IP42
- Working temperature: –5 to 50 °C
- Delivered without cable at supply side
- With thermal protector
- With PVC cable

REF 100MC7366

ELECTRIC CABLE REEL

ZECA





Dimensions:

- PVC cable diameter: 7,5 mm; 3 G: 1,5 mm²
- Cable length: 6 m
  5 m coiled cable length + 1 m uncoiled cable length
- Maximum voltage: 500 V
- Max 1,9 kW

Technical features:

- Shock-resistant plastic external case
- Ratchet stop device every 500 mm easily removable if constant traction of cables is required
- Protection degree: IP42
- Slip ring with brass rings and brushes
- Working temperature: –5 to 50 °C
- Double earth contact
- With thermal protector

1. **REF 100MC7361**
2. **REF 100MC7362** – With AC plug
   – Output: female edge grounded
   – Input: male pin grounded

ELECTRIC CABLE REEL



- Made from ABS plastic, shock-resistant and anti-corrosive
- Electric cable reel with mounting block (for use in workshop)
- Flexible, oil-resistant 3-core cable 1,5 mm²

REF 100MC7356 – Cable length: 8 m
– Max power: 1000 W
REF 100MC7357 – Cable length: 12 m
– Max power: 1200 W

RIGHT-HAND ELECTRIC CABLE REEL



- Automatic with slip ring contact
- Cable: 4 x 1,5 mm²
- Cable length: 12 m
- Cable diameter: 9,3 mm
- Capacity: 400 V, 30 A on the slip rings
- For vertical and horizontal use
- Supplied with mounting bracket
- Diameter: 295 mm
- Width: 180 mm
- Working temperature: –30 °C to 60 °C

REF 100MC7358 – Only electric cable reel
REF 100MC7359 – Cable stopper
REF 100MC7360 – Kit: electric cable reel and stopper

MAST ROLLERS



Please consult our Mast roller catalogue REF 7872482

Go to downloads on www.tvh.com to view the catalogue online.

MAST ROLLERS – NICE TO KNOW

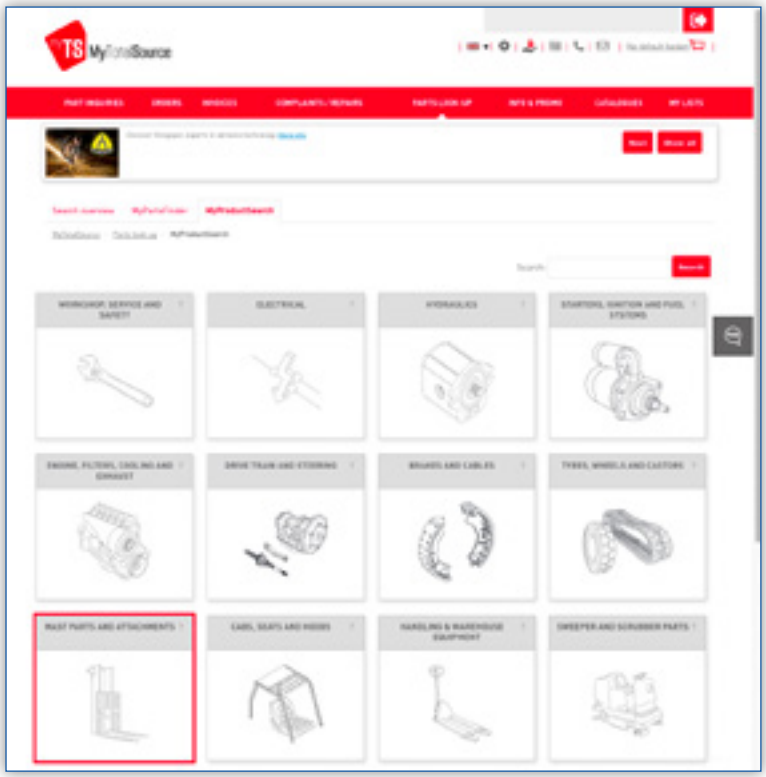
MyTotalSource

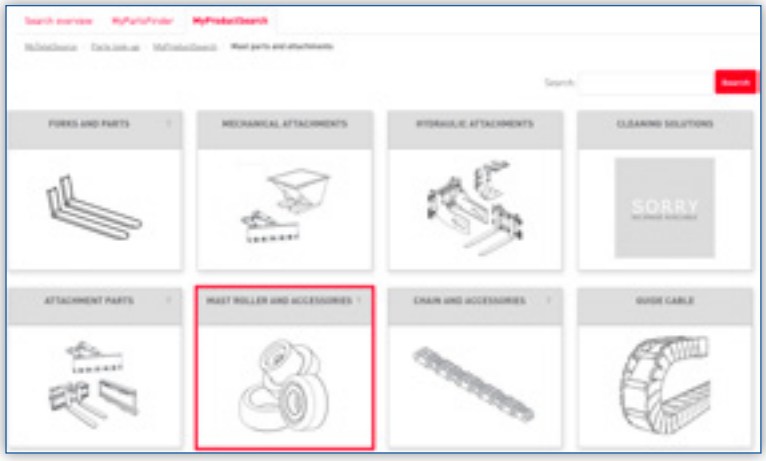
Your interactive online webshop for spare parts

The user-friendly search modules **MyPartsFinder** and **MyProductSearch** allow you to always find the correct part. Alternatively, you can also easily search by part number.

1. In **MyPartsFinder** you can find your parts by entering vehicle specifications. (make, type ...)

2. With **MyProductSearch** you can find your part by entering technical details.





MyProductSearch
Find your mast rollers

- Log on to MyTotalSource
- Go to 'Parts Look-up' and choose MyProductSearch
- Choose the group 'Mast parts and attachments'

Then go to 'Mast roller and accessories'

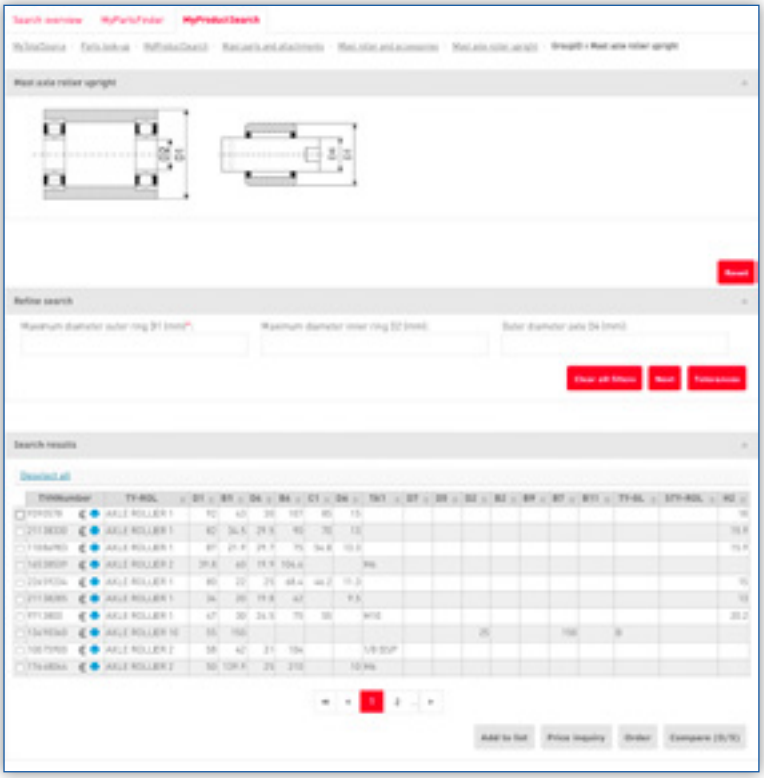
MAST ROLLERS – NICE TO KNOW

myTS MyTotalSource



Choose the right type and enter the right measurements to get a list of possible options

3. Search by part number



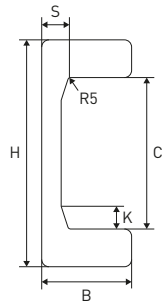
Click on the Euro symbol to get a pop-up inquiry or click on the i-button to see the technical details.

- **Single line part inquiry:** for a quick price and lead time of only 1 item
- **Multiple line part inquiry:** for price and lead time of several parts
- Instant price, availability and picture

No login yet? Request your login details now via ecommerce@tvh.com

Help desk: T +32 56 43 48 66

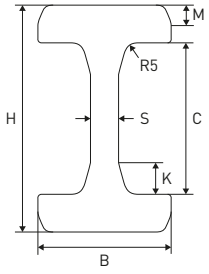
MAST PROFILE INNER-OUTER



Length on request

C mm	H mm	B mm	S mm	K mm	Weight kg	REF
62,5	86,5	36	7,5	12	10,5	100MC7369
70,8	103,2	40,0	7,7	15	14,8	100MC7370
78,7	121,3	41,0	10,8	15	20,9	100MC7371
89,4	135,4	53,0	12,7	15	28,6	100MC7372
108,4	157,2	61,2	14,0	15	35,9	100MC7373
123,8	175	66,2	16,2	15	42,9	100MC7374
150,1	201,5	71,2	19,4	20	52,3	100MC7375

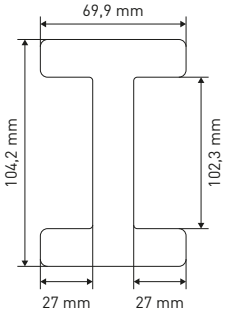
MAST PROFILE



Length on request

C mm	H mm	B mm	S mm	K mm	M mm	Weight kg	REF
70	98	65,0	9,0	15	8	19,4	100MC7376
77,9	113,9	66,0	11,0	15	8	25,3	100MC7377
86,6	129,6	72,0	12,0	15	10	31,2	100MC7378
88,6	129,6	81,0	12,0	15	10	34,1	100MC7379
102,2	140,2	70,0	12,7	15	10	36	100MC7380
108,4	152,2	83,0	14,0	20	10	40,5	100MC7381

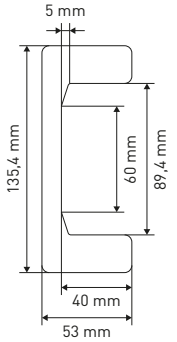
MAST PROFILE



33 kg/m

REF 100MC7382

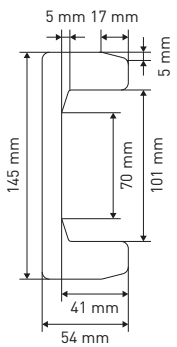
MAST PROFILE



28,6 kg/m

REF 100MC7372

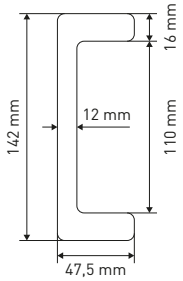
MAST PROFILE



28,5 kg/m

REF 100MC7383

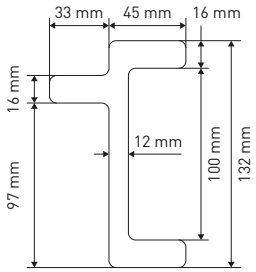
MAST PROFILE



22 kg/m

REF 100MC7384

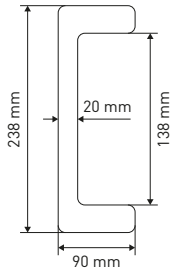
MAST PROFILE



24,7 kg/m

REF 100MC7385

MAST PROFILE

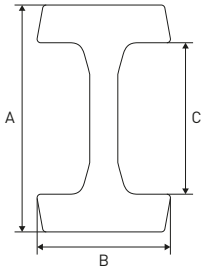


- 92 kg/m
- Used for Hyster

* Welded profile, not extruded

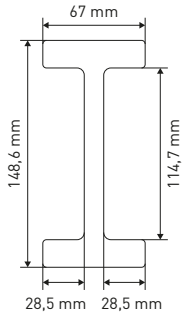
REF 100MC7386*

MAST PROFILE



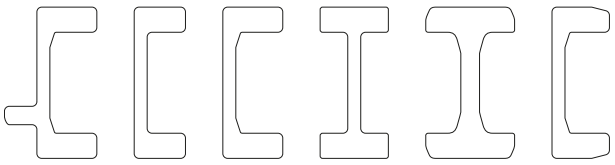
A mm	B mm	C mm	Weight kg/m	REF
108	60	75,5	22,0	100MC7387
130	75	90,0	34,0	100MC7388
150	84	106,0	41,0	100MC7389
180	85	130,0	50,0	100MC7390

MAST PROFILE



REF 100MC7391

MAST PROFILE



Other profiles available on request!

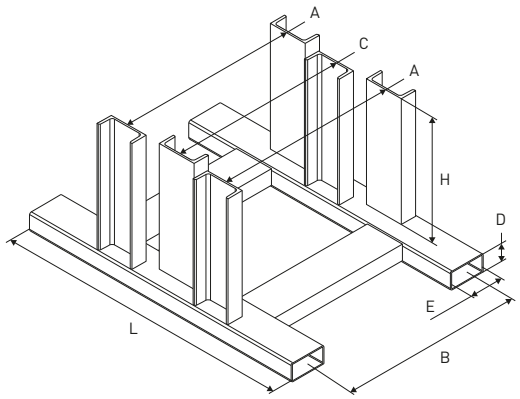
SPARE PARTS USED FOR CASCADE AND LIFT-TEK ELECAR MAST

Type of mast	REF						
	Seal kit free cylinder	Seal kit main lift cylinder	Chain sheave	Hose sheave	Mast roller	Carriage mast roller	Carriage side roller
MT-16		101MC1310	101MC1323		101MC1326 Quantity: 12	101MC1326 Quantity: 6	
MT-25		101MC1311	101MC1324		101MC1327 Quantity: 12	101MC1327 Quantity: 6	
MT-40		101MC1312	101MC1325		101MC1328 Quantity: 12	101MC1328 Quantity: 6	
45C		101MC1313			101MC1327 Quantity: 12 101MC1333 Quantity: 12	101MC1327 Quantity: 6 101MC1333 Quantity: 6	
35DMS, 40DMS Working press: 140 bar		101MC1314	101MC1323	101MC3452	101MC1326	101MC1326 Quantity: 4 or 6	101MC3454 Quantity: 4
35DMS, 40DMS Working press: 180 bar		101MC1316	101MC1323	101MC3452	101MC1326	101MC1326 Quantity: 4 or 6	101MC3454 Quantity: 4
55DMS, 60DMS, 55DMSE, 66DMSE		101MC1317	101MC1324	101MC3452	101MC1327 Quantity: 6	101MC1327 Quantity: 4 or 6	101MC3454 Quantity: 4
35DMD, 40DMD	101MC1302	101MC1319	101MC1323	101MC3452	101MC1332	101MC1332 Quantity: 4 or 6	101MC3454 Quantity: 4
35DMT, 40DMT, 35DMTE, 40DMTE Working pressure: 140 bar	101MC1302	101MC1314		101MC3452	101MC1326 Quantity: 8	101MC1326 Quantity: 4 or 6	101MC3454 Quantity: 4
35DMT, 40DMT, 35DMTE, 40DMTE Working pressure: 180 bar	101MC1304	101MC1316		101MC3452	101MC1326 Quantity: 8	101MC1326 Quantity: 4 or 6	101MC3454 Quantity: 4
55DMT, 55DMTE		101MC1317	101MC1324	101MC3452	101MC1333 Quantity: 8	101MC1333 Quantity: 4 or 6	101MC3454 Quantity: 4
60DMT, 66DMTE, 66DMT	101MC1307	101MC1317	101MC1324	101MC3452	101MC1327 Quantity: 8	101MC1327 Quantity: 4 or 6	101MC3454 Quantity: 4

(*) Quantity as required

MAST SUPPORT





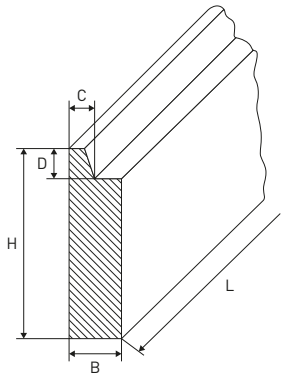
To move and stock forklift masts in a safe way
B: Centre to centre of fork pockets

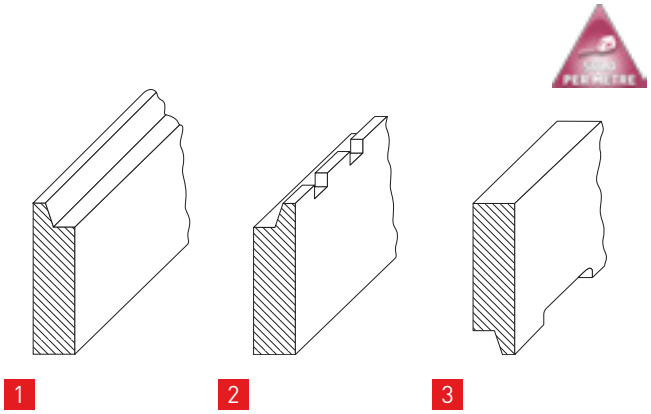
Technical details:
L: 1200 mm
H: 500 mm
D: 65 mm
E: 140 mm

Dimensions			REF
B mm	A mm	C mm	
730	730	715	101MC1336
850	850	835	101MC1337

Also available with oil pan.
Call our sales department!

FORK CARRIAGE PROFILES





Class	H	B	C	D	REF		
FEM	mm	mm	mm	mm	Profile (1)	Top profile (2)	Bottom profile (3)
2	60	50,0	16,0	13	100MC7392	100MC7403	100MC7414
2	80	30,0	16,0	13	100MC7393	100MC7404	100MC7415
2	110	32,0	16,0	13	100MC7394	100MC7405	100MC7416
2	110	38,0	16,0	13	100MC7395	100MC7406	100MC7417
2	127	32,0	16,0	13	100MC7396	100MC7407	100MC7418
2	150	38,0	16,0	13	100MC7397	100MC7408	100MC7419
2	152	32,0	16,0	13	100MC7398	100MC7409	100MC7420
3	148	40,0	21,5	16	100MC7399	100MC7410	100MC7421
3	180	38,0	21,5	16	100MC7400	100MC7411	100MC7422
3	180	45,0	21,5	16	100MC7401	100MC7412	100MC7423
4	180	57,0	25,5	19	100MC7402	100MC7413	100MC7424

FORK CARRIAGE PROFILES

Class	H	B	C	D	Length	REF	
FEM	mm	mm	mm	mm	mm	Top profile	Bottom profile
2	100	40,0	16,0	13	1000	100MC7425	100MC7429
2	100	40,0	16,0	13	1200	100MC7426	100MC7430
3	150	40,0	21,5	16	1000	100MC7427	100MC7431
3	150	40,0	21,5	16	1200	100MC7428	100MC7432

FEM FORKS ACCORDING TO ISO STANDARDS

CAM attachments



Class	Section	Capacity/ pair	REF – fork length							
	mm	kg/mm	800 mm	900 mm	1000 mm	1070 mm	1100 mm	1150 mm	1200 mm	1300 mm
2A	80 x 40	2000/500	100MC9968	100MC9974	100MC9982		101MC1007	101MC1030	101MC1039	101MC3474
2A	100 x 35	1900/500	100MC9969	100MC9975	100MC9983	101MC1001	101MC1008	101MC1031	101MC3473	101MC3475
2A	100 x 40	2500/500	100MC9970	100MC9976	100MC9984	101MC1002	101MC1009	101MC1032	101MC1040	101MC3476
2A	100 x 45	3000/500	100MC9971	100MC9977	100MC9985	101MC1003	101MC1010	101MC1033	101MC1041	101MC3477
2A	120 x 40	3000/500			101MC3471	101MC3472	101MC1011	101MC1004	101MC1042	101MC3478
2A	125 x 40	3000/500			101MC1277		101MC1012		101MC1043	
2A	125 x 45	4100/500		100MC9978	100MC9987		101MC1013	101MC1034	101MC1044	101MC3479
2B	80 x 40	2000/500	100MC9972	100MC9979	100MC9988		101MC1014	101MC1035	101MC1045	
2B	100 x 35	1900/500					101MC1015		101MC1046	
2B	100 x 40	2500/500	100MC9973	100MC9980	100MC9989		101MC1016	101MC1036	101MC1047	101MC1073
2B	100 x 45	3000/500			100MC9990		101MC1017		101MC1048	
2B	120 x 40	3000/500			100MC9991		101MC1018	101MC1037	101MC1049	
2B	125 x 45	4100/500			100MC9992		101MC1019		101MC1050	
3A	100 x 45	3000/500			100MC9993		101MC1020		101MC1051	101MC1074
3A	100 x 50	3900/500			100MC9994		101MC1021		101MC1052	
3A	120 x 50	4500/500			100MC9995		101MC1022	101MC1278	101MC1053	
3A	125 x 45	4100/500			100MC9996		101MC1023	101MC1038	101MC1054	101MC1075
3A	125 x 50	5000/500		100MC9981	100MC9997	101MC1005	101MC1024		101MC1055	101MC1076
3A	130 x 60	7200/500					101MC1025		101MC1056	101MC1077
3A	150 x 50	5800/500			100MC9998	101MC1006	101MC1026		101MC1057	101MC1078
3A	150 x 60	7000/600							101MC1058	
3B	100 x 50	3900/500					101MC1027		101MC1059	101MC1279
3B	125 x 45	4100/500			100MC9999		101MC1028		101MC1060	101MC1079
3B	125 x 50	5000/500							101MC1061	101MC1080
3B	150 x 50	5800/500							101MC1062	101MC1081
4A	130 x 60	7200/500							101MC1063	
4A	150 x 50	5000/600							101MC1064	
4A	150 x 60	7000/600			101MC1000		101MC1029		101MC1065	101MC1082
4A	150 x 65	8220/600							101MC1066	
4A	150 x 70	9000/600							101MC1067	101MC1280
4A	200 x 60	9200/600							101MC1068	
4A	200 x 70	12 000/600								
4B	150 x 50	5000/600							101MC1069	
4B	150 x 60	7000/600							101MC1070	
4B	200 x 50	6500/600							101MC1071	
4B	200 x 60	9200/600							101MC1072	

FEM FORKS ACCORDING TO ISO STANDARDS [CONTINUED]

High-quality material:
Made of chromium-manganese steel which quarantees a high mechanical strength.

Refined finish:
Manufactured on the basis of a rolled profile.

Observe the European standards:
ISO standards 2328 and 2330.

Extensive range:
TVH has an extensive range of CAM attachments forks in various dimensions.

TVH cerfified

Class	Section	Capacity/ pair	REF – fork length						
	mm	kg/mm	1400 mm	1500 mm	1600 mm	1800 mm	2000 mm	2200 mm	2400 mm
2A	80 x 40	2000/500	101MC1083	101MC1112	101MC1140	101MC1166			
2A	100 x 35	1900/500	101MC1084	101MC1113	101MC1141				
2A	100 x 40	2500/500	101MC1085	100MC9986	101MC1142	101MC1167	101MC1193	101MC1218	
2A	100 x 45	3000/500	101MC1086	101MC1114	101MC1143	101MC3759	101MC1194	101MC1219	101MC1231
2A	120 x 40	3000/500	101MC1087	101MC1115	101MC1144	101MC1168	101MC1195		101MC1232
2A	125 x 40	3000/500	101MC1285	101MC1088		101MC1116			
2A	125 x 45	4100/500	101MC1089	101MC1117	101MC1145	101MC1169	101MC1196	101MC1220	101MC1233
2B	80 x 40	2000/500							
2B	100 x 35	1900/500							
2B	100 x 40	2500/500	101MC1090	101MC1118	101MC1146	101MC1170	101MC1197		
2B	100 x 45	3000/500	101MC1091	101MC1284	101MC1147	101MC3760	101MC1281		
2B	120 x 40	3000/500	101MC1092						
2B	125 x 45	4100/500	101MC1093		101MC1148	101MC1171	101MC1198		
3A	100 x 45	3000/500	101MC1094	101MC1119	101MC1149	101MC1172	101MC1199		
3A	100 x 50	3900/500	101MC1095	101MC1120	101MC1150	101MC1173	101MC1200		101MC1234
3A	120 x 50	4500/500	101MC1096	101MC1121	101MC1151	101MC1174	101MC1201		101MC1235
3A	125 x 45	4100/500	101MC1097	101MC1122	101MC1152	101MC1175	101MC1202	101MC1221	101MC1236
3A	125 x 50	5000/500	101MC1098	101MC1123	101MC1153	101MC1176	101MC1203	101MC1222	101MC1237
3A	130 x 60	7200/500	101MC1099	101MC1124	101MC1154	101MC1177	101MC1204		101MC1238
3A	150 x 50	5800/500	101MC1100	101MC1125	101MC1155	101MC1178	101MC1205	101MC1223	101MC1239
3A	150 x 60	7000/600	101MC1101	101MC1126	101MC1156	101MC1179	101MC1206	101MC1224	101MC1240
3B	100 x 50	3900/500	101MC1102	101MC1127	101MC1157				
3B	125 x 45	4100/500	101MC1103	101MC1128	101MC1158	101MC1180	101MC1207		101MC1241
3B	125 x 50	5000/500	101MC1104	101MC1129	101MC1159	101MC1181	101MC1208		101MC1242
3B	150 x 50	5800/500	101MC1105	101MC1130	101MC1160	101MC1182	101MC1209	101MC1225	101MC1243
4A	130 x 60	7200/500	101MC1106	101MC1131	101MC1161	101MC1183	101MC1210		
4A	150 x 50	5000/600	101MC1107	101MC1132	101MC1162	101MC1184	101MC1211	101MC1226	101MC1244
4A	150 x 60	7000/600	101MC1108	101MC1133	101MC1163	101MC1185	101MC1212	101MC1227	101MC1245
4A	150 x 65	8220/600		101MC1134		101MC1186	101MC1213		101MC1246
4A	150 x 70	9000/600	101MC1109	101MC1135	101MC1164	101MC1187	101MC1214	101MC1228	101MC1247
4A	200 x 60	9200/600		101MC1136		101MC1188	101MC1215	101MC1229	101MC1248
4A	200 x 70	12 000/600			101MC1165	101MC1189	101MC1216	101MC1230	101MC1249
4B	150 x 50	5000/600	101MC1110	101MC1137	101MC1282	101MC1190			
4B	150 x 60	7000/600	101MC1111	101MC1138	101MC1283	101MC1191	101MC1217		101MC1250
4B	200 x 50	6500/600							
4B	200 x 60	9200/600		101MC1139		101MC1192			

BLANK FORKS

CAM attachments



Section mm	Fork length mm	Back height mm	Capacity/pair kg/mm	REF
80 x 40	1200	800	2000/500	101MC1251
80 x 45	1200	800	2600/500	101MC1252
80 x 50	1200	800	3200/500	101MC1253
100 x 40	1200	800	2500/500	101MC1254
120 x 40	1200	650	3000/500	101MC1255
125 x 45	1100	800	4100/500	101MC1256
125 x 45	1200	800	4100/500	101MC1257
125 x 50	1200	800	5000/500	101MC1258
125 x 50	1500	800	5000/500	101MC1259
150 x 50	1200	820	3800/500	101MC1260
150 x 60	1220	910	7000/600	101MC1261
150 x 60	1520	910	7000/600	101MC1262
150 x 60	1830	910	7000/600	101MC1263
150 x 60	2440	910	7000/600	101MC1264
180 x 60	1500	1000	9000/600	101MC1265
180 x 80	2400	1350	14 000/600	101MC1266
200 x 70	1830	1040	12 000/600	101MC1267
200 x 70	2440	1040	12 000/600	101MC1268
200 x 75	2400	1250	14 000/600	101MC1269
200 x 90	2400	1400	16 000/600	101MC1270
200 x 100	2400	1400	20 000/600	101MC1271
200 x 100	2400	1600	15 000/1200	101MC1272
250 x 100	2400	1600	18 000/1200	101MC1273
300 x 105	2400	1800	25 000/1200	101MC1274
300 x 110	2400	1800	28 000/1200	101MC1275
300 x 140	2400	1800	44 000/1200	101MC1276

PIN-TYPE FORKS



Used for	Section mm	Fork length mm	Inner Ø tube mm	Centre line height mm	Capacity/pair kg/mm	REF
JCB	80 x 40	1067	45	568	2500/500	101MC1286
JCB	80 x 40	1070	45	572	2500/500	101MC1287
JCB	80 x 40	1200	45	572	2500/500	101MC1288
JCB	80 x 50	1200	58	572	4000/500	101MC1289
JCB	100 x 40	1070	52	569	3000/500	101MC1290
JCB	100 x 40	1200	52	569	3000/500	101MC1291
JCB	100 x 45	1067	52	570	3700/500	101MC1292
JCB	100 x 50	1067	58	570	4100/500	101MC1293
JCB	100 x 50	1200	52	570	4100/500	101MC1294
JCB	100 x 50	1200	58	570	4100/500	101MC1295
JCB	120 x 50	1200	58	570	5600/500	101MC1296
JCB	125 x 40	1200	52	570	3700/500	101MC1297
Manitou	125 x 40	1200	61,5	720	3000/500	101MC1298
Manitou	125 x 45	1200	61	720	4100/500	101MC1299
Manitou	125 x 45	1200	51	545	4100/500	101MC1300
Manitou	125 x 50	1200	61	540	5000/500	101MC1301

POLYURETHANE-COATED FORKS



Application:
- To handle slippery loads like metal cages or plastic boxes
- To protect loads against damages and scratches due to contact with bare forks

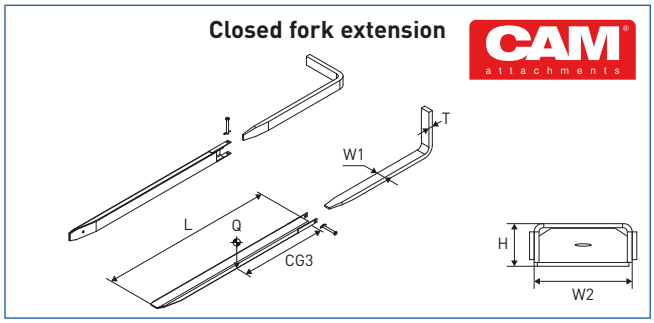
Benefits:
- Increased safety at work: no risk due to slipping loads
- Slip-resistant in dry and even in wet condition
- Noise reduction, especially when transporting metal parts in residential areas/at night
- Protection of transported goods against damages or scratches, e.g. transports without pallets (protection in the fork back and heel area)
- Abrasion- and cut-resistant for optimum use and long lifespan
- High flexibility, available and retrofittable for many different dimensions and applications
- Short delivery times

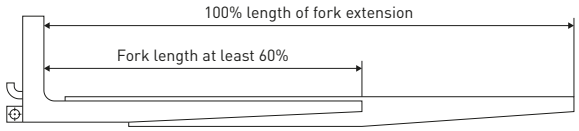
Features:
- Coating thickness approx 5 mm
- Shore hardness: 92 shore A
- Abrasion resistance: 140 mg according to ASTM D 1044
- Tensile strength: 21 N/mm²
- Operating temperature: –40 °C to 80 °C
- Coating of fork blade and/or fork back
- Permanently fixed to the fork
- Protection plate at the fork tip
- Less damages to the transported goods

Interested?
Please contact your sales advisor.

FORK EXTENSIONS – CLOSED VERSION







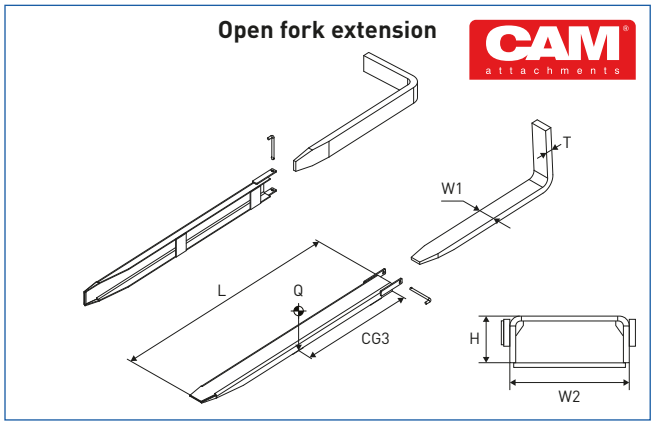
- The existing fork must support at least 60% of the extension length
- In conformity with ISO 13284
- Material thickness: 6 mm up to fork section 150 x 50 mm
- Material thickness: 8 mm starting from fork section 150 x 60 mm
- Supplied with locking pin
- Made in Europe
- Other sizes on request

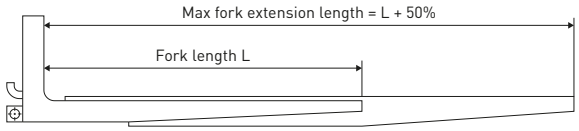
Fork section	REF – length of fork extension							
W1 x T mm	1200 mm	1220 mm	1370 mm	1400 mm	1500 mm	1525 mm	1600 mm	1800 mm
80 x 40	100MC9904			101MC3455	100MC9692		100MC9729	100MC9758
100 x 40	100MC9905			101MC3456	100MC9693		100MC9730	100MC9759
100 x 45	100MC9906			101MC3457	100MC9694		100MC9731	100MC9760
100 x 50	100MC9907	100MC9934	100MC9950	101MC3458	100MC9695	100MC9953	100MC9732	100MC9761
120 x 40	100MC9908			101MC3459	100MC9696		100MC9733	100MC9762
120 x 50	100MC9909			101MC3460	100MC9697		100MC9734	100MC9763
125 x 40	100MC9910			101MC3461	100MC9698		100MC9735	100MC9764
125 x 45	100MC9911			101MC3462	100MC9699		100MC9736	100MC9765
125 x 50	100MC9912			101MC3463	100MC9700		100MC9737	100MC9766
130 x 45	100MC9913			101MC3464	100MC9701		100MC9738	100MC9767
130 x 50	100MC9914	100MC9935	100MC9951	101MC3465	100MC9702	100MC9954	100MC9739	100MC9768
130 x 60	100MC9915			101MC3466	100MC9703		100MC9740	100MC9769
140 x 50	100MC9916			101MC3467	100MC9704		100MC9741	100MC9770
150 x 50	100MC9917			101MC3468	100MC9705		100MC9742	100MC9771
150 x 60	100MC9918	100MC9936	100MC9952	101MC3469	100MC9706	100MC9955	100MC9743	100MC9772
150 x 70	100MC9919			101MC3470	100MC9707		100MC9744	100MC9773

Fork section	REF – length of fork extension							
W1 x T mm	1829 mm	1982 mm	2000 mm	2134 mm	2200 mm	2400 mm	2440 mm	2500 mm
80 x 40			100MC9787		100MC9816	100MC9845		100MC9874
100 x 40			100MC9788		100MC9817	100MC9846		100MC9875
100 x 45			100MC9789		100MC9818	100MC9847		100MC9876
100 x 50	100MC9956	100MC9959	100MC9790	100MC9962	100MC9819	100MC9848	100MC9965	100MC9877
120 x 40			100MC9791		100MC9820	100MC9849		100MC9878
120 x 50			100MC9792		100MC9821	100MC9850		100MC9879
125 x 40			100MC9793		100MC9822	100MC9851		100MC9880
125 x 45			100MC9794		100MC9823	100MC9852		100MC9881
125 x 50			100MC9795		100MC9824	100MC9853		100MC9882
130 x 45			100MC9796		100MC9825	100MC9854		100MC9883
130 x 50	100MC9957	100MC9960	100MC9797	100MC9963	100MC9826	100MC9855	100MC9966	100MC9884
130 x 60			100MC9798		100MC9827	100MC9856		100MC9885
140 x 50			100MC9799		100MC9828	100MC9857		100MC9886
150 x 50			100MC9800		100MC9829	100MC9858		100MC9887
150 x 60	100MC9958	100MC9961	100MC9801	100MC9964	100MC9830	100MC9859	100MC9967	100MC9888
150 x 70			100MC9802		100MC9831	100MC9860		100MC9889

FORK EXTENSIONS – OPEN VERSION





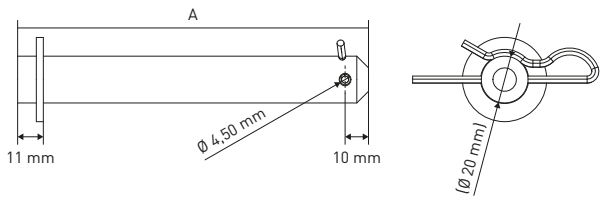


- Fork extension length should not exceed original fork length by more than 50%
- In conformity with ISO 13284
- Material thickness: 8 mm
- Supplied with locking and cotter pin
- Made in Europe
- Other sizes on request

Fork section	REF – length of fork extension								
W1 x T mm	1200 mm	1400 mm	1500 mm	1600 mm	1800 mm	2000 mm	2200 mm	2400 mm	2500 mm
80 x 40	100MC9920	100MC9937	100MC9708	100MC9745	100MC9774	100MC9803	100MC9832	100MC9861	100MC9890
100 x 40	100MC9921	100MC9938	100MC9709	100MC9746	100MC9775	100MC9804	100MC9833	100MC9862	100MC9891
100 x 45	100MC9922	100MC9939	100MC9710	100MC9747	100MC9776	100MC9805	100MC9834	100MC9863	100MC9892
100 x 50	100MC9923	100MC9940	100MC9711	100MC9748	100MC9777	100MC9806	100MC9835	100MC9864	100MC9893
120 x 40	100MC9924	100MC9941	100MC9712	100MC9749	100MC9778	100MC9807	100MC9836	100MC9865	100MC9894
120 x 50	100MC9925	100MC9942	100MC9713	100MC9750	100MC9779	100MC9808	100MC9837	100MC9866	100MC9895
125 x 40	100MC9926	100MC9943	100MC9714	100MC9751	100MC9780	100MC9809	100MC9838	100MC9867	100MC9896
125 x 45	100MC9927	100MC9944	100MC9715	100MC9752	100MC9781	100MC9810	100MC9839	100MC9868	100MC9897
125 x 50	100MC9928	100MC9945	100MC9716	100MC9753	100MC9782	100MC9811	100MC9840	100MC9869	100MC9898
130 x 45	100MC9929	100MC9946	100MC9717	100MC9754	100MC9783	100MC9812	100MC9841	100MC9870	100MC9899
130 x 50	100MC9930	100MC9947	100MC9718	100MC9755	100MC9784	100MC9813	100MC9842	100MC9871	100MC9900
140 x 50	100MC9931	100MC9948	100MC9719	100MC9756	100MC9785	100MC9814	100MC9843	100MC9872	100MC9901
150 x 50	100MC9932	100MC9949	100MC9720	100MC9757	100MC9786	100MC9815	100MC9844	100MC9873	100MC9902

PINS FOR FORK EXTENSIONS INCLUDING CLEVIS PIN





Lock pin of extensions versus different fork sections	Fork extension size to fit on fork section size							
A	150 mm	180 mm	200 mm	206 mm	230 mm	257 mm	265 mm	290 mm
Fork cross section	80 x 40 mm	100 x 40, 45, 50 mm	120 x 50 mm 125 x 40, 45, 50 mm	130 x 40, 50, 60 mm	140 x 50 mm 150 x 50, 60, 70 mm	170 x 50 mm	180 x 50, 60, 90 mm	200 x 60, 70, 80, 100 mm
REF lock + cotter pin	100MC9933	100MC9723	100MC9721	100MC9724	100MC9725	100MC9726	100MC9727	100MC9728
REF cotter pin	100MC9722	100MC9722	100MC9722	100MC9722	100MC9722	100MC9722	100MC9722	100MC9722

FORK HEEL PROTECTORS



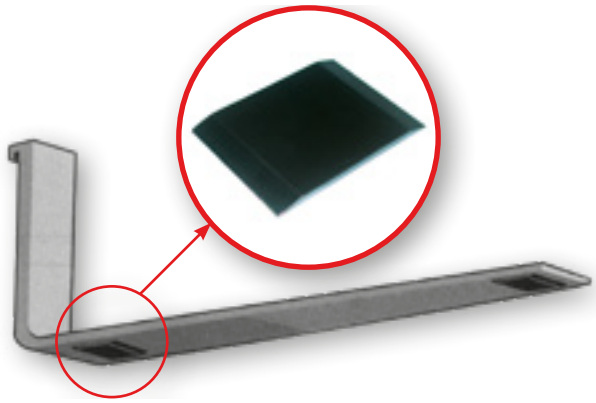
- Used to prevent wear to the blade and the heel
- Fits neatly into the heel and prevents the forks from dragging on the ground
- Simply and quickly fitted to the heel of the fork
- When worn, the protector can be turned over

For fork width mm	REF pair
100–105	100MC7321
120–125	100MC7322
150	100MC7323
200	100MC7324

Have a look at **tvh.tv** to see this product in action.

FORK WEAR PADS

CE



- 5 mm wear thickness (+ 1 mm adhesive) and 100 mm length
- Stick firmly onto the bottom of the heel

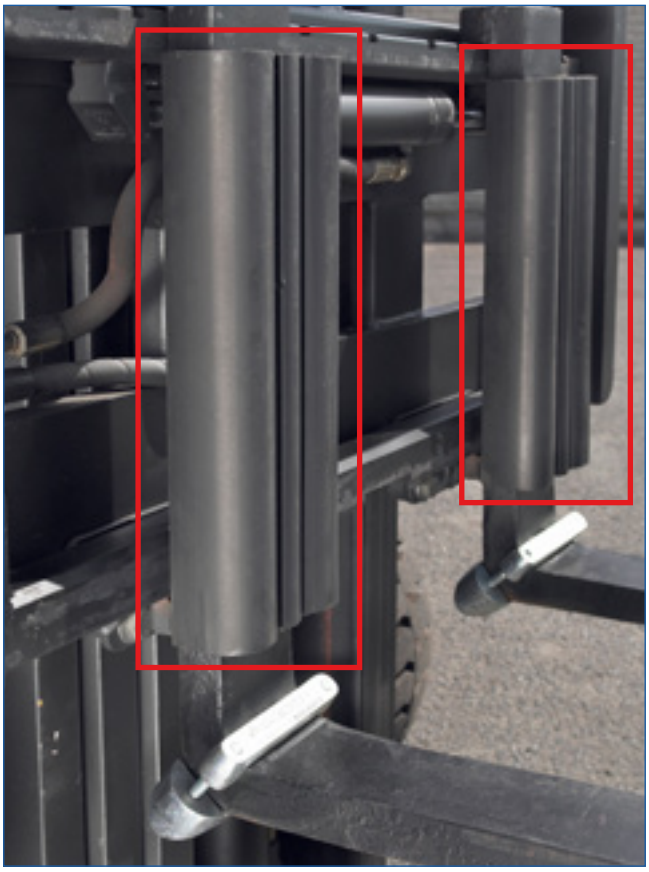
Application:

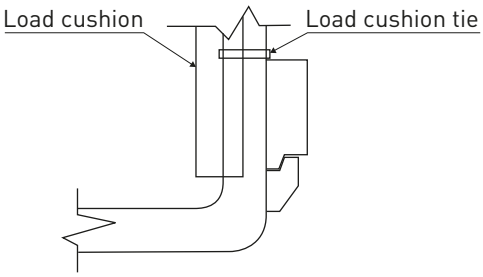
- Thoroughly degrease and roughen up area where plate has to be fixed
- Remove film from tape on the plate
- Stick the plate onto the prepared area in one go (do not remove anymore)
- Apply pressure by using the forks' own weight and do not use for 24 hours

For fork width mm	Wear pad mm	REF piece
100	75	100MC7317
125	100	100MC7318
150	125	100MC7319
200	175	100MC7320

No need for welding

LOAD CUSHIONS





- Protective barrier between the load and the forks
- Made from heavy-duty moulded rubber
- Fits to the rear face of a forklift truck's forks
- Absorbs the impact of an incoming load
- Quickly fitted using a simple yet robust strapping system

For fork width mm	REF pair
100–110	100MC7326
120–130	100MC7327
150–160	100MC7328
200	100MC7329

Have a look at **tvh.tv** to see this product in action.

SHOCK ABSORBER





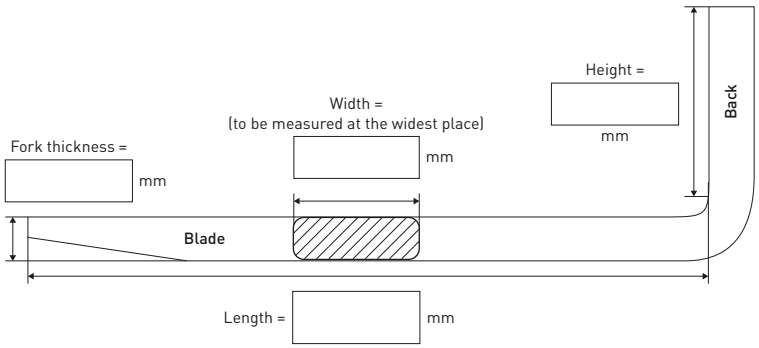
wuBump

- 4 magnets (39 kg pull force)
- Material: copolymer 70° shore A
- Overall strength: > 13 MPa
- Elasticity: 300%
- Temperature range: –40 °C to 100 °C
- Weight: 1 kg
- Soft fibre top coat (to protect your load)
- Fits on the forks of various machines: lift trucks, reach trucks, stackers ...

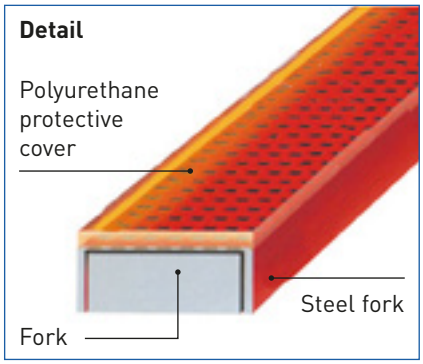
REF 100MC7330 – Dimensions: 400 x 50 x 50 mm
REF 100MC9536 – Dimensions: 450 x 100 x 50 mm
REF 100MC9537 – Dimensions: 550 x 120 x 50 mm

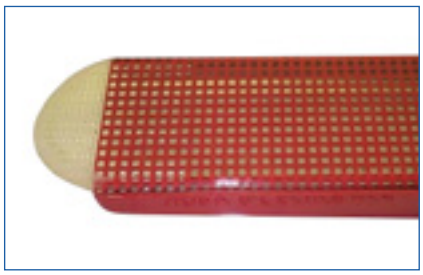
PROTECTIVE FORK COVERS





Detail





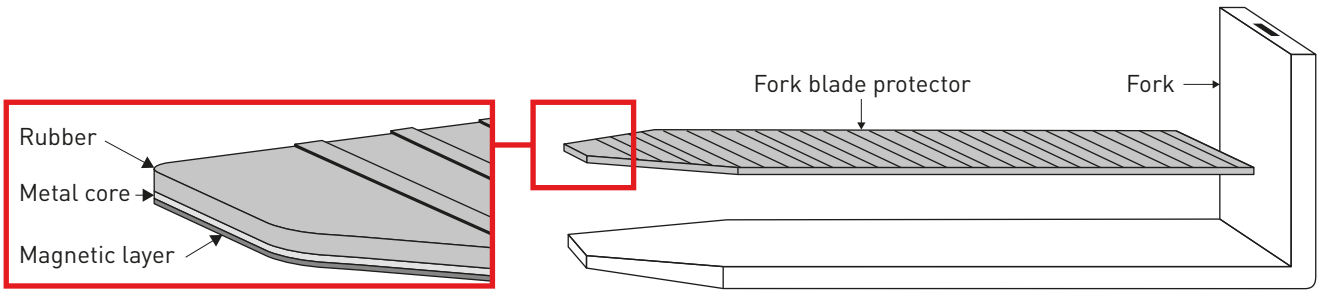
- Protect the load
- Prevent slipping
- Noise-reducing
- Absorb impact
- Very wear-resistant

☐ Fork blade protection
☐ Fork back protection
☐ Fork blade & back protection

Different sizes possible

Contact your sales advisor to order the correct size for your fork.

ANTI-SCRATCH AND ANTI-SKID DEVICES



Application:
The anti-scratch, anti-slip magnetic fork blade covers can be used for handling a wide range of loads.
They can either be used where products could be damaged from contact with bare forks or when confronted with a slippery load like cages or metal boxes.
Should not be used to handle wooden pallets!

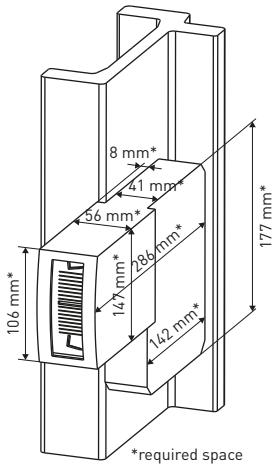
Features:
- Only a few seconds are required for fitting or removal
- Attaches instantly when positioned on metal lifting forks, due to magnetisation
- Installation requires no mechanical or electrical work
- Sticks securely to forks
- Consists of a 70 shore black rubber upper layer, a metal inner core and a bottom magnetic layer
- The capacity of the forklift truck does not get limited in any way
- Delivered with user manual
- Can easily be stored on the side of the lift truck when not in use

Use with fork size		Thickness	Remark	REF
Width mm	Length mm	 mm		Per pair
Covers blade and back				
80	1000–1300	9	With edge guard	100MC7331
80	1000–1190	9		100MC7332
80	1200–1390	9		100MC7333
100	1000–1190	9		100MC7334
100	1200–1390	9		100MC7335
120–130	1000–1190	9		100MC7336
120–130	1200–1390	9		100MC7337
150–200	1000–1190	11		100MC7338
150–200	1200–1390	11		100MC7339
Covers blade only				
100	1400–1600	9		100MC7340
120–130	1400–1600	9		100MC7341
120–130	1700–2050	11		100MC7342
150–200	1400–1600	11		100MC7343
150–200	1700–2050	11		100MC7344
120–130	2200–2550	11	Provided in two pieces for extra long blades	100MC7345
150–200	2200–2550	11	Provided in two pieces for extra long blades	100MC7346

Have a look at **tvh.tv** to see this product in action.

ACCU-TILT FORK LEVEL INDICATOR





An incorrect tilt angle of the forks is the leading cause of both racking and product damage. Even the most experienced operator has difficulty judging the tilt of the forks when he is entering pallets high on the rack. The Accu-Tilt shows the operator the level of the forks at all times thereby reducing potential damage caused by piercing products or racking and increasing productivity by eliminating the guesswork.
Additionally, the Accu-Tilt will also indicate to the operator the correct angle to travel with a load as well to park the lift truck.

Features:
- Reduces product damage
- Reduces rack damage
- Reduces pallet damage
- Increases productivity
- Installs in less than one minute

REF 100MC9903

FLAT FORK LEVEL INDICATOR





Digital fork level indicator

Features:
- Consistently shows whether or not a load is truly horizontal
- Red/yellow/green lights for fast recognition
- Makes work faster and easier
- Reduces load, pallet and rack damage
- Improves safety by reducing operator mistakes

Specifications:
- Dimensions (L x W x H): 73 x 57,1 x 158,7 mm
- Weight (with batteries): 0,734 kg
- Power source: 2 standard "D" alkaline batteries
- Housing: rugged ABS box, stainless steel fasteners, nickel-coated rare-earth magnets, lean labels

REF 101MC3763

FORK CAMERA SET



Included:

- 7" monitor
- 10–15 hours battery pack
- Wi-Fi system
- Battery charger
- Fork camera

Wireless fork camera with 7" monitor

With a 7" budget monitor and the wireless fork camera, this kit is an ideal basis if you want to use the wireless fork camera.

Features:

- 7" budget monitor
- With top quality Sony CCD sensor
- Focus point set on the tip of your fork

REF 100MC7350

Recommended optional items:



Glue
80 ml

REF 100MC7351



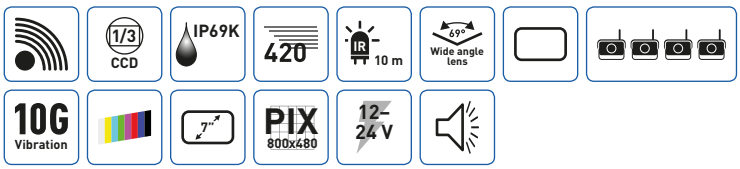
Battery pack

REF 100MC7353



Cleaner 7063
150 ml

REF 101MC3802



MAGPROTECT





MagProtect

re-usable safety corner

The MagProtect is a re-usable safety corner with a powerful custom-made magnet.

The use of the MagProtect will drastically decrease the risk of industrial accidents.

High-quality magnets ensure the corner protector will always stay in place. This way hazardous situations belong to the past.
The MagProtect can easily be attached to and removed from any metal construction.

- # of magnets: 1
- Non-magnet sides: flat
- Weight: 254 g
- Dimensions: 150 x 150 mm
- Working temperature: from –20 °C (–4 °F) up to 80 °C (176 °F)
- Magnet type: neodymium pot magnet
- Material: CP284R heterophasic copolymer
- Standard color: traffic orange
- Special options: other colours and glow-in-the-dark, imprint of your company name or logo

REF 100MC9541 – Pull force: 25 kg
– Colour: orange

REF 100MC3451 – Pull force: 65 kg
– Colour: red-white reflecting

The advantages:

- Safety in the workplace
- Clear marking
- Cost-effective
- Durable materials
- Easy to (dis) assemble
- Applicable to steel (via magnet) and wood* (via nails or screws)
- Stackable (therefore spacesaving)

* On request

WHITE LITHIUM GREASE



- Sprays like an oil and sets like a grease
- Provides long-lasting lubrication
- Excellent water resistance
- Content: 400 ml

REF 100MC5072

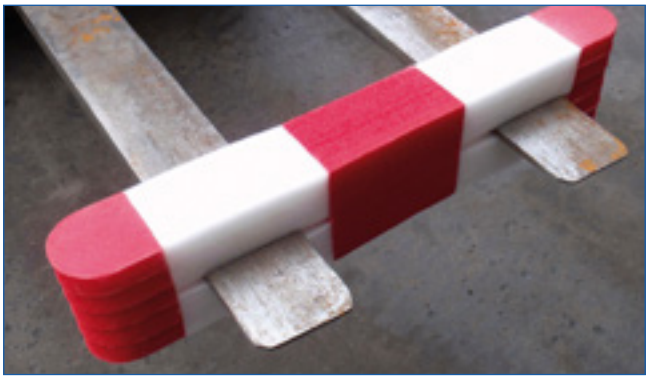
FOOD GREASE



- Multipurpose grease with long-term lubrication on food processing equipment, where incidental food contact may occur
- Can be applied to all metal constructions used in the food industry: hinges, valves, chains, gears, joints ...
- Registered NSF H1 for use in the food industry
- Exceptional mechanical stabillity
- Complies with BRC Global standard – 4.7.6
- Resists steam
- Prevents corrosion
- Content: 500 ml

REF 100MC9540

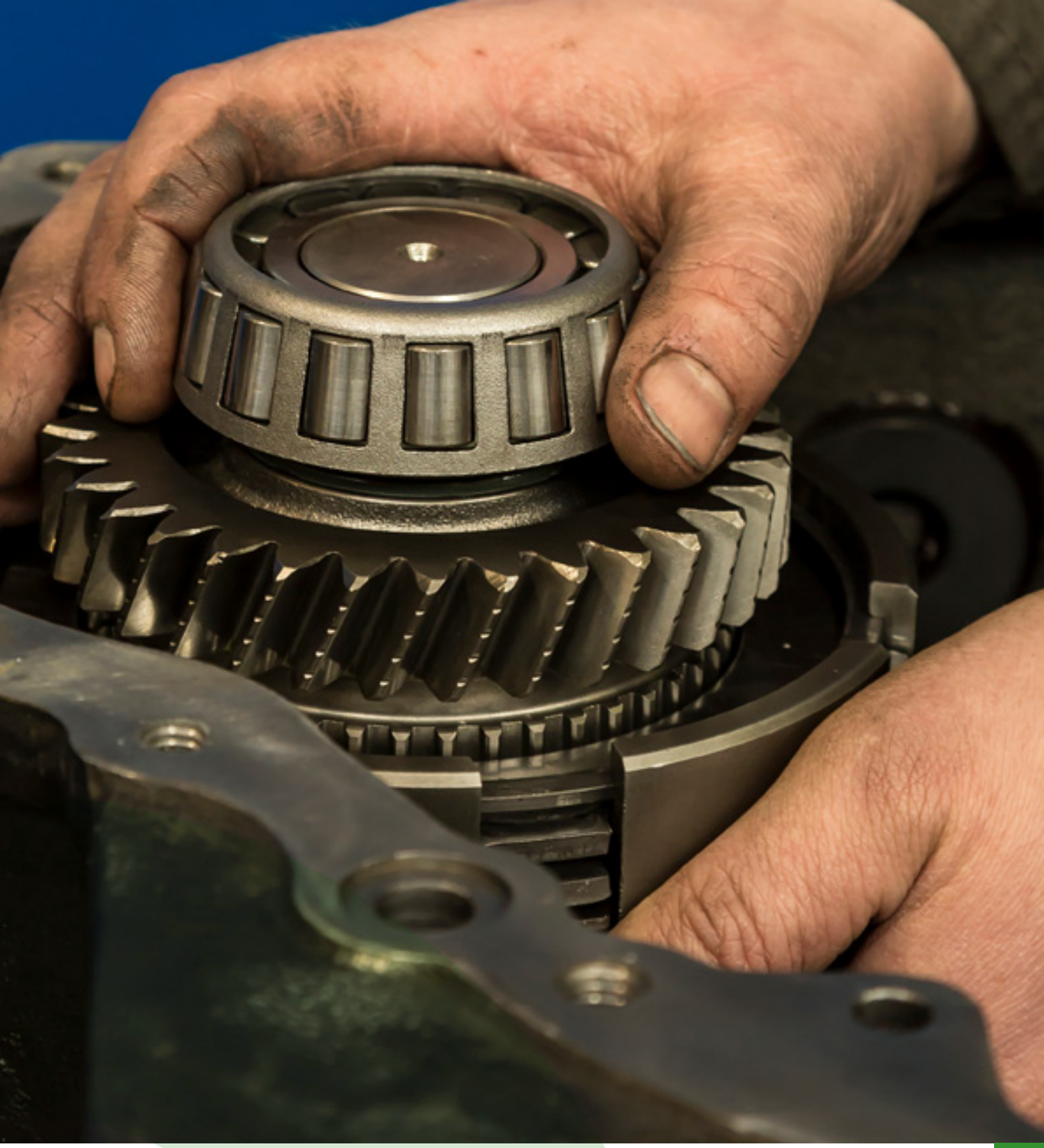
TRAFFIC SIGN FOR FORKS



- Dimensions (L x W x H): 800 x 100 x 150 mm
- Improves traffic safety on-site and on the road
- Weather-resistant
- Red/white
- Made of foam

REF 101MC3766

NOTES



TRANSMISSION & DRIVE TRAIN

TRANSMISSIONS AND PARTS

TVH, your all-round partner for transmissions






Looking for a new recondition or transmission? Maybe a repair of your old unit?

Send us the brand, type and serial number mentioned on your old unit and TVH will offer you the solution that meets your requirements.

Save money by choosing reconditioned

A reconditioned part is a reliable and less expensive alternative to a new part. TVH has a large number of reconditioned transmissions in stock.

All transmissions are cleaned, inspected and fitted with new wear items and come with a 1-year warranty. Before shipment, the units are tested at our own test facilities.

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Recycled
Reliable

Would you have an old transmission/unit for sale? We are interested in buying it. Fill out the form 'Core purchase' on www.tvh.com/corepurchase, send it to cores@tvh.com and we make you an offer.

Do you prefer a repair of your old unit?

Send us your old unit for repair by our specialised engineers. These repaired transmissions have the same 1-year warranty as our reconditioned parts.

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We repair transmissions for the following brands:
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TOTAL SOURCE



Easy access to a complete range of transmission parts

TVH offers a **wide range of new and reconditioned parts for transmissions** such as housings, drums, gears ...

Available reconditioned parts are automatically shown on your offer, when you inquire about a new part. You can choose the best alternative.

We can offer you transmission parts suitable for following makes:
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TRANSMISSIONS AND PARTS

How to identify your transmission parts?

Go to our webshop MyTotalSource to find all your parts. You have the reference number on your part? Request your offer directly via the module **'Part inquiries'**.

myPF MyPartsFinder

You have the brand, type and serial number of your transmission? Search the fast-moving items via **MyPartsFinder**.

myPS MyProductSearch

No part number, no brand, no type of transmission?
Via **MyProductSearch** you can identify your parts by means of specifications or technical info.

myTS MyTotalSource

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TRANSMISSION COMPONENTS

Parts used for Dana-Spicer transmissions



Parts used for ZF transmissions



Parts used for Allison transmissions



TRANSMISSIONS AND DRIVE AXLE COMPONENT PARTS

Manual transmissions and parts



Component parts: plates, discs, thrust bearings, seal kits, gears, forks, shafts ...

Automatic transmissions and parts



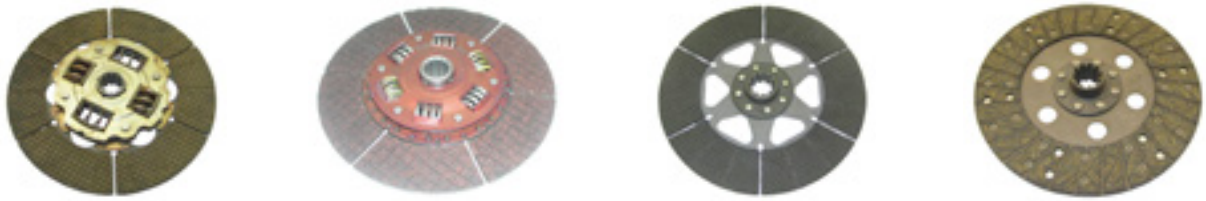
Component parts: converter, transmission pumps, discs, gears and bearings, shafts, springs, seal kits ...

MANUAL TRANSMISSIONS AND PARTS

Clutch covers



Clutch discs



Synchro rings



Transmission bearing kits



Transmission seal kits



Flanges



We can offer you parts suitable for the following brands: ZF, Allison, Aisin, Graziano, Borg Warner, Toyota, TCM, Komatsu, Clark, Okamura ...

This is merely a selection. For all other clutch covers, clutch discs, synchro rings, transmission bearing kits, transmission seal kits & flanges, please contact our sales department!

AUTOMATIC TRANSMISSIONS AND PARTS

Clutch drums



Automatic transmission discs

Steel plate



Radial



Waffle



2-pass



Sunburst



Concentric pass spiral



Linear



Sunburst-Pass



Spiral-Concentric



3-pass



Bevel



We can offer you parts suitable for the following brands: ZF, Allison, Aisin, Graziano, Borg Warner, Toyota, TCM, Komatsu, Clark, Okamura ...

This is merely a selection. For all other clutch drums & automatic transmission discs, please contact our sales department!

AUTOMATIC TRANSMISSIONS AND PARTS

Transmission seals and piston rings



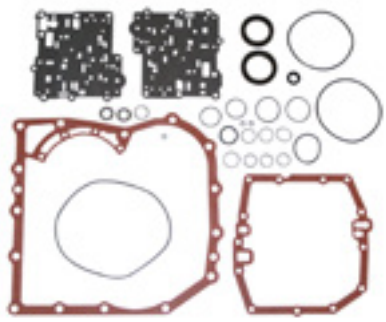
Transmission valves



Transmission pumps



Overhaul kits



Transmission plate kits



We can offer you parts suitable for the following brands: ZF, Allison, Aisin, Graziano, Borg Warner, Toyota, TCM, Komatsu, Clark, Okamura ...

This is merely a selection. For all other transmission seals, transmission valves, transmission pumps, overhaul kits & transmission plate kits, please contact our sales department!

AUTOMATIC TRANSMISSIONS AND PARTS

Converters and converter parts



Service exchange converters

Remanufactured torque converters for material handling applications

We can offer nearly all torque converters for material handling applications. High-quality remanufactured (to meet high-quality standards)! We have a large stock of popular models ready to ship.

Hyster, Borg Warner, Caterpillar, Mitsubishi, Nissan, Yale, Clark, Toyota, TCM, Doosan, Komatsu, Kalmar, ZF, Sachs, Graziano, Baker, Funk, Lancer Boss, Lansing, Allis Chalmers, Coventry Climax, and more

You may also send us your converter, we will repair it for you in no time.
If you don't have the exact part number, we can easily identify your converter for you!

For more information, please contact us!

SERVICE EXCHANGE DIFFERENTIALS AND REMANUFACTURED PROGRAM

Your differential should not let you down!

A specialised team is at your service for a quick and efficient repair!

Reconditioned unit: the remanufactured unit is thoroughly cleaned, inspected and renewed to 'like new' condition. Reassembling is done using new wear parts. The unit is fully inspected and tested. A large selection of remanufactured units are in stock.

Our programme consists of the following brands:
Rockwell, Kessler, Kirckstall, Volvo, Clark, Hurth, Toyota, Mitsubishi, Nissan Dana-Spicer, Carraro, Sisa, Axle Tech ...

We remanufacture differential standards
Our company had been supplying quality remanufactured differentials for over 35 years. All wear items are replaced with components that meet or exceed OEM specifications, such as:
- seals
- gaskets
- bearings
- washers
- gear and pinion

The assemblies, if possible, are tested at operating temperatures and with several speed intervals for:
- right clearances
- proper gear and pinion adjustments
- correct pressures
- leak test
- noise levels

Strict quality standards, including a tracking system, are used to follow all remanufacturing steps.

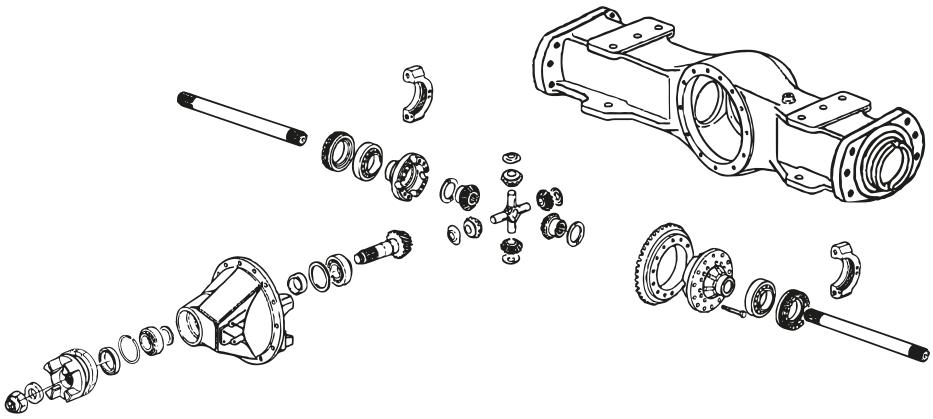
Differential warranty policy
We warrant each remanufactured differential to be free from defects in material or in workmanship during 6 months or 1000 working hours after delivery (whichever occurs first).
The warranty is subject to the following conditions:
- the unit must have been installed by a certified technician;
- the unit must not have undergone any (intents for) repair, modification or disassembly;
- damage as a result of abnormal use, overloading, misuse, abuse, improper installation or accident is not covered by the warranty;
- defects as a consequence of wrong or insufficient lubrication.

Warranty claims must be reported in accordance with our Complaint Handling Procedure (standard form is available via MyTotalSource, website, or on demand). Only after your warranty claim has been accepted, will we start working on your unit.
We may either repair the unit, or replace defective components.

Core
A warranty claim on a unit will only be accepted if it shows normal use, and the main housing can be re-used. If oil drained from the unit contains steel and/or aluminium particles, then the unit was subject to abnormal use and the warranty will be limited. In this case, we will charge an extra cost.

DIFFERENTIAL SPARES





Differential spares available for: Rockwell, Kessler, Volvo, Kirckstall, Clark, Hurth, Axletech, ZF, Spicer

END ASSEMBLIES



Component parts: ring gear and pinion, case and gear, washers, drive axle, shafts, bearings, seals, cases, U-joints ...

GEARS AND PINIONS



This is merely a selection. For all gears and pinions, please contact our sales department!

AXLE SHAFTS



GEAR CONSTRUCTIONS



CHAIN GEARS



This is merely a selection. For all axle shafts, gear constructions and chain gears, please contact our sales department!

SERVICE EXCHANGE REDUCTORS AND REMANUFACTURED PROGRAM

Your reductor should not let you down!

A specialised team is at your service for a quick and efficient repair!

Reconditioned unit: a large selection of remanufactured units are in stock. The remanufactured unit is thoroughly cleaned, inspected and renewed to 'like new' condition. Reassembling is done using new wear items. The unit is fully inspected and tested.

Our programme consists of the following brands:
Brevini, ZF-Hurth, Speth, Jungheinrich, Lansing, Still-Saxby, Fenwick, Brinkman, Prat, Loc, Cesab, Linde, Doosan, Crown, Kordel, Schabmuller, Metalrota, C.I.M.A., ZF, Reggiana riduttori, Bonfiglioli

We remanufactured reductor standards
Our company had been supplying quality remanufactured reductors for over 35 years. All wear items are replaced with components that meet or exceed OEM specifications, such as:
- seals
- gaskets
- bearings
- washers
- wear items

The assemblies, if possible, are tested at operating temperatures and with several speed intervals for:
- right clearances
- gear and pinion
- noise levels

Strict quality standards, including a tracking system which verifies all remanufacturing steps

Reductor warranty policy
We warrant each remanufactured reductor to be free from defects in material or in workmanship during 1 year or 1000 working hours after delivery (whichever occurs first).
The warranty is subject to the following conditions:
- the unit must have been installed by a certified technician;
- the unit must not have undergone any (intents for) repair, modification or disassembly;
- damage as a result of abnormal use, overloading, misuse, abuse, improper installation or accident is not covered by the warranty;
- defects as a consequence of wrong or insufficient lubrication.

Warranty claims must be reported in accordance with our Complaint Handling Procedure (standard form is available via MyTotalSource, website, or on demand). Only after your warranty claim has been accepted, will we start working on your unit.
We may either repair the unit, or replace defective components.

Core
A warranty claim on a unit will only be accepted if it shows normal use, and the main housing can be re-used. If oil drained from the unit contains steel and/or aluminium particles, then the unit was subject to abnormal use and the warranty will be limited. In this case, we will charge an extra cost.

REDUCTORS FOR FORKLIFTS









New & rebuilt

We can offer you the following brands: Brevini, ZF-Hurth, Speth, Jungheinrich, Lansing, Still-Saxby, Fenwick, Prat, Loc, Cesab, Linde, Newage, Doosan, Crown, Kordel, Schabmuller, Metalrota, Brinkman, C.I.M.A., Bonfiglioli, Carraro, Omci, Tekno

UNIVERSAL JOINTS (CROSS) – TECHNICAL SHEET

Group	Example	Customer details
07-02-02-00		

Type of machine: .....

Serial n° machine: .....

☐ Price inquiry

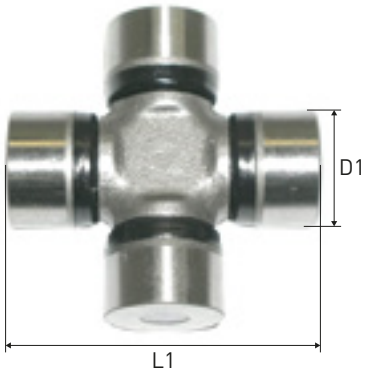
☐ Order

TY	Type of universal joint (see types)
L1	Length (see figure)
L2	Length between edge of turned sections (see figure)
C	Centre distance
D1	Diameter (see figure)
B	Width of the key
D2	Diameter (see figure)
TA	Thread type
Pm	Metric pitch (mm)
Pi	Imperial pitch (inch)
RH/LH	RH or LH thread
SMP	Grease nipple: *G = none* *V = optional* *A = present*

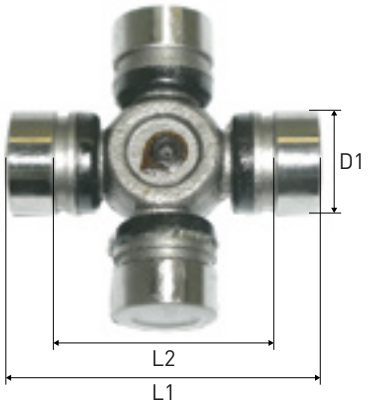
UNIVERSAL JOINTS (CROSS) – TECHNICAL SHEET

TYPES

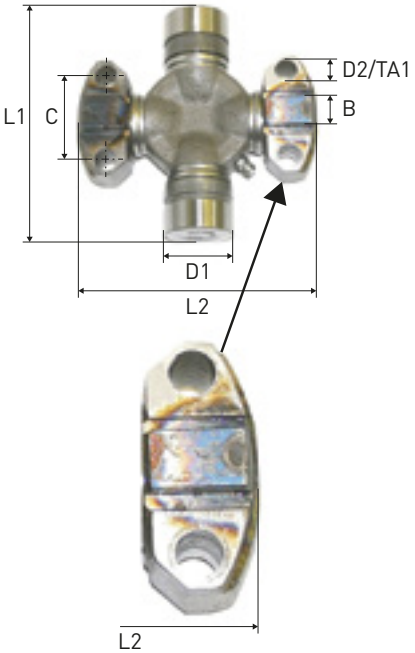
Type A
No keyway – no circlips groove



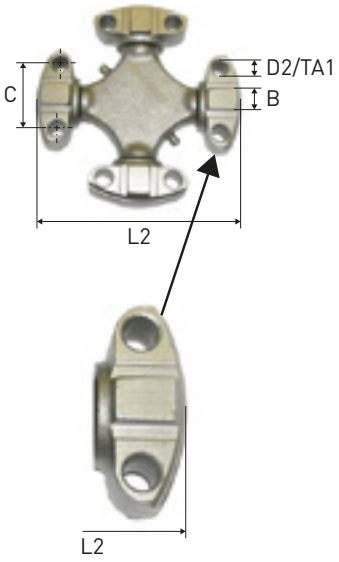
Type B
No keyway – with circlips groove



Type C
With 2 keyways



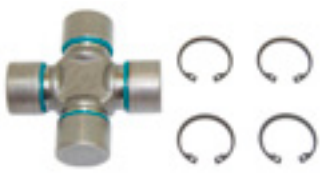
Type D
With 4 keyways



UNIVERSAL JOINTS – NO KEY SPLINE WITH CIRCLIPS GROOVE

	Length	Length between edge of turned section	Diameter	Grease nipple	REF
	L1 mm	L2 mm	D1 mm		
	59,2	39,3	20	None	100MC9571
	59,4	42	22	Present	100MC9543
	60	41	22	Present	100MC9542
	60	41,2	22	None	100MC9554
	65	45	25	Present	100MC9573
	68,7	45,2	25	Present	100MC9569
	115,5	87,5	33,3	Present	100MC9567

UNIVERSAL JOINTS – NO KEY SPLINE NO CIRCLIPS GROOVE

	Length	Length between edge of turned section	Diameter	Grease nipple	REF
	L1 mm	L2 mm	D1 mm		
	55		20	None	100MC9544
	62		23,8	None	100MC9574
	73		27	None	100MC9565
	76		27	None	100MC9562
	82,3		27	Present	100MC9545
	83		30	Present	100MC9560
	85		30,2	None	100MC9581

UNIVERSAL JOINTS – NO KEY SPLINE NO CIRCLIPS GROOVE

	Length	Length between edge of turned section	Diameter	Grease nipple	REF
	L1 mm	L2 mm	D1 mm		
	95		35	None	100MC9561
	104,4		38	Present	100MC9575
	106,5		35	Present	100MC9556
	106,8		30	Present	100MC9551
	107		30	None	100MC9548
	126,5		35	Present	100MC9572
	127,7	83,5	44	Present	100MC9576

UNIVERSAL JOINTS WITH 2 KEY SPLINES

	Length	Length between edge of turned section	Centre distance	Diameter	Width of the key	Diameter	Grease nipple	REF
	L1 mm	L2 mm	C mm	D1 mm	B mm	D2 mm		
	93,3	91,5	37	28,5	9,5	8,7	Present	100MC9547
	107	108	36,5	28,5	9,5	9	Present	100MC9546
	107	115,3	42,5	28,5	14,3	11	Present	100MC9558
	115,3	121	43	32	14,2	10,8	Present	100MC9566
	116,6	115,7		34	14,2	11	Present	100MC9579
	126,2	135,3	42,5	34,9	14	10,5	Present	100MC9553

UNIVERSAL JOINTS WITH 4 KEY SPLINES

	Length between edge of turned section	Centre distance	Width of the key	Diameter	Thread type	Pitch	RH or LH thread	Grease nipple	REF
	L2 mm	C mm	B mm	D2 mm	TA	Pi	RH/LH		
	79,3	33	9,5	8,5	5/16" UNF	24	RH	Present	100MC9555
	79,3	33,5	9,5	8,4				Present	100MC9550
	108	36	9,5	9				Present	100MC9549
	108	36,5	9,5		5/16" UNF	24	RH	Present	100MC9568
	108	36,5	9,5	8,5	5/16" UNF	24	RH	Present	100MC9578
	108	36,5	9,6	8,7				None	100MC9580
	115,2	43	14,3	10	3/8" UNF	24	RH	Present	100MC9564

UNIVERSAL JOINTS WITH 4 KEY SPLINES

	Length between edge of turned section	Centre distance	Width of the key	Diameter	Thread type	Pitch	RH or LH thread	Grease nipple	REF
	L2 mm	C mm	B mm	D2 mm	TA	Pi	RH/LH		
	115,3	43	14,2	10,4				Present	100MC9559
	115,3	43	14,2	10,5				Present	100MC9563
	140,3	43	14,2	10,7	3/8" UNF	24	RH	Present	100MC9557
	140,4	43	14,2	10,4				Present	100MC9552
	140,7	43	14,2		3/8" UNF	24	RH	None	100MC9570
	148,5	49	16	13,6				Present	100MC9577

DRIVE SHAFTS COMPLETE – TECHNICAL SHEET

Group	Example	Customer details
07-02-01-00		

Type of machine: .....

Serial n° machine: .....

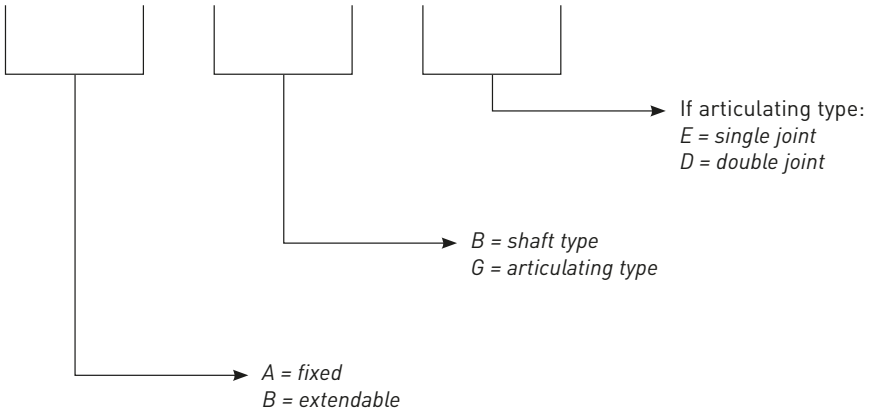
☐ Price inquiry

☐ Order

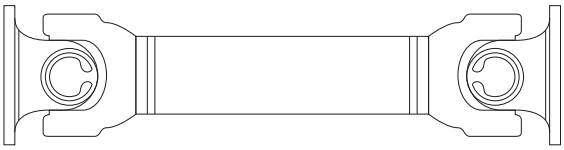
TY-KA	Type of drive shaft, see explanation
L1	Total length, retracted length in case of an extendable drive shaft
L2	Length from flange to flange, if different from L1
D1	Biggest diameter shaft, if present
TY-AS1	Type of connection 1, see explanation
D2	Diameter, see figure according to type
D3	Diameter centre ring
L3	Length, see figure according to type
L4	Length, see figure according to type
AT-GA1	Number of flange mounting holes
D4	Diameter flange mounting holes
C1	Centre distance, see figures according to types
C2	Centre distance, see figures according to types
AC1	Number of splines
D5	Diameter, see figures
TY-AS2	Type of connection 2
D6	Diameter, see figure according to type
D7	Diameter centre ring
L5	Length, see figure according to type
L6	Length, see figure according to type
AT-GA2	Number of flange mounting holes
D8	Diameter flange mounting holes
C3	Centre distance, see figures according to types
C4	Centre distance, see figures according to types
AC2	Number of splines
D9	Diameter, see figures

DRIVE SHAFTS COMPLETE – TECHNICAL SHEET

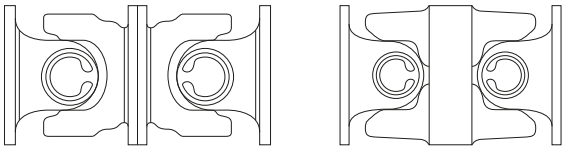
TYPES



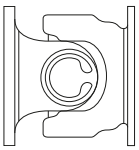
Type AB



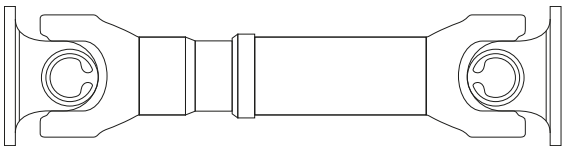
Type AGD



Type AGE



Type BB

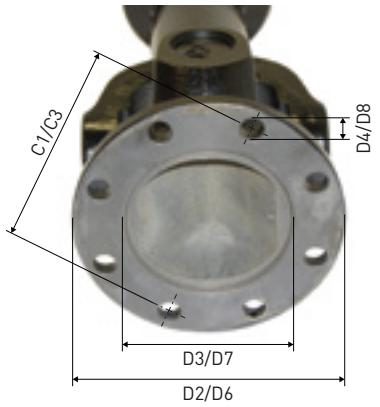


DRIVE SHAFTS COMPLETE – TECHNICAL SHEET

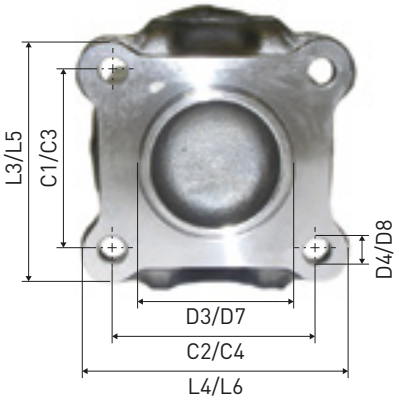
TYPE OF CONNECTION

How to determine type of connection 1 & 2 according to below order:

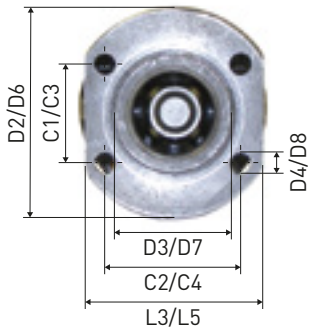
Type A
Flange



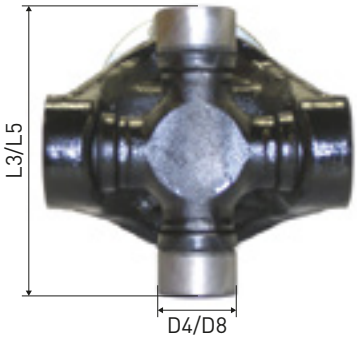
Type A
Flange



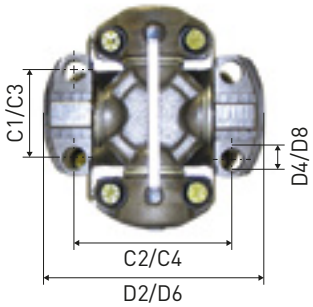
Type A
Flange



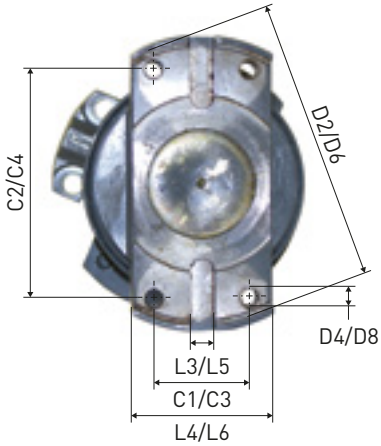
Type B
Universal joint



Type B
Universal joint



Type C
Universal joint holder

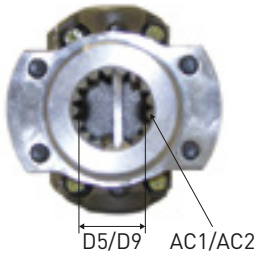


DRIVE SHAFTS COMPLETE – TECHNICAL SHEET

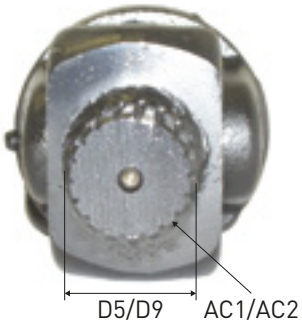
TYPE OF CONNECTION

How to determine type of connection 1 & 2 according to below order:

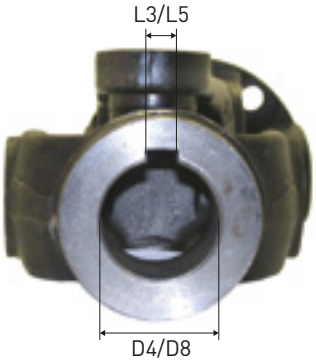
Type D
Internal splines



Type E
External splines



Type F
External splines



Type G
Stub



Type S
Special

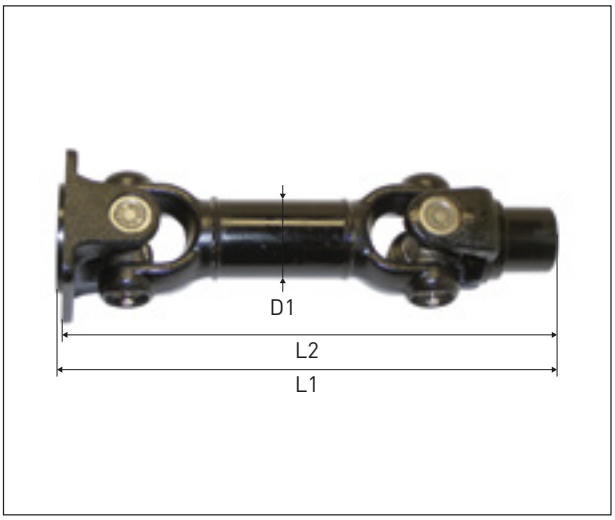
In case of 2 identical ends:

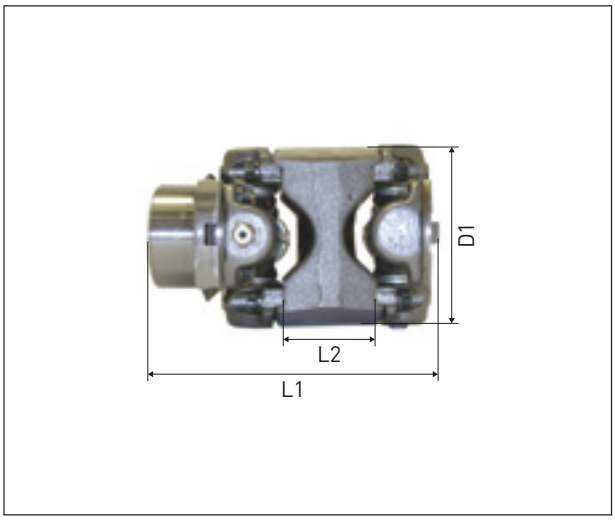
· Flange: type of connection 1:
  - Flange with smallest diameter mounting holes
  - Flange with mounting holes if a flange with thread is fitted on the other side

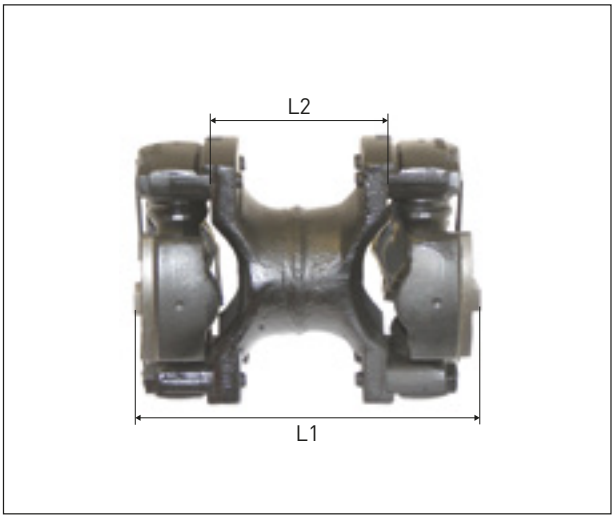
· Splines: type of connection 1:
  - Smallest diameter
  - Smallest number of splines

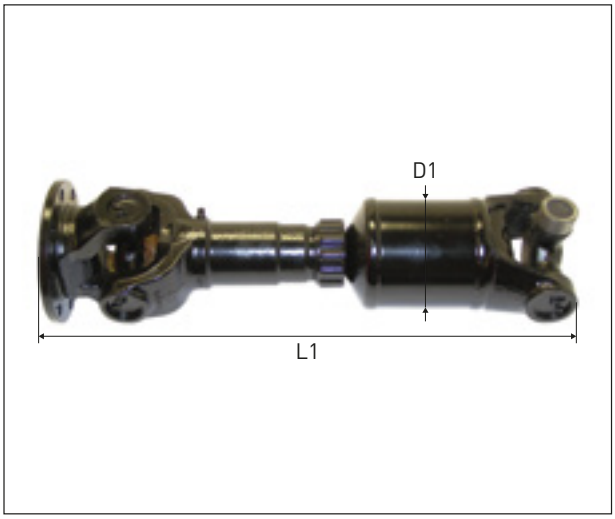
DRIVE SHAFTS COMPLETE – TECHNICAL SHEET

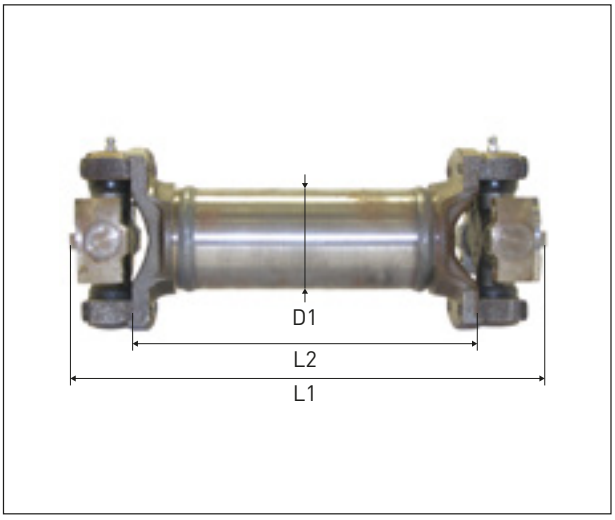
DIMENSIONS











DRIVE SHAFTS

	Total length	Type of connection	Diameter	Number of flange mounting holes	Tye of connection	Diameter	Number of flange mounting holes	REF
	L1 mm	TY-AS1 B	D2 mm	AT-GA1	TY-AS2	D6 mm	AT-GA2	
	79	Universal joint	79,5	4	Universal joint	79,5	4	100MC9603
	103	Universal joint	108	4	Universal joint	108	4	100MC9605
	106	Universal joint	108,5		Universal joint	108,5		100MC9613
	106	Universal joint	115	4	Universal joint	115	4	100MC9616
	114	Universal joint	115	4	Universal joint	115	4	100MC9596
	114	Universal joint	115,5	4	Universal joint	115,5	4	100MC9597
	115	Universal joint	108,8	4	Universal joint	108	4	100MC9589
	132	Universal joint	79,5	4	Universal joint	79,5	4	100MC9608
	175	Flange		4	Internal splines			100MC9582
	160	Flange		4	Internal splines			100MC9593

DRIVE SHAFTS

	Total length	Type of connection	Diameter	Number of flange mounting holes	Tye of connection	Diameter	Number of flange mounting holes	REF
	L1 mm	TY-AS1 B	D2 mm	AT-GA1	TY-AS2	D6 mm	AT-GA2	
	185	Flange		4	Internal splines			100MC9587
	199	Flange		4	Internal splines			100MC9599
	203	Flange		4	Internal splines			100MC9610
	205	Flange		4	Internal splines			100MC9609
	212	Flange		4	Internal splines			100MC9602
	215	Flange		4	Internal splines			100MC9584
	221	Flange		4	Internal splines			100MC9604
	230	Flange		4	Internal splines			100MC9612
	271	Flange		4	Internal splines			100MC9595
	278	Flange		4	Internal splines			100MC9614

DRIVE SHAFTS

	Total length	Type of connection	Diameter	Number of flange mounting holes	Tye of connection	Diameter	Number of flange mounting holes	REF
	L1 mm	TY-AS1 B	D2 mm	AT-GA1	TY-AS2	D6 mm	AT-GA2	
	286	Flange		4	Internal splines			100MC9600
	307	Flange		4	External splines			100MC9591
	260	Flange		4	Internal splines			100MC9601
	165	Flange	85	4	Flange	85	4	100MC9585
	184	Flange	85	4	Flange	85	4	100MC9583
	185	Flange		4	Internal splines			100MC9611
	186	Flange	90	4	Flange	90	4	100MC9588
	187	Flange	88	4	Flange	88	4	100MC9606
	199	Flange	82	4	Internal splines			100MC9615
	219	Flange		4	External splines			100MC9607

DRIVE SHAFTS

	Total length	Type of connection	Diameter	Number of flange mounting holes	Tye of connection	Diameter	Number of flange mounting holes	REF
	L1 mm	TY-AS1 B	D2 mm	AT-GA1	TY-AS2	D6 mm	AT-GA2	
	265	Flange	97	4	Flange	97	4	100MC9592
	285	Flange	99	4	Flange	99	4	100MC9594
	285	Flange	99	4	Flange	99	4	100MC9590
	290	Flange	99	4	Flange	99	4	100MC9586
	290	Flange	99	4	Flange	99	4	100MC9598

AUTOMATIC TRANSMISSION OILS – DEXRON® III

Powered by TOTAL



Product description:
- Fluid for automatic transmissions and hydraulic systems
- Is recommended for all automatic transmissions and hydraulic systems for which the manufacturer recommends a DEXRON® III fluid
- Automatic gearboxes
- Couplers and convertors power-assisted steering systems

Advantages:
- Very high thermal stability, high antioxidant and detergent level
- Special friction properties giving controlled slip for friction components: gear shifting quality, demands smooth clutching action without excessive slip and free from chatter
- High antiwear, anticorrosion and antifoam performances
- Perfect neutrality with elastomers and nonferrous metals (copper ...)
- Very high viscosity index
- Low temperature fluidity to avoid surge or sudden overload of circuits when starting in very cold weather
- Precise and smooth automatic shifting even at very low speed

OEM approvals:
Homologated:
- MAN 339 Type Z-1 & V-1
- VOITH H 55.633535
- ZF TE-ML 04D, 09, 14A, 17C
- MB-Approval 236.9
- VOLVO 97341

Meets the specific requirements:
- NH-530B
- ALLISON C4
- DEXRON® IIIG
- FORD MERCON

REF 100MC9653 – 20 l
REF 100MC9654 – 60 l
REF 100MC9655 – 208 l

TRANSMISSION OILS



Product description:
- Lubrication of transmissions requiring a GL-4 level product
- Lubrication of automatic transmissions, torque converters and hydrostatic transmissions
- Used in hydraulic systems and power-assisted steering
- Lubrication of power take-offs with wet clutches
- Cooling of oil bath disc brakes

Specifications:
- API GL-4

OEM approvals:
- MASSEY FERGUSON CMS M 1145/1143
- VOLVO CE WB 101
- ZF TE-ML 03E/05F/06K/17E

Meets requirements of:
- MASSEY FERGUSON CMS M 1141/1135
- JOHN DEER JDM J 20C
- CASE MS 1206/1207/1209
- NEW HOLLAND NH 410B/410C
- FORD M2C 134D/FHNA 2C 201.00
- KUBOTA UDT
- MC CORMICK HTX
- AGCO/ALLIS 821 XL
- CLAAS/RENAULT AGRICULTURE

Advantages:
- Suitable for a wide range of agricultural and public works equipment thus allowing the stock of lubricants to be reduced
- Excellent low-temperature performance (protects friction brakes against sticking) and high-temperatures performance (protects against judder or slip)
- Very good extreme-pressure and antiwear properties giving optimum protection of gears and hydraulic components

REF 100MC9656 – 20 l
REF 100MC9657 – 60 l
REF 100MC9658 – 208 l

TRANSMISSION OILS – 80W90



Product description:

- Total transmission axle 7 80W90 is extreme pressure mineral oil for the lubrication of highly loaded gears (axles, final drives, transfer cases, planetary gearboxes) when an API GL-5 level of performance is required
- Total transmission axle 7 80W90 is specially recommended for ZF and MAN hypoid gears, with standard drain interval

Specifications:

- API GL-5
- ZF TE-ML 12E, 17B, 19B
- MAN 342 type M-1

Advantages:

- Efficient protection of gears against wear and corrosion due to stable extreme-pressure properties
- High compatibility with oil filters due to antifoam properties
- Efficient stability in operation due to high viscosity index

REF 101MC1338 – 5 l
REF 101MC1339 – 20 l
REF 101MC1340 – 60 l
REF 101MC1341 – 208 l

STAND–ALONE SHOCK DETECTOR



The stand–alone shock detector is an impact detector that can be mounted on any material handling vehicle. If the vehicle is bumped beyond the preset impact level, an alarm will sound to let the supervisor know an incident has occurred.

Features:
- 8G, 3-axis accelerometer
- Operating voltage: 12–80 VDC
- Configuration by internal DIP–switch
- Number of calibration levels: 16
- Frequency remote control: 4 bands: 25, 100, 375, 750 Hz
- Distance control by RF–remote control at ± 10 metres
- Working temperature: –20 °C to 60 °C

REF 100MC6973

Recommended optional item:



Remote control

REF 100MC7097

OVERSPEED WARNING SYSTEM



As a driver, you are not always aware that you are speeding. This system offers you a full kit, with buzzer and warning light, which will be activated as soon as a certain speed is reached.

Features:
- Suitable for gas, diesel and electric trucks
- Recommended for forklift truck operating areas that are used by pedestrians
- Fully adjustable, works in forward and reverse
- Lifting capability of the vehicle is not affected
- 12–24 V

REF 100MC6978

OVERSPEED AND DISTANCE MONITORING



This device is a cost-effective, user-friendly speed and distance measuring tool that produces an alarm when the vehicle exceeds a certain pre-set speed, thereby increasing vehicle safety.

Features:
- Internal alarm if pre-set speed is exceeded
- Depending on the installation, this device can slow down the vehicle in case of an alarm (e.g. by operating a fuel restricting solenoid valve)
- Displays overspeed and distance travelled in excess of set speed limit
- Resolution to 0,001 miles or km
- Water-and weatherproof construction – suitable for vehicles without cabs
- 12–24 V

REF 100MC7433

MECHANCAL THROTTLE-SPEED LIMITERS



Our speed limiters prevent the forklift operator from exceeding a preset speed limit. We can offer different kits in 12 V and 24 V depending on your type of forklift.

Features:

- Limits travel speed of vehicle
- Easy installation
- Fully adjustable, does not affect the hydraulic lifting performance
- Works in forward and reverse
- Fuel consumption is reduced
- Saves forklift tyres
- Reduces engine noise level

REF 100MC6977 – 12 V kit
REF 100MC7098 – 24 V kit

ELECTRONIC SPEED LIMITER AND GOVERNOR UNIT FOR LIFT TRUCKS



Electronic speed limiter and governor unit for lift trucks. A speed limiter and/or governor increases the safety and contributes to the cost management of a vehicle by reducing the fuel consumption as well as the wear on the engine, tyres and brakes.

Features:

- Reduces fuel costs
- Reduces maintenance and repair costs of brakes, engine and tyres
- Increases safety
- Increases driving comfort
- Reduces impact on the environment

REF 100MC7434

ELECTRONIC SPEED LIMITER



Our electronic speed limiters prevent the forklift operator from exceeding a preset speed limit. We can offer them in different versions, depending on your make and type of machine.

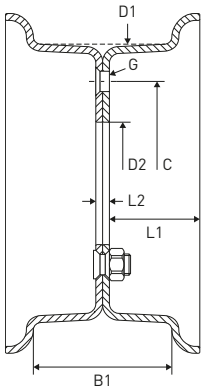
Features:

- Limits travel speed of vehicle
- Easy installation
- Works in forward and reverse
- Fuel consumption is reduced
- Increases driving comfort
- Reduces engine noise level

Please give make and type of your machine, so we can provide you with the correct part number.

SPLIT RIMS





Structure:

- Steel-plated rim, consisting of 2 halves, supplied with matching bolts nuts and washers
- Other dimensions available, ask your TVH contact (also see the "rim technical form" on page 755)

See also the catalogue Tyres, rims & accessories (REF 24337660)

Rim width	Rim diameter	Tyre size	Centre hole	Pitch circle	Number of holes	Diameter of stud holes	Flange position	Used for	REF
B1	D1		D2 mm	c mm	G	mm			
2.50	4	4.00-4	52	68	5	8,0	Half	Komatsu – Pimespo – OM	101MC1342
3.00	8	4.00-8	85	130	5	19,0	Half	Clark	101MC1343
		5.00-8	110	140	5	18,5	Half	Hyster	101MC1344
		125/75-8	86	114	6	15,0	Half	Toyota	101MC1345
		15x4.5-8	100	125	6	16,0	Half	Various	101MC1346
			110	148	6	15,0	Half	Various	101MC1347
4.33	8	16x6-8	95	135	5	17,5	124	Various	101MC1348
		150/75-8	110	145	5	18,5	Half	Hyster	101MC1349
		18x7-8	110	147	5	17,5	122	Various	101MC1350
		180/70-8	90	130	6	17,5	89	Various	101MC1351
			96	136	6	17,5	121	TCM	101MC1352
			100	140	6	17,5	50	Komatsu	101MC1353
			105	142	6	18,0	Half	Toyota	101MC1354
4.00	9	6.00-9	124	165	5	17,0	Half	Yale – Hyster	101MC1355
		140/55-9	140	170	6	18,0	Half	Various	101MC1356
			150	180	6	18,0	Half	Various	101MC1357
			130	160	8	16,5	Half	Various	101MC1358
			142	170	8	16,0	Half	Various	101MC1359
5.00	10	6.50-10	127	165	5	16,0	Half	Yale – Hyster	101MC1360
		7.50-10	140	170	6	18,0	Half	Various	101MC1361
			150	180	6	18,0	Half	Daewoo	101MC1362
			150	180	6	18,0	Half	Various	101MC1363
			170	200	6	17,0	Half	Caterpillar	101MC1364
			130	160	8	17,0	Half	TCM	101MC1365
			142	170	8	16,0	Half	Various	101MC1366
			105	140	10	18,5	Half	Hyster	101MC1367
5.00	12	7.00-12	149,3	203,2	5	32,0	Half	Yale – Hyster	101MC1368
			175	220	5	27,0	Half	Various	101MC1369
			150	200	6	27,0	Half	Various	101MC1370
			166	218	6	32,0	Half	Yale – Hyster	101MC1371
			170	220	6	27,0	Half	Various	101MC1372
			170	220	6	32,0	Half	Various	101MC1373
			145	190	8	26,0	Half	Toyota	101MC1374

MULTIPLE PIECE RIMS WITH RINGS



Structure:

- Can be supplied with or without locking rings
- There are several different fittings possible per size, depending on the make and type of machine. Ask your TVH contact (also see the "rim technical form" on page 755)
- Side, latch and seat rings upon request

See also the catalogue Tyres, rims & accessories (REF 24337660)

Rim width	Rim diameter	Tyre sizes			
B1	D1				
3.00	8	4.00-8	5.00-8	125/75-8	15x4.5-8
3.25	8	4.00-8	5.00-8	15x4.5-8	
3.75	8	4.00-8	5.00-8		
4.33	8	16x6-8	150/75-8	18x7-8	180/70-8
7.00	8	18x9-8			
4.00	9	6.00-9	140/55-9		
6.00	9	21x8-9	200/75-9		
5.00	10	6.50-10	7.50-10	180/60-10	
6.50	10	23x9-10	225/75-10	200/50-10	
3.00	12	4.50-12			
5.00	12	7.00-12	5.70-12		
8.00	12	27x10-12	23x10-12		
3.75	13	25x6	23x5		
4.50	15	5.50-15	6.00-15		
5.50	15	7.00-15			
6.00	15	7.50-15	7.00-15		
6.50	15	200-15	7.50-15	8.25-15	
7.00	15	250-15	28x9-15	8.15-15	225/75-15
7.50	15	250-15	10.00-15		
8.00	15	300-15			
9.75	15	355/65-15	28x12.5-15	355/45-15	
6.00	16	7.50-16			
6.50	20	8.25-20	9.00-20		
7.00	20	9.00-20	10.00-20		
7.50	20	10.00-20	11.00-20		
8.00	20	10.00-20	11.00-20	12.00-20	
8.50	20	12.00-20			
10.00	20	12.00-20			
8.50	24	12.00-24			
10.00	24	14.00-24			

RIM TECHNICAL FORM

Company .....

Customer code .....

Name .....

Fax number .....

Truck make .....

Truck type .....

Serial n° .....

Tyre dimensions .....

Rim type .....

D1 = rim dia ..... inch

B1 = rim width ..... inch

D2 = bore dia ..... mm

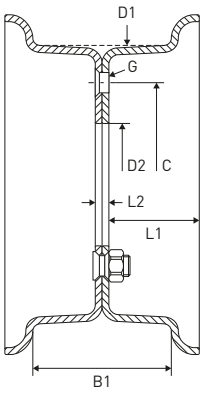
L1 = flange position ..... mm

L2 = flange thickness ..... mm

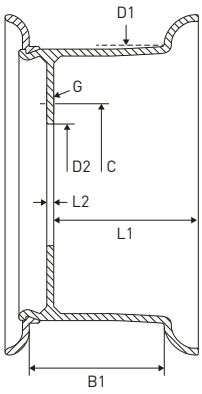
C = pitch circle dia ..... mm

G = number of stud holes .....

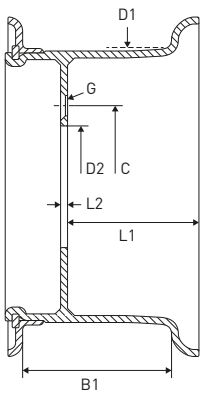
Type A: split wheel



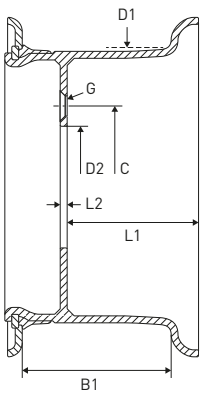
Type B: 2-way rim



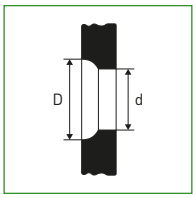
Type C: 3-way rim



Type D: 4-way rim



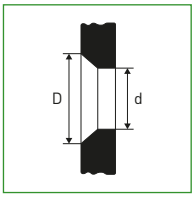
Please indicate type of stud holes



☐ Spherical

d = ... mm

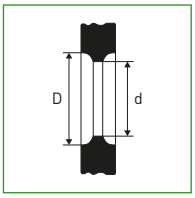
D = ... mm



☐ Conical

d = ... mm

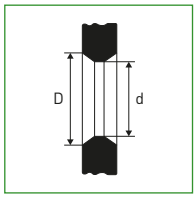
D = ... mm



☐ Double spherical

d = ... mm

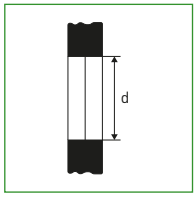
D = ... mm



☐ Double conical

d = ... mm

D = ... mm



☐ Straight hole

d = ... mm

CLAMP FITTING RIMS







Used on Hyster, Clark, Caterpillar, Mitsubishi, TCM, Kalmar ...

There are several different possibilities per size, depending on the make and type of machine

Sizes:
- 6.50 x 15. ...
- 8.00 x 20. ...
- 13.00 x 25. ...
- 13.00 x 33. ...

ALL RIMS CAN BE DELIVERED COMPLETE WITH TYRES, UPON REQUEST





CLIP DEMOUNTING RINGS



REF 100MC7721 – Complete kit

For tyre size	REF
4.00-8, 5.00-8, 15x4.5-8	100MC7722
16x6-8, 18x7-8	100MC7723
6.00-9, 21x8-9	100MC7724
6.50-10, 23x9-10, 200/50-10	100MC7725
7.00-12	100MC7726
23x10-12, 27x10-12	100MC7727
All 15" wheels	100MC7728
All 20" wheels	100MC7729

TYRES, RIMS & ACCESSORIES CATALOGUE



Please consult our 'Tyres, rims & accessories' catalogue (REF 24337660) for more information.

Go to downloads on www.tvh.com to view the catalogue online.

TOTALSOURCE® BASIC SUPER ELASTIC TYRES

These basic tyres from our TotalSource® range are ideal for daily, medium-duty use. They are composed of two layers and have a strong core with internal steel reinforcement rings. This results in a firm grip on the rim and a wear-resistant tread.
The TotalSource® Basic solid rubber tyres all meet the international standards (ETRTO).

SB



Tyre size	Rim size	Thread pattern	Tyre dia ± 10 mm	Section width ± 5 mm	Approx net weight kg	REF	
						Standard	Clip tyre
400x8	3.00	SB	405	110	11	100MC7436	100MC7460
500x8	3.00	SB	440	120	16	100MC7437	100MC7461
15x4.5x8	3.00	SB	370	105	9	100MC7438	100MC7473
16x6x8	4.33	SB	405	145	14	100MC7439	100MC7462
18x7x8	4.33	SB	443	156	20	100MC7440	100MC7463
600x9	4.00	SB	520	141	24	100MC7441	100MC7464
21x8x9	6.00	SB	511	185	31	100MC7442	100MC7465
650x10	5.00	SB	555	160	32	100MC7443	100MC7466
23x9x10	6.50	SB	570	196	42	100MC7444	100MC7467
200x50x10	6.50	SB	453	186	22	100MC7445	100MC7468
700x12	5.00	SB	642	171	46	100MC7446	100MC7469
23x10x12	8.00	SB	575	225	44	100MC7447	100MC7470
27x10x12	8.00	SB	675	235	67	100MC7448	100MC7471
700x15	5.50	SB	721	181	52	100MC7449	100MC7472
700x15	6.00	SB	721	181	52	100MC7450	
750x15	6.50	SB	740	191	74,5	100MC7451	
815x15	7.00	SB	679	220	55	100MC7452	100MC7474
28x9x15	7.00	SB	679	220	55	100MC7452	100MC7474
250x15	7.00	SB	700	210	62	100MC7453	100MC7475
250x15	7.50	SB	700	210	62	100MC7454	100MC7476
825x15	6.50	SB	795	205	82	100MC7455	100MC7477
300x15	8.00	SB	803	241	100	100MC7456	100MC7478
355x65x15	9.75	SB	910	810	121	100MC7457	100MC7479
900x20	7.00	SB	990	250	127	100MC7458	
1000x20	8.00	SB	1000	253	145	100MC7459	

TOTALSOURCE® STANDARD SUPER ELASTIC TYRES

Our standard tyres offer a solution for each normal application, within the limits of load and speed.
This types of tyre has a three-component structure, of which the inner layer is reinforced with steel rings to keep the tyre firmly on the rim.
The soft intermediate layer provides a cushioning effect that protects your vehicle and driver against heavy jolts.
Furthermore this intermediate layer dissipates heat towards the exterior. This causes the tyre to overheat less rapidly. This way, this centre layer results in a longer lifespan, higher carrying capacity & wear-resistance, lower energy consumption and improved road-holding capabilities.

TO1



TO2



TO3



TS01



TS02



TS03



TOTALSOURCE® STANDARD SUPER ELASTIC TYRES

TOTALSOURCE®

Tyre size	Rim size	Thread pattern	Tyre dia ± 10 mm	Section width ± 5 mm	Approx net weight kg	REF			
						Standard	Clip tyre	Standard non-marking tyre	Clip non-marking tyre
400x8	3.00	TO1	401	116	11,3	100MC7480			
400x8	3.00	TO3	412	115	12,6	100MC7481			
400x8	3.75	TS01	408	115	12,5	100MC7482			
400x8	3.75	TO3	412	115	12,6	100MC7483			
500x8	3.00	TO1	457	125	17,5	100MC7484	100MC7524		100MC7570
15x4.5x8	3.00	TO1	379	112	10,2	100MC7485	100MC7525		100MC7571
16x6x8	4.33	TO1	407	147	15,4	100MC7486	100MC7526		100MC7572
18x7x8	4.33	TO1	454	147	21	100MC7487	100MC7527		100MC7573
600x9	4.00	TO1	522	144	27,4	100MC7488	100MC7528		100MC7574
140x55x9	4.00	TO3	379	130	10,5		100MC7529		100MC7575
21x8x9	6.00	TO1	524	186	35,5	100MC7489	100MC7530	100MC7555	100MC7576
650x10	5.00	TO1	572	157	36,7	100MC7490	100MC7531	100MC7556	100MC7577
23x9x10	6.50	TO1	576	212	47,5	100MC7491	100MC7532	100MC7557	100MC7578
200x50x10	6.50	TO1	461	194	24,5	100MC7492	100MC7533	100MC7558	100MC7579
750x10	5.00	TS01	630	170	48	100MC7493		100MC7559	
750x10	5.50	TS01	630	170	48	100MC7494	100MC7534	100MC7560	100MC7580
450x12	3.00	TS02	546	120	22,2	100MC7495		100MC7561	
700x12	5.00	TO1	653	169	48,5	100MC7496	100MC7535	100MC7562	100MC7581
825x12	5.00	TS01	730	205	72	100MC7497			
23x10x12	8.00	TO1	586	234	51,2	100MC7498	100MC7536	100MC7563	100MC7582
27x10x12	8.00	TO1	688	244	72	100MC7499	100MC7537		100MC7583
550x15	4.50	TO2	665	154	37	100MC7500			
600x15	4.50	TS02	700	148	46,5	100MC7501		100MC7564	
700x15	5.50	TO1	729	179	61,5	100MC7502	100MC7538		100MC7584
750x15	6.50	TS01	760	200	75	100MC7503			
815x15	7.00	TO1	685	208	60,5	100MC7504	100MC7539	100MC7565	100MC7585
28x9x15	7.00	TO1	685	208	60,5	100MC7504	100MC7539	100MC7565	100MC7585
250x15	7.00	TO1	713	222	68	100MC7505	100MC7540		100MC7586
250x15	7.50	TS01	725	230	72	100MC7506	100MC7541	100MC7566	
825x15	6.50	TO1	815	211	93,2	100MC7507	100MC7542	100MC7567	100MC7587
300x15	8.00	TO1	820	247	117,5	100MC7508	100MC7543	100MC7568	100MC7588
28x12.5x15	9.75	TO2	705	290	91,9		100MC7544		
355x65x15	9.75	TO2	809	302	125	100MC7509	100MC7545		
650x16	5.50	TS03	740	165	60	100MC7510	100MC7546		
750x16	5.50	TO2	794	210	77,1	100MC7511	100MC7547		
750x16	6.00	TS03	800	220	77,2	100MC7512	100MC7548	100MC7569	
900x16	6.50	TS03	869	214	110	100MC7513	100MC7549		
900x20	6.50	TS03	1000	240	153	100MC7514	100MC7550		
900x20	7.00	TO2	974	224	123,9	100MC7515	100MC7551		
1000x20	7.50	TS03	1030	250	170	100MC7516	100MC7552		
1000x20	8.00	TS03	1030	250	170	100MC7517	100MC7553		
1100x20	8.00	TS03	1050	270	170	100MC7518	100MC7554		
1200x20	8.00	TS03	1100	285	195	100MC7519			
1200x20	8.50	TS03	1100	285	231	100MC7520			
1200x20	10.00	TS03	1100	285	231	100MC7521			
1400x20	10.00	TS03	1250	328	340	100MC7522			
1400x24	10.00	TS03	1330	325	390	100MC7523			
1600x25	11.25		1440	390	600	On Request			
1800x25	13.00		1600	480	870	On Request			
17.5x25	14.00		1350	460	580	On Request			
23.5x25	19.50		1600	580	1100	On Request			
26.5x25	22.00		1730	650	1400	On Request			

TOTALSOURCE® PREMIUM SUPER ELASTIC TYRES

Our premium solid rubber tyres are mainly suitable for intensive use (e.g. three-shift system), applications withvery heavy loads and very powerful machines. (e.g. Linde)
This type of tyre also has a three-component structure, of which the inner layer has been equipped with steel cables instead of rings. These woven cables ensure a smooth installation of the tyre and a good fixation of the tyre on the rim.

Another difference with the standard solid rubber tyres lies in the superior rubber compound, which results in the following advantages:

- lower heat build-up to resist extreme wear
- even better shock absorption
- improved stability, traction and braking power
- reduced vibrations
- longer lifespan

TSP



RIB



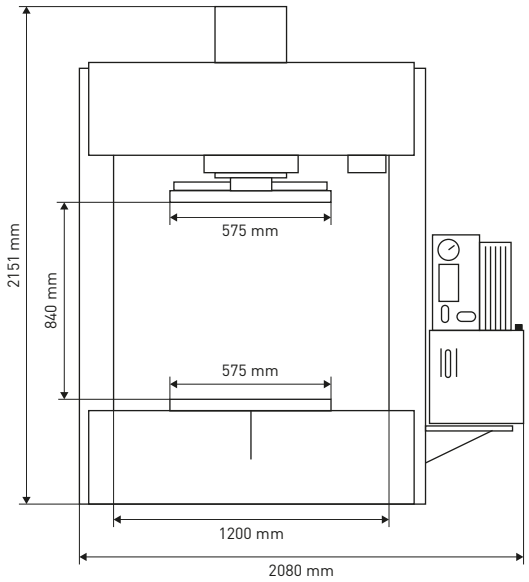
TOTALSOURCE® PREMIUM SUPER ELASTIC TYRES

TOTALSOURCE®

Tyre size	Rim size	Thread pattern	Tyre dia ± 10 mm	Section width ± 5 mm	Approx net weight kg	REF			
						Standard	Clip tyre	Standard non-marking tyre	Clip non-marking tyre
300x4	2.10	RIB	250	85	3,5	100MC7589			
400x4	2.50	TSP	300	100	6,3	100MC7590			
350x5	3.00	TSP	320	99	7,3	100MC7591		100MC7650	
400x8	3.00	TSP	410	113	15,5	100MC7592	100MC7629	100MC7651	
500x8	3.00	TSP	450	124	17	100MC7593	100MC7630	100MC7652	100MC7674
15x4.5x8	3.00	TSP	378	110	9,9	100MC7594	100MC7631	100MC7653	100MC7675
16x6x8	4.33	TSP	410	150	16,5	100MC7595	100MC7632	100MC7654	100MC7676
18x7x8	4.33	TSP	450	160	21	100MC7596	100MC7633	100MC7655	100MC7677
140x55x9	4.00	TSP	380	135	11		100MC7634		100MC7678
600x9	4.00	TSP	525	145	26	100MC7597	100MC7635	100MC7656	100MC7679
21x8x9	6.00	TSP	515	190	33,5	100MC7598	100MC7636	100MC7657	100MC7680
650x10	5.00	TSP	560	165	34	100MC7599	100MC7637	100MC7658	100MC7681
23x9x10	6.50	TSP	575	200	44	100MC7600	100MC7638	100MC7659	100MC7682
200x50x10	6.50	TSP	460	190	25	100MC7601	100MC7639	100MC7660	100MC7683
700x12	5.00	TSP	650	175	49	100MC7602	100MC7640	100MC7661	100MC7684
23x10x12	8.00	TSP	580	230	46	100MC7603	100MC7641	100MC7662	100MC7685
27x10x12	8.00	TSP	670	240	72	100MC7604	100MC7642	100MC7663	100MC7686
23x5	3.75	TSP	610	140	50	100MC7605		100MC7664	
700x15	5.50	TSP	725	185	57	100MC7606	100MC7643	100MC7665	100MC7687
700x15	6.00	TSP	725	185	57,5	100MC7607			
750x15	5.50	TSP	745	195	66	100MC7608			
750x15	6.00	TSP	745	195	66,8	100MC7609			
750x15	6.50	TSP	745	195	67,6	100MC7610		100MC7666	
815x15	7.00	TSP	685	225	63	100MC7611	100MC7644	100MC7667	100MC7688
28x9x15	7.00	TSP	685	225	63	100MC7611	100MC7644	100MC7667	100MC7688
250x15	7.00	TSP	710	220	69	100MC7612	100MC7645	100MC7668	100MC7689
250x15	7.50	TSP	710	220	69	100MC7613			
825x15	6.50	TSP	805	210	88	100MC7614	100MC7646	100MC7669	100MC7690
300x15	8.00	TSP	810	250	105	100MC7615	100MC7647	100MC7670	100MC7691
28x12.5x15	9.75	TSP	710	285	89	100MC7616	100MC7648		
355x65x15	9.75	TSP	815	300	135	100MC7617	100MC7649	100MC7671	100MC7692
400x60x15	11.00	TSP	815	330	149	100MC7618			
750x16	5.50	TSP	780	170	63	100MC7619			
750x16	6.00	TSP	780	170	63	100MC7620			
900x20	6.50	TSP	995	255	148	100MC7621			
900x20	7.00	TSP	995	255	149	100MC7622			
1000x20	7.50	TSP	1020	265	166	100MC7623			
1000x20	8.00	TSP	1020	265	166	100MC7624		100MC7672	
1200x20	8.00	TSP	1090	290	215	100MC7625		100MC7673	
1200x20	8.50	TSP	1090	290	215	100MC7626			
1200x24	8.50	TSP	1180	280	240	100MC7627			
1400x24	10.00	TSP	1290	325	345	100MC7628			

TYRE PRESS WITH REDUCTION TABLE





Detachable reduction table included



Specifications:

- Capacity: 120 tonne
- Max tyre dimension: 20"
- Cylinder: double-acting
- Total height: 2222 mm
- Total width: 2160 mm
- Total depth: 850 mm
- Operating pressure: 230 bar
- Cylinder stroke: 400 mm
- Stroke complete out: 35 sec
- Oil tank: 30 l
- Electric motor: 10 hp (7,5 kW)
- 3–phase
- 50 Hz frequency
- Shipping weight: 2000 kg
- Tools on request

REF 100MC7719 – 220 V
REF 100MC7720 – 380 V

PRESS TOOL KITS



- Capacity: 120 tonnes
- 8–15"

REF 101MC1396



- Capacity: 120 tonnes
- 20"

REF 101MC1397

TYRE PRESS FITTING TOOLS



Standard kit, including mounting paste, brush, tyre chisel and 3 tyre levers

REF 101MC1398

TYRE REPAIR KITS



Contents:
- 12 tube of patches n° 1
- 6 tube of patches n° 3
- 2 tube of patches n° 4
- 1 tube of patch n° 5
- 3 tube of patches n° 7
- 4 tube of patches n° 7A
- 2 tube of patches n° 7B
- 1 tube of vulcanisation liquid (50 g)
- 1 rasp
- 1 spare blade for rasp
- 1 roller

REF 100MC7730



Contents:
- 4 tube of patches n° 1
- 2 tube of patches n° 2
- 1 tube of patch n° 3
- 1 tube of patch n° 4
- 1 tube of patch n° 7
- 1 tube of patch n° 7A
- 1 metal rasp
- 1 tube vulcanisation liquid (10 g)

REF 100MC7731

TYRE CHISEL



Demounting equipment

REF 100MC7732

TYRE LEVER



- Tyre lever heavy-duty, offset pattern
- Vanadium steel, chrome-plated
- Length: 610 mm (24")

REF 100MC7733

IMPACT WRENCH



- Square drive: 1/2"
- Wrench working torque: 680 Nm
- Wrench max torque: 950 Nm
- Free speed: 8950 rpm
- Weight: 2,5 kg
- Average air consumption: 200 l/min

REF 100MC9660

IMPACT SOCKET SET



- 3 impact sockets for wheel nuts, with polymer inserts
- Dimensions: 17 – 19 – 21 mm

REF 100MC9664

SEALING PUNCTURE PROOF



1



2

- Avoids underinflation and uncreases the tire's lifespan 20–50%
- Protection from punctures from objects up to 12 mm wide

1. **REF 100MC9659** – 1 l
2. **REF 101MC1375** – 25 l



Hand pump for 25 l drum

REF 101MC1376

PRESSURE GAUGE



- Professional pressure gauge
- Operating pressure: 0,7–12 bar (10–174 psi)
- Analogue display
- Hose length: 1,5 m

REF 100MC9662

Michelin-licensed

COMPRESSOR



Beta
Beta Utensili S.p.A. Authorized Dealer

- Oil-lubricated direct driven compressor
- 24 l tank
- Max pressure: 10 bar (145 psi)
- Flow: 340 l/min
- Motor: 3 hp (2,2 kW)
- 230 V – 50 Hz
- Equipped with double handle for extra user comfort

REF 100MC9663

HYDRAULIC MACHINE JACKS – STEEL

TOTAL SOURCE

CE



- Length of the lifting surface: 90 mm
- With adjustable lifting surface

Fig	Lifting capacity kg	Height mm	Length of the base mm	Width of the base mm	Diameter of the lifting surface mm	Length of the lever arm mm	REF
1	5000	368	200	140	95	450	101MC1392
2	10 000	420	200	170	110	450	101MC1393
3	25 000	515	325	210	175	760	101MC1394

HYDRAULIC MACHINE JACKS – STEEL

TOTAL SOURCE





- Complete kit: jack (1) and stands (2)
- Always use jack & stands together

REF 101MC1391

Hydraulic jack:
- Load capacity: 4000 kg
- Minimum height: 60 mm
- Height: 360 mm
- Maximum height: 406 mm
- Length of the base: 740 mm
- Width of the base: 240 mm
- Length of the lifting surface: 85 mm
- Width of the lifting surface: 60 mm
- Length of the lever arm: 76 mm
- Own weight: 31 kg
- With adjustable lifting surface

1. **REF 101MC1390**

2 stands:
- Capacity/pair: 14 000 kg
- Min height: 240 mm
- Max height: 420 mm
- Weight: 12 kg
- Extra wide base

2. **REF 101MC1389**

Repair kit

REF 101MC1388

HYDRAULIC JACK – ALUMINIUM



- Load capacity: 4000 kg
- Minimum height: 60 mm
- Height: 360 mm
- Maximum height: 360 mm
- Length of the base: 740 mm
- Width of the base: 240 mm
- Length of the lifting surface: 85 mm
- Width of the lifting surface: 60 mm
- Length of the lever arm: 760 mm
- Own weight: 24 kg
- With adjustable lifting surface

REF 101MC1395

COMPLETE RANGE OF JACKS AND STANDS



For a complete overview of our range of hydraulic jacks, please consult the product special online by going to www.tvh.com under downloads/brochures/ product specials or by ordering a copy using the REF 18178749.

Go to downloads on www.tvh.com to view the product specials online.

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