



Service Parts ***Catalogue***

Edition 2



TVH is a global player, a ONE-STOP SHOP offering **material handling and industrial equipment parts and accessories** with a guaranteed fast delivery of the right product at the most competitive price. Irrespective of the brand, type and year of construction of the machine, TVH always has the solution. With 500 000 part numbers in stock and a database of over 20 000 000 known references, TVH offers excellent service to customers in over 170 countries.

Since 1969, the **TVH Group** has become a household name in the world of forklift trucks. What started small has grown into a worldwide organisation, unequalled in its field. And this is thanks to our unwavering **commitment to quality and service**.

The presence of TVH in this region shows the commitment of the Group in providing high-quality service from its depot in Singapore to customers in **South East Asia countries**.

The strategic location of Singapore also allows prompt & timely delivery of our quality products to the customers in this region.

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known references



- | | | | |
|----------------------------|--------------------|----------------------|---------------------|
| - Abeko | - Dambach | - Kärcher | - Powerboss |
| - Aichi | - Dantruck | - Kentruck-Robur | - Pramac |
| - Allis Chalmers-Kalmar AC | - Datsun | - Kinglifter Terberg | - Prat |
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| - Artison | - Desta | - Kooi Aap | - RCM |
| - Asea | - Dhollandia | - Lafis | - Rocla |
| - Atlet | - Dieci | - Lancer Boss | - Salev |
| - Audureau | - Dino Lift | - Lansing | - Samag |
| - Ausa | - Dulevo | - LGM | - Sambron |
| - Baka | - Ecolift | - Lifter | - Samsung |
| - Balkancar | - Eurolifter | - Linde | - Sanderson |
| - Baoli | - EP | - Loc | - Saxby |
| - Battioni e Pagani | - Faba | - Logitrans | - Sichelschmidt |
| - Baumann | - Fantuzzi | - Lugli | - Sisu |
| - Belet | - Fenwick | - Magliner | - Skyjack |
| - Bobcat | - Genie | - Manitou | - SMV Konecranes |
| - Bolzoni | - Genkinger | - MBB | - Snorkel |
| - Bonser | - Grove | - Merlo | - Steinbock |
| - Boss | - Hako | - Miag | - Still |
| - Brunilift | - Halla | - MIC | - Stocka |
| - BT | - Hangcha (HC) | - Minuteman | - Stocklin |
| - Bulli Kahl | - Harlan | - Mitsubishi | - Svetruck |
| - BV Vestergaard | - Haulotte | - Moffett | - Tailift |
| - Cangaru | - Heden - Dantruck | - Montini | - TCM |
| - Carer | - Heli | - Mora | - Tecnocar |
| - Carreffe | - Henley | - Nichiyu-Nyk | - Tennant |
| - Caterpillar | - Hyster | - Niftylift | - Terex |
| - Cesab | - Hyundai | - Nilfisk-Advance | - TotalLifter |
| - Charlotte | - Icem | - Nissan | - Toyota |
| - Clark | - Incab | - Noblelift | - Unitrac |
| - Comac | - Indos | - Nuova Detas | - Upright |
| - Conveyancer | - Italmacchine | - O & K | - Valmet |
| - Coventry Climax | - JCB | - OM | - Wagner |
| - Crown | - JLG | - OMG | - Whiptruck |
| - CTC | - Jumbo | - Patria | - Yale |
| - CVS Ferrari | - Jungheinrich | - Peg - Fenwick | - Yang - Yam - Puma |
| - Dalian | - Kalmar | - Pimespo | |



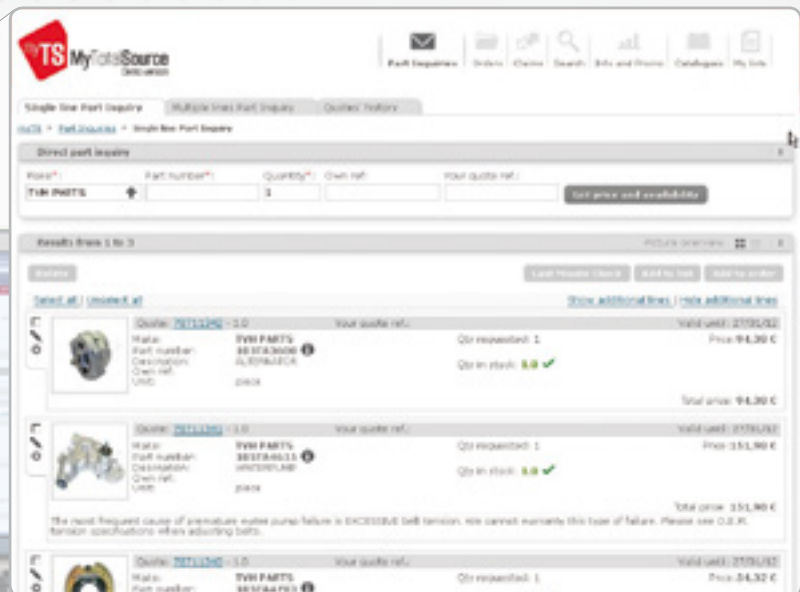
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Our catalogues all treat one or several related products. They also contain technical sheets. Check the list below to find out what catalogues you don't have yet or which of your catalogues are no longer up-to-date.

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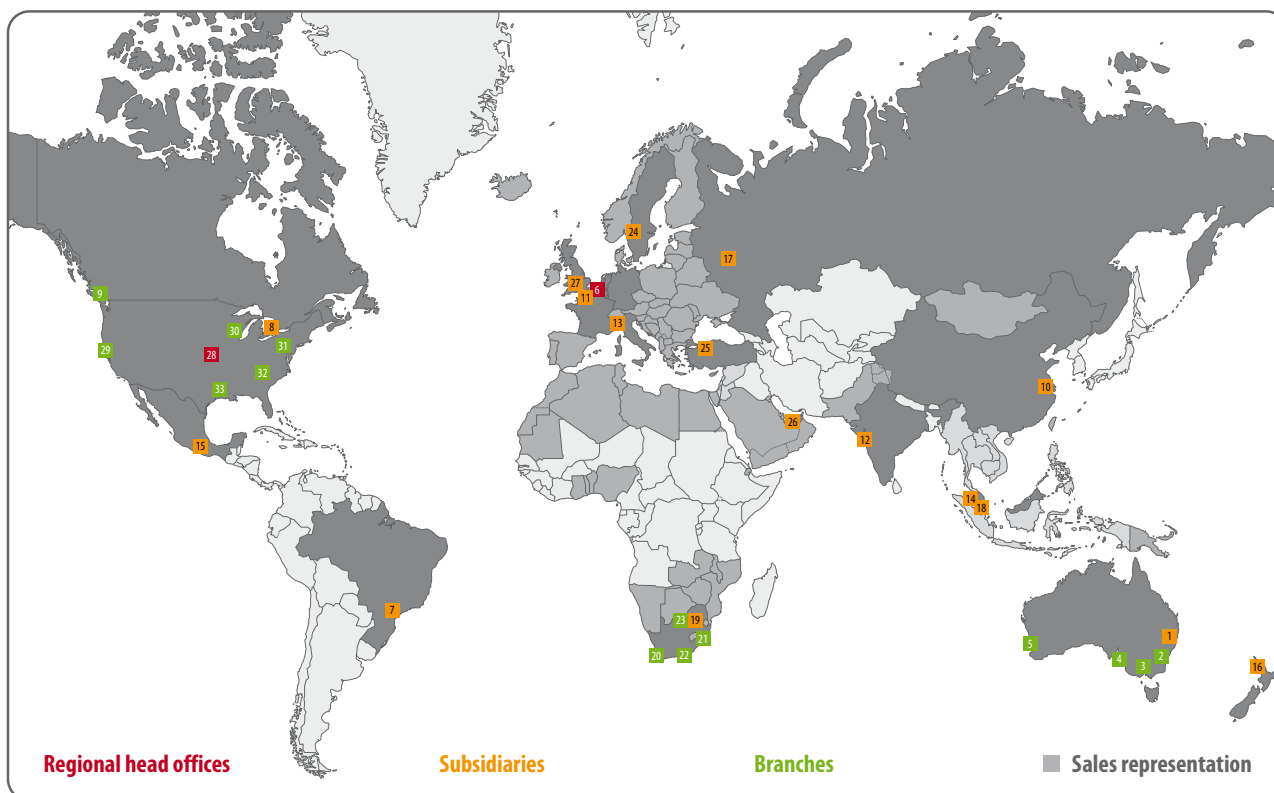
To highlight some specific product ranges, we make smaller brochures: the Product Specials.

- **REF 17857457** Beta quality tools & workwear
- **REF 14286693** Brake fluids, mineral & transmission oils
- **REF 14372877** Document & accessories holders
- **REF 18253535** Drum handling
- **REF 14616237** Forks & accessories
- **REF 18805081** Hardware special
- **REF 20382688** In the spotlight
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- **REF 15372984** Tyres & accessories
- **REF 18329658** Weighing special
- **REF 18545076** Window special
- **REF 18663385** Winter products

- **REF 16865558** Accessories & handling equipment catalogue
- **REF 20560977** Consumables & accessories
- **REF 15262190** Batteries, chargers & accessories
- **REF 20177702** Brushes
- **REF 9103419** Bulbs
- **REF 15282597** Chains & accessories
- **REF 10185471** Contactors & contacts
- **REF 20177485** Engine parts
- **REF 10727802** Exhaust systems
- **REF 20177906** Fuses & fuse holders
- **REF 10550844** Hand pallet truck parts
- **REF 14702080** Hydraulic system parts
- **REF 19949421** Key switches
- **REF 12594102** Labels & decals
- **REF 12410757** LPG system parts
- **REF 7872482** Mast rollers
- **REF 7882672** Paint & accessories
- **REF 7835233** Potentiometers & encoders
- **REF 7083552** Relays
- **REF 14089352** Rubber tracks
- **REF 13991397** Seats & accessories
- **REF 6252659** Starters & alternators
- **REF 20064130** Tyres, rims, rubber tracks & accessories
- **REF 7072186** Wheel brake & master cylinders
- **REF 6781097** Wheels, rollers & castors
- **REF 20777844** Energic Plus**
- **REF 14691770** Fluke
- **REF 12726578** Replacement parts suitable for Genie
- **REF 15069637** Replacement parts suitable for Haulotte
- **REF 12613028** Replacement parts suitable for JLG
- **REF 20769251** Replacement parts for scrubbers & sweepers
- **REF 19550200** Industrial equipment parts & accessories
- **REF 20350222** Parts Magazine
- **Filters** Consult your sales advisor

* One free copy per customer. Additional copies for sale. Five euro will be charged as of the first copy of our 4 largest catalogues, Brushes, Exhaust systems, Hydraulics and Starters & alternators. That means a discount of 50% for you.

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Protect your machine, warehouse and driver

REF 139TA5896

Advantages:

- Improves ergonomics for the truck operator: prevents neck (whiplash) and back injuries
- Prevents damage to the infrastructure, load and forklift truck
- Absorbs the energy in case of a collision with the site infrastructure
- Cost-effective (reduced risk of accidents and damage)
- Fits on any lift truck (up to 5 ton)
- Easy to mount: your safety secured in only 10 minutes!

Technical specifications:

- Strength: > 15 MPa
- Elasticity: 400%
- Temperature range: -40 °C to 120 °C or -40 °F to 248 °F
- Auto-ignition temperature: > 300 °C or > 572 °F
- Weight: 10 kg (22 lbs)
- Good resistance to water, steam, sunlight (UV), ozone, bases, acids, salts, oils



Universal shock absorber - Unique in the world



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INDUSTRIAL CHAIN GREASE

REF 105TA4644

- 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, to weak acids and bases
- Water-repellent
- 400 ml



TOTAL SOURCE®

BRAKE CLEANER

REF 134TA3719

- High-quality brake cleaner with high dissolving properties
- Leaves no residue and is non-conductive and non-corrosive
- This cleaner has a powerful jetspray for:
 - Drum & disc brakes
 - Brake linings
 - Brake callipers
 - Brake shoes
- 500 ml



TOTAL SOURCE®

CONTACT CLEANER

REF 107TA1815

- High-quality spray to clean electrical contacts of switches, batteries, contact points, printed circuit board switches and multiple sockets
- 400 ml



TOTAL SOURCE®

BATTERY PROTECTION SPRAY

REF 107TA7662

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

Curious about more products for battery maintenance?
Contact your sales advisor.



TOTAL SOURCE®

ELECTRONIC COMPONENT CLEANER

REF 141TA6721

- Liquid cleanser without surfactants for overall cleaning and degreasing of electronic controllers & electrical components, printed circuit boards, transformers & generators, electric motors
- Constituents: alcohol, iso-aliphatic hydrocarbons



TOTAL SOURCE®

Advantages:

- Cleans all electronic components efficiently and quickly
- Prevents moisture problems. Excellent water, dust and oil repellency
- Doesn't cause corrosion or leakage currents. Product evaporates and leaves no residue

Use:

- Apply the electronic component cleaner by spraying or by immersion (ultrasonic method), clean the part using a brush if necessary

GASKET REMOVER

REF 138TA4534

- Prepares flanges for gaskets removal of chemical gaskets by softening the gasket material on the flanges, eliminating excessive scraping
- 400 ml



LOCTITE®

TOTALSOURCE PREMIUM QUALITY HAND SOAP

REF 139TA2787

- Liquid degreasing hand cleaner
- Skin-friendly: free of solvents and other substances harmful to the skin
- With fine micro-particles of vegetable origin with softening properties
- 3 l



REF 139TA2789 – Refill pack 3 l

REF 139TA3259 – Wall bracket with elbow lever

TOTALSOURCE

FUNNEL – FAST EXTENDER

- Made of coated, heavy grade paper stock that can be used with virtually any liquid or powder
- Various sizes to fit a wide variety of openings and applications
- Folded flat for easy storage in a drawer, glovebox, toolbox or even in a pocket
- Designed to be compact for storage and remain clean until opened, eliminating the chances of contamination
- Eliminates the costs that are incurred due to clean-up, including rags and chemicals

1 REF 131TA2352

- Pro - 3 pieces
- Length: 282 mm

2 REF 131TA2351

- Standard - 3 pieces
- Length: 192 mm



TOTALSOURCE

FLEXIBLE DRAINING TOOL

REF 139TA6262

- For draining and pouring of liquids in applications where rigid funnels are cumbersome
- Bends, molds and holds any shape
- Leakproof
- As versatile in dry as in wet applications
- Store flat or roll up to take along in your toolbox or glove compartment
- 100% aluminium permanently sealed inside of a heavy coating of flexible nitrile rubber
- Dimensions: 370 x 165 mm
- Bend sides to create a small parts tray, scoop and much more
- Works in temperatures from -34 °C to 218 °C



HYDROMETER

REF 138TA3950

- Hydrometer in complete plastic housing
- With a hydrometer you can measure the weight of the acid in the battery





Type	Wire size			Yellow	Orange	Red	Grey	Blue	Green	Black	Brown	Purple
	AWG	Exact mm ²	European mm ²	12 V	18 V	24 V	36 V	48 V	72 V	80 V	96 V	120 V
SB50	#6	13,3	16	136TA3094	136TA3105	106TA9801	105TA4671	136TA3141	136TA3155	106TA9804		
	#10/12	5,3/3,3	6/4	136TA3095	136TA3106	105TA4670	106TA9802	136TA3142	136TA3156	106TA9803		
SB120	#2	33,6	35			136TA3116	136TA3129	136TA3143				
	#4	21,1	25			136TA3117	136TA3130	136TA3144				
	#6	13,3	16			136TA3118	136TA3131	136TA3145				
SB175	1/0	53,5	50	105TA4672	105TA4673	106TA9805	105TA4674	106TA9806				
	#2	33,6	35	136TA3096	136TA3107	136TA3119	136TA3132	136TA3146				
	#4	21,1	25	136TA3097	136TA3108	136TA3120	136TA3133	136TA3147				
SB350	2/0	67,4	70	105TA4675	106TA9807	106TA9808	106TA9809	106TA9810	106TA9811			
	3/0	85,0		136TA3098	136TA3109	136TA3121	136TA3134	136TA3148	136TA3157			
	4/0	107,2		136TA3099	136TA3110	136TA3122	136TA3135	136TA3149	136TA3158			
SBE80	#6	13,3	16			136TA3123						
SBE160	1/0	53,5	50	106TA9817	106TA9818	106TA9819	106TA9820	106TA9821	106TA9822	106TA9823		
	#2	33,6	35	105TA4676	106TA9812	106TA9813	106TA9814	105TA4677	106TA9815	106TA9816		
SBE320	2/0	67,4	70	106TA9831	106TA9832	106TA9833	107TA8404	106TA9834	106TA9835	106TA9836	106TA9837	106TA9838
			50	136TA3100	136TA3111	136TA3124	136TA3136	136TA3150	136TA3159	136TA3163	136TA3166	136TA3167
SBX175	1/0	53,5	50	136TA3101	136TA3112	136TA3125	136TA3137	136TA3151	136TA3168			
			35	136TA3102	136TA3113	136TA3126	136TA3138	136TA3152	136TA3169			
SBX350	2/0	67,4	70	106TA9824	106TA9825	106TA9826	106TA9827	106TA9828	106TA9829	106TA9830		
	3/0	85,0		136TA3103	136TA3114	136TA3127	136TA3139	136TA3153	136TA3161	136TA3164		
	4/0	107,2		136TA3104	136TA3115	136TA3128	136TA3140	136TA3154	136TA3162	136TA3165		



Female battery connector



80 A connector



160 A connector



320 A connector

Male battery connector



80 A connector



160 A connector



320 A connector

Description	Use	Cable size	REF
80 A male	charger/motor	16 mm ²	116TA5134
80 A male	charger/motor	25 mm ²	106TA9914
80 A female	battery	16 mm ²	131TA4678
80 A female	battery	25 mm ²	106TA9916
80 A	handle		107TA7665
160 A male	charger/motor	25 mm ²	106TA9923
160 A male	charger/motor	35 mm ²	106TA9924
160 A male	charger/motor	50 mm ²	106TA9925
160 A female	battery	25 mm ²	106TA9926
160 A female	battery	35 mm ²	106TA9927
160 A female	battery	50 mm ²	116TA4697
160 A	handle		139TA2003
320 A male	charger/motor	50 mm ²	105TA4682
320 A male	charger/motor	70 mm ²	106TA9938
320 A male	charger/motor	95 mm ²	139TA2013
320 A female	battery	50 mm ²	106TA9940
320 A female	battery	70 mm ²	105TA4683
320 A female	battery	95 mm ²	139TA2027
320 A	handle		139TA2049

FEMALE BATTERY CONNECTOR JAPANESE BRANDS



REF 106TA1047
5-pole; 30 A; 250 V

MALE BATTERY CONNECTOR JAPANESE BRANDS



REF 112TA4833
5-pole; 30 A; 250 V

MODEL: RX



1 year warranty
on all charger parts!

Best buy!

Single-phase

Three-phase

Ask for our free detailed CD-rom manual:
REF 107TA8608

Box S



250 x 200 x 320 mm

Box A



430 x 285 x 270 mm

Box B



500 x 340 x 360 mm

Box C



500 x 360 x 700 mm

EXTENDED RANGE

General information

- Fully automatic, microprocessor-controlled battery charger
- Compact and simple construction
- LED control panel:
 - Battery connected - in charge
 - Final charge
 - Charge complete - equalization
 - Emergency stop
 - Black-out of the mains
 - Ammeter 0-100 %
- Automatic equalization 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 (DIN41774)
- 1 year warranty (on spare parts)



ENERGIC Plus®

Volt	Amp	Capacity range vs time of charge	Box	Weight	Input power	REF
RX/Single-phase/220 VAC						
24 V	20 A	100-120 Ah	S	13 kg	0,70 kVA	122TA8161
24 V	25 A	125-150 Ah	S	14 kg	0,85 kVA	122TA8162
24 V	30 A	150-180 Ah	S	17 kg	1,00 kVA	122TA8163
24 V	40 A	200-240 Ah	A	19 kg	1,30 kVA	122TA8164
24 V	50 A	250-300 Ah	A	22 kg	1,70 kVA	122TA8165
24 V	60 A	300-360 Ah	A	24 kg	2,00 kVA	122TA8166
24 V	80 A	360-500 Ah	B	40 kg	2,80 kVA	139TA2548
48 V	60 A	300-360 Ah	B	43 kg	4,20 kVA	122TA8167
48 V	80 A	360-500 Ah	B	48 kg	5,60 kVA	122TA8168
48 V	100 A	500-599 Ah	B	47 kg	7,00 kVA	138TA4138
48 V	120 A	600-749 Ah	B	51 kg	8,40 kVA	138TA4139
RX/Three-phase/380 VAC						
24 V	60 A	300-360 Ah	B	37 kg	2,10 kVA	122TA8169
24 V	80 A	360-500 Ah	B	41 kg	2,80 kVA	122TA8170
24 V	100 A	500-600 Ah	B	44 kg	3,50 kVA	122TA8171
24 V	120 A	600-749 Ah	B	50 kg	4,20 kVA	138TA4140
24 V	140 A	750-899 Ah	C	52 kg	4,90 kVA	138TA4141
24 V	160 A	900-1024 Ah	C	56 kg	5,60 kVA	138TA4142
24 V	180 A	1025-1149 Ah	C	58 kg	6,30 kVA	138TA4143
24 V	200 A	1185-1299 Ah	C	65 kg	7,00 kVA	138TA4144
36 V	60 A	300-360 Ah	B	41 kg	3,10 kVA	122TA8172
36 V	80 A	360-500 Ah	B	45 kg	4,20 kVA	122TA8173
36 V	100 A	500-600 Ah	B	48 kg	5,20 kVA	122TA8174
36 V	120 A	600-749 Ah	B	50 kg	6,20 kVA	138TA4145
36 V	140 A	750-899 Ah	C	55 kg	7,30 kVA	138TA4146
36 V	160 A	900-1024 Ah	C	62 kg	8,30 kVA	138TA4147
36 V	180 A	1025-1149 Ah	C	68 kg	9,40 kVA	138TA4148
36 V	200 A	1185-1299 Ah	C	80 kg	10,40 kVA	138TA4149
40 V	50 A	250-300 Ah	B	40 kg	4,40 kVA	122TA8175
40 V	60 A	300-360 Ah	B	42 kg	5,30 kVA	122TA8176
40 V	80 A	360-500 Ah	B	48 kg	7,00 kVA	122TA8177
48 V	50 A	250-300 Ah	B	39 kg	2,80 kVA	122TA8178
48 V	60 A	300-360 Ah	B	43 kg	4,20 kVA	122TA8179
48 V	80 A	360-500 Ah	B	49 kg	5,60 kVA	122TA8180
48 V	100 A	500-600 Ah	B	53 kg	7,00 kVA	122TA8181
48 V	120 A	600-749 Ah	B	62 kg	8,40 kVA	138TA4150
48 V	140 A	750-899 Ah	C	70 kg	9,80 kVA	138TA4151
48 V	160 A	900-1024 Ah	C	79 kg	11,20 kVA	138TA4152
48 V	180 A	1025-1149 Ah	C	86 kg	12,60 kVA	138TA4153
48 V	200 A	1185-1299 Ah	C	94 kg	14,00 kVA	138TA4154
72 V	60 A	300-360 Ah	B	53 kg	6,30 kVA	122TA8182
72 V	80 A	360-500 Ah	B	55 kg	8,30 kVA	122TA8183
72 V	100 A	500-599 Ah	C	71 kg	10,50 kVA	138TA4155
72 V	120 A	600-749 Ah	C	83 kg	12,50 kVA	138TA4156
80 V	60 A	300-360 Ah	B	55 kg	6,90 kVA	122TA8184
80 V	80 A	396-499 Ah	B	65 kg	9,20 kVA	138TA4157
80 V	100 A	500-599 Ah	C	80 kg	11,50 kVA	138TA4158
80 V	120 A	600-749 Ah	C	87 kg	13,80 kVA	138TA4159

All spare parts available

We buy only tropicalized chargers.

Please ask our product specialist to make sure the part number here crosses with the tropicalized version.

Built-in charger

For lead-acid & gel-cell batteries!

The SMC is a battery charger designed to be mounted on board in battery powered vehicles (scissor lifts, golfcarts, etc). It has been designed for maximum reliability in wet and dusty environments. The SMC has three selectable charging curves (IU, IUa, IUla), suitable to charge both lead-acid and gel-cell batteries. The output current is independent from the variations of the AC input. The exclusive power control system of the SMC ensures a high power factor, high efficiency and very low EMI*, while the simple construction allows very easy service/maintenance operations.

* EMI: electromagnetic interface

Specify the requested charging standard supplied with lead-acid charging curve



General information

- Single-phase
- High power factor
- High efficiency
- Low EMI: the SMC doesn't generate electrical noise and input current distortion
- Microprocessor-controlled battery charger
- LED control panel
- Auto-equalization system
- Maintenance system
- Charging curves: IU, IUa & IUla
- 10-12 h charge system
- Double feed of printcard (AC/DC)
- CE/UL approved



ENERGIC Plus®

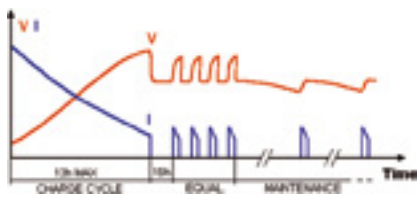
Volt	Amp	Capacity range	Dimensions L x W x H	Weight	REF
12 V	30 A	166 - 198 Ah	300 x 180 x 190 mm	12 kg	123TA7203
12 V	40 A	199 - 263 Ah	300 x 180 x 190 mm	13 kg	123TA7204
24 V	20 A	100 - 132 Ah	300 x 180 x 190 mm	13 kg	123TA7205
24 V	25 A	133 - 165 Ah	300 x 180 x 190 mm	14 kg	123TA7206
24 V	30 A	166 - 198 Ah	300 x 180 x 190 mm	17 kg	123TA7207
24 V	40 A	199 - 263 Ah	300 x 180 x 190 mm	19 kg	123TA7208
24 V	15 A	96 - 110 Ah	300 x 215 x 190 mm	22 kg	128TA4678
36 V	25 A	133 - 165 Ah	300 x 180 x 190 mm	22 kg	123TA7209
36 V	30 A	166 - 198 Ah	300 x 180 x 190 mm	22 kg	123TA7210
36 V	40 A	199 - 263 Ah	300 x 180 x 190 mm	24 kg	123TA7211
48 V	20 A	111 - 132 Ah	300 x 180 x 190 mm	22 kg	123TA7212
48 V	30 A	166 - 198 Ah	330 x 200 x 260 mm	28 kg	123TA7213
48 V	40 A	199 - 263 Ah	330 x 200 x 260 mm	33 kg	123TA7214

All spare parts available

ENERGIC Plus®

THREE-PHASE

Ask for our FREE detailed manuals:
REF 107TA8608 – AR BOX A



Box A



500 x 360 x 700 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
- 10-12 h charge system: Wa (DIN41774)
- Microprocessor-controlled electronic card
- Derivative dV/dT charge control
- Digital display: V/cell, current, capacity charged, time of charge, error messages

Digital technology stands for

- Increase in lifespan of battery
- Built-in maintenance system
- More compact than the older type of chargers, easier to store and transport

Advantages of a round shape

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

Spares for ARD

Control board:

For ARD Wa: **REF 138TA4136**

For ARD WoWa: **REF 138TA4137**

Other spares available on request:

- Please provide full charger details: type - voltage - amps - serial number



REF 138TA4135

Wall support bracket

Battery discharger/analyzer

The **BDX** is an automatic battery **discharger/analyzer**, designed to test the efficiency of industrial batteries of any type, voltage and capacity. This equipment can be programmed to discharge the battery with a precisely controlled constant current, adjustable from zero to the maximum rated value, while keeping the battery voltage under control.

While the discharge is in progress, the control board measures the total capacity (Ampere-Hours) discharged from the battery.

When the battery voltage reaches the minimum programmed value, or when the maximum programmed test time is reached, the BDX shuts down automatically, while the measured parameters remain available to the user. **The BDX is very simple to use and doesn't require particular training.** The programming of the test requires less than 2 minutes and the operation is completely automatic.



General information BDX

- High-frequency IGBT regulator, featuring constant current discharge of the battery.
- Rugged construction.
- Compact and portable design.
- Wide power range available - Battery voltages up to 600 VDC & discharge currents up to 600 A.
- Intelligent electronic protection system (includes soft start, battery polarity reversal and overtemperature).
- Programmable digital board, controlled by microprocessor.
- Can operate with batteries of any type.
- Digital display (battery voltage and current, time, capacity discharged, programmed values).
- CE-certificated.
- USB-connection.

Protection

Battery polarity reversal

If the battery is connected with reverse polarity, the BDX remains in standby mode and no current flows.

Overtemperature

A thermal sensor protects all the electronic components of the BDX.

Sparks on connection

When the battery is connected to the BDX, no sparks and/or flames will be generated at the connectors.

Auto-test at startup

Every time the BDX is powered, an automatic self-test of the power electronics and the control boards is performed in less than 10 seconds. In case of fault, the unit remains in standby mode.

AC input

Standard voltage

- Voltage range: 85-135 or 180-250 VAC
- Single-phase
- Max power: 250 W
- 50/60 Hz

Mechanical

- External dimensions: 325 x 630 x 570 mm
- Enclosure: 2 mm steel
- Four-wheel kit for easy moving
- Cooling: forced ventilation

Discharge capability

Standard versions

REF 124TA2652

Battery voltage: 12-48 V, maximum discharge current: 180 A

REF 124TA2653

Battery voltage: 12-96 V, maximum discharge current: 200 A

REF 141TA6722

Battery voltage: 12-80 V, maximum discharge current: 150 A

When using the BMS in combination with BDX you will have a detailed report of each cell and will be able to detect bad cells.



NEW
in SPC 2

BATTERY REGENERATOR REPLUS

ENERGIC Plus®



Application voltage	Technical specifications	REF
1,2 VDC-100 VDC	Up to 300 Ah	139TA1918
1,2 VDC-100 VDC	Up to 500 Ah	139TA1917
1,2 VDC-150 VDC	Up to 1000 Ah	138TA6595
1,2 VDC-75 VDC	Up to 3000 Ah	139TA5237

Advantages

- Detailed test report of the entire process
- Lifespan of the batteries expands significantly
- Discharged energy DC/AC is converted, this energy can be placed back onto the power grid and be reused
- Minimum maintenance cost
- Quick regeneration
- Durability: almost permanent use by simplifying the circuits and using the best components
- Easiest application: automation program applied
- Wireless connection between regenerator and computer (live on pc)
- Free analyzing software
- 2 year warranty
- Certified CE

Applications

- Starter batteries
- Traction – semi-traction batteries
- Stationary batteries
- Ni-Cad batteries

Problem

When a battery's energy charge is drained and needs to be charged during normal working cycles, sulphate crystals gradually build up on the electrodes, preventing the battery from effectively delivering current. The crystals in effect suffocate the battery. 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 (thus the rapid fall at this age in your battery's productivity).

Process

Lead sulphate is removed by the electrical high-frequency pulsation process of the battery regenerator:

- The gravity of the electrolyte is increased.
- The internal resistance is reduced.
- Increased capacity of the battery (Ah).
- Fully automatic charge/discharge

We advice to always use the Battery Regenerator REPLUS together with the BMS system. (See page 9 for more info about the BMS.)

How it works

In total the process takes maximum 42 hours. In this 42 hours you discharge the battery 2 times and regenerate it 3 times. In both discharge and regeneration mode you apply a special high-frequency pulse which is the secret key ingredient to desulphate your batteries.

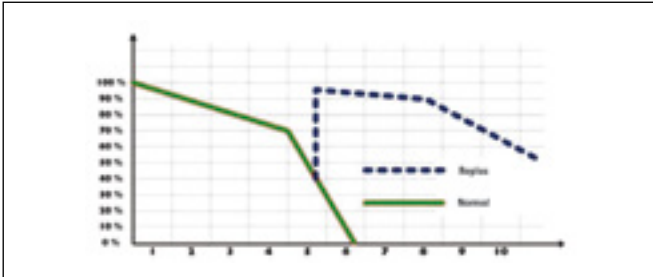
You can either program the regenerator from a distance with your computer (by means of wireless communication) or you can set it on the machine itself.

When the process is finished, you download the data wireless to your computer or by means of an SD-card and then you can print out a complete and detailed battery test report. On this report you will clearly see what the effect has been of the process, how many Ah you have won and how many extra hours you can use your battery now.

BATTERY REGENERATOR REPLUS

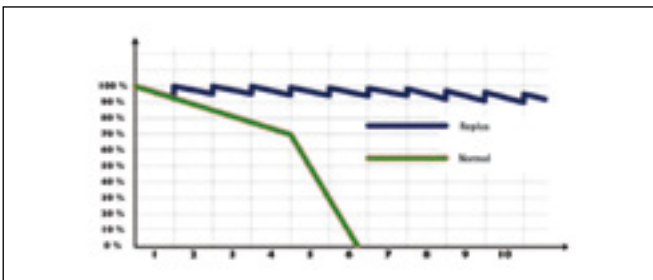
The Battery Regenerator REPLUS can be used in 2 ways

- First method is the standard regeneration method where you will bring back the battery capacity after a usage of 3-4 years.
- Second method is the annual reconditioning of the battery. In this case the sulphate doesn't stand a chance of entering the battery.



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:

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

Application field

Every lead-acid-based battery that is commonly used in cars, forklifts, golf carts, reachtrucks, cleaning machinery, telecom market ...

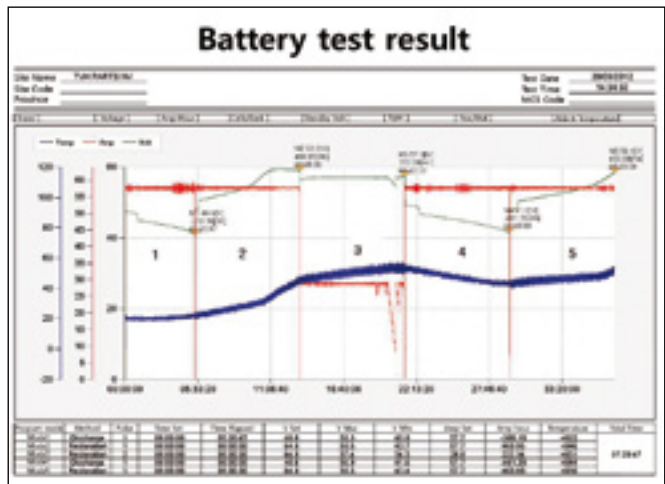
- Starter batteries, traction batteries, semi-traction batteries, high power stationary batteries (UPS)

Very easy to handle

This process is fully automatic and doesn't need any special attention. After 72 hours for really badly sulphated batteries and 42 hours for batteries in average condition the regenerator will have finished the operation.

When the process is finished you can download the data to your pc (by means of SD or wireless).

With the free analyze software that comes with the Battery Regenerator REPLUS, fully detailed reports which are showing the condition before and afterwards.



Following curve shows a complete restoration:

1. controlled discharge
2. restoration
3. restoration
4. discharge
5. restoration

Result in detail

When you compare discharge 1 & 4 you see that the time needed to discharge the battery is much longer in step 4. This is a direct result of the restoration on mode 2 & 3.

Comparing step 2 with step 5, you see that the set battery voltage is reached much later than in step 2. This means that your battery lasts longer and will be in good condition again.

For further info, please contact us via the following e-mail address: info@energicplus.com

NEW
in SPC 2

BATTERY MONITORING DEVICE

Useful to understand that the batteries are being charged correctly charged batteries and discharging to the optimum level



Voltage	Ah battery	REF
24 V – 96 V	100 ÷ 340	141TA7878
24 V – 96 V	350 ÷ 740	141TA7879
24 V – 96 V	750 ÷ 1500	141TA7880

Monitoring battery data

- Measured instantaneous data: V, I, T and Ah
- Storage and analysis of history data
- Statistic analysis
- Data download on USB to the PC

Sending battery data to a PC

Through the USB all data are 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 driver can be uploaded to the SmartService WEB application for:

- automatic analysis and reports
- integrated "SmartIC-like" management fleet

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
- 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

BATTERY WATER SYSTEM

REF 140TA2214

Deionising unit

Weight: 35 kg

Dimensions: 450 x 330 x 800 mm

Water automatically stops when the filters are exhausted so as to prevent damage to the batteries

REF 140TA2215

Cartridge

Refill for deionising unit



DEIONISER UNIT WITH TANK

Advantages

- Mobile and convenient
- Protection of battery against addition of tap water
- Important reduction of maintenance cost
- Refill with tap water and get top quality DI water
- Suitable for single-point filling

Suitable for batteries, electrical stackers, electrical forklifts, golf carts and various battery-powered machines.

General information

- Tank: 25 l
- Battery: 12 V/12 Ah (fuse: 6 A) maintenance-free power battery
- Flow: 4 l/min
- Pressure switch cut-off at 70 PSI
- 12 meter output pressure hose with brass nut connector
- Weight: 11 kg
- Dimensions: 420 x 290 x 600 mm
- Duty cycle: single block rate of flow adjustment
- Tyre: inflatable tyre, dimension: 8", pressure: 3,0 bar



REF 138TA7533

CONDUCTIBILITY TESTER

REF 116TA5778

Checks the conductivity (microSiemens-value) of your demineralized water



ELECTROLYTE SENSOR

REF 140TA2231



BATTERY FILLING SYSTEM

Flow indicator
REF 106TA8956



Ø 9,5 mm
REF 106TA8942

Female joint
REF 106TA8953

Male joint
REF 106TA8952

Filter H₂O
REF 106TA8951



Water tank
REF 116TA6228 – 60 l
REF 106TA8955 – 20 l



20 l



60 l

Optional kit

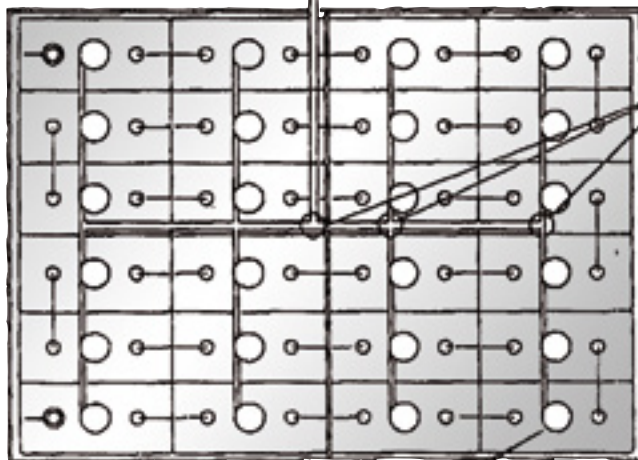
You can order this optional kit:

REF 106TA8937 – 20 l
(includes water tank, flow indicator, plastic hose (± 3 m) and female joint)

REF 106TA8938 – 60 l
(includes water tank, flow indicator, plastic hose (± 3 m) and female joint)



Standard kit

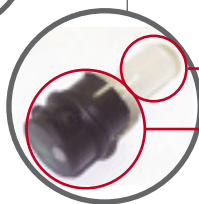


Closing cup
REF 106TA8940



REF 111TA3478

REF 111TA3477



REF 107TA1688 (meter)
Plastic hose 6 x 9 mm

REF 106TA8942 (meter)
Plastic hose 10 x 14 mm

REF 106TA8943 (meter)
Plastic hose 12 x 16 mm

Pipejoints

REF 106TA8944 – L-connection 10-6
REF 106TA8945 – L-connection 10-10
REF 137TA1834 – L-connection 6-10
REF 137TA1835 – L-connection 6-6



REF 106TA8946 – T-connection 6-10-6
REF 106TA8947 – T-connection 10-6-10
REF 106TA8948 – T-connection 10-10-10
REF 137TA1836 – T-connection 6-6-6

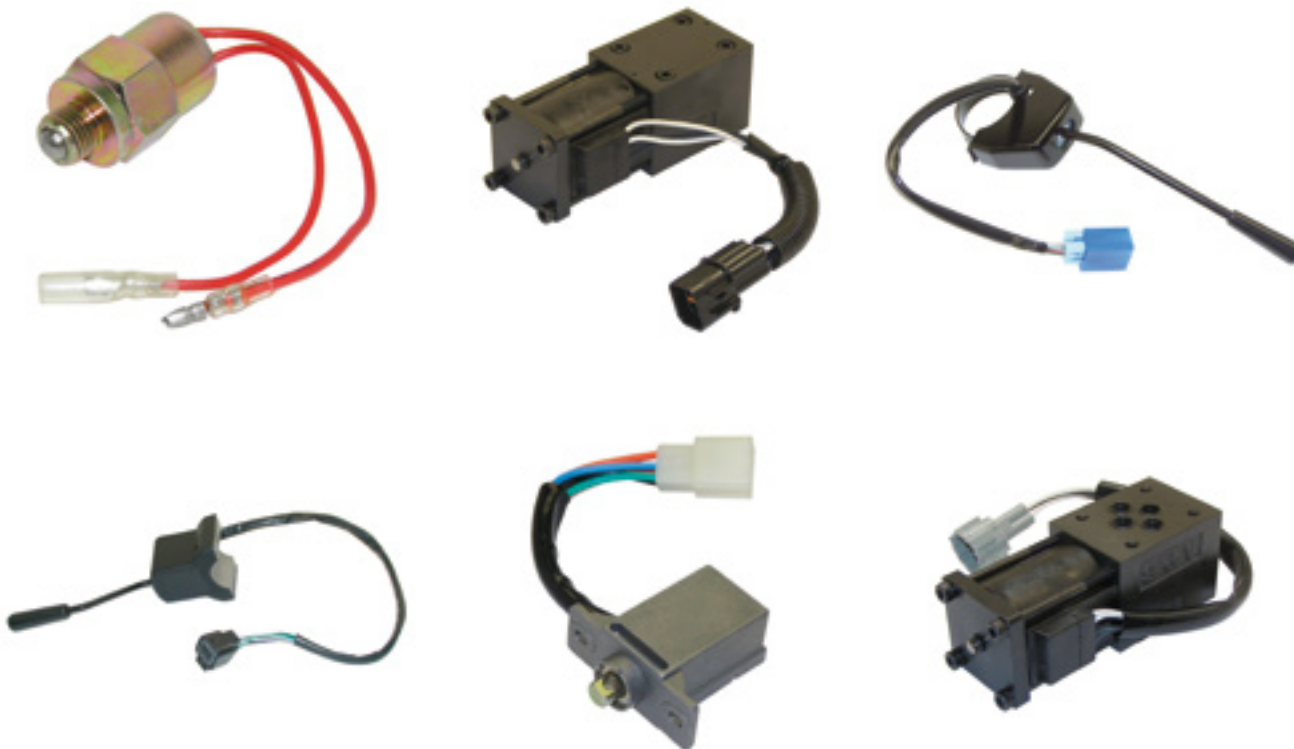


REF 106TA8949 – X-connection 6-10-6-10
REF 106TA8950 – X-connection 10-10-10-10
REF 137TA1837 – X-connection 6-6-6-6



You can order this optional kit:

REF 115TA5406 – 12 V (includes all the necessary parts for a 12 V battery)
REF 106TA8934 – 24 V (includes all the necessary parts for a 24 V battery)
REF 115TA5407 – 36 V (includes all the necessary parts for a 36 V battery)
REF 106TA8935 – 48 V (includes all the necessary parts for a 48 V battery)
REF 115TA5408 – 72 V (includes all the necessary parts for a 72 V battery)
REF 106TA8936 – 80 V (includes all the necessary parts for a 80 V battery)
REF 115TA5409 – 96 V (includes all the necessary parts for a 96 V battery)



Brand	Type	REF F/R switch	REF F/R solenoid	REF signal switch	REF neutral switch
Toyota	7 Series	141TA7762	110TA9511	141TA7768	-
Komatsu	FD25-11	-	-	141TA7769	141TA7774
	FD25-12	141TA7763	131TA9586	141TA7770	-
	FD25-14	141TA7763	131TA9586	128TA5863	-
	FD25-16	141TA7764	141TA7767	141TA7771	-
Nissan	H02	-	-	141TA7772	-
	J02	-	-	141TA7772	141TA7775
Mitsubishi	F18A	-	-	141TA7773	141TA7776
	F18B	141TA7765	131TA6954	141TA7773	141TA7776
	F18C	141TA7766	131TA6957	-	-

NEW
in SPC 2

JOYSTICKS

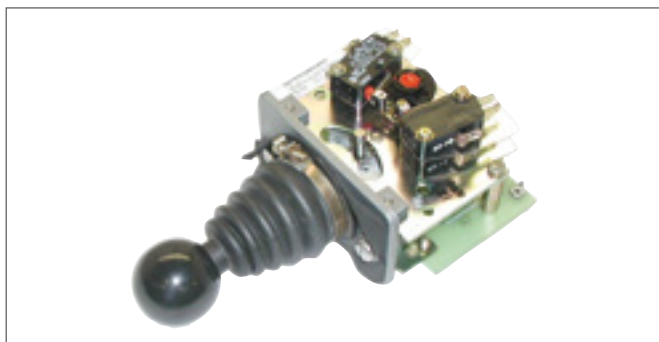
Used for Terex



Used for JLG



Used for Grove



Used for Kalmar



Used for Jungheinrich



Used for BT



Used for Mitsubishi



REF 115TA2861
BT - short level

REF 115TA2862
BT - long level

REF 115TA2860

Ask for: new, service exchange or reconditioned

Joysticks available for different applications.
Please specify truck or platform details.

Electrical control systems

Key switches

SUITABLE FOR TOYOTA 5, 6, 7, 8 SERIES



REF 110TA7812



REF 110TA7848



REF 140TA2223

SUITABLE FOR MITSUBISHI F18A, F18B, F18C



REF 110TA7720



REF 110TA7843



REF 140TA2224

SUITABLE FOR KOMATSU -10, -11, -12, -14, -16



REF 108TA4759



REF 110TA7793



REF 108TA4833



REF 128TA5781

SUITABLE FOR NISSAN H01, H02, J01, J02



REF 110TA7767



REF 110TA7886

For more references, please contact your TVH sales advisor

PROGRAMMABLE SECURITY LOCK PSL+

The PSL+™ Programmable Security Lock is an enhanced version of our familiar PSL™ product with several additional features. Like the original, this version is primarily designed for use with both battery and I.C. powered vehicles to prevent unauthorized operation of the vehicle. In addition, however, the PSL+ has expanded the PSL concept by incorporating several useful new functions.

REF 135TA3498

- 12-90 VDC
- Waterproof IP65
- Up to 99 different users/drivers.

Once installed, the PSL+ requires entry of a two-digit user number and valid four-digit access code before the vehicle can be operated. All user codes can be reprogrammed and unused user numbers can be temporarily disabled for additional security.

- 1 programmable supervisor code.

Even the supervisor's access code can be changed using the factory programmed reset code, linked to the serial number of your PSL+.

- Last user identification.

The PSL+ can identify to the supervisor the user number of the last user of a vehicle.

- Automatic shut-off after a preset period of vehicle inactivity.

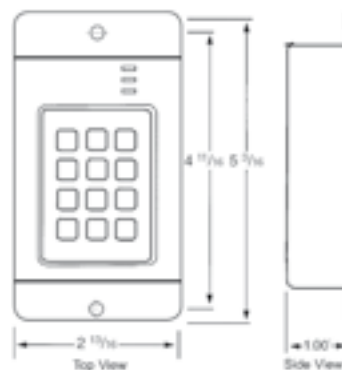
The PSL+ incorporates a feature that detects vehicle activity. If the vehicle has been inactive beyond a specified period of time, the PSL+ will deactivate, securing the vehicle. This feature can be activated or deactivated as desired.

- Maintenance alert after a preset number of hours.

The PSL+ can accumulate vehicle usage time and provide audible and visible signals indicating when vehicle maintenance is due. After maintenance is performed, the cycle can be reset as desired. This feature can be activated or deactivated by the supervisor.

- Accumulated time.

The PSL+ can accumulate total vehicle usage time. This accumulated time can be accessed through the supervisor code.



PSL+_{plus}
Programmable Security Lock

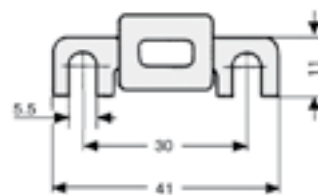


Electrical control systems

Ceramic fuses

STANDARD: DIN72581/2/SLOW

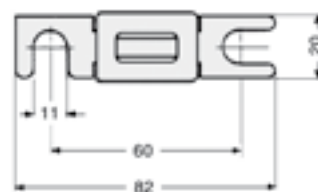
Amp	REF/50 pcs
30 A	127TA2008
40 A	127TA2009
50 A	127TA2010
60 A	127TA2011
70 A	127TA2012
80 A	127TA2013
100 A	127TA2014
120 A	127TA2015
125 A	127TA2016
150 A	127TA2017



1 REF = 1 box of 50 pieces!
Contact your sales advisor for the reference of one fuse.

STANDARD: DIN43560/1/FAST

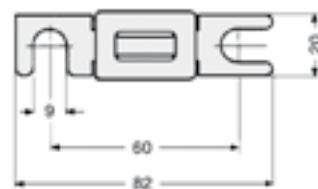
Amp	REF/50 pcs
35 A	127TA2018
40 A	127TA2019
50 A	127TA2020
63 A	127TA2021
80 A	127TA2022
100 A	127TA2023
125 A	127TA2024
130 A	129TA7705
135 A	127TA2025
150 A	127TA2026
160 A	127TA2027
175 A	127TA2028
200 A	127TA2029
225 A	127TA2030
250 A	127TA2031
275 A	127TA2032
300 A	127TA2033
325 A	127TA2034
355 A	127TA2035
400 A	127TA2036
425 A	127TA2037
500 A	127TA2038



1 REF = 1 box of 50 pieces!
Contact your sales advisor for the reference of one fuse.

STANDARD: DIN43560/1/FAST

Amp	REF/50 pcs
35 A	127TA2052
50 A	127TA2053
63 A	127TA2054
80 A	127TA2055
100 A	127TA2056
125 A	127TA2057
150 A	127TA2058
160 A	127TA2059
175 A	127TA2060
200 A	127TA2061
225 A	127TA2062
250 A	127TA2063
325 A	127TA2064
355 A	127TA2065
425 A	127TA2066
500 A	127TA2067



1 REF = 1 box of 50 pieces!
Contact your sales advisor for the reference of one fuse.

Amp = Current (Amps) • SPEED IND. = Speed indication (SLOW, MEDIUM, FAST) • EX. AGENT = Extinguishing agent (sand)

THERMAL FUNCTION ONLY – STANDARD: MED/RESET/FAST

Amp	REF/piece
5 A	123TA8306
10 A	123TA8308
15 A	123TA8309
20 A	123TA8310
30 A	123TA8312
Reset with push button	



FUSE KIT



REF 123TA8414

Per kit

	Qty	Amp
DIN 72581/med		
	10 x	5 A
	10 x	7,5 A
	50 x	10 A
	50 x	15 A
	25 x	20 A
	10 x	25 A
	25 x	30 A
DIN 41661/fast		
	25 x	2 A
	10 x	5 A

	Qty	Amp
DIN 72581/1		
	10 x	5 A
	50 x	8 A
	50 x	16 A
	10 x	25 A
DIN 41668/fast		
	25 x	10 A
	25 x	15 A
	15 x	20 A

Amp = Current (Amps) • SPEED IND. = Speed indication (SLOW, MEDIUM, FAST) • EX. AGENT = Extinguishing agent (sand)



	Qty	Amp
DIN 43560/1/fast (11 mm)		
	5 x	35 A
	5 x	40 A
	5 x	50 A
	5 x	63 A
	5 x	80 A
	5 x	100 A
	5 x	125 A
	5 x	150 A
	5 x	175 A
	5 x	200 A
	5 x	225 A
	5 x	250 A
	5 x	275 A
	5 x	325 A
	5 x	400 A
DIN 72561/2/slow		
	5 x	50 A
	5 x	80 A
	5 x	100 A
	5 x	150 A
	5 x	250 A

Amp = Current (Amps) • SPEED IND. = Speed indication (SLOW, MEDIUM, FAST) • EX. AGENT = Extinguishing agent (sand)

SW80

Volt	Remark	REF
Single pole – normal open – 100 A		
12 V	Int	106TA1516
12 V	Cont	106TA1517
24 V	Int	107TA1227
24 V	Int	111TA3501
24 V	Cont	106TA1521
36 V	Int	106TA1523
36 V	Cont	107TA1229

REF 103TA1545 – contact kit



SW88

Volt	Remark	REF
Change over – for motor reversing – 100 A		
12 V	Int	106TA1590
24 V	Int	107TA1266
24 V	Cont	106TA1842
36 V	Int	106TA1592
48 V	Int	106TA1594
48 V	Cont	107TA1393
72 V	Int	111TA3503
80 V	Int	106TA1595

REF 108TA7783 – contact kit



DC88

Volt	Remark	REF
Change over – monobloc for motor reversing – 100 A		
12 V	Int	107TA1346
24 V	Int	106TA1799

REF 110TA3639 – contact kit



SW180

Volt	Remark	REF
Single pole – normal open – 150 A		
12 V	Int	107TA1278
24 V	Int	106TA1631
24 V	Cont	107TA1281
36 V	Int	106TA1635
36 V	Cont	107TA1282
48 V	Int	106TA1637
48 V	Cont	106TA1638

REF 108TA8231 – contact kit



Electrical control systems

Contactors and contact kits

SW182

Volt	Remark	REF
For motor reversing – change over – 150 A		
12 V	Int	107TA1296
24 V	Int	107TA1297
24 V	Int; aux switch	106TA1713
24 V	Cont	107TA1300
36 V	Int	107TA1301
REF 110TA3573 – contact kit		



DC182

Volt	Remark	REF
Change over – monobloc for motor reversing – 150 A		
12 V	Int	111TA3520
24 V	Int	106TA1812
24 V	Cont; dust covers	107TA1359
REF 110TA3635 – contact kit		



SW200

Volt	Remark	REF
Single pole – normal open – 250 A		
12 V	Cont	106TA1721
24 V	Int	107TA1317
24 V	Cont	106TA1723
24 V	Cont; aux switch	107TA1331
36 V	Int	106TA1724
36 V	Int; aux switch	106TA1751
36/48 V	Cont	111TA3523
48 V	Int	106TA1727
48 V	Int; aux switch	106TA1752
48 V	Cont	107TA1320
72 V	Int	106TA1734
72 V	Int; aux switch	106TA1753
72 V	Cont	106TA1919
72/80 V	Int; aux switch	106TA1754
72/80 V	Po; aux switch	107TA1332
80 V	Int	107TA1324
80 V	Cont	107TA1327
96 V	Cont; closed cover	107TA1329
REF 110TA3633 – contact kit		



CONTACT

REF 108TA6965

- Type: Meiden MY
- Tip size: Ø 10 mm
- Width: 14,7 mm
- Length: 58,8 mm
- Number of tips: 2



CONTACT

REF 108TA6967

- Type: Meiden MY
- Tip size: Ø 10 mm
- Width: 15 mm
- Length: 37,5 mm
- Number of tips: 1



CONTACT

REF 108TA6975

- Type: Meiden MY
- Tip size: Ø 9,5 mm
- Length: 29,5 mm
- Number of tips: 1



CONTACT

REF 110TA8410

- Type: Meiden MA11M
- Tip size: Ø 10 mm
- Length: 36 mm
- Number of tips: 1



CONTACT

REF 110TA8409

- Type: Meiden MA11M
- Tip size: Ø 10 mm
- Width: 15 mm
- Length: 61,5 mm
- Number of tips: 2



CONTACT

REF 110TA8408

- Type: Meiden MA11M,20M
- Tip size: Ø 10 mm
- Width: 15 mm
- Length: 36 mm
- Number of tips: 1



CONTACT

REF 110TA8413

- Type: Meiden MA20M
- Tip size: Ø 10 mm
- Length: 61,5 mm
- Number of tips: 1



CONTACT

REF 110TA8411

- Type: Meiden MA22M
- Width: 15 mm
- Length: 36 mm
- Number of tips: 1



CONTACT

REF 110TA8412

- Type: Meiden MA22M
- Tip size: 10 x 15 mm
- Width: 15 mm
- Length: 61,5 mm
- Number of tips: 1



CONTACT

REF 110TA8506

- Type: Meiden ME251
- Tip size: 10 x 15 mm
- Width: 14,4 mm
- Length: 61,8 mm
- Number of tips: 1



CONTACT

REF 110TA8508

- Type: Meiden ME251
- Tip size: 10 x 15 mm
- Width: 16 mm
- Length: 53 mm
- Number of tips: 1



CONTACT

REF 110TA8436

- Type: Meiden MZ14
- Tip size: 10 x 15 mm
- Width: 15,4 mm
- Length: 51 mm
- Number of tips: 1



CONTACT

REF 110TA8469

- Type: Meiden MZ14A
- Tip size: 10 x 14,5 mm
- Width: 15 mm
- Length: 71,8 mm
- Number of tips: 2



CONTACT

REF 108TA6020

- Type: Kyoritsu Keiki PN18A
- Tip size: Ø 12 mm
- Width: 25 mm
- Length: 80 mm
- Number of tips: 1



CONTACT

REF 108TA6067

- Type: Kyoritsu Keiki PN18A
- Tip size: Ø 12 mm
- Width: 25,3 mm
- Length: 64,6 mm
- Number of tips: 2



CONTACT

REF 108TA7150

- Type: Kyoritsu Keiki PN18A
- Tip size: Ø 12 mm
- Width: 25 mm
- Length: 80 mm
- Number of tips: 1



CONTACT

REF 108TA6880

- Type: NYK MS34
- Tip size: Ø 9,5 mm
- Width: 14 mm
- Length: 112 mm
- Number of tips: 2



CONTACT

REF 106TA2377

- Type: NYK MS34
- Tip size: Ø 9,5 mm
- Width: 15 mm
- Length: 33 mm
- Number of tips: 1



CONTACT

REF 106TA2376

- Type: NYK MS34
- Tip size: Ø 9,5 mm
- Width: 15 mm
- Length: 59 mm
- Number of tips: 1



CONTACT

REF 106TA2375

- Type: NYK MS34
- Tip size: Ø 9,5 mm
- Width: 15 mm
- Length: 59 mm
- Number of tips: 2



CONTACT

REF 108TA6789

- Type: NYK MS44
- Tip size: Ø 11 mm
- Width: 15 mm
- Length: 40 mm
- Number of tips: 1



CONTACT

REF 108TA5815

- Type: NYK MS44
- Tip size: Ø 11 mm
- Width: 15 mm
- Length: 54,3 mm
- Number of tips: 1



CONTACT

REF 108TA6813

- Type: NYK MS44
- Tip size: Ø 11 mm
- Width: 15 mm
- Length: 127 mm
- Number of tips: 2



CONTACT

REF 108TA6806

- Type: NYK MS44
- Tip size: Ø 11 mm
- Width: 15 mm
- Length: 75 mm
- Number of tips: 1



CONTACT

REF 108TA6797

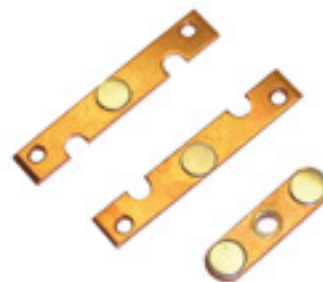
- Type: NYK MS44
- Tip size: Ø 11 mm
- Width: 15 mm
- Length: 75 mm
- Number of tips: 2



CONTACT KIT

REF 111TA3728

- Type: HITACHI SPNO
- Tip size: Ø 16 mm
- Number of tips: 4



CONTACT KIT

REF 111TA3716

- Type: MEIDEN-MA11
- Largest tip size: Ø 10 mm
- Number of tips: 4



CONTACT KIT

REF 123TA1944

- Type: MEIDEN-ME250
- Largest tip size: Ø 10 mm
- Number of tips: 4



CONTACT KIT

REF 116TA6991

- Type: MEIDEN-MY
- Largest tip size: Ø 10 mm
- Number of tips: 4



Order your free copy of
the Contactors & contacts
catalogue: REF 10185471



XENON STROBE LIGHT



REF 105TA4867

- 12-110 VDC
- Colour: amber
- Flash tube included
- Nominal power: ± 3 W

REF 106TA9216

Replacement flash tube

ACCESSORIES



1. **REF 106TA9109**
Mounting bracket
2. **REF 106TA9110**
Protection guard
3. **REF 107TA9512**
3/4" pipe base kit

4. **REF 106TA9112**
Mounting bracket yellow
5. **REF 106TA9171**
Protection guard
6. **REF 131TA8884**
Mounting bracket

LED STROBE LIGHT



REF 139TA5948

- 12-80 VDC
- Colour: amber
- With 3 pcs LED (± 3 W)

REPLACEMENT LENS



- REF 106TA9113**
Amber lens
- REF 106TA9116**
Green lens
- REF 106TA9115**
Clear lens

- REF 106TA9117**
Red lens
- REF 106TA9114**
Blue lens

ECONOMY STROBE LIGHT



REF 103TA3015

- 12-80 VDC
- Colour: amber
- Nominal power: 2 Joule
- Flash tube included

REF 127TA1040

Replacement flash tube

LED STROBE LIGHT



REF 123TA1991

- 12-80 V
- Colour: amber
- Microprocessor-controlled
- Current draw: 0,1 A
- Epoxy-filled base

Electrical equipment

Head lamps

HEAD LAMP USED FOR TOYOTA



REF 134TA2536 – 48 V
REF 131TA8905 – Replacement lens

HEAD LAMP USED FOR KOMATSU



REF 106TA1378 – 12 V
REF 107TA1173 – Replacement lens

HEAD LAMP



REF 139TA5954
 - 12 V

UNIVERSAL ROUND HEAD LAMP

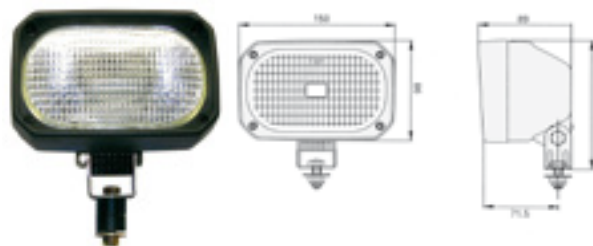


REF 106TA1372
 - 12 V
 - With bulb

UNIVERSAL RECTANGULAR HEAD LAMP

REF 105TA4884
 - 12 V
 - Supplied without bulb

REF 123TA8007 – Bulb H3 12 V, 55 W
REF 123TA8008 – Bulb H3 24 V, 70 W
REF 123TA8009 – Bulb H3 36 V, 45 W
REF 123TA8010 – Bulb H3 48 V, 45 W
REF 103TA4675 – Bulb H3 80 V, 55 W



HEAD LAMP USED FOR TOYOTA 7 SERIES OLD MODEL



REF 134TA2548
 - 12 V
 - With 3-pin and 2-pin connector
 - Left-hand side



REF 134TA2547
 - 12 V
 - With 3-pin and 2-pin connector
 - Right-hand side

HEAD LAMP USED FOR TOYOTA 7 SERIES NEW MODEL



REF 140TA2242

- 12 V
- Left-hand side



REF 140TA2219

- 12 V
- Right-hand side

HEAD LAMP USED FOR TOYOTA 8-SERIES



REF 134TA2550

- 12 V
- Left-hand side

REF 134TA2551 – Amber replacement lens

REF 134TA2552 – Clear replacement lens



REF 134TA2549

- 12 V
- Right-hand side

REF 134TA2551 – Amber replacement lens

REF 134TA2552 – Clear replacement lens

LED WORKLIGHT



REF 131TA8900

Round LED light 12-48 V

REF 141TA7048

Round LED light 12-80 V



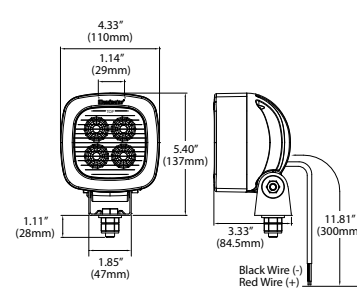
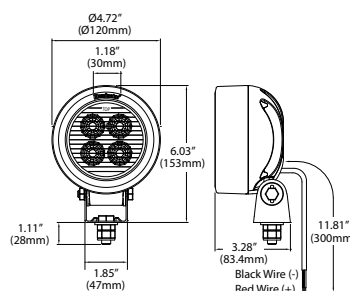
REF 131TA8901

Square LED light 12-48 V

REF 141TA7047

Square LED light 12-80 V

- Polymer front housing and die coating aluminium rear housing
- Clear PC (polycarbonate) lens
- IP56
- Versatile M12 single-bolt mounting system
- LED: 4 pieces of 3 W high-powered LED
- Light output: 450 lumen
- Current draw: 0,9 A at 12 V/0,3 A at 48 V
- Watt: 8,5 W
- Operating temperature: -20 °C to 60 °C



Electrical equipment

LED work lights

LED WORK LIGHT

REF 140TA8786

- 9-32 V
- Aluminium housing
- Lens: plastic
- IP67 rated
- LED: 6 pieces
- Light output: 1080 lumen
- Diameter: 105,5 mm



LED WORK LIGHT

REF 141TA1474

- 9-32 V
- Aluminium housing
- Lens: plastic
- IP67 rated
- LED: 5 pieces
- Light output: 1150 lumen
- Dimensions (L x W x H): 109,2 x 125 x 42,7 mm



LED WORK LIGHT

REF 141TA7052 – Flood beam REF 141TA7053 – Spot beam

- 9-32 V
- 27 W
- LED: 9 pieces
- Light output: 1950 lumen
- Aluminium housing
- Lens: plastic
- 4-point bracket included
- Diameter: 116 mm



LED WORK LIGHT

REF 141TA7079 – Flood beam REF 141TA7078 – Spot beam

- 9-32 V
- 27 W
- LED: 9 pieces
- Light output: 1950 lumen
- Aluminium housing
- Lens: plastic
- 4-point bracket included
- Dimensions (L x W x H): 127 x 109 x 61 mm



BLUE SAFETY LIGHT

REF 140TA2243

- 12-48 V
- Visual driving path warning device
- Projects a blue spot onto the floor a few meters ahead in the direction of travel
- Consists of two energy-efficient, very bright and long-lasting LED lights
- To be mounted to the top of the cab
- Back-up alarm with light instead of sound
- IP67



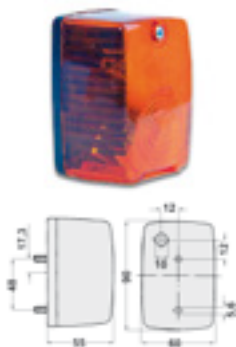
INDICATOR LIGHT

REF 106TA1273 – Left-hand side supplied without bulbs
REF 131TA8902 – Replacement lens

REF 105TA4888 – Right-hand side supplied without bulbs
REF 131TA8903 – Replacement lens

REF 100TA2215 – Bulb 12 V/21 W
REF 103TA4603 – Bulb 24 V/21 W

Lamp type: directional indicator light, in plastic housing



DIRECTIONAL INDICATOR



Used for Fiat

REF 107TA1175 – Supplied without bulb
REF 103TA4554 – Bulb 12 V/3 W
REF 103TA4556 – Bulb 24 V/3 W

INDICATOR LIGHT



Used for Toyota

REF 105TA4891 – 12 V
REF 106TA1339 – 24 V
REF 106TA1340 – 48 V
REF 106TA1341 – Replacement lens

DIRECTIONAL INDICATOR



Used for Toyota

REF 106TA1370 – 12 V
REF 106TA1367 – 24 V
REF 106TA1368 – 36 V
REF 107TA1171 – 48 V
REF 106TA1366 – Replacement lens

INDICATOR LIGHT



Used for Komatsu

REF 105TA4895 – 12 V
REF 106TA1325 – 24 V
REF 106TA1326 – 48 V
REF 106TA1327 – Replacement lens front
REF 106TA1328 – Replacement lens rear

INDICATOR LIGHT



Used for Nissan, Komatsu, TCM, Toyota

REF 106TA1364 – 12 V
REF 106TA1332 – 24 V
REF 106TA1333 – Replacement lens front
REF 106TA1365 – Replacement lens rear

FRONT COMBINATION LIGHT



Used for Mitsubishi

REF 122TA7551 – 12 V
REF 131TA8911 – 24 V
REF 134TA2570 – 48 V
 - With 3-pin connector
REF 122TA7707 – Replacement lens

INDICATOR LIGHT



Used for Nissan

REF 106TA1403
 - 12 V
 - With 3 separate terminals
REF 134TA3716 – Replacement lens kit

FRONT COMBINATION LIGHT



Used for Hyster

REF 134TA2571
 Supplied without bulbs
REF 100TA2215 – Bulb 12 V/21 W
REF 103TA4585 – Bulb 12 V/5 W
REF 103TA4603 – Bulb 24 V/21 W
REF 103TA4587 – Bulb 24 V/5 W
REF 134TA2572 – Replacement lens

FRONT COMBINATION LIGHT



Used for Still

REF 106TA1400
 Supplied without bulbs
REF 100TA2215 – Bulb 12 V/21 W
REF 103TA4537 – Bulb 12 V/5 W
REF 103TA4603 – Bulb 24 V/21 W
REF 103TA4539 – Bulb 24 V/5 W
REF 134TA2573 – Replacement lens

Electrical equipment

Tail lamps

REAR COMBINATION LIGHT USED FOR TOYOTA



REF 106TA1381 – 12 V
REF 107TA1174 – Amber replacement lens
REF 106TA1380 – Clear replacement lens
REF 106TA1383 – Red replacement lens

REAR COMBINATION LIGHT USED FOR TOYOTA



REF 106TA1384 – 12 V
REF 106TA1385 – 24 V
REF 106TA1386 – 36 V
REF 106TA1387 – 48 V
REF 106TA1388 – Replacement lens

REAR COMBINATION LIGHT USED FOR TOYOTA 7-SERIES



Left-hand side
REF 134TA2560 – 12 V
REF 134TA2561 – 48 V
 - Light grey housing

REF 126TA5982 – Amber replacement lens
REF 126TA5981 – Red replacement lens



Right-hand side
REF 134TA2558 – 12 V
REF 134TA2559 – 48 V
 - Light grey housing

REF 126TA5982 – Amber replacement lens
REF 126TA5983 – Clear replacement lens
REF 126TA5981 – Red replacement lens

REAR COMBINATION LIGHT USED FOR TOYOTA 8-SERIES



Left-hand side
REF 134TA2565 – 12 V
 Dark grey housing

REF 126TA5982 – Amber replacement lens
REF 126TA5981 – Red replacement lens



Right-hand side
REF 134TA2564 – 12 V
 Dark grey housing

REF 126TA5982 – Amber replacement lens
REF 126TA5983 – Clear replacement lens
REF 126TA5981 – Red replacement lens

REAR LIGHT USED FOR NISSAN



REF 126TA5984 – 12 V
REF 126TA5985 – Replacement lens

REAR LIGHT USED FOR NISSAN



REF 106TA1392 – 12 V, wire length: 770 mm
REF 106TA1390 – 12 V, wire length: 1300 mm
REF 131TA8906 – 24 V
REF 106TA1393 – 36 V
REF 131TA8908 – 48 V, wire length: 800 mm
REF 106TA1394 – 48 V, wire length: 1050 mm
REF 106TA1391 – Replacement lens

REAR LIGHT USED FOR TCM, NISSAN



REF 105TA4890 – 12 V
REF 106TA1342 – 24 V
REF 106TA1343 – 48 V
REF 106TA1344 – Replacement lens

REAR LIGHT USED FOR TCM



REF 134TA2566 – 12 V
REF 134TA2567 – 24 V
REF 134TA2568 – 48 V
REF 134TA2569 – Replacement lens

REAR AND INDICATOR LIGHT USED FOR KOMATSU



REF 105TA4894 – 12 V
REF 106TA1329 – 24 V
REF 106TA1330 – 48 V
REF 106TA1331 – Replacement lens

REAR AND INDICATOR LIGHT USED FOR KOMATSU



REF 105TA4892 – 12 V
REF 106TA1335 – 24 V
REF 106TA1336 – 48 V
REF 106TA1337 – Clear replacement lens
REF 106TA1338 – Red replacement lens

REAR COMBINATION LIGHT USED FOR MITSUBISHI



REF 122TA7553 – 12 V
REF 122TA7550 – 24 V
REF 122TA7555 – 48 V
REF 122TA7554 – Replacement lens

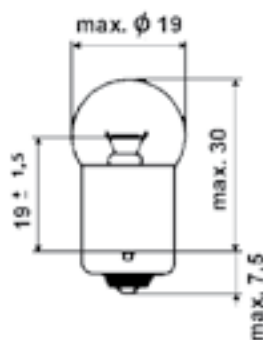
REAR LAMP USED FOR LINDE, STILL



REF 107TA1176 – 12 V
REF 131TA8909 – 24 V
REF 131TA8910 – Replacement lens

Bulbs

TYPE B31

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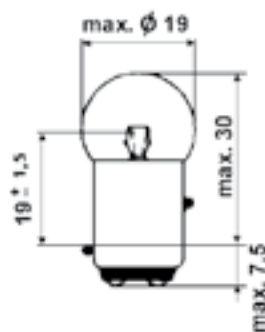
Type: B 31

Fitting



BA15 s

TYPE B34

[illegible]

Type: B 34

Fitting

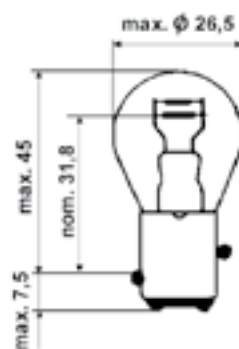


BAY15 d

BA15 sBA15 d

Bulbs

TYPE B53

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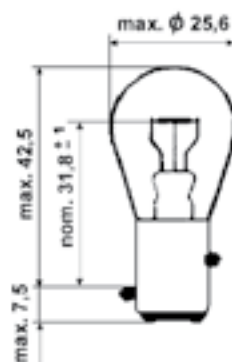
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Fitting



BAY15 d

TYPE B55

[illegible]

Type: B 55

Fitting

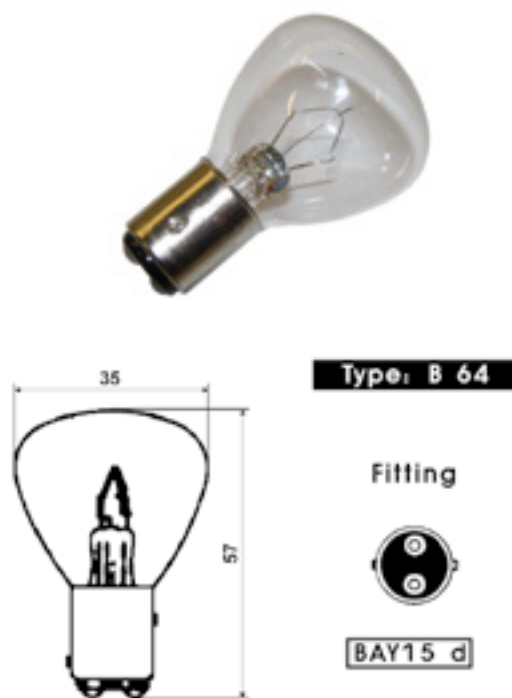


BAY15 d

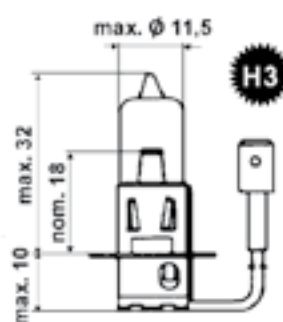
TYPE B61

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TYPE B64

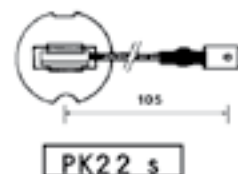
[illegible]

Volt	Watt	REF
Standard off-road		
12 V	55 W	103TA4525
24 V	35 W	131TA4799
24 V	55 W	119TA8933
24 V	70 W	103TA4526
36 V	35 W	131TA4800
36 V	45 W	103TA4673
48 V	35 W	131TA4801
48 V	45 W	103TA4674
48 V	60 W	106TA4903
E-approved on-road		
6 V	25 W	119TA8931
6 V	55 W	119TA8932
12 V	35 W	141TA9695
12 V	55 W	123TA8007
24 V	70 W	123TA8008
36 V	45 W	123TA8009
48 V	45 W	123TA8010
48 V	60 W	123TA8011
80 V	55 W	103TA4675



Type: H 31

Fitting



Order your free copy of the Bulbs catalogue: REF 9103419



HORN

REF 106TA1411

- Volume: 110 dB
- Diameter: 110 mm
- 12 V
- 2 terminals
- L-mount and S-mount
- Brackets included



HORN

REF 106TA1410

- Volume: 112 dB
- Diameter: 90 mm
- Working temperature: -30 °C to 85 °C
- 36-48 V; < 1 A
- 2 terminals



HORN

REF 105TA4659

- Volume: 110 dB
- Diameter: 125 mm
- 36 V; 1,5 A
- 2 terminals



REARVIEW MIRROR



REF 107TA7857

- Glass/rectangular shape
- With mounting bracket M8
- Dimensions: 220 x 130 mm

REARVIEW MIRROR



REF 105TA4842

- Universal application
- Panoramic view 180°
- Shock-resistant (plastic housing + acryl)
- Ball joint adjustable in height
- Dimensions: 275 x 140 mm

Electrical equipment

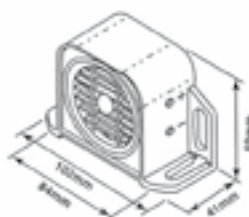
Back-up alarms

SAFE-T-ALERT 2000 SERIES



REF 105TA4575

- 12-80 V
- 97 dB



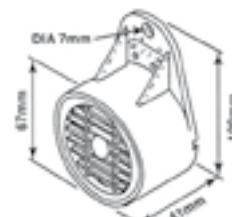
SAFE-T-ALERT®

SAFE-T-ALERT 2500 SERIES



REF 141TA7635

- 12-48 V
- 97 dB



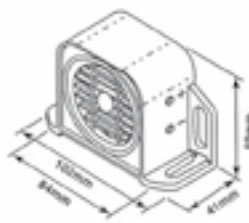
SAFE-T-ALERT®

BACK-UP ALARM



REF 134TA9470

- 12-24 V
- 102 dB
- Only sold outside the USA



BACK-UP ALARM



REF 134TA9500

- 36-48 V
- 85 dB

BACK-UP ALARM



REF 134TA9498

- 12-48 V
- 85 dB
- Wire ends: pin terminals

BACK-UP ALARM



REF 115TA1847

- Back-up alarm with LED: 10-100 V
- 100 dB

BACK-UP ALARM

Voltage	Volume	REF
12 V	87 dB	115TA6972
24 V	97 dB	123TA2015

The combined bleeper and light is as easy to install as changing a light bulb, giving the added safety of a reversing bleeper without the time, complication and cost of wiring and fitting. Simply replace one of your existing reversing bulbs.



ANALOGUE HOUR METER

REF 106TA1473

- 12-80 VDC
- Diameter: 52 mm
- 9999,9 hours
- Quartz
- Very easy to fit
- +- connection

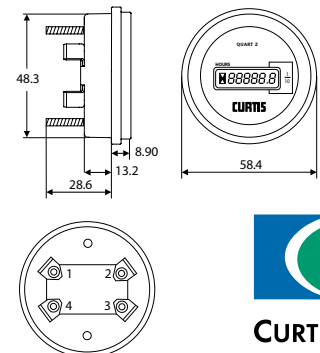


DIGITAL HOUR METER

REF 107TA1208 12-48 VDC

REF 106TA1478 48-150 VDC

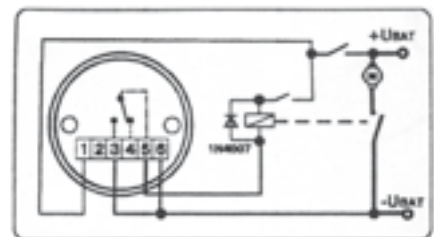
- Diameter: 52 mm
- 99 999,9 hours
- LCD-display
- Pin 1 +, Pin 2 -, Pin 3 I



BATTERY DISCHARGE INDICATOR/CONTROLLER

- REF 123TA7754 - 12 V
- REF 107TA1046 - 24 V
- REF 107TA1047 - 36 V
- REF 107TA1048 - 40 V
- REF 107TA1049 - 48 V
- REF 107TA1050 - 72 V
- REF 107TA1051 - 80 V

- Diameter: 52 mm
- With lock-out



BATTERY DISCHARGE INDICATOR

REF 106TA1141

- 24 V and 48 V
- Diameter: 52 mm
- With lock-out
- Curtis 803 series



BATTERY DISCHARGE INDICATOR

REF 106TA1135

- 24 V
- Diameter: 52 mm
- Without lock-out



Electrical equipment

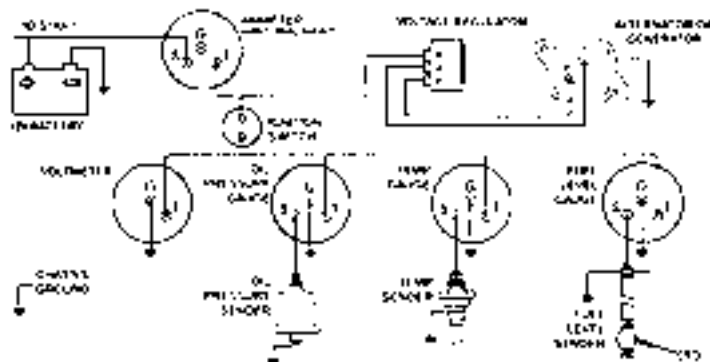
Universal gauges

NEW
in SPC 2

GAUGES UNIVERSAL 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	106TA2795
2	Temperature sender	-40 °C to 120 °C, 100 °F to 250 °F, 1/8-27 NPT	106TA2796
3	Oil pressure gauge	Electrical 2-1/16", diameter: 52 mm, 90° sweep, 12 V 0-100 PSI/0-7 kg/cm ² wiring: I = ignition (+), G = ground (-), S = sensor	107TA1671
4A	Pressure sender	100 PSI, 1/8 - 27 NPT (1 contact)	106TA2798
4B	Pressure sender	100 PSI, 1/8 - 27 NPT (2 contacts)	107TA1672
	Voltage reducer	For conversion of the above 12 V gauges to 24 V system wiring = between I and 24 VDC system	115TA1852
5	Voltage meter	Electrical 2-1/16", diameter: 52 mm, 90° sweep 12 V system, range 10-16 V	106TA2799
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	141TA1321 106TA2801 107TA1673 107TA1674 106TA2804 107TA1675 106TA2806 107TA1676 107TA1677 107TA1678
7	Ampere meter	60 - 0 - 60 A, diameter: 52 mm	111TA6189
8	Ampere meter	30 - 0 - 30 A, diameter: 52 mm	111TA6190



NEW
in SPC 2

UNIVERSAL FUEL LEVEL INDICATION SET 12 VDC

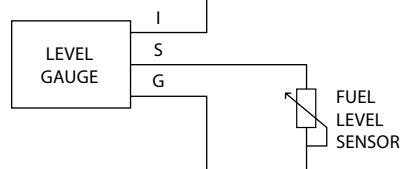
REF 135TA9787

Complete kit (gauge and fuel level sender)

Gauge



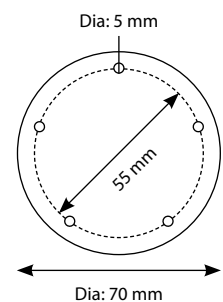
+ IGNITION (12 V)



REF 123TA7757

- Diameter: 52 mm

Fuel level sender



REF 123TA7758

Can be adapted to any type of fuel tank

- All controllers are thoroughly load tested
- We give a 6-month warranty on all new, reconditioned and service exchange parts
- Since 2009, TVH is appointed as Authorized distributor for CURTIS 
- Authorized European Service & Repair centre
- We also repair:
 - Joysticks/displays/accelerators
 - HF-chargers
 - Electronic parts for aerial work platforms



FOOT PEDAL



REF 115TA2854

- Potentiometer throttle type - 0 to 5 K
- With two adjustable microswitches (max 10 A at 30 VDC)



CURTIS

ACCELERATOR



REF 115TA3862

- Right-hand operation
- With microswitch



CURTIS

CONTROLLER



REF 140TA2244

- 36/48 V
- 450 A



CURTIS

PMC CONTROLLER



REF 141TA9694

- 36/48 V
- 450 A



CURTIS

NEW
in SPC 2

CURTIS HANDHELD PROGRAMMER

REF 141TA7779

The Curtis Model 1313 handheld programmer is a powerful and intuitive programming and diagnostic tool. Model 1313 enables parameter files to be created and edited online or offline, transferred to another controller for cloning, or saved onto a PC or SD card. Rental of programmer is possible, please contact us.

Features

- Large high-resolution colour display
- Backlight for easy viewing in low-light environments
- Cloning feature and 64 MB internal memory allows multiple parameter files to be stored in the Handheld Programmer making it easy to transfer settings to other vehicles
- Advanced troubleshooting capabilities
- Multiple language support includes English, German, Spanish, French & Italian

Application

The Model 1313 performs comprehensive programming and troubleshooting tasks for all vehicles that use Curtis programmable motor controllers or control systems.



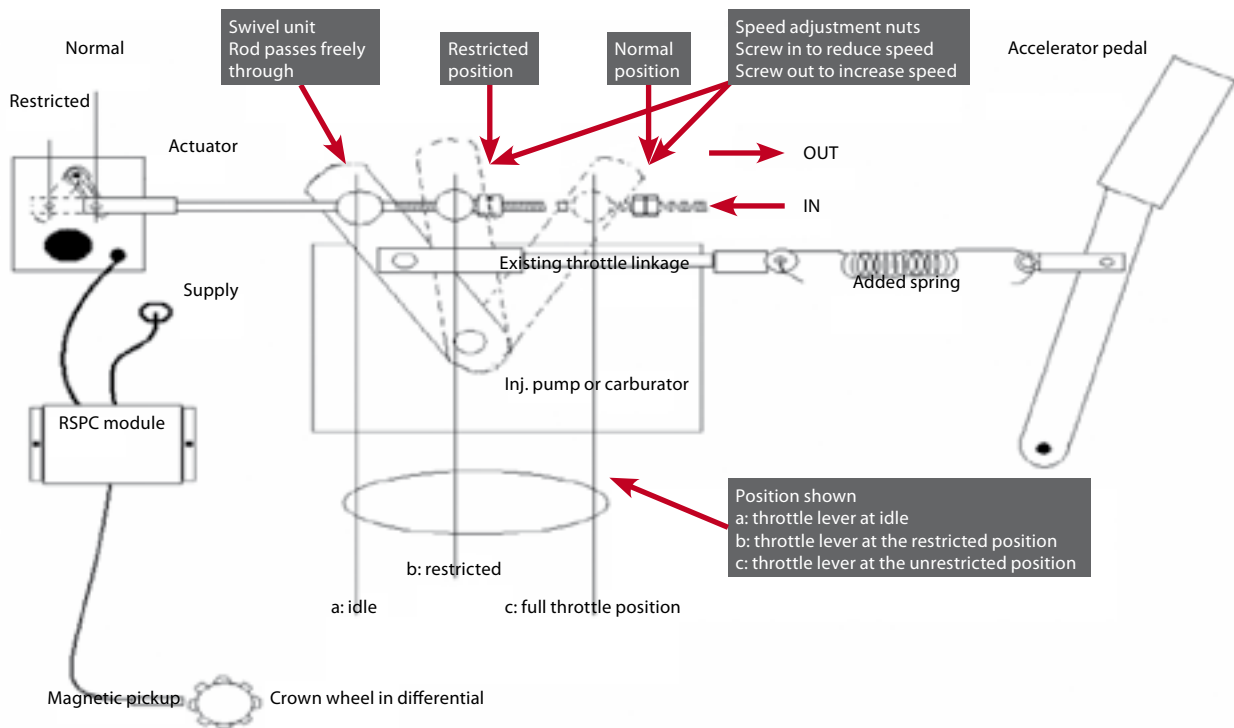
Our speed limiters prevent the forklift operator from exceeding a preset speed limit. We can offer different kits depending on your type of forklift.

Key benefits:

- Limits travel speed of vehicle.
- Easy installation.
- Fully adjustable, does not affect hydraulic lifting performance.
- Suitable for gas/diesel torque flow converter forklift trucks.
- Advised for forklift truck operating areas that have pedestrian access.
- Adjustable in speed.
- Works in forward and reverse.
- Site safety is increased.
- Fuel consumption is reduced.
- Forklift tyre savings.
- Engine noise level output is reduced.
- Reduced insurance premiums can be made.



Basic operation of the speed limiter



Type 1: speed limiter for mechanical throttle

Choose your electronic kit depending on the voltage of your truck and bracket/linkage kit depending on the specific truck type.

Complete speed limiter: electronic kit + bracket/linkage kit

Electronic kits

REF 135TA3422 – 12 V

REF 135TA3423 – 24 V

Bracket and linkage kits: see next page

For other truck types we can offer our generic kits:

REF 135TA3491 – Electronic kit 12 V + standard bracket kit*

REF 135TA3492 – Electronic kit 24 V + standard bracket kit*

*Depending on the truck type, you will need to adjust/make brackets for proper installation.

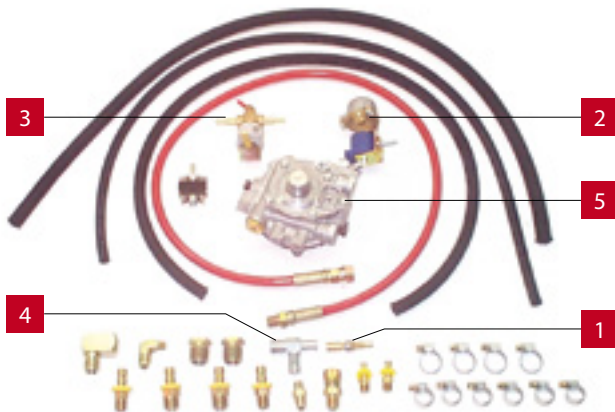
UNIVERSAL LPG CONVERSION KIT

This is a conversion kit for petrol/lpg.

The kit can be fitted on all brands of forklifts (A): up to 60 HP and (B): up to 120 HP.

Includes an injector (1) that must be mounted in the middle of the venturi in the carburetor.

The injector has a thread size of M8x1.5. This kit also includes: LPG lock-off (2), petrol lock-off (3), flow regulator (4), regulator (5), all the hoses and all the fittings to mount the kit easily.



REF 106TA2858

(A) = conversion kit: LPG and petrol < 60 HP

REF 106TA6817

Regulator 60



REF 106TA2859

(B) = conversion kit: LPG and petrol < 120 HP

REF 107TA9102

Regulator 120

COBRA CONVERTER



REF 107TA1732

- Outlet pressure: -370 Pa



REPAIR KIT



REF 107TA1730

- Repair kit for Cobra REF 107TA1732



REGULATOR MODEL E



REF 107TA9160



REPAIR KIT FOR MODEL E



REF 107TA9161



REGULATOR MODEL LB



REF 107TA9162

REPAIR KIT FOR MODEL LB



REF 107TA9163

VACUUM FUEL LOCK-OFF FILTER



REF 105TA4822
- Model VFF30

REPAIR KIT



REF 105TA4823
- Repair kit for VFF30

CARBURATOR



REF 105TA4827
- Model CA50 – CA55
- Used for 4Y-5K TOYOTA

CARBURATOR



REF 107TA1734
- Model CA50 – CA55
- Used for engine H20-II/H25

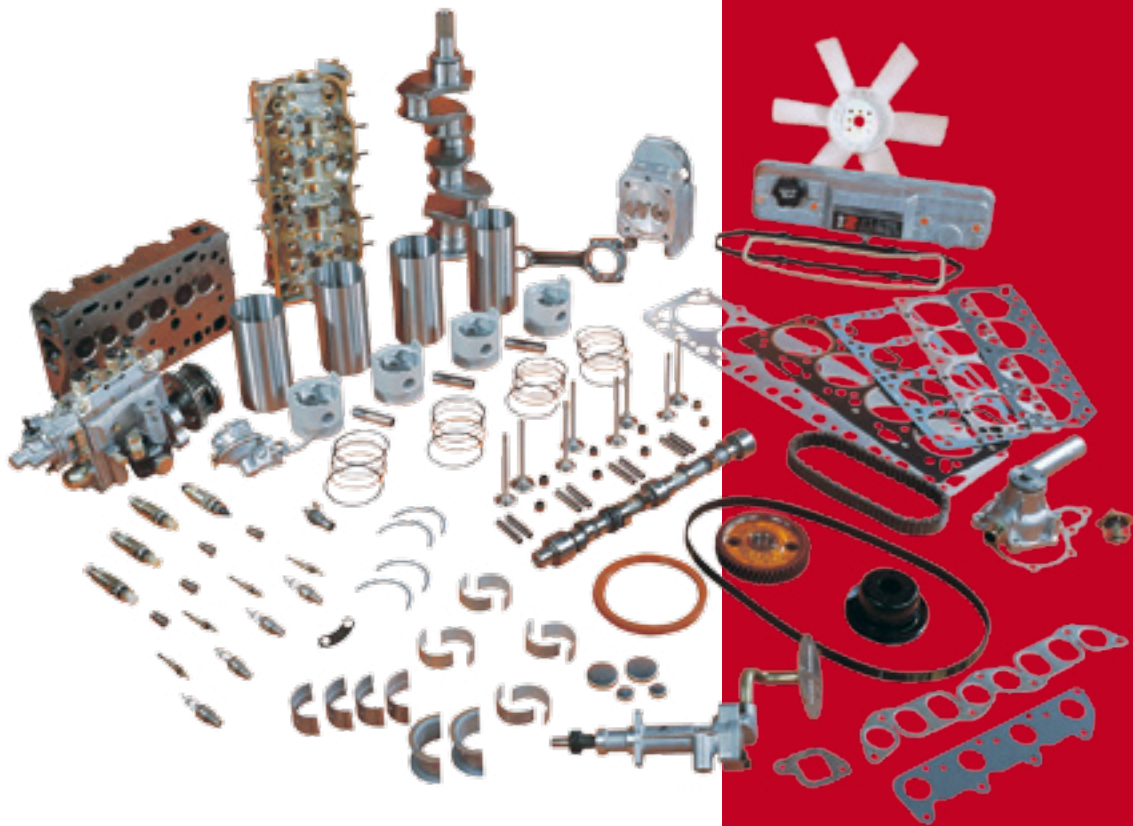
VALVE



REF 105TA4828
- Lock-off valve + filter 12 V

Order your free copy of the
LPG system parts catalogue:
REF 12410757

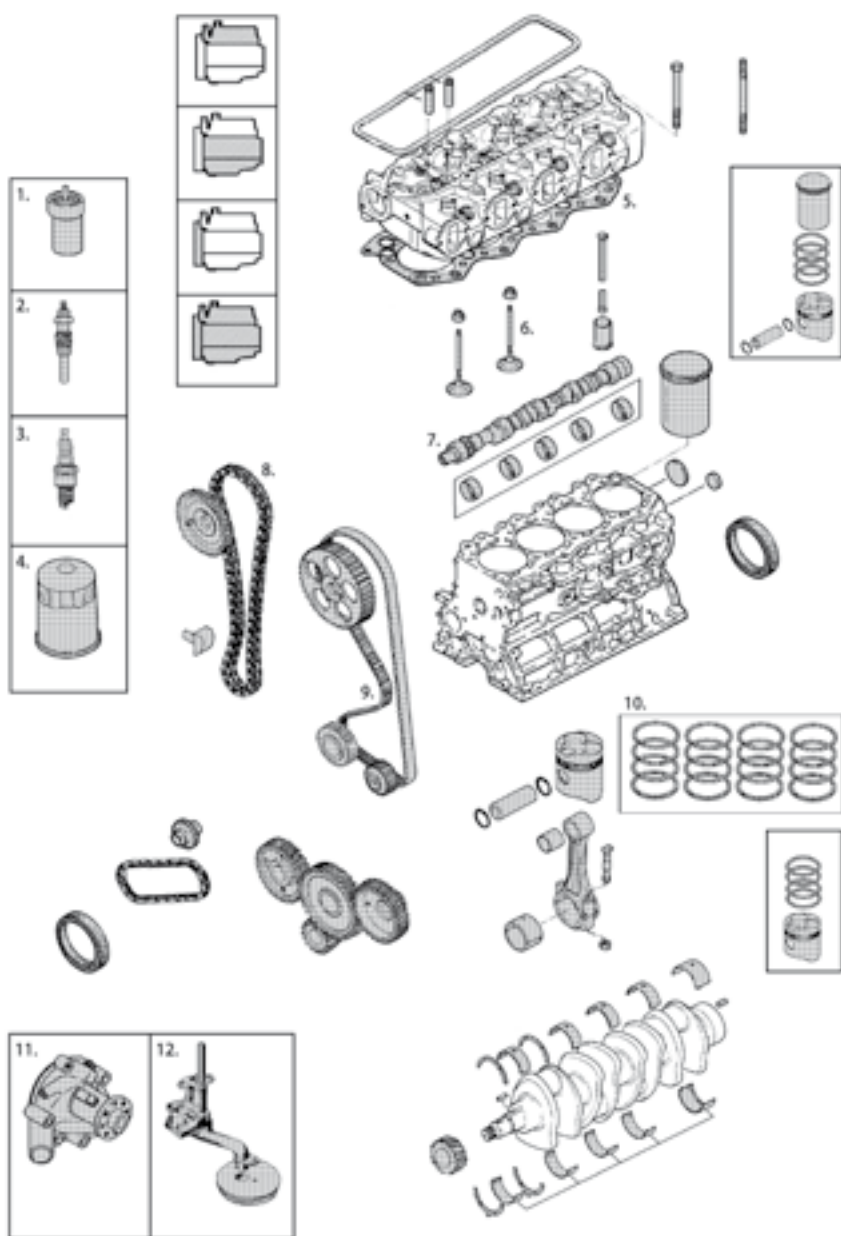




- CATERPILLAR
- CHRYSLER
- CONTINENTAL
- CUMMINS
- DETROIT • DEUTZ
- FIAT • FORD • GM
- ISUZU • KOMATSU
- KUBOTA • MAZDA
- MERCEDES
- MITSUBISHI
- NISSAN • PERKINS
- PEUGEOT
- RENAULT
- TOYOTA
- VOLKSWAGEN
- VOLVO
- WAUKESHA
- YANMAR

Order your free copy of the Engine parts catalogue: REF 20177485

ENGINE PARTS BREAK DOWN DIAGRAM



AL	Thrust washer set
AS	Sleeve assy. (piston, rings, sleeve)
BB	Bolt, connecting rod
BL	Bearing set, connecting rod
BM	Nut, connecting rod
BO	Spark plug
BP	Gasket kit, valve regrind
CB	Bolt, cylinder head
CG	Stud, cylinder head
CH	Sleeve
CP	Gasket kit, bottom
DK	Chain, timing
DP	Gasket kit, distribution
DR	Belt, timing
GB	Glow plug
HK	Chain, hydraulic pump drive
HL	Main bearing set
HT	Gear, hydraulic pump drive
IG	Guide, intake valve
IK	Intake valve
IT	Nozzle
JC	Gasket, cylinder head
KA	Valve seal
KD	Gasket, cylinder head cover
KG	Guide, intake/exhaust valve
KP	Overhaul gasket kit
KS	Tappet, valve
KT	Gear, crankshaft
NA	Camshaft
NL	Camshaft bearing set
NT	Gear, camshaft
OF	Oil filter
OK	Chain, oil pump drive
OP	Oil pump
PB	Bush, piston pin
PC	Retaining ring, piston pin
PI	Piston (with/without pin)
PISE	Piston (with/without pin)+ring set
PP	Piston pin
RO	Repair kit, oil pump
RW	Repair kit, water pump
SA	Oil seal crankshaft, rear
SE	Ring set
SK	Chain tensioner
SV	Oil seal crankshaft, front
TT	Gear idle
UG	Guide, exhaust valve
UK	Valve, exhaust
VP	Kit expansion plugs
WP	Water pump

ENGINE TYPES

CATERPILLAR

- 1404

CONTINENTAL

- F135
- F163
- F227
- F245
- G193
- Y112
- TM20
- TM27
- TMD27

DEUTZ

- F3L913G
- GF3L913
- F3/4/6/L912 (W)

FIAT

- 8035-05-359
- 8045-05-359
- 8141-67-200
- M705.19.149A1000
- M205.16AA.149A000
- 8055.05.250

FORD

- 4-172
- 4-192

GM

- 4181
- 4153
- 6250
- V6-4,3
- 2,2L

ISUZU

- C240
- C221
- 4FA1
- 4FE1
- DA220
- 4JB1
- G201
- 4JG2

KOMATSU

- 4D95
- 6D95
- 4D94E
- 6D105-1
- 4D105

MAZDA

- XA
- VA
- UA

- FE

- HA

- ZB

- F2

- TM

MERCEDES

- OM314

MITSUBISHI

- 4DQ5(0)
- S4E
- S4E2
- S6E
- S6E2
- 4G33
- 4G52
- 4G53
- 4G54
- S4S
- 4G64
- 4G63
- KE42
- 4G15
- S4Q2
- 4DQ7
- 4G41
- 6G72
- KE46
- 4G15
- S6S
- S6K

NISSAN

- SD22
- SD25
- SD33T
- J15
- H20
- D11
- Z24
- A15
- A12
- H25
- TD27
- BD30
- H15
- H30
- TB42
- TD42
- P40

PERKINS

- 4.236
- 4.203
- 4.2482
- 4.108
- 6.354
- 6.3544

- 1004.4

- 903-27

- 4.203.2

- D3.152

- 1006.6

PEUGEOT

- XD3P
- XDP 4.88
- XDP 4.90
- XC7P
- XN1P

TOYOTA

- 3P
- 4P
- 1Z
- 5R
- 5P
- 2J
- 4Y
- 5K
- 1DZ
- 11Z
- 2H
- H
- V1502
- VT1502
- V1512
- 2Z
- V1512T
- F
- 2F
- 3F
- 12Z
- 14Z
- 13Z

VOLVO

- TD61 AW
- TD71 AW
- TD100 G

WAUKESHA

- D155G
- D176G

TVH stocks parts for all engines listed above



Suitable for		REF water pump	REF radiator fan	REF radiator hose		REF radiator cap
				Upper	Lower	
Toyota	1DZ	103TA6775	103TA6219	105TA3688	105TA3661	127TA1066
	1Z	103TA6779	103TA6219	103TA6298	105TA3148	127TA1066
	1DZII	103TA6775	103TA6219	105TA8430	106TA5222	127TA1066
	2Z	141TA8748	103TA6219	105TA8681	105TA8678	127TA1066
	11Z	103TA6779	103TA6219	105TA3547	105TA7960	127TA1066
	5K	141TA8718	103TA6219	126TA6429	126TA6446	127TA1066
	4Y	141TA8722	103TA6193	105TA3624	106TA7765	127TA1066
Nissan	H20	140TA6266	105TA7517	105TA3866	105TA7679	140TA6284
	H20II				105TA3873	140TA6285
	TD27	140TA6267	105TA7517	105TA3866	105TA8459	140TA6284
	K21		140TA6276	126TA6425	126TA6439	140TA6287
Komatsu	4D95	140TA6268	103TA6165	105TA3195	105TA3194	140TA6288
	4D94E	140TA6269	105TA7487	105TA4034	105TA4033	106TA4496
Mitsubishi	S4S	140TA6270	105TA7485	140TA6278	140TA6282	140TA6289
	S4E	140TA6271	103TA6196	105TA3265	105TA3266	140TA6290
	4G33	103TA6834	105TA7513	105TA3486	106TA5203	106TA4457
Isuzu	4JG2	140TA6274	103TA6181	142TA3180	105TA4036	

STARTERS AND ALTERNATORS



Brand	Engine type	REF starter motor	REF alternator
Toyota	1DZ	103TA3302	107TA9470
	1Z	103TA3302	105TA5843
	1DZII	103TA3302	124TA6652
	2Z	103TA3302	107TA9470
	11Z	111TA1194	107TA9470
	5K	103TA3290	106TA1969
	4Y	103TA3290	128TA3669
Nissan	H20	108TA2496	106TA2050
	TD27	105TA5274	105TA5729
	K21	126TA6002	124TA6707
Komatsu	4D95	105TA9821	106TA1678
	4D94E	105TA5216	105TA5632
Mitsubishi	S4S	105TA9723	105TA5680
	S4E	105TA9733	105TA5537
Isuzu	4JG2	105TA9928	106TA1869

PRE-FILTER

REF 104TA7822

- Full view
- D1: 186 mm
- D2: 77 mm
- H1: 157 mm



Lid only



REF 107TA1741

Glass only



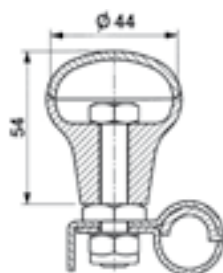
REF 116TA6261

FILTERS



Brand	Engine type	REF oil filter	REF fuel filter	REF air filter
Toyota	1DZ	108TA4222	108TA8644	141TA7877
	1Z	108TA4222	108TA8644	108TA4216
	1DZII	108TA8659	106TA6944	141TA7877
	2Z	108TA4222	108TA8644	105TA4806
	11Z	108TA4222	108TA8644	108TA4225
	5K	108TA8647	108TA8648	106TA3013
	4Y	108TA8776	108TA8648	108TA8774
Nissan	H20	108TA8727	108TA8705	108TA8729
	SD25	108TA8776		108TA8730
	TD27	104TA8397	105TA4810	126TA6135
	K21	108TA8773	108TA8705	108TA8774
Komatsu	4D95	104TA8405	105TA4810	124TA6995
	4D94E	127TA1810	104TA8525	124TA6995
Mitsubishi	S4S	104TA5998	104TA8525	124TA6994
	S4E	104TA8425	104TA8525	106TA3013
Isuzu	4JG2	108TA8714	104TA8525	108TA8774

STEERING KNOB WITH SUPPORT



REF 107TA3351

- Universal use

STEERING KNOB WITH EXTERNAL THREAD



REF 107TA3393

- Bolt: M8 x 1,25
- Used for Yale, TCM, Kalmar, Toyota, Komatsu, Nyk, SVE-TRUCK, Jungheinrich

STEERING KNOB WITH SUPPORT



REF 128TA4192

- Used for Caterpillar, Toyota, Komatsu, Nichiyu-Nyk

STEERING KNOB WITH EXTERNAL THREAD



REF 128TA4191

- Bolt: M8 x 1,25
- Used for Hyster, Yale, Toyota

STEERING KNOB WITH EXTERNAL THREAD



REF 107TA3350

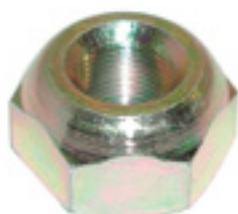
- Bolt: M8 x 1,25
- Used for Komatsu

STEERING KNOB WITH HOLE OR INTERNAL THREAD



REF 140TA2218

- Used for Caterpillar, Mitsubishi and Nissan



Suitable for		REF hub seal	REF bearing	REF drive wheel bolt	REF drive wheel nut	REF steering wheel bolt	REF steering wheel nut
Toyota	5 series	126TA6405		126TA6285	104TA9967	104TA8678	104TA9907
	6 series	126TA6405		104TA9742	140TA6311	104TA8678	
	7 series	126TA6405		140TA8307	104TA9967	104TA8678	104TA9908
Komatsu	FD25-11	126TA6397	140TA6301	126TA6290	105TA1010	126TA6300	140TA8309
	FD25-12	126TA6398	140TA6302	126TA6290	140TA6310	126TA6300	140TA8309
	FD25-14	126TA6398	140TA6303	126TA6290	104TA9965	126TA6300	104TA9904
	FD25-16	126TA6398	140TA6304	126TA6291	105TA1010	126TA6300	140TA8309
Nissan	H02	126TA6414	140TA6305	104TA8746	140TA6311	104TA8746	140TA6311
	J02	126TA6402	140TA6306	104TA8746	140TA6312	104TA8746	140TA6311
Mitsubishi	F18A	126TA6394	140TA6307	104TA8771	104TA9990	104TA8771	104TA9990
	F18B	126TA6409	140TA6308	140TA6309	104TA9990	140TA6309	104TA9990
	F18C	126TA6410	140TA6307	140TA8589		140TA6309	104TA9990



Suitable for		REF master cylinder	REF wheel cylinder		REF brake shoes		REF brake cable	
			Left	Right	Left	Right	Left	Right
Komatsu	FD25-11	104TA4281	126TA6316	126TA6316	126TA6455	126TA6455	106TA7028	141TA9672
	FD25-12	104TA4279	140TA6944	140TA6944	140TA6944	140TA6944	140TA6295	126TA6353
	FD25-14	104TA4279	126TA6316	126TA6316	140TA6944	140TA6944	140TA6296	140TA6299
	FD25-16	126TA6318	135TA9338	135TA9338	126TA6303	126TA6314	126TA6336	126TA6354
Nissan	H02	106TA2889	104TA4636	104TA4636	140TA8312	140TA6944	126TA6320	126TA6339
	J02	135TA7414	104TA4636	104TA4636	140TA6941	140TA6945	126TA6322	126TA6534
Mitsubishi	F18A	140TA6292	140TA6294	140TA6294	140TA8312	140TA6946	140TA6297	106TA7030
	F18B	140TA6293	140TA6294	140TA6294	140TA8312	140TA6940	140TA6297	140TA6300
	F18C	124TA7905	135TA9335	135TA9335	126TA6313	126TA6314	126TA6324	126TA6324
Toyota	5 series	140TA8310	105TA4232	105TA4232	134TA9344	134TA9344	106TA7015	106TA7025
	6 series	140TA8315	106TA4018	106TA4018	134TA9344	134TA9344	140TA8316	106TA7025
	7 series	123TA1888	122TA8844	122TA8844	134TA9344	134TA9344	126TA6327	126TA6346

STANDARD SUPER ELASTIC TYRES



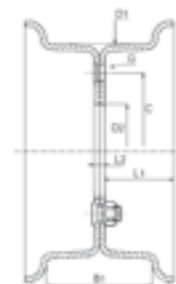
Tyre size	Rim size	Tread pattern	Tyre dia ± 10 mm	Section width ± 5 mm	Approx net weight kg	REF standard tyre	REF clip tyre	REF non-marking tyre	REF clip non-marking tyre
400 x 8	3.00	TS01	408	115	12,4	116TA7743		129TA6824	
400 x 8	3.00	TS04	412	115	12,6	129TA6776		129TA6825	
400 x 8	3.75	TS01	408	115	12,4	129TA6777		129TA6826	
400 x 8	3.75	TS04	412	115	12,6	129TA6778		129TA6827	
500 x 8	3.00	TS02	462	127	18,5	129TA6779	129TA6806	129TA6828	129TA6855
15 x 4,5 x 8	3.00	TS01	380	106	9,4	116TA7747	129TA6807	129TA6829	129TA6856
16 x 6 x 8	4.33	TS02	415	156	17,2	116TA5090	116TA5091	129TA6830	129TA6857
18 x 7 x 8	4.33	TS02	458	145	20,5	111TA1102	116TA5089	129TA6831	129TA6858
600 x 9	4.00	TS02	530	140	27	111TA1099	129TA6808	129TA6832	129TA6859
140 x 55 x 9	4.00	TS01	378	135	11		136TA1298		136TA1299
21 x 8 x 9	6.00	TS01	520	190	33,5	116TA7748	129TA6809	129TA6833	129TA6860
650 x 10	5.00	TS02	580	157	36,8	111TA1100	129TA6810	129TA6834	129TA6861
23 x 9 x 10	6.50	TS01	590	211	49	116TA7749	129TA6811	129TA6835	129TA6862
200 x 50 x 10	6.50	TS01	455	197	24,4	116TA7754	129TA6812	129TA6836	129TA6863
750 x 10	5.00	TS01	630	170	48	129TA6780		129TA6837	
750 x 10	5.50	TS01	630	170	48	129TA6781	129TA6813	129TA6838	129TA6864
450 x 12	3.00	TS02	546	120	22,2	129TA6782		129TA6839	
700 x 12	5.00	TS02	665	167	49	111TA1101	129TA6814	129TA6840	129TA6865
825 x 12	5.00	TS01	730	205	72	129TA6783			
23 x 10 x 12	8.00	TS03	590	230	52,2	129TA6784	129TA6815	129TA6841	129TA6866
27 x 10 x 12	8.00	TS01	679	231	70	116TA7750	129TA6816	129TA6842	129TA6867
550 x 15	4.50	TS02	665	145	40,3	129TA6785		129TA6843	
600 x 15	4.50	TS02	700	148	46,5	129TA6786		129TA6844	
700 x 15	5.50	TS02	740	177	61	129TA6787	129TA6817	129TA6845	129TA6868
750 x 15	6.50	TS01	760	200	75	129TA6788			
815 x 15	7.00	TS02	700	225	67	116TA7753	129TA6818	129TA6846	129TA6869
28 x 9 x 15	7.00	TS02	700	225	67	116TA7753	129TA6818	129TA6846	129TA6869
250 x 15	7.00	TS01	725	230	72	116TA7755	129TA6819	129TA6847	129TA6870
250 x 15	7.50	TS01	725	230	72	129TA6789	139TA3475	129TA6848	
825 x 15	5.50	TS01	820	200	90	129TA6790			
825 x 15	6.50	TS02	830	203	92	116TA7746	129TA6820	129TA6849	129TA6871
300 x 15	8.00	TS01	825	257	110	116TA7756	129TA6821	129TA6850	129TA6872
28 x 12,5 x 15	9.75	TS01	700	300	86	129TA6791	129TA6822	129TA6851	129TA6873
355 x 65 x 15	9.75	TS01	820	302	126	116TA7757	129TA6823	129TA6852	129TA6874
650 x 16	5.50	TS03	740	165	60	129TA6792			
750 x 16	5.50	TS03	800	180	77,2	129TA6793		129TA6853	
750 x 16	6.00	TS03	800	180	77,2	129TA6794		129TA6854	
900 x 16	6.50	TS03	869	214	110	129TA6795			
900 x 20	6.50	TS03	1000	240	153	129TA6796			
900 x 20	7.00	TS03	1000	240	153	129TA6797			
1000 x 20	7.50	TS03	1030	250	170	129TA6798			
1000 x 20	8.00	TS03	1030	250	170	129TA6799		129TA8529	
1100 x 20	8.00	TS03	1050	270	195	129TA6800			
1200 x 20	8.00	TS03	1100	285	231	129TA6801			
1200 x 20	8.50	TS03	1100	285	231	129TA6802			
1200 x 20	10.00	TS03	1100	285	231	129TA6803			
1400 x 20	10.00	TS03	1250	328	340	129TA6804			
1400 x 24	10.00	TS03	1330	325	390	129TA6805			
1600 x 25	11.25	TS05	1440	390	600	on request			
1800 x 25	13.00	TS05	1600	480	870	on request			
17,5 x 25	14.00	TS05	1350	460	580	on request			
23,5 x 25	19.50	TS05	1600	580	1100	on request			
26,5 x 25	22.00	TS05	1730	650	1400	on request			

SPLIT RIM OR DIVIDED RIM

Structure

Steel plated, rim consisting out of 2 halves, supplied along with the existing bolts, nuts and washers.

Possibility for other dimensions, ask your sales advisor at TVH.



Rim width (inch) (B1)	Rim diameter (inch) (D1)	Tyre size	Centre-hole (mm) (D2)	Pitch-circle (mm) (C)	No of holes (G)	Ø of studholes (mm)	Flange position (L1)	Used for	REF
2.50	4	4.00-4	52	68	5	8	Half	Komatsu - Pimespo - OM	129TA7548
3.00 D	8	4.00-8	85	130	5	19	Half	Clark	129TA7549
		5.00-8	110	140	5	18,5	Half	Hyster	129TA7550
		125/75-8	86	114	6	15	Half	Toyota	107TA5381
		15 x 4.5-8	100	125	6	16	Half	Divers	107TA5382
			110	148	6	15	Half	Divers	107TA5380
4.33 R	8	16 x 6-8	95	135	5	17,5	124	Divers	129TA7551
		105/75-8	110	145	5	18,5	Half	Hyster	129TA7552
		18 x 7-8	110	147	5	17,5	122	Divers	107TA5384
		180/70-8	90	130	6	17,5	89	Divers	107TA5385
			96	136	6	17,5	121	TCM	129TA7553
			100	140	6	17,5	50	Komatsu	107TA5383
			105	142	6	18	Half	Toyota	129TA7554
4.00 E	9	6.00-9	124	165	5	17	Half	Yale - Hyster	129TA7555
		140/55-9	140	170	6	18	Half	Divers	129TA7556
			150	180	6	18	Half	Divers	107TA5387
			130	160	8	16,5	Half	Divers	107TA5386
			142	170	8	16	Half	Divers	107TA5388
5.00 F	10	6.50-10	127	165	5	16	Half	Yale - Hyster	129TA7557
		7.0/85-10 IMPL.	140	170	6	18	Half	Divers	129TA7558
			150	180	6	18	Half	Daewoo	129TA7559
			150	180	6	18	Half	Divers	107TA5390
			170	200	6	17	Half	Caterpillar	129TA7560
			130	160	8	17	Half	TCM	107TA5391
			142	170	8	16	Half	Divers	107TA5392
			105	140	10	18,5	Half	Hyster	129TA7561
5.00 S	12	7.00-12	149,3	203,2	5	32	Half	Yale - Hyster	129TA7562
			175	220	5	27	Half	Divers	107TA5393
			150	200	6	27	Half	Divers	107TA5394
			166	218	6	32	Half	Yale - Hyster	129TA7563
			170	220	6	27	Half	Divers	107TA5396
			170	220	6	32	Half	Divers	107TA5395
			145	190	8	26	Half	Toyota	107TA5397

MULTIPLE PIECE RIM WITH RINGS

Structure

- Can be supplied with or without locking rings.
- There are several different fittings possible per size, depending on the brand and type of machine. Please contact TVH for more details.



Rim width (inch) (B1)	Rim diameter (inch) (D1)	Tyre size	Tyre size	Tyre size	Tyre size
3.00 D	8	4.00-8	5.00-8	125/75-8	15 x 4.5-8
3.25 D	8	4.00-8	5.00-8	15 x 4.5-8	
3.75 D	8	4.00-8	5.00-8		
4.33 R	8	16 x 6-8	105/75-8	18 x 7-8	180/70-8
7.00 E	8	18 x 9-8			
4.00 E	9	6.00-9	140/55-9		
6.00 E	9	21 x 8-9	200/75-9		
5.00 F	10	6.50-10	7.0/85-10 IMPL.	180/60-10	
6.50 F	10	23 x 9-10	225/75-10	200/50-10	
3.00	12	4.50-12			
5.00 S	12	7.00-12	5.70-12		
8.00 G	12	27 x 10-12	23 x 10-12		
3.75 P	13	25 x 6	23 x 5		
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	28 x 9-15	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	28 x 12.5-15	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			

SEPARATE RINGS

Rim rings type Lemmerz (*)

Rim size	Tyre size	REF side ring	REF lock ring	REF seat ring
3.00 x 8	500 x 8/15 x 4,5 x 8	107TA5418	107TA5398	107TA5412
4.33 x 8	16 x 6 x 8/18 x 7 x 8	107TA5419	107TA5399	
4.00 x 9	600 x 9/140 x 55 x 9	107TA5420	107TA5400	107TA5413
6.00 x 9	21 x 8 x 9	107TA5420	107TA5400	107TA5413
5.00 x 10	650 x 10	107TA5421	107TA5401	107TA5414
6.50 x 10	23 x 9 x 10 200 x 50 x 10	107TA5421	107TA5401	107TA5414
5.00 x 12	700 x 12	107TA5422	107TA5402	107TA5415
8.00 x 12	23/27 x 10 x 12	107TA5423	107TA5403	107TA5416
3.75 x 13	21 x 4/23 x 5	107TA5424	107TA5404	
5.50 x 15	700 x 15	107TA5425	107TA5405	107TA5417
6.00 x 15	700/750 x 15	107TA5425	107TA5405	107TA5417
6.50 x 15	750 x 15	107TA5425	107TA5405	107TA5417
7.00 x 15	815 x 15/250 x 15	107TA5426	107TA5405	107TA5417
7.50 x 15	250 x 15 - 750	107TA5427	107TA5406	107TA5417
8.00 x 15	300 x 15	107TA5428	107TA5406	107TA5417
9.75 x 15	355 x 65 x 45	107TA5426	107TA5405	107TA5417

(*) Other types on request (brand of rim is required)



CLAMP FITTING RIMS

Used on Hyster, Clark, Caterpillar, Mitsubishi, TCM, Kalmar ...

There are several different possibilities per size, depending on the brand and type of machine

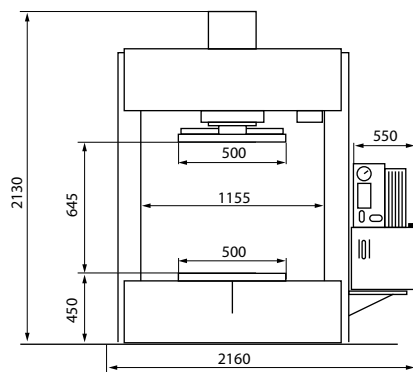
Sizes: 6.50 x 15 ..., 8.00 x 20 ..., 13.00 x 25 ..., 13.00 x 33



ALL RIMS CAN BE DELIVERED COMPLETE WITH TYRES, UPON REQUEST



TYRE PRESS



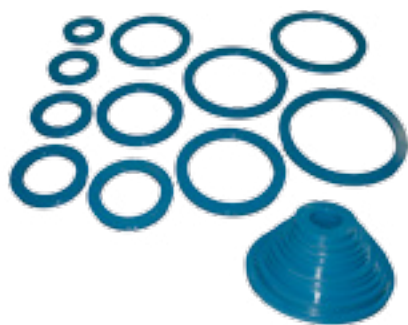
REF 141TA3456
220 V



Specifications

- Capacity: 160 ton
- Max tyre dimension: 20 inch
- 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
- Electromotor: 5,5 HP
- Suitable for 380 V, also available in 220 V (on request)
- 3-phase
- 50 Hertz tension
- Shipping weight: 1800 kg
- Supplied with a basic tool kit for tyres from 8" up to 20" comprising cages, cones and support rings.
- More advanced tools on request

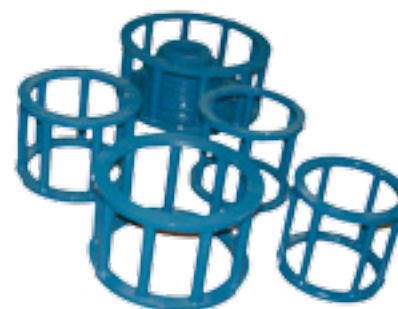
Basic toolkit



Support rings



Cones



Cages

TYRE CUTTER

Type	Width	Depth	Quantity	REF
	3-5 mm	7 mm	20	107TA5302
	5-8 mm	7 mm	20	107TA5303
	6-15 mm	10 mm	20	107TA5304
	8-16 mm	12 mm	20	107TA5305
	10-18 mm	12 mm	20	107TA5306
	3-5 mm	7 mm	20	107TA5307
	5-6 mm	7 mm	20	107TA5308
	7-10 mm	10 mm	20	107TA5309
	9-13 mm	12 mm	20	107TA5310
	11-15 mm	12 mm	20	107TA5311
	23-28 mm	12 mm	10	107TA5312

Boxes of blades sold separately

REF 107TA5313

- Professional "Rubber cut"
- 220-240 V
- RILLIFT 6
- Reliable
- Modern
- Technically refined



KIT TOYOTA 7FBR13-18



REF 140TA2225

Kit includes:

REF 111TA1234 – Press-on tyre: 254 x 120 x 190 mm

REF 129TA9635 – Load wheel

REF 111TA1286 – Press-on tyre: 330 x 145 x 193 mm

KIT NISSAN HC01 (1.5-2.0)



REF 140TA2226

Kit includes:

REF 111TA1271 – Wheel assy

REF 111TA1286 – Press-on tyre: 330 x 145 x 193 mm

REF 111TA1751 – Press-on tyre: 254 x 102 x 159 mm

WHEEL KITS

Suitable for		REF kit (five per truck)	REF drive wheel	REF load wheel	REF castor wheel
Toyota	5/6FBR10	140TA8318	111TA1286	111TA1751	111TA1367
	5/6FBR13-18	140TA8319	111TA1286	111TA1234	111TA1367
	6FBRE15	140TA8320	111TA1286	111TA1234	-
	5/6FBR20	140TA8321	140TA8331	111TA1376	111TA1370
	7FBR10	140TA8322	111TA1286	111TA1751	129TA9635
	7FBR13-18	140TA2225	111TA1286	111TA1234	129TA9635
	7FBR20	140TA8323	140TA8332	140TA8336	140TA8341
Nissan	HC01 (1.5 - 2.0)	140TA2226	111TA1286	111TA1751	111TA1271
	HR01 (1.5 - 2.0)	140TA8324	140TA8333	140TA8337	111TA1271
Nichiyo-NYK	FBR10 (50S)	140TA8325	129TA7387	111TA1296	111TA1288
	FBR13-18 (50S)	140TA8326	129TA7418	140TA8338	111TA1288
	FBR10 (60S)	140TA8327	140TA8334	140TA8339	129TA9671
	FBR13-18 (60-75S)	140TA8328	139TA9553	140TA8338	129TA9671
	FBR20 (60s)	140TA8329	111TA1321	140TA8340	111TA1351
Komatsu	FB15RL-12	140TA8330	140TA8335	111TA1234	140TA8342

Wheels

Wheels suitable for Still, Linde and Crown

WHEEL SUITABLE FOR STILL

REF 108TA3943

- Material: polyurethane
- Mounting holes: 5
- Diameter mounting holes: 13 mm
- Center hole: 45 mm
- Diameter wheels: 230 mm
- Width: 70 mm
- Hub length: 82 mm



WHEEL SUITABLE FOR STILL

REF 129TA9552

- Material: polyurethane
- Outer diameter: 125 mm
- Width: 40 mm
- Hub length: 45 mm
- Diameter axle: 15 mm



WHEEL SUITABLE FOR STILL

REF 107TA3094

- Material: polyurethane
- Outer diameter: 150 mm
- Width: 54 mm
- Hub length: 60 mm
- Diameter axle: 20 mm



WHEEL SUITABLE FOR STILL

REF 108TA8352

- Material: vulkollan
- Outer diameter: 310 mm
- Width: 102 mm
- Hub length: 63 mm
- 2 different bearings inner diameter: 40 and 55 mm



WHEEL SUITABLE FOR STILL

REF 108TA4138

- Material: vulkollan
- Outer diameter: 343 mm
- Width: 136 mm
- Center hole: 80 mm
- Number of mounting holes: 7
- Diameter of mounting holes: 18,5 mm



WHEEL SUITABLE FOR LINDE

REF 108TA4055

- Material: vulkollan
- Outer diameter: 330 mm
- Width: 135 mm
- Center hole: 80 mm
- Number of mounting holes: 7
- Diameter of mounting holes: 15 mm



PRESS-ON TYRE SUITABLE FOR LINDE

REF 129TA7545

- Material: vulkollan
- Outer diameter: 285 mm
- Width: 100 mm
- Inner diameter: 228 mm



PRESS-ON TYRE SUITABLE FOR CROWN

REF 135TA9988

- Material: polyurethane
- Outer diameter: 330 mm
- Width: 140 mm
- Inner diameter: 241 mm



WHEEL SUITABLE FOR CROWN

REF 126TA6223

- Load wheel without bearings
- Material: polyurethane
- Outer diameter: 127 mm
- Width: 105 mm
- Bearing seat : 62 x 14 mm



WHEEL SUITABLE FOR CROWN

REF 129TA9485

- Load wheel without bearings
- Material: polyurethane
- Outer diameter: 127 mm
- Width: 73 mm
- Bearing seat: 62 x20 mm



WHEEL SUITABLE FOR CROWN

REF 129TA9755

- Load wheel
- Outer diameter: 203 mm
- Width: 102 mm
- Bearing seat: 72 x 22 mm



WHEEL SUITABLE FOR CROWN

REF 140TA2228

- Drive wheel
- Material: polyurethane
- Outer diameter: 215 mm
- Width: 68 mm
- Center hole: No
- Number of mounting holes: 4



WHEEL SUITABLE FOR CROWN

REF 115TA5825

- Drive wheel
- Material: polyurethane
- Outer diameter: 254 mm
- Width: 85 mm
- Center hole: 30 mm
- Number of mounting holes: 4
- Diameter of mounting holes: 18,8 mm



WHEEL SUITABLE FOR CROWN

REF 107TA2880

- Pallet truck wheel with waterproof bearings
- Material: polyurethane
- Outer diameter: 85 mm
- Width: 110/115 mm
- Inner diameter: 25 mm



WHEEL SUITABLE FOR CROWN

REF 129TA9448

- Pallet truck wheel without bearings
- Material: polyurethane
- Outer diameter: 90 mm
- Width: 50 mm
- Bearing seat: 55 x 21 mm



WHEEL SUITABLE FOR CROWN

REF 107TA3270

- Drive wheel with mounting holes
- Material: polyurethane
- Outer diameter: 250 mm
- Width: 82 mm
- Center hole: 80 mm
- Number of mounting holes: 5
- Diameter of mounting holes: 18,5 mm



Wheels

Wheels suitable for Still, Linde and Crown

WHEEL SUITABLE FOR CROWN

REF 107TA2872

- Pallet truck wheel with waterproof bearings
- Material: polyurethane
- Outer diameter: 85 mm
- Width: 100 mm
- Inner diameter: 20 mm



WHEEL SUITABLE FOR CROWN

REF 129TA9357

- Pallet truck wheel with roller bearings
- Material: polyurethane
- Outer diameter: 82 mm
- Width: 60 mm
- Inner diameter: 20 mm



WHEEL SUITABLE FOR CROWN

REF 129TA9608

- Load wheel with bearings
- Material: vulkollan
- Outer diameter: 150 mm
- Width: 48 mm
- Clamp length: 60 mm
- Inner diameter: 20 mm



SUITABLE FOR EUROLIFTER

Steering wheel with bearing (200 x 50 mm)



REF 129TA9712
Polyurethane



REF 129TA9723
Nylon

Load wheel with bearing (80 x 93 mm)



REF 128TA4518
Polyurethane



REF 128TA4390
Nylon

SUITABLE FOR TOTALLIFTER

Steering wheel with bearing (180 x 50 mm)



REF 128TA4374
Polyurethane



REF 129TA9680
Nylon

Load wheel with bearing (75 x 93 mm)



REF 140TA8359
Polyurethane



REF 123TA8515
Nylon

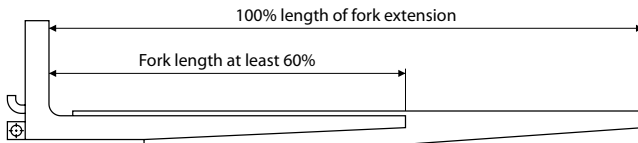


LIFT TRUCK ATTACHMENTS

Section (mm)	Capacity (kg)	Class	Fork length							
			800 mm	900 mm	1000 mm	1070 mm	1100 mm	1150 mm	1200 mm	1300 mm
80 x 40	2000/500	2A	131TA9311	131TA9314	127TA2353		131TA9335	131TA9347	127TA2355	
100 x 35	1800/500	2A		131TA9315	131TA9321	131TA4698	131TA9336	131TA9348	131TA9356	131TA9372
100 x 40	2500/500	2A	131TA9312	131TA9316	131TA9322	131TA4700	127TA2356	131TA9349	127TA2357	131TA9373
100 x 45	3000/500	2A		131TA9317	131TA9323	131TA9333	131TA9337	131TA9350	127TA2358	131TA9374
120 x 40	3000/500	2A			131TA9324	131TA4703	131TA9338	131TA9351	131TA9357	131TA9375
125 x 40	3100/500	2A					131TA9339		131TA9358	
125 x 45	4100/500	2A		131TA9318	131TA9325		127TA2359	131TA9352	127TA2360	131TA9376
80 x 40	2000/500	2B			131TA9326		131TA9340		131TA9359	
100 x 40	2500/500	2B	131TA9313	131TA9319	131TA9327		131TA9341	131TA9353	131TA9360	
120 x 40	3000/500	2B			131TA9328			131TA9354	131TA9361	
125 x 40	3500/500	2B								
125 x 45	4000/500	2B							131TA9362	
100 x 45	3000/500	3A					131TA9342		131TA9363	
100 x 50	3900/500	3A					131TA9343		131TA9364	
125 x 45	4000/500	3A			131TA9329		131TA9344	131TA9355	127TA2361	131TA9377
125 x 50	5000/500	3A		131TA9320		131TA9334			131TA9365	131TA9378
150 x 50	5800/500	3A			131TA9330	131TA4721	131TA9345		131TA9366	
125 x 45	4000/500	3B			131TA9331		131TA9346		131TA9367	131TA9379
150 x 50	5800/500	3B							131TA9368	
150 x 50	5800/500	4A							131TA9369	
150 x 60	7000/600	4A			131TA9332	136TA8401			131TA9370	131TA9380
150 x 70	9000/600	4A							131TA9371	

Section (mm)	Capacity (kg)	Class	Fork length						
			1400 mm	1500 mm	1600 mm	1800 mm	2000 mm	2200 mm	2400 mm
80 x 40	2000/500	2A	131TA9381	131TA9395	131TA9413	131TA9430			
100 x 35	1800/500	2A	131TA9382	131TA9396	131TA9414				
100 x 40	2500/500	2A	131TA9383	131TA9397	131TA9415	131TA9431	131TA9446		
100 x 45	3000/500	2A	131TA9384	131TA9398	131TA9416	131TA9432	131TA9447		
120 x 40	3000/500	2A	131TA9385	131TA9399	131TA9417	131TA9433	131TA9448		131TA9465
125 x 40	3100/500	2A		131TA9400		131TA9434			
125 x 45	4100/500	2A	131TA9386	131TA9401	131TA9418	131TA9435	131TA9449	131TA9458	131TA9466
80 x 40	2000/500	2B							
100 x 40	2500/500	2B	131TA9387	131TA9402	131TA9419	131TA9436			
120 x 40	3000/500	2B	131TA9388						
125 x 40	3500/500	2B							
125 x 45	4000/500	2B			131TA9420	131TA9437	131TA9450		
100 x 45	3000/500	3A		131TA9403	131TA9421				
100 x 50	3900/500	3A		131TA9404		131TA9438	131TA9451		
125 x 45	4000/500	3A	131TA9389	131TA9405	131TA9422	131TA9439	131TA9452	131TA9459	131TA9467
125 x 50	5000/500	3A	131TA9390	131TA9406	131TA9423	131TA9440	131TA9453	131TA9460	131TA9468
150 x 50	5800/500	3A	131TA9391	131TA9407	131TA9424	131TA9441	131TA9454	131TA9461	131TA9469
125 x 45	4000/500	3B	131TA9392	131TA9408	131TA9425	131TA9442			
150 x 50	5800/500	3B		131TA9409	131TA9426	131TA9443	131TA9455	131TA9462	131TA9470
150 x 50	5800/500	4A	134TA2640	131TA9410	131TA9427				
150 x 60	7000/600	4A	131TA9393	131TA9411	131TA9428	131TA9444	131TA9456	131TA9463	131TA9471
150 x 70	9000/600	4A	131TA9394	131TA9412	131TA9429	131TA9445	131TA9457	131TA9464	131TA9472

FORK EXTENSIONS



TOTALSOURCE®

Fork section	Length of fork extension	REF
125 x 45 mm	1800 mm	135TA1959
150 x 50 mm	1800 mm	140TA2192
125 x 45 mm	2400 mm	135TA1960
150 x 50 mm	2400 mm	135TA1961
138 x 56 mm	2350 mm	140TA2769



TELESCOPIC FORK

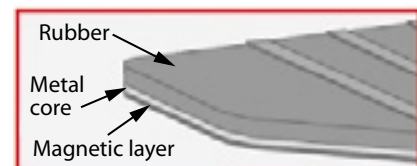
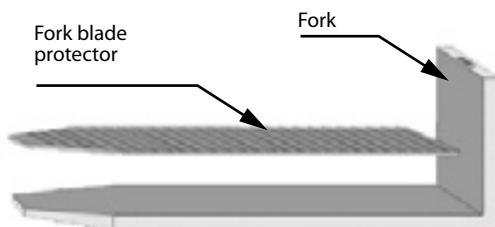
REF 140TA2769

- Capacity: 2000 kg
- Cross section: 138 x 56 mm
- Retracted fork length: 1350 mm
- Stroke: 1000 mm
- Extended fork length: 2350 mm
- Incorporated flow divider



NEW
in SPC 2

ANTISCRATCH AND ANTISLIP DEVICE



- Extremely versatile
- Always ready to use
- Thin and strong
- Delivered with user manual
- Rubber, magnetic fork blade protector
- It makes loading and unloading a lot easier
- Installation requires no mechanical or electrical work
- Only a few seconds are required for fitting or removal
- The capacity of the forklift truck does not get limited in any way
- Can be adjusted to fit any kind of metal lifting fork by cutting the rubber or bending the metal strip

Application:

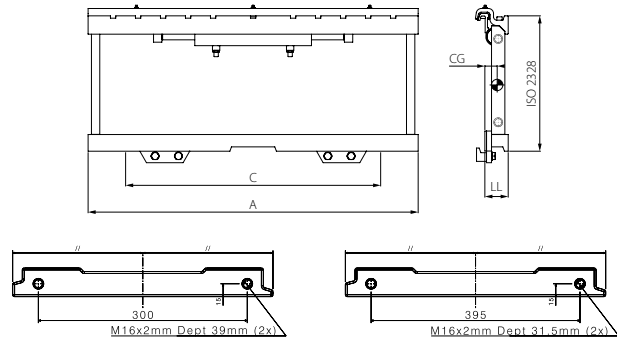
The antiscratch, antislip rubber magnetic fork blade protector attaches instantly when positioned on metal lifting forks, due to magnetization. The top layer is made of rubber with high-resistance chemical/physical properties and functions as the contact surface. This fork blade protector can be used on any kind of metal lifting fork device.

Length of the rubber	Length of the magnetic strip	Width of the rubber	REF
1400 mm	960 mm	80 mm	141TA6708
1400 mm	960 mm	98 mm	140TA8361
1400 mm	960 mm	118 mm	141TA6709
1400 mm	1150 mm	98 mm	139TA4698
1400 mm	1370 mm	98 mm	139TA4699
1550 mm	1150 mm	118 mm	139TA4700
1550 mm	1150 mm	148 mm	140TA8362
2000 mm	1650 mm	118 mm	139TA4701
2000 mm	1650 mm	148 mm	139TA4702



Pitch	Lacing	Pin diameter	Plate thickness	Plate depth	Pin length	Breaking strength	BL REF	REF	REF link
31,75 mm	2x2	11,1 mm	4,88 mm	29,6 mm	24,5 mm		BL1022	107TA2165	-
31,75 mm	2x3	11,1 mm	4,88 mm	29,6 mm	28,7 mm	150,8 kN	BL1023	107TA2167	-
31,75 mm	3x4	11,1 mm	4,88 mm	29,6 mm	38,6 mm	231 kN	BL1034	107TA2171	-
31,75 mm	4x4	11,1 mm	4,88 mm	29,6 mm	43,6 mm	303 kN	BL1044	107TA2176	-
31,75 mm	4x6	11,1 mm	4,88 mm	29,6 mm	53,5 mm	310 kN	BL1046	107TA2179	-
31,75 mm	6x6	11,1 mm	4,88 mm	29,6 mm	63,4 mm	450 kN	BL1066	107TA2188	-
31,75 mm	8x8	11,1 mm	4,88 mm	29,6 mm	84 mm	592 kN	BL1088	107TA2197	-
Chains 10 feet									
15,88 mm	3x4	5,95 mm	2,46 mm	15,1 mm	19,9 mm	65 kN	BL53410	140TA2251	115TA3826
19,05 mm	2x3	7,94 mm	3,23 mm	18,2 mm	20 mm	62 kN	BL62310	140TA8347	115TA3829
19,05 mm	3x4	7,94 mm	3,1 mm	17,8 mm	26,4 mm	93 kN	BL63410	140TA2252	115TA3830
25,4 mm	2x3	9,53 mm	4 mm	23,6 mm	24,6 mm	84,5 kN	BL82310	140TA8344	115TA3834
25,4 mm	3x4	9,53 mm	4 mm	23,6 mm	33,1 mm	175 kN	BL83410	140TA2253	115TA3835
25,4 mm	4x4	9,53 mm	4 mm	23,6 mm	37,4 mm	169 kN	BL84410	141TA7804	115TA3836
25,4 mm	4x6	9,53 mm	4 mm	23,6 mm	45,5 mm	169 kN	BL84610	141TA7805	115TA3837
31,75 mm	3x4	11,11 mm	4,88 mm	29,6 mm	38,6 mm		BL103410	140TA2254	122TA5315
31,75 mm	4x4	11,11 mm	4,88 mm	29,6 mm	43,6 mm		BL104410	141TA7806	139TA3784
31,75 mm	4x6	13,25 mm	4,7 mm	29,2 mm	49,1 mm	231,3 kN	BL104610	140TA8346	122TA7687
38,1 mm	3x4	12,71 mm	5,68 mm	35,9 mm	45,1 mm	245 kN	BL123410	140TA2255	113TA1753

SH-SIDESHIFTERS



ISO 2328/2

ISO 2328/3

Model	Capacity kg/mm	A mm	C mm	LL mm	CG mm	Weight kg	ISO 2328 fem	Stroke mm	REF
SH-sideshifters ISO/FEM 2 with sliding pads									
1 hydraulic function • Maximum pressure 200 bar • Recommended oil flow 8 l/min • C - Minimal width lift truck carriage									
SH 225.080P	2500/500	800	800	63	32	46	2	100+100	135TA7680
SH 225.090P	2500/500	900	800	63	32	49	2	100+100	135TA7681
SH 225.092P	2500/500	920	800	63	32	50	2	100+100	135TA7682
SH 225.094P	2500/500	940	800	63	32	51	2	100+100	140TA2765
SH 225.098P	2500/500	980	800	63	32	52	2	100+100	135TA7684
SH 225.100P	2500/500	1000	800	63	32	53	2	100+100	135TA7685
SH 225.102P	2500/500	1020	800	63	32	54	2	100+100	135TA7686
SH 225.104P	2500/500	1040	800	63	32	55	2	100+100	135TA7687
SH 225.107P	2500/500	1070	800	63	32	56	2	100+100	139TA5893
SH 225.110P	2500/500	1100	800	63	32	57	2	100+100	135TA7688
SH 225.115P	2500/500	1150	800	63	32	64	2	100+100	135TA7689
SH 225.125P	2500/500	1250	1000	63	32	66	2	100+100	140TA2766
SH 225.140P	2500/500	1400	1000	63	32	72	2	100+100	139TA6398
SH-sideshifters ISO/FEM 3 with sliding pads									
1 hydraulic function • Maximum pressure 200 bar • Recommended oil flow 10 l/min • C - Minimal width lift truck carriage									
SH 335.100P	3500/500	1000	1000	68	34	65	3	100+100	135TA7692
SH 335.107P	3500/500	1070	1000	68	34	68	3	100+100	140TA2767
SH 335.110P	3500/500	1100	1000	68	34	70	3	100+100	135TA7694
SH 335.115P	3500/500	1150	1000	68	34	72	3	100+100	135TA7695
SH 335.120P	3500/500	1200	1000	68	34	75	3	100+100	135TA7696
SH 335.125P	3500/500	1250	1000	68	34	77	3	100+100	135TA7697
SH 335.130P	3500/500	1300	1000	68	34	79	3	100+100	135TA7698
SH 335.135P	3500/500	1350	1100	68	34	88	3	100+100	135TA7699
SH 335.140P	3500/500	1400	1100	68	34	90	3	100+100	140TA2768

PAPER ROLL CLAMPS



BALE CLAMPS



CAM PRODUCT MOVIES



PRODUCT MOVIES



UNIVERSAL SEAT

REF 110TA8989

- Non-suspension seat with slide rails



ES12

REF 131TA2739

- Backrest and weight adjustment
- Suspension seat
- Complete with runners



WINGBACK SEAT

REF 131TA4894

- Automatic seat belt
- Microswitch suitable for Toyota (suitable for any brand if modified)
- Adjustable back
- Adjustable slides
- Ergonomic design



SEAT BELT

REF 140TA8348



SEAT BELT

REF 140TA2222



ALR MULTIANGLE SEAT BELT

REF 110TA8613

- With switch
- Black webbing
- Automatic retractor + buckle with switch
- Bolt set included



securon

CANOPY

REF 107TA5227

- Transparent plastic
- Dimensions: 1000 x 1000 mm



HAND PALLET TRUCKS



TOTAL LIFTER®

Capacity (kg)	Dimensions (mm)	Wheel type	Extra	REF
Standard hand pallet truck				
2500	685 x 1220	Single nylon (75 mm)		140TA2256
		Single PU (75 mm)		140TA2257
3000	685 x 1220	Single nylon (75 mm)		140TA2258
		Single PU (75 mm)		140TA2259
2500	520 x 1150	Single nylon (75 mm)		127TA1792
		Single PU (75 mm)		127TA1794
3000	520 x 1150	Single nylon (75 mm)		140TA2260
		Single PU (75 mm)		140TA2261
Hand pallet truck with weighing scale				
2000	568 x 1150	Tandem PU		140TA2262
	703 x 1220	Tandem PU		140TA2263
Scissor hand pallet truck				
1000	685 x 1170	Single PU	- Max lifting height: 800 mm - Min height: 85 mm	140TA2264
	540 x 1170	Single PU	- Max lifting height: 800 mm - Min height: 85 mm	133TA9279
Mechanical lifter				
300	420 x 1100	Single PU	- Lifting height: 145 mm	127TA1060

Handling equipment

Hand pallet trucks

EUROLIFTER



Capacity (kg)	Dimensions (mm)	Wheel type	REF
Standard hand pallet truck			
2500	685 x 1220	Single PU	140TA2742
		Single nylon	140TA2743
		Tandem PU	140TA2744
3000	685 x 1220	Single PU	140TA2745
		Single nylon	140TA2746
		Tandem PU	140TA2747
2500	540 x 1120	Single PU	140TA2748
		Single nylon	140TA2749
3000	540 x 1120	Double PU	140TA2750
		Single nylon	140TA2751
Short forks			
2500	540 x 800	Nylon/single nylon	140TA2752
	540 x 950	Nylon/single nylon (no brand)	140TA2753
		Nylon/single nylon	140TA2754
Low profile			
2000	540 x 1150 (52 mm)	Tandem nylon	140TA2755
	685 x 1150 (51 mm)	Tandem wheel nylon	140TA2764
Galvanized			
2000	685 x 1220	Single nylon	140TA2756
Stainless steel			
2000	685 x 1220	Tandem nylon	124TA4757
	540 x 1150	Tandem nylon	140TA2757
Manual stacker			
1000	1600/560 x 1150	Tandem wheel (nylon)	116TA5894
	2500/560 x 1150	Tandem wheel (nylon)	124TA6896
1500	1600/560 x 1150	Tandem wheel (nylon)	124TA6897
	2500/560 x 1150	Tandem wheel (nylon)	124TA6898
500		Drum stacker	140TA2758
Manual stacker with adjustable forks			
1000	1600/560 x 1150	Nylon	140TA2759
	2500/560 x 1150	Nylon (fork length: 915 mm)	140TA2760
1500	2500/560 x 1150	Nylon (fork length: 915 mm)	140TA2761
Semi-electric stacker			
1000	2500/560 x 1150	Semi electric (nylon)	125TA3321
	3000/560 x 1150	Semi electric (nylon)	125TA3322
1500	2500/560 x 1150	Semi electric (nylon)	125TA3324
	1600/560 x 1150	Semi electric (nylon)	125TA3323
	3000/560 x 1150	Semi electric (nylon)	125TA3325
Semi-electric stacker with adjustable forks			
1000	3000/560 x 1150	Semi-electric (nylon)	140TA2762
1500	3000/560 x 1150	Semi-electric (nylon)	140TA2763

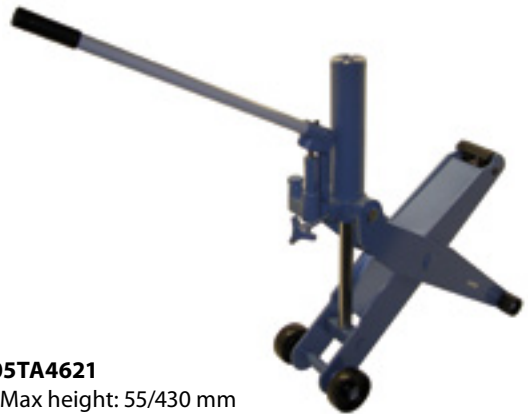
FORKLIFT JACK



REF 107TA8185

- Min/Max height: 60/360 mm
- Load capacity: 4 tons
- Weight: 31 kg

FORKLIFT JACK



REF 105TA4621

- Min/Max height: 55/430 mm
- Load capacity: 5 tons
- Weight: 38,5 kg

FORKLIFT JACK



REF 135TA2448

- Min/Max height: 25/368 mm
- Load capacity: 5 tons
- Weight: 25 kg

FORKLIFT JACK



REF 135TA2449

- Min/Max height: 30/420 mm
- Load capacity: 10 tons
- Weight: 35 kg

FORKLIFT JACK



REF 140TA2178

- Min/max height: 65/420 mm
- Load capacity: 7 tons
- Weight: 47 kg

BOTTLE JACK



REF 107TA8213

- Min/max height: 165/285 mm
- Load capacity: 20 tons
- Weight: 9,9 kg
- With a telescopic ram plunger, offers a long hydraulic stroke



SmartSweep®

REF 140TA2232

- Mechanical sweeper: can be used on diesel, LPG and electric lift trucks
- Can be mounted onto all lift trucks
- Designed for in- and outdoor use (dry conditions)
- Collects dirt and rocks

Technical information:

- Cleaning width: 1524 mm
- Main brush width: 965 mm
- Main brush diameter: 305 mm
- Side brush diameter: 458 mm
- Waste collector capacity: 400 kg
- Waste collector content: 255 litres
- Pneumatic tyres: 136 x 464 mm
- Fits max fork dimensions (W x T x L): 230 mm x 80 mm x length unrestricted
- Maximum fork spread measured over the forks: 510 mm
- Outside sweeper dimensions (WxLxH): 1524 x 1749 x 936 mm
- Weight: 473 kg
- Centre of gravity: unloaded: 1010 mm
- Centre of gravity: loaded: 1220 mm



We also supply spare parts.



**Sweep your way through
dust and dirt!**

For all info, advantages and demo video
go to www.smartsweep.com



Fits max fork dimensions (WxTxL):
230 x 80 mm x length unrestricted
(open end)
Maximum fork spread measured
over the forks: 510 mm (wide
design)

**Any industrial truck without a magnetic sweeper
is only doing half the job!**



Quality magnetic road sweepers that are built to last!

- Designed for all purposes and heavy-duty use.
- Eliminate iron objects and steel trash from service/maintenance areas, lots, ramps and loading docks.
- Designed for easy mounting on push tugs, forklifts, yard trucks, etc.
- Used where steel waste causes costly damage to tyres, equipment and/or employee injury.
- Constructed from quality permanent magnets encased in aluminium.

Product features:

- Exclusive insulation process used to prevent internal damage on impact.
- Packed with highest strength magnets.
- Magnets mounted to steel frame.
- 1/2" eyebolts mounted to inner steel.
- 1/2" aluminium end caps secured with tension pins.
- Weight: 17,50 kg

Length	Ground clearance	REF
915 mm	25-75 mm	107TA6256
915 mm	25-125 mm	107TA6257



TOTALSOURCE®



PARTS & ACCESSORIES

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