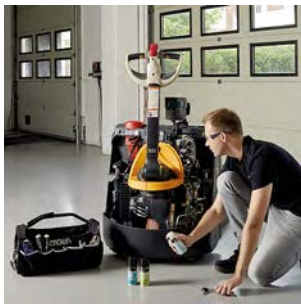




# AUTUMN 2023 ONE SOURCE CATALOGUE EMEA



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**one**<sup>TM</sup>  
**source**  
LIFT TRUCK PARTS

# **one**<sup>TM</sup> **source** LIFT TRUCK PARTS

Crown's One Source Lift Truck Parts program offers high-quality spare parts and accessories for industrial lift trucks.

We carefully select items based on the same quality standards that we set as the standard for manufacturing our own parts.

If you have any questions or problems, please contact [eu.service@crow.com](mailto:eu.service@crow.com).

Items can be ordered via the Crown Partner Extranet or BaaN.

Please contact your local Crown dealer for more information.

For any questions regarding warranty please contact [eu.warranty@crow.com](mailto:eu.warranty@crow.com).

As our product portfolio is continuously optimised and expanded, we reserve the right to make changes at any time without notice. The current version is available on our Partner Extranet.

Please note:

Not all products are available in all published countries. Products may differ from the images.

For vehicle-specific spare parts, please refer to the corresponding parts manuals.

**Anything missing?**

Please contact [eu.service@crow.com](mailto:eu.service@crow.com)

## ONE SOURCE CROWN EMEA

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# SERVICE SUPPLIES

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## Cleaning Paper \*

#TA0029-BOX

- KIMBERLY-CLARK
- 1 layer
- 42 cm x 24.5 cm
- 150 sheets, perforated, embossed cardboard



## Cleaning Tissue Roll

#TA0029-022

- 2 layers
- Perforated, 36 cm x 22 cm
- 500 sheets/roll
- For all cleaning and wiping work, cellulose, good grip, very absorbent, fast absorption
- Strong structure. Increased absorbency due to special embossing and full-surface gluing of the layers



## Cleaning Tissue Roll

#TA0029-038

- 3 layers
- 36 cm x 37.6 cm
- 500 sheets/roll
- Perforated, very absorbent, acid resistant
- Cleaning cloth roll made of cellulose, removes heavy grease, good grip
- Economical to use, 1000 tears



## Cleaning Wipes \*

#TA0014

- 80 sheets
- Fleece cloths soaked with a highly effective but gentle cleaning liquid
- The one-sided roughened cloths increase the cleaning power without adding abrasives
- Adapted to the natural pH value of the human skin
- Perfumed



## Cleaning Spray Glass

#TA0261

- 540 g
- Easy to use, fast-acting product that uses clinging foam to break-up soils and hold them even on vertical surfaces
- With an exclusive formulation using denatured alcohol and no ammonia, this product cleans thoroughly, dries quickly, requires no rinsing and leaves no streaks



## Cleaning Spray Corrosion

#F806113

- 400 ml
- Silicone and acid-free
- Temperature range min. -10 °C, max. +140 °C
- Resin-free
- High corrosion penetration
- Displaces and infiltrates moisture
- Provides lasting protection against further corrosion formation



## Cleaning Cockpit

#F820317

- 400 ml
- Silicone and AOX free
- Biodegradable, lemon fragrance
- Refreshes colour, gives a silky matte shine, universally applicable on all plastic parts inside the vehicle, prevents rapid resoiling



## Contact Spray

#F806115

- 200 ml
- Density: 0.76 g
- Shelf life from production 24 months
- Cleans contacts of all kinds
- Versatile icing area
- Halogen-free



## Special Cleaning Spray

#834929

- 500 ml
- For cleaning all parts such as brake drums, mast bearings and chassis. Especially before using the sliding spray
- Environmentally friendly quick degreaser and brake cleaner
- Very good cleaning effect
- Mean evaporation rate
- Cleans residue-free
- Protection against immediate rusting after use



## Cleaning Spray Labels

#818977

- 200 ml
- KONTAKT CHEMIE SOLVENT 50 SUPER
- Label Remover with Dosing Brush Solvent 50 Super is the label remover with dosing brush and NSF K3 registration for use in food technology
- The optimized formulation has the highest dissolving power for paper labels and sticky impurities of all kinds
- Labels can be removed effortlessly in one go without leaving any residue
- Economical consumption due to either a plug-in spray tube or dosing brush
- NSF registration makes it particularly suitable for use on food shipping crates, scales or labeling machines



## Crack D Cleaner

#826418

- 400 ml
- Solvent mixture based on a ketone, method C according to DIN EN ISO 3452-2
- Fast-drying
- Flash point Active ingredient -19 °C
- Suitable for all metals (suitability for plastics must be checked before use)
- Application temperature -10 °C to +50 °C
- Aerosol sprayable overhead
- For FEM testing also recommended: #TA826416 & #826416



## ELOclean Scanner Window Cleaning Spray

#833536

- Use to clean ELOKON scanner window
- 200 ml



## Elokon Antistatic Cloth

#833540

- Use to clean ELOKON scanner window



## Elokon Cleaning Set

#833538

- 1 x 833536
- 2 x 833540

## Cleaning



### Neutralon

#TA0245

- 1000 ml
- Neutralizes spilled battery acid
- Safe and easy to use due to indication of neutralization by colour indicator
- Does not attack paint, rubber, cables, plastics, metals and textiles



### Battery and Connector Protection Spray

#363125-001

- 300 ml
- Plastic-compatible special grease spray, designed for care and maintenance of vehicle electronics, especially battery poles and electrical connection elements
- Ensures safe starting and a longer battery life
- High corrosion protection, prevents leakage currents and reduces contact resistance



### Surface Disinfection

#TA0249-001

- 0.5 l
- Eliminates 99.9% of bacteria, fungi, germs and specific viruses (H1N1, H5N1, flu infections, influenza and diarrheal diseases)
- Spray Robbyrob surface disinfection onto the pre-cleaned surfaces and objects until complete wetting spray
- Allow to act for at least 30 seconds
- Allow to act for 3 minutes for maximum effect



### Hand Sanitizer Spray Can

0.25 l #TA0248-001  
0.45 l #TA0248-002

- Pour a handful of disinfectant (at least 3 ml) into the palm of the hand and rub it into both hands up to the wrist, also wetting the spaces between the fingers.
- Then leave to act for approx. 30 seconds.

## Skin Protection



### Skin Protection \*

#TA0010

- 100 ml
- Firms the skin, Reduces skin stress
- Supports the natural regenerative ability of the skin, O/W emulsion, contains glycerine, witch hazel and panthenol, silicone-free, perfumed



### Hand Cleaner \*

#TA0011

- 250 ml
- Good skin compatibility with strong cleansing power
- Adapted to the natural pH value of human skin
- With olive kernel flour
- Solvent-free
- Greasing
- Soap-free



### Hand Lotion \*

#TA0012

- 100 ml
- Moisturizes the skin and provides it with solids, nourishes with moisturizing allantoin panthenol has an anti-inflammatory effect and accelerates wound healing, O/W emulsion, silicone-free, perfumed

## Maintenance Equipment

For  
FEM  
testing:  
#VM00499  
#826416  
#826418



### Distilled Water

5 l #TA0062-005  
20 l #TA0062-020



### Crack D Developer

#VM00499

- 400 ml
- Solvent-based developer for penetrant
- Testing red and fluorescent, type d and e
- According to EN ISO 3452-1
- Fast-drying
- Working temperature -30 °C to +50 °C
- Aerosol can sprayable over head
- For FEM testing also recommended: #826416 & #826418



### Crack D Penetrant

#826416

- 400 ml
- Water- and solvent-washable dye penetrant red and fluorescent
- Type III according to DIN EN ISO 3452-1
- Mineral oil free, glycol based
- Suitable for all metals (suitability for plastics and ceramics must be checked before use)
- Contains NO AZO dyestuffs
- Working temperature:
- System IIIAc, IIIAe, IIIEe: from +10 °C to +50 °C
- System IIICe: from -10 °C to +50 °C
- Very good biodegradability according to EN ISO 9888
- Aerosol can sprayable overhead
- For FEM testing also recommended: #VM00499 & #826418

## Low Temp Hydraulic Oil

#053001-021



- 10 l
- Renolin LV 15 HV FST
- Same oil which is filled into the forklift trucks in the factory.
- Original Crown oil only available by Crown
- Zinc-containing hydraulic oil according to DIN 51524-3:HVLPD
- It offers excellent low-temperature behavior due to its extremely high viscosity index.
- It contains additives to prevent anti stick-slip effects as well as a fluorescent additive to detect leaks in the hydraulic system.
- The zinc wear protection system ensures a very good AW/EP performance and protects the components even at high loads.
- Due to its high detergent and dispersant capacity, it prevents the binding of deposits in the system.

## Gear Oil

#053002-016



- 20 l
- RENOLIN Unisyn CLP220
- Fully-synthetic industrial gear lubricants based on polyalphaolefins
- Excellent wear protection, high EP performance
- Low foaming
- Good air release capacity
- Very good aging resistance
- Excellent corrosion protection
- Excellent viscosity-temperature behavior
- High natural VI (viscosity index)
- Multi-grade character
- Miscible with mineral oil- and ester-based gearoils (Lifetime lubrication) prolongation of the service intervals possible
- For high and low operating temperatures
- Very good filterability

## Biodegradable Hydraulic Oil

#053001-012



- 20 l
- Plantoyd 32-S
- Based on sustainable raw materials, > 50 %
- Good corrosion conditioning
- Rapidly biodegradable according to OECD 301 B >60 %
- Multigrade characteristics (rationalization of varieties)
- Excellent lubricating properties
- Very good viscosity temperature behavior
- Good low-temperature behavior
- Highest shear stability
- Natural cleaning capacity
- High aging stability
- Excellent wear protection
- Good material compatibility
- ISO 15380: HEES
- European Ecolabel (EEL)
- (Euro Margerite)

## 80W90 Gear Oil

#363506-001



- 0.9 l
- High Performance, multi-purpose gear lubricant.
- Protects in the extreme pressure gear conditions encountered in heavy-duty equipment, trucks, farm tractors, passenger cars, earthmoving, and construction equipment.
- This oil is recommended where a multi-purpose gear oil or one suitable for API Services, MT-1, GL-5, Mack GO-H, GO-J are required

## Hydraulic Oil

#053001-020



- 10 l
- Renolin FST 32
- Same oil which is filled into the forklift trucks in the factory.
- Original Crown oil only available by Crown
- Hydraulic oil with detergent/dispersant properties
- It reliably prevents the occurrence of stick-slip problems, especially during slow movement.
- Contains UV additives for easy leak detect.

## Anti Stick Slip Can

#053001-010



- 5 l
- RENOLIN ANTI-STICK-SLIP
- Universal anti-stick-slip additive
- Adding approximately 2% of this additive concentrate to the hydraulic oil considerably reduces the risk of stick-slip
- Prevents stick-slip
- Protects seals and elastomers
- Extremely low coefficient of friction
- Minimizes the risk of jerky cylinder movements
- Forms stable lubricating films
- Good miscibility with mineral oils and polyalphaolefins
- Easy handling

## Gear Oil Steering

#053002-004



- 20 l
- TITAN GEAR HYP SAE 90 is a mineral gear oil for axle and hypoid transmissions calling for API GL-5-performance
- The formulation has proven its performance with many OEMs

## TITAN SINTOPOID LS 75W-90

#053002-006



- Low temperature transmission fluid mechanical steering





## 10W30 Motor Oil

#363500-001

- 0.9 l
- Superior high quality, multi-viscosity and fuel-efficient motor oil which exceeds manufacturers' warranty requirements.
- Provides the highest API performance level available for gasoline engines.
- Exceeds U.S. car and truck warranty requirements.
- Thermal stability to combat sludge buildup.
- Anti-rust and anti-foam additives



## Brake Fluid DOT 4

#053059-002

- 1 l
- MAINTAIN DOT 4
- Super High-Performance Brake Fluid for hydraulic brake systems and clutch actuation in passenger cars, lift trucks and motorcycles
- Additional protection against high temperature vaporization
- Protects the entire hydraulic brake and clutch actuation system against deposits and corrosion



## Automatic Transmission Fluid

#363503-001

- 0.9 l
- Premium transmission fluid provides transmission protection, smooth shifting and long service life.
- Meets the requirements of most US and import specifications.
- Recommended for service in cars & light truck automatic transmissions where Dexron® III or Mercon® fluid is specified.
- Meets Allison C-4, ZF TEML 14 Heavy Duty



## Brake Fluid DOT 5

355 ml #063004-002  
3.7 l #063004-003

Premium brake fluid that meets all required specs for use in Crown lift trucks



## Screenwash Additive

#TA0199

- 5 l
- Window cleaner with antifreeze for windscreen washer systems
- Improved freeze protection
- Excellent, improved cleaning performance
- Gentle on materials
- Always follow mixing table before use



## Universal 10W30 Motor Oil

#363510-101

- 3.75 l
- Universal 10W-30 Heavy Duty Motor Oil exceeds the demands of API Service Classification CJ-4/CK-4/SN, CI-4 Plus.
- It meets the requirements of Mack EO-O Premium Plus, Volvo VDS-4, Renault VI RDL-3 and Detroit Diesel 93K218 (MBE 4000, MBE 900 Engines).
- It is a commercial multigrade oil for all-season use by fleets with diesel power or mix of gasoline and diesel power engines.
- This oil is designed to perform with currently marketed low and high sulfur diesel fuels.
- It provides exceptional low temperature flow properties to help cold start, enhanced oxidation stability, excellent TBN retention, superior viscosity retention, deposit control, superior engine protection and durability and outstanding soot handling ability.



## Coolant

#850692

- 1 l
- GLYSANTIN® G30® is a silicate-free premium coolant from the GLYSANTIN® series.
- This radiator protection agent uses the so-called OAT technology. In this process organic salts are responsible for protection against radiator corrosion.
- The product colour of GLYSANTIN® G30® is pink.

## Lubricant Overview


Get an overview of the lubricants that Crown Trucks need:

- German #841167-001
- French #841167-002
- Spanish #841167-003
- Dutch #841167-004
- Italian #841167-005
- English #841167-006
- Russian #841167-021

Free Download in the Partner Extranet


	90/120	87	85P	85	87/82	88R	88/140	88	150	8P	8C
Hydraulik	VERSCHLEISS										
	Ölmenge (in Liter)	0,9		0,75							1,7
	Wartungsintervall	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.
Motoren	VERSCHLEISS										
	Ölmenge (in Liter)	1,8	1,8	1,8	1,8		3,8	0,7		7,1	0,7
	Wartungsintervall	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.
Schwinge	VERSCHLEISS										
	Ölmenge (in Liter)	0,75	0,5	0,8	0,75	0,4	0,7	24, 32 oder 38 24, 32 oder 38 24, 32 oder 38	22, 37	36	17,5
	Wartungsintervall	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon.	3.000 h 24 Mon. C, 3.000 h 24 Mon.	3.000 h 12 Mon.	3.000 h 12 Mon.	3.000 h 12 Mon.
Schwinge	VERSCHLEISS										
	Ölmenge (in Liter)										
	Wartungsintervall										
Schwinge	VERSCHLEISS										
	Ölmenge (in Liter)										
	Wartungsintervall										

- Hier nur Standardölswechsel aufgeführt.  
- Bei einigen Geräten muss der erste Ölwechsel vor den




**Pump Suction Oil Testing**

#363515-001  
Test hydraulic and motor oil



**Tube, 30 m**

#363515-002



**Oil Pan**

16 l	#TA0168
7.5 l	#TA0168-002 *


- For changing oil
- Oil filter and cleaning parts
- Carrying handles
- All-round overflow rim
- Pouring tap



**Funnel Kit (6+1 Pieces) \***

#TA0140

- PRESSOL
- 50/75/100/120/150/160 mm
- HDPE



**Funnel \***

#832855


- REILANG
- Sieve
- 250 mm
- Plastic
- Oil-, acid- and fuel-resistant



**Plastic Canister**

5 l	252 mm × 145 mm × 195 mm	#TA0041-5 *
10 l	306 mm × 192 mm × 232 mm	#TA0041-10 *


- HÜNERSDORFF
- PE
- UN approval



**Measuring Cup \***

#TA0218

- PRESSOL
- 1 l
- With protective cover, protective cap, flex outlet
- HDPE



**Safety Glasses Full Protection**

#TA0015-002

- HONEYWELL
- EN 166
- Frame clear
- Lens clear
- PVC
- Polycarbonates
- Dual-coated
- Chemical-resistant
- Fog-free
- Indirect ventilation



**Safety Glasses Amber UV**

#363200-008

Lens yellow



**Safety Glasses Amber OTG**

#363200-010

Lens yellow



## Grease Cartridge

#F806117

- 400 g
- High pressure resistant due to EP additives
- Excellent emergency running properties due to graphite
- Good sealing effect and corrosion conditioning
- Very good dust, dirt and water repellent
- AOX-free
- Silicone free
- Acid free
- Resin free
- Heavy metal free
- Shelf life from manufacture: 60 months
- Density: 0.871 g
- Temperature range: min. -30 °C/max. +130 °C



## Grease Cartridge Without Graphite

#F806118

- 400 g
- AOX-free
- Silicone-free
- Acid-free
- Resin-free, heavy metal-free
- Temperature range: min. -30 °C/max. +130 °C
- Shelf life from manufacture: 60 months
- For long lubrication intervals
- High-pressure resistant due to EP additives
- Good sealing effect and water resistance
- Oxidation and corrosion resistant



## Grease Heavy Duty, Salt Water

#053002-013

- 500 g
- RENOLIT CX-HT 2 features excellent working stability, good anti-wear properties, extremely good EP resistance and outstanding corrosion conditioning even in the presence of salt water
- Application especially for corrosion and wear protection requirements in conjunction with higher temperatures
- High flex stability
- Very good wear protection
- Good corrosion conditioning
- Good water resistance
- EP resilient



## MOLYKOTE BR2-Plus Multi Purpose Extreme Pressure Grease

400 g #063002-024  
16 kg #063002-022

- Extreme pressure bearing grease
- Used for ball bearings, roller bearings, sleeve bearings, swivel joints, metal-to-metal, spindles, splines and shafts
- Recommended using in mast channels



## Lubricating Grease Cartridge

#TA0264

- 400 g
- Megrol rolling bearing grease LP2
- Rolling bearing grease based on a lithium soap, with highly effective additive packages and EP additives.
- Contains highly effective corrosion and oxidation protection, as well as EP additives, which ensure optimal performance even under extreme conditions and high pressures.
- Is able to absorb a high water content without losing its temperature application range
- -30 °C to +120 °C
- Briefly up to +130 °C



## Low Temperature Multi-Purpose Grease

#063002-017

- 410 ml
- High-performance grease for low temperature applications
- Provides a high resistance to water wash and prevents wear in the coldest environments
- Temperature range: -50 °C to +90 °C



## Food Grade Multi-Purpose Grease

#TA0262

- 400 g
- Advanced food grade grease specially formulated for the toughest food processing applications
- Provides outstanding protection against wear and water washout, over a wide range of operating temperatures
- Meets the highest food industry safety standards
- Temperature range: -4 °C to +200 °C



## Spline Grease

#127801S

- 28 g
- Synthetic spline grease with PTFE & MoS2
- Used specifically for Crown lift pump motor spline connection



## Battery Terminal Grease

#TA0090

- Well supportable
- Water-repellent
- Application temperature -30 °C to +60 °C

## Lubricant Spray

#834928



- 400 ml
- This sliding spray is suitable for all lubrication points, such as mast profiles, lifting rods and seat rails
- New lubricant spray based on a white high-performance grease
- Creep-effective
- Good adhesion
- Prevents fretting corrosion
- Safe corrosion protection
- Splash water and temperature stable
- Reduces friction and wear

## Cooper Spray

#TA0042



- 300 ml
- AOX and silicone-free
- Shelf life from manufacture 24 months
- Temperature range min. -40 °C/max. 1200 °C
- Resistant to water
- Provides long lasting protection against seizure, cold welding, wear, corrosion and fretting corrosion

## High Performance Lubricant

#F806112



- 500 ml
- HHS 5000
- Extremely temperature-resistant full synthetic creep oil with PTFE

## Lubricant Spray

#F806114



- 500 ml
- HHS 2000
- Extremely high-pressure resistant part synthesis oil

## Food Lube Spray

#TA0263



- HHS 2000 Plus
- High pressure resistant lubricating oil with excellent adhesion properties
- Free from microplastic
- Silicone, resin and acid free, n-hexane free

## Start Kit 3 x 150 ml

#833723



- Includes:
- 1 x 150 ml Lubricant Spray (400 ml: #834927)
  - 1 x 150 ml Chain Lubricant Spray (400 ml: #834928)
  - 1 x 150 ml Special Cleaner (500 ml: #834929)

Recommended by Crown

## Chain Lubricant Spray

#834927



- 400 ml
- For the care of forklift chains, does not attract dust or fluff. Also suitable for use outdoors and in aggressive environments
- Synthetic chain and rope lubricant with high-performance additives of OMC2 technology
- Reduces friction and wear
- Very good penetration and adhesion properties
- Extremely low evaporation residue
- Very good corrosion protection
- Does not resinify and stick together
- Silicone-free
- Use up to approx. +200 °C

## Chain Spray LIQUI MOLY

#TA0146-001



- 400 ml
- Excellent creep behavior
- Resistant to cold, hot and splash water, suitable for O-ring chains
- Reduces friction and wear, prevents chain elongation on high-performance motorcycles

## Chain Lubricant Spray Rexoil

#824805



- 400 ml
- High-Performance Spray Rexoil from Rexnord
- Excellent corrosion protection
- Proven for lift trucks, conveyor systems, packaging machines, textile machines, etc.
- Food, beverage and packaging industry
- Excellent creep and lubrication properties
- Safely dissolves lubricant residues
- Has the ability to infiltrate and displace water
- Free of silicone and Teflon
- Suitable for applications from -10 °C to +150 °C
- Easy and comfortable handling due to extended Spray head
- CFC- and CPC-free
- NSF H2 approval
- DIN EN ISO 14001



**Paint Aerosol Cans, 400 ml**

Crown 90 Orange	#835256-002
Crown 88 Dark Grey	#835256-007
Crown 94 Med Grey	#835256-008
Crown 94 Beige	#835256-009
Crown 88 Blue	#835256-010
Crown Alpine White	#835256-025
Crown Crystal Silver	#835256-029
Crown Control Orange	#835256-031
Crown Bright Beige	#835256-033
Crown Medium Silver	#835256-037

**Air freight not possible!**



**Paint Cans, 1000 ml**

Crown 88 Dark Grey	#850691-007
Crown 94 Med Grey	#850691-008
Crown 94 Beige	#850691-009
Crown Bright Beige	#850691-033



**Colour Sample DS 3200**

1 Crown Control Orange	#835256-031
2 Crown Bright Beige	#835256-033
3 Crown 88 Dark Grey	#835256-007
4 Crown 94 Med Grey	#835256-008

Here you find an example of the colour selection for a DS 3200. For the exact colour selection for a special Crown lift truck, please refer to the service manual or contact your service contact.



### Adhesive DEVCON Zip-Grip

#061001-004

- 14 g
- Suitable for bonding plastics, rubber, metals and dissimilar substrates. Adhesive fixes in seconds and provides a durable bond. Resistant to aging and weathering. Low viscosity for close fitting parts. Use on grommets and pedal pads



### Adhesive HERNON Instant Bond 113 General Purpose

#061001-007

- 25 ml
- This thin liquid is suitable for close tolerance bonding of a wide variety of materials
- Used on self tapping screws



### 2K High Performance Adhesive

#TA0257

- PROMAT CHEMICALS
- 50 g
- Milky
- Double cartridge
- High strength bonding of metal, stone, plastic, ceramics etc.
- Use in combination with TA0153
- **Air freight not possible!**



### LOCTITE 425 Instant Adhesive

#061004-028

- 20 g
- Cures within two minutes on plated metal and plastics fasteners with full strength in 24 hours
- Used for tamper proofing the heads of screws or potentiometers



### LOCTITE 454 Instant Adhesive

#TA0265

- 20 g
- Universal gel instant adhesive
- Does not flow or drip
- Perfect for all quick repairs
- Ideal for overhead work and vertical surfaces
- Does not absorb, suitable for bonding porous/ highly absorbent materials
- Bonds wood, metal, ceramics and most plastics to and with each other



### LOCTITE 498 Super Bonder Adhesive

#061001-022

- 29 ml
- A medium viscosity, high temperature product for all metals and most plastics and rubbers
- Resists temperatures to 105 °C continuous or up to 120 °C intermittent
- Used on thermal sensor on lift and drive motors



### LOCTITE 609 and 680 Retaining Compounds

LOCTITE 609 Press Fit  
0.5 ml #061004-025  
10 ml #061004-009

LOCTITE 680 Slip Fit  
0.5 ml #061004-027  
50 ml #061004-022



### LOCTITE 638 High Strength Joining Adhesive

#TA0266

- 10 ml
- Tolerates minor surface contamination, even from industrial oils
- High strength on all metals, even on passive materials (e.g. stainless steel)
- High temperature resistance
- Ideal for parts used in gearboxes, on engines or similar applications
- DVGW approval (EN 751-1): NG-5146AR0619
- P1 NSF Reg. No.: 123010
- WRAS approval (BS 6920): 0511518



### 3M Scotch-Weld Epoxy Adhesive

#146112

- DP420 Black
- High performance, two-part epoxy
- Adhesives offering outstanding shear and peel adhesion, and very high levels of durability
- High shear strength
- High peel strength
- Outstanding environmental performance
- Easy mixing
- 20 minute worklife

## Chemicals | Lubricant



### Permatex 133K Anti-Seize Lubricant

#065005-003

- 230 ml
- Heavy duty, formulated not to evaporate and harden, contains a heavy duty blend of aluminium, copper and graphite
- Designed to prevent galling, corrosion and seizing of mated parts
- Withstands salt, corrosion and moisture
- For use in assemblies up to 871 °C
- Meets Mill Spec #907E

## Chemicals | Insulator



### Silicon Dielectric

#063002-018

- 155 ml
- Insulator and bushing flashover protection
- Good resistance against oxidation, moisture and salt spray



### Electrical Insulating Paste

#053051-006

- 100 g
- Contains silicone
- Provides moisture barrier
- -20 °C to +200 °C
- Applications: electrical assemblies and terminals, cable connectors, battery terminals and rubber and plastic O-rings

## Chemicals | Heat Sink Compound



### Silicone Heat Sink Compound

#063002-029

- 140 ml
- Thermal coupling of electrical/electronic devices to heatsinks
- High thermal conductivity, low bleed, stable at high temperatures
- White grease-like silicone heavily filled with heat-conductive metal oxides
- Used on Access II and III traction control modules



### Heat Sink Silicone Compound

#093983

- 28 g
- Extra high-efficiency heat transfer compound
- Used on heatsink assemblies, SCR panels, contactor panels and freezer heaters and limit switch assembly





**LOCTITE SF 7471 Primer**

#061004-002

- 133 ml
- LOCTITE SF 7471 Locquic Primer T – Increases cure speed of LOCTITE anaerobic products
- Especially recommended for applications with passive metals or inert surfaces and with large bond gaps
- Use of activator is particularly recommended for cure conditions below 15 °C



**LOCTITE SF 7649 Primer**

#TA0267

- 133 ml
- LOCTITE SF 7649 Primer N – a solvent-based primer that features very long on-part life
- Use to speed the cure of all LOCTITE Anaerobic Products and ensure proper cure on inactive metals
- Ideal for cure conditions below room temperature



**LOCTITE 7066 Primer Spray**

#053050-035

- 400 ml
- LOCTITE 7066
- Cleaner and degreaser for parts machines and surfaces before bonding
- Solvent-based universal parts cleaner
- Ideal for pretreatment before the application of adhesives and sealants
- Leaves no residue



**LOCTITE Thread Sealant**

LOCTITE 569 High strength hydraulic sealant  
50 ml #061004-011

LOCTITE 565 PST pipe sealant  
50 ml #061004-023  
250 ml #061004-029



**Security Sealant**

#065102-002

- 29 ml
- Used to visually detect any movement in the adjustment of parts
- Used on compression fittings, studs, nuts, parts and assemblies after they have been set to proper tension or position
- Inspectors can visually detect any movement or tampering



**Marker**

#TA0076

- 50 ml
- WIKO Screw Locking Varnish is a conventional Security and marking lacquer; Used for marking the screw connection of OHG and chassis
- Changes in the screws are therefore easy to detect



**LOCTITE Thread Locker**

LOCTITE 271 High strength  
0.5 ml #061004-019  
10 ml #061004-010

LOCTITE 242 Medium strength  
0.5 ml #061004-026  
10 ml #061004-012

LOCTITE 290 Fast cure, penetrating, preassembled parts  
10 ml #061004-014



**LOCTITE 518 Liquid Gasket**

50 ml #061004-030  
300 ml #061004-015

- LOCTITE 518
- Gasket Eliminator: preferred sealant for aluminium flanges



**LOCTITE 574 Flange Sealant**

#805044

- 50 ml
- Fast curing, provides resistance to low pressures immediately after assembly of flanges



**Form-A Sealer Gasket Liquid**

#065005-001

- 470 ml
- Resists hot and cold water, antifreeze, glycerine, fuel oil, kerosene, butane and other fluids
- Pressure resistant and leakproof to high octane gasoline, grease and lubricating oils
- Applied as liquid changes to paste in a few second



**LOCTITE MR 5009 Hi-Track Gasket Sealant**

#065005-002

- 470 ml
- Red-coloured, liquid sealant that holds gaskets in place during assembly
- Seals and bonds rubber, cork, paper, felt, metal and asbestos gaskets
- Sets quickly to a very tacky film



**Seal Fluid**

#805236-001

- 100 ml
- Silicone-based sealant
- Black
- Application for valve cover, oil pan, water and oil pump, differential housing, etc.

## RTV Sealant Multi, DOW CORNING

#065031-005



- 88 ml
- 734 Flowable Sealant
- 100 % silicone rubber
- Self-leveling consistency
- Forks flexible, long lasting seal
- Extreme temperature performance
- Applications: making formed in place gaskets, filling minute cracks and crevices, sealing electrical equipment, sealing threads, coating fabrics and encapsulating small components
- Used on heaters in freezer applications

## Tape

### Tape, Crown

#MA0207



- Packaging adhesive tape Crown
- 75 mm x 66 m

### Insulation Tape \*

#TA0182



- COROPLAST
- Black
- Length: 10 m
- Width: 15 mm
- Roll
- VDE approval
- Heavy flammable and resistant to aging acc. to DIN EN 60454-3-1 F-PVC/105/ATx type 10
- Largely resistant to diluted acids and alkalis as well as against automotive fluids
- High flexibility

### Fusion Tape

#061000-015



- 25 mm x 0.5 mm x 9 m
- Fusion tape is very easy to use and is ideal for wrapping electrical cable splices and terminations
- It provides neat, trim, long-lasting insulation on a wide range of sizes, shapes and materials. Applications are mostly electrical but fusion tape can be used in a wide variety of areas
- This durable, black elastic tape has excellent electrical properties, water resistance, ozone resistance and corrosion resistance at temperatures ranging from -40 °C to +100 °C continuous and to +130 °C for short periods of time

### Double Side Adhesive Tape

#053050-009



- 19 mm x 54 m
- Double sided adhesive

### Electrical Tape

#061000-020



- 3M Highland
- Vinyl Electrical Tape
- 19 mm x 20.1 m x 0.177 mm

### Electrical Tape

#380030-053



- 20 m
- Suitable for use at not more than 600 V and not more than 80 °C
- UL rated

### Tape 12 mm

#061000-003




- 3M
- Reinforces corrugated and fibreboard boxes
- Tackles heavy duty sealing and bundling
- Recommended for "L" clip closures and "C" clip reinforcements
- Excellent abrasion, moisture and scuff resistance
- Clear polypropylene backing reinforced with glass yarn filaments
- Synthetic rubber adhesive

### Thread Sealing Tape \*

#TA0116




- PTFE sealing tape for fine threads according to DIN EN751-3
- Temperature application range from -240 °C to +260 °C
- Food safe
- 12 mm wide



**Cable Tie Kit**

Black	#TA0176 *
Nature	#TA0176-002

- 350 pieces
- Polyamide, black/UV-stable
- Contents:
  - 100 pieces each: 2.5 x 100 mm, 4.8 x 280 mm
  - 50 pieces each: 3.6 x 150 mm, 3.6 x 200 mm, 4.8 x 368 mm



**Cable Tie**

Size	Black	Nature
100 mm	#051051-007	#051051-001
190 mm	#051051-008	#051051-002
290 mm	#051051-009	#051051-003

1 piece

## Gloves Nylon, Grey



M	#TA0121-009
L	#TA0121-010
XL	#TA0121-011

- STRONGHAND
- 12 pairs
- Grey/black
- Fine knit
- Seamless
- Micro-PU/nitrile foam palm coating
- Breathable
- Liner in stretch design
- Flexibility and wearing comfort
- Very good tactile sensation
- Secure grip too with smooth objects
- Good resistance to oils and greases

## Gloves With Knobs



M	#TA0122-009
L	#TA0122-010
XL	#TA0122-011

- STRONGHAND
- 12 pairs
- Grey/black
- Fine knit
- Seamless
- Micro-PU/nitrile foam palm coating
- Breathable
- Liner in stretch design
- Flexibility and wearing comfort
- Very good tactile sensation
- Secure grip too with smooth objects
- Good resistance to oils and greases

## Gloves Nitril, Yellow



L	#TA0003
XL	#TA0007

- 12 pairs
- Polyester/Nitrile
- Standards Cat. II, EN 388

## Glove Work White



L	#TA0004
XL	#TA0008

12 pairs

## Gloves Grain Leather



L	#TA0005
XL	#TA0009

- Cowhide leather
- Standards Cat. II, EN 388

## Gloves for Welding Leather



#TA0021 (one size)

- One pair welding gloves
- Cowhide full/split leather
- Unlined
- Natural
- Norm: EN 420, EN 388, EN 407, EN 12477-A: EN 420, EN 388, EN 407, EN 12477-A

## Stronghand Nitril Gloves



Orange	7	#TA0192-007
Orange	8	#TA0192-008
Orange	9	#TA0192-009
Black	9	#TA0256-009
Orange	10	#TA0192-010
Black	10	#TA0256-010
Orange	11	#TA0192-011
Black	11	#TA0222-011

- One-way glove
- 50 pieces
- Nitrile
- Strong
- EN 388, EN 374, Cat. III
- Powder free
- Food grade
- Excellent grip and support through waffle pattern
- High resistance
- On both sides portable
- Latex-free

## Battery Acid Resistant Gloves



8	#TA0048-M
9	#TA0048-L
10	#TA0048-XL

- ASATEX
- EN 388, EN 374, Cat. III
- Neoprene/latex
- Fully coated with cotton flocking
- Oil and grease repellent
- Chemical resistant
- Food-safe

## Nitril Gloves



M	#TA0191-009
L	#TA0191-010
XL	#TA0191-011

- SEMPERMED
- One-way glove
- 100 pieces
- Nitrile
- EN 388, EN 374, EN 455 ca. III
- Powder-free
- Food tested
- Free of latex allergens
- Textured fingertips

## Cut Protection Gloves



Size 8	#TA0235-08
Size 9	#TA0235-09
Size 10	#TA0235-10
Size 11	#TA0235-11

- Standard: EN 388
- Fine knit, seamless
- Cut protection level according to EN ISO 13997, Level C
- Breathable
- Optimal grip even in oily environment due to nitrile coating

## Gloves

### Gloves Winter, Black



M	#300094-001
L	#300094-002
XL	#300094-003

- Crown branded Integrity Logo
- Lightweight, yet durable for the toughest tasks
- Synthetic leather
- Palm extends life of the glove while the spandex back provides breathability
- Reinforced fingertips for maximum durability
- Easy slip-on, open cuff design
- Sold by the pair

### Cold Store Gloves



S	#TA0034-9
M	#TA0034-10
L	#TA0034-11
XL	#TA0034-12

### Touchscreen Gloves



#MA0077 (one size)

- Crown branded
- Enables operation of touchscreens

## Floor Mat

### Crown Branded Mats



60 × 90 cm	#MA0191-001
90 × 150 cm	#MA0191-002
115 × 180 cm	#MA0191-003
90 × 300 cm	#MA0191-004

- Stops dirt and moisture
- Durable nylon surface
- Non-slip rubber backing (NFSI High-Traction)
- PVC free
- Suitable for underfloor heating
- Made in Europe
- EN 14041 Antistatic
- Total weight: 2.48 kg/m<sup>2</sup>
- Total height: approx. 9 mm
- Dirt holding capacity: 600 g/m<sup>2</sup>
- Water absorption capacity: 3–4 l/m<sup>2</sup>



# SAFETY EQUIPMENT

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## Eye Protection



### Safety Glasses Amber UV

#363200-008  
Lens yellow



### Safety Glasses Solus \*

#TA0015  

- 3M
- EN 166, EN 170-1FT (AS/AF/UV)
- Bracket black/orange, PC, lens clear, Cat. 2

Top-seller!



### Safety Glasses Visitor

#TA0015-1  

- Visitor eye glasses
- Lens clear



### Safety Glasses Daylight One

#TA0024  

- Promat
- Lens tinted
- EN 166
- Scratch-resistant
- 100% UV protection up to 385 N m, fog-free
- Category 2



### Wipes for Safety Glasses

#TA0101  

- Practical removal box with 100 individually packed wet cleaning wipes
- Suitable for all eyeglass coatings



### Safety Glasses Amber OTG

#363200-010  
Lens yellow



### Safety Glasses Full Protection

#TA0015-002  

- HONEYWELL
- EN 166
- Frame clear
- Lens clear
- PVC
- Polycarbonates
- Dual-coated
- Chemical-resistant
- Fog-free
- Indirect ventilation



### Safety Glasses Over

#TA0015-2  

- Can be comfortably worn over most corrective glasses
- Lens clear
- EN 166:20011 FT



### Safety Glasses Full View

#TA0050  

- HONEYWELL
- Fog-free/Scratch-resistant
- 180° field view, Lens clear, EN 166
- 10 pieces



### Mirrored Safety Glasses

#TA0251  

- HONEYWELL
- EN 166:2001



### Sidecover Glasses

Size Small #TA0239-SMALL  
 Size Large #TA0239-LARGE  

- Small in blue transparent
- Large in transparent



## Face Protection



### Face Protection Acid Resistant

#TA0052

Clear polycarbonate lens approximately 1 mm thick, foldable, temperature resistance -30 °C up to +90 °C, DIN EN 166:2001

## Fall Protection



### Lanyard Retractable

#841701

- Miller Turbo Lite Edge
- Rated Working Load: 140 kg
- Length: 1.8 m
- EN360 CE Certificate



### Full Body Harness

Operator Body Size	Harness Weight	
155 cm–180 cm	1.100 g	#848020-001
175 cm–205 cm	1.190 g	#848020-002

- Edelrid Flexlite
- EN361 Certificate: ANSI / ASSE Z359.11-2014
- Max. Operator Weight: 150 kg

## Hearing Protection



### Hearing Protection

#TA0194

- 3M
- EN 352-1 (SNR), 31 dB, headband
- Dielectric, medium capsule design



### Ear Plugs in Box \*

#TA0132

- Promat
- Ear Plugs SAFELINE I EN 352-2, reusable, with connecting cord, SNR 25 dB
- Storage box (box of 1 pair)
- Dirt-repellent surface



### Hearing Protection

#TA0038

Promat, hearing protection with a high attenuation value, despite low weight and slim profile – padded headband, thus very comfortable to wear – large adjustment range – soft wide sealing rings – particularly durable quality – modern design – EN 352-1/(SNR) = 28 dB (A)/H-value = 29 dB (A)/M-value = 26 dB (A)/L-value = 19 dB (A) – Property: slim capsules



### Breathing Protection Kit \*

#TA0045

- 3M
- Protection against hazards caused by pollutants in Gases, vapours and particles
- 1× half mask size M
- 2× gas and combination filter A2
- 4× article insert filter P3R
- 2× filter cover
- EN 140



### Dust Mask in Box

#TA0254-FFP1-01

- 3M Particle mask
- Protection against non-toxic particles on water and oil basis
- Filters at least 80% of pollutants from the air
- Sturdy outer shell for greater stability
- Textile headbands for more comfort with exhalation valve



### Filter Aerosol

#TA0045-001

- 3M
- For Protection Mask No. 6055 (boiling point above 65 °C) up to a maximum concentration of 5000 ppm
- 2 pieces



### Surgical Mask

#TA0254-MNS-50

- 50 pieces
- Skin friendly
- 3 filter layers, eliminating microparticles from your surroundings
- Prevents inhalation of the bacteria cough/sneeze/speaking



### Cover for Protection Mask

#TA0045-003

- 3M
- No. 501
- Filter cover for combining 3M® gas filters with 3M® particle filters
- CE certification
- 2 pieces



### FFP2 Mask

#TA0254-FFP2-001  
#TA0254-FFP2-010

- 3M 8810 Breathing Mask
- DIN EN 149:2001
- Double head harness
- Foam padded nose area
- Nose clip made of aluminium



### Filter Dust

#TA0045-002

- 3M
- For protection mask, No. 5925
- 2 pieces
- EN 143:2000+A1:2006, P2R
- Prefilter to gas filter/combination



### First Aid Service Team

- |                                 |             |
|---------------------------------|-------------|
| First Aid Service Team          | #TA0255     |
| First Aid Case, 1 pcs.          | #TA0255-100 |
| Eye Wash Fluid, 1 pcs.          | #TA0255-101 |
| Pressure Lock Bag, 2 pcs.       | #TA0255-102 |
| YPSILIN® Wound                  |             |
| Cleaning Set, 1 pcs.            | #TA0255-103 |
| Cold Compress Disposal, 2 pcs.  | #TA0255-104 |
| Splitter Tweezers, 1 pcs.       | #TA0255-105 |
| Gaze Bandage Size M, 1 pcs.     | #TA0255-106 |
| Bandage, 1 pcs                  | #TA0255-107 |
| Eye Compresses, 1 pcs.          | #TA0255-108 |
| Paving Set, 1 pcs.              | #TA0255-109 |
| Band Aid YPSIPLAST®, 1 pcs.     | #TA0255-110 |
| Aquatic quick Bandage           | #TA0255-111 |
| ES Compression 5 × 5, 1 pcs.    | #TA0255-112 |
| Disinfection Gel Pocket, 1 pcs. | #TA0255-113 |


- Please note that some products have an expiry date.
- Only in German and English language available.



### Respirator Mask, Solo

#TA0045-004


- 3M
- Bayonets click connection
- Double filter system for reduced breathing resistance and good weight distribution
- Compatible with 3M safety goggles



**Sleeve Guard Acid Resistant**

#TA0190


- TYVEK
- Elasticized top and bottom
- Certified according to Regulation (EU) 2016/425, partial body protection, category III, type PB[6] EN 1412



**Acid Apron**

#TA0191


- GUNOVA
- 120 cm x 90 cm
- Black
- Acid resistant
- EN 467, EN 530, EN 863, EN 369
- Made from strong, resistant foil cut with reinforced welded plastic eyelets



**Safety West \***

#TA0016


Crown branded, orange



**Safety West**

#TA0016-001


- Yellow
- PVC, polycarbonate



**Safety West with Zipper**

#TA0016-002

- Crown branded
- Orange
- With zipper
- PVC, polycarbonate
- Available sizes: S, M, L, XL



**Overall Chemical Protection**

XL (58/60) #TA0049-XL  
XXL (62/64) #TA0049-XXL


- CoverChem
- Yellow
- SMMS material
- 3-piece hood, with elastic band, double glueable zipper cover, masking chin guard, tight mask closure, thumb loop
- Category III/type 3 (3B) + 4 (4B) + 5 (5B) + 6 (6B)



**Safety Helmet Orange**

Helmet #TA0030 \*  
Chin Strap for #TA0030 #TA0030-001  
Forehead Pad for #TA0030 #TA0030-002


- Orange
- Polyethylene
- EN \$2397
- 6-point textile strapping
- Push-lock system
- Exchangeable wristband forehead
- 30-mm-pocket
- Mounting device for chinstrap



**Safety Helmet Visor**

White #TA0233-001  
Orange #TA0233-002

- According to EN 397 and integrated visor according to EN 166
- Polyethylene
- 6-point webbing interior with highly absorbent sweatband
- Chin strap holder
- Head circumference: 51 – 64 cm
- Weight: 475 g



**Welding Protection Blanket**

#TA0094

- JUTEC
- JT 600 HAT
- 1000 mm x 2000 mm
- Contact heat 850 °C



**Skirt for Welding**

#TA0022

- One size
- Calf leather

## Lift Truck Safety



### Lockout/Tagout Kit (Single Connector Only) \*

#300037



- Includes: 10 lockout tags, dual language tags English/Spanish
- Fits SB And SBX connectors
- Fits 50, 175 and 350 AMP connectors
- Individual Items:
  - #300037-002 (Box only)
  - #300037-003 (Lock only)
- Accessories:
  - #300037-025 (Tag Refill Kit, 25 pieces)

Used and recommended by Crown DP Training



### Safety Cone

#TA0060

- Height: 500 mm
- Daylight illuminated
- 2 strips
- Weight: 1.20 kg
- 29 cm x 29 cm



### Safety Cone, Fold \*

#TA0060-001

- Safety cones foldable
- With LED emergency light
- Red



### Clamp \*

500 mm x 120 mm #TA0053  
300 mm x 140 mm #TA0054

Promat



### Lockout-Bag \*

#843750

- For closing battery connectors etc.
- With cord to close and lock
- Material Canvas
- Print: "Lockout for Safety"

#300037-003

Lock only

## Wheel Chock and Blocks

### Wheel Chock



### Wheel Chock, small

#340094-001

- 3" x 2.5" x 3" (approx. 7 cm x 6 cm x 7 cm)



### Blocking Outrigger, large

#340094-002

- 5.8" x 3.6" x 9.5" (approx. 15 cm x 9 cm x 24 cm)



### Wheel Chock \*

#340094-003

- Approx. 13 cm x 10 cm x 20 cm
- 1.93 kg

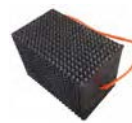


### Wheel Chock, 2 Pieces \*

#340094-004

- Approx. 10 cm x 8 cm x 6 cm
- 0.75 kg

### Blocks



### Block, Composite \*

#061144

- Pyramid surfaced
- Approx. 15 cm x 17 cm x 25 cm
- 6.93 kg



### Block, Composite \*

#061143-001

- Mast block, short
- Approx. 10 cm x 10 cm x 56 cm
- 5 kg

#061143-002

- Mast block, long
- Approx. 10 cm x 10 cm x 122 cm
- 11.34 kg



### Block, Composite \*

#061141

- Outrigger block
- Approx. 9 cm x 6 cm x 15 cm

Used and recommended by Crown DP Training

## Wheel Chock and Blocks



### Block Composite, Pyramid Surfaced \*

#061144



#### Block, Composite

#061142-001

- Block Panto RD
- Approx. 9 cm x 6 cm x 23 cm
- 1.53 kg

#061142-002 \*

- Outrigger Block
- Approx. 9 cm x 6 cm x 33 cm
- 2.36 kg

### Ramp



#### Ramp \*

#340094-005

- Pyramid surfaced
- 50 cm x 18 cm x 2.5 cm
- 3.15 kg

### Forklift Jack



#### Hydraulic Fork Lift Jack With Two Stands

#340580

- 3990 kg capacity
- Spring loaded lowering knob for safety

#### Forklift Jack \*

#340582



#### Fork Lift Stands (Two pcs.)

#340581

- 7 t capacity per set of two



#### Forklift Jack High Capacity

#340584

- 6350 kg capacity
- Note: 1-year warranty



#### Lifter \*

#TA0069

- UNICRAFT
- HMF 5 Hydraulic machine jack
- 5000 kg

### Crown recommends each technician carries the following...

Qty.	Description	Part-No.
2	Block pyramid surfaced	#61144
2	Mast block short	#061143-001
2	Mast block long	#061143-002
2	Chock	#340094-003
2	Chock	#340094-004
2	Clamp 500 mm x 120 mm	#TA0053
2	Clamp 500 mm x 120 mm	#TA0054
1	Ramp (optional)	#340094-005



# WORK ASSIST

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## Clamp



### Clamp for Tube Kit WA

#130145

Use for 2 inch tube



### Clamp Peanut Kit 90° WA

#143840-001

Use on C-5 and SC 6000/6200, in line w/truck mtg



### Clamp Peanut Kit 45° WA

#143840-002

Use on C-5 and SC 6000/6200 , 45° angle

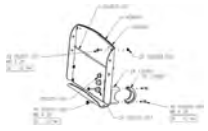


### CG CD Clamp Kit

#330146

Used on CG/CD front OHG

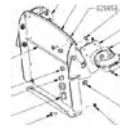
## Clip Board



### Clip Board + Clamps Kit WA

#826992

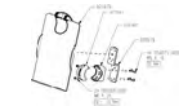
- Clamps from behind
- 48 cm wide
- Use for cross tube



### Clip Board Kit w Clamp WA

#E-831432

- Use for vertical tube
- Adjustable angle
- 48 cm wide



### Clip Board A4 w Clamp Kit WA

#826996

- Use for cross tube
- Without bracket #826679 use for vertical tube



### Clipboard Small

#E-841520-001

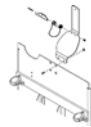
Use on WP 3000/3200 with load backrest



### Clip Pad +Clamp Kit WA

#131415

Use for vertical tube



### Clip Pad Kit w/o Clamp WA

#151743

Use on WP 3000/3200



### Clip Pad +Clamp +Bracket Kit

#146238

Use for vertical tube and cross tube



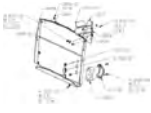
### Large Clip Board

#E-823412-007

- Use for cross tube
- 63 cm wide
- Inkl. Clamps #130145




## Clip Board + Scan Gun Holder



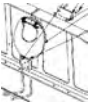
**Clip Board + Scan Gun Holder Kit**  
#826993

- Use for cross tube
- 48 cm wide



**Clip Pad+Hook +Clamp Kit WA**  
#E-814856


Use for vertical tube



**Small Clipboard & Scan Holder**  
#E-841520-005


Use on WP 3000/3200 with load backrest

## Cup Holder



**Cup Holder +Clamp Kit WA**  
#145078


- Use for vertical tube and cross tube
- For bottle diameter 70 – 116 cm



**Cup Holder +Clamp Kit WA**  
#827594


- Use for vertical tube and cross tube

## Monitor




**Arm flex for Monitor Kit WA**  
#E-822295

Use for vertical tube




**Plate for Monitor +Clamp Kit**  
#131418

Use for vertical tube




**Plate for Monitor +Clamp Kit WA**  
#E-814720

Use for vertical tube




**Plate for Monitor LXE Kit WA**  
#126236-001

Use for vertical tube



**Plate for Monitor +Clamp Kit WA**  
#130146


Use for vertical tube



**Plate for Monitor**


NORAND Kit	#126236-002
Telxon Kit	#126236-003

Use for vertical tube




**Plate for Monitor+Clamp Kit WA**  
#131417

Use for vertical tube



**Plate for Monitor Kit WA**  
#129572

Use for vertical tube



**Plate for Monitor +Clamp Kit WA**  
#148748

Use for vertical tube

## Scan Gun Holder



### Holder for Scan Gun + Clamp Kit

#827003

Use for cross tube



### Holder for Scan Gun Kit WA

#828297

Use for vertical tube and cross tube



### Scan Gun Holder +Clamp Kit WA

#131419

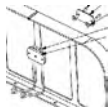
Use for vertical tube



### Bracket Scan Gun REPL823000 WA

#E-825728

Use for ESR



### Scan Gun Holder

#E-841520-003

Use on WP 3000/3200 with load backrest



### 2 pcs Hook for Scan Gun

#131036

Use for WAVE

## Shrink Wrap Holder



### Dual foil holder set with two

#E-823412-022

Use for vertical tube and cross tube



### Shrink Wrap Kit HIGH LBR WA

#E-821690

Use for GPC and TC



### Shrink Wrap Holder Kit WA

#145080

Use for vertical tube

## Storage/Tray



### Storage Pocket w Clamp WA

#826999

Use for vertical tube and cross tube



### Storage Pocket orange Kit WA

#130868

Use for vertical and cross tube



### Tray Kit w Clamp WA

#826998

Use for cross tube



### Install Storage Bin

#154661

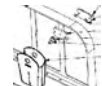
Used on FC 5200



### Storage Pocket orange Kit WA

#151744

Use for WP 3000



### Pouch Wave

#E-841520-002

Use on WP 3000/3200 with load backrest



### Storage Pocket +Knob Kit

#159515

Use for WAVE



### 2 pcs Storage Pocket Kit WA

#157732

Includes 2 bins, 2 brackets, 2 double-sided tape squares, 2 bungees

## Storage/Tray



### Tray Rear Kit WA

#E-821683  
Use for GPC



### Tray for Battery Cover Mount

#115870  
Used on Battery Cover



### Storage Pocket + Bracket Kit

#159514  

- Use for Wave
- With Clamp #130145 also can use on vertical and cross tube



### Tray for Battery Cover Kit WA

#117420  
Used on Battery Cover



### Storage Tray Kit

#129634-002  
Use for SC 5200



### Tray Storage orange upper WA

#141228S  
Upper Storage Tray



### Storage Tray Bolt on Kit WA

#137513  
Mounts to bolt-on load backrest



### Tray Storage orange lower WA

#141229S  
Lower Storage Tray



### Storage Tray Kit WA

#137514  
Mounts to hinged load backrest



### Tray Kit orange WA

#144441S  

- Includes tray, magnet and hardware. Can put two together
- And put on pallet truck battery cover



### Tray Storage black WA

#129988-002  
Used on trucks with Suspension Seat – FC 4500, SC 4500, SC 5200



### Storage Net WA

#147004  

- Requires four 153181S clamps to mount
- Used on FC 4500, SC 6000, SC 5200



### Storage Tray Kit

#159519  
Used on WAVE



### Storage Net behind Seat

#147005S  
Also order:  

- 4 inserts 060103-006
- 4 screws 060062-041
- 4 wall hooks 147008



### Tray Kit WA REPL. 120389

#130816  
Used on WAVE



### Tray Rear Weldment WA

#822127  
Used on WAVE



### Insert for Tray Black Plastic

#157327  
Used on WAVE



### Tray front WA

#822131  
Used on WAVE



### Storage Pocket Bolt On WA

#831518  
Used on WAVE

## Storage Organizer Kit Components



### Bin Storage

#162915

- Dimensions: 146 × 146 × 360 mm
- Material: Polypropylene



### Bin Divider

#162914

- Dimensions: 106 × 340 mm
- Material: ABS



### Small Pocket Storage

#162913

- Dimensions: 94 × 40 × 138 mm
- Material: Thermoplastic Elastomer



### Bracket Weldment

#162920

- Dimensions: 81 × 146 × 346 mm
- Material: Metal



### Large Pocket Storage

#162912

- Dimensions: 95 × 90 × 138 mm
- Material: Thermoplastic Elastomer

## Organizer Kits with Bracket



### Large Pocket Storage Organizer

#163561-001

Kit contains:

- 1× Bin Storage #162915
- 1× Clamp for Tube Kit WA #130145
- 1× Bracket Weldment #162920

- 3× Large Pocket Storage #162912

- Hardware

Use for vertical tube and cross tube



### Mixed Pocket Storage Organizer

#163561-003

Kit contains:

- 1× Bin Storage #162915
- 1× Clamp for Tube Kit WA #130145
- 1× Bracket Weldment #162920

- 2× Large Pocket Storage #162912
- 2× Small Pocket Storage #162913

- Hardware

Use for vertical tube and cross tube



### Small Pocket Storage Organizer

#163561-002

Kit contains:

- 1× Bin Storage #162915
- 1× Clamp for Tube Kit WA #130145
- 1× Bracket Weldment #162920

- 6× Small Pocket Storage #162913

- Hardware

Use for vertical tube and cross tube



### Clipboard Storage Organizer

#163561-004

Kit contains:


- 1× Bin Storage #162915
- 1× Clamp for Tube Kit WA #130145
- 1× Bracket Weldment #162920

- 1× Bin Divider #162914
- 3× Small Pocket Storage #162913

- Hardware

Use for vertical tube and cross tube

## Organizer Kits with Magnets




**Organizer**  
#163506-001

Kit contains:

- 1x Bin Storage #162915
- 1x Magnets #154662
- 1x Bin Divider #162914
- Hardware

Used on Battery Cover



**Clipboard Organizer**  
#163506-003

Kit contains:

- 1x Bin Storage #162915
- 1x Magnets #154662
- 1x Bin Divider #162914
- 3x Small Pocket Storage #162913
- Hardware

Used on Battery Cover



**Three Pocket Organizer**  
#163506-002

Kit contains:

- 1x Bin Storage #162915
- 1x Magnets #154662
- 3x Large Pocket Storage #162912
- Hardware

Used on Battery Cover




**One Pocket Organizer**  
#163506-004

Kit contains:

- 1x Bin Storage #162915
- 1x Magnets #154662
- 1x Large Pocket Storage #162912
- Hardware


Used on Battery Cover

## Single Pocket Organizer Kits Components



**Small Pocket Bracket**  
#163489


Material: Metal



**Large Pocket Bracket**  
#163488

Material: Metal

## Single Pocket Organizer Kits




**Large Pocket P-Nut**  
#163490-001

Kit contains:

- Large Pocket Storage #162912
- Clamp Peanut Kit 45° WA #143840-001
- Pocket Mount #141752
- Large Pocket Bracket #163488
- Hardware

Used on C-5 and SC 6000/6200 Truck Models



**Large Pocket Clamp**  
#163490-003

Kit contains:

- Large Pocket Storage #162912
- Clamp for Tube Kit WA #130145
- Pocket Mount #141752
- Large Pocket Bracket #163488
- Hardware

Use for vertical tube




**Small Pocket P-Nut**  
#163490-002

Kit contains:

- Small Pocket Storage #162913
- Clamp Peanut Kit 45° WA #143840-001
- Pocket Mount #141752
- Small Pocket Bracket #163489
- Hardware

Used on C-5 and SC 6000/6200 Truck Models



**Small Pocket Clamp**  
#163490-004

Kit contains:

- Small Pocket Storage #162913
- Clamp for Tube Kit WA #130145
- Pocket Mount #141752
- Small Pocket Bracket #163489
- Hardware

Use for vertical tube

## Trash Bin



### Trash Bag Holder w Clamp Kit

#827001

Used for vertical tube and cross tube



### Storage Bin WA

#823831

Used on ESR

## Accessory



### Belt Fixing

#E-841520-004

Use on WP 3000/3200 with load backrest in combination with #842579



### Strap Load Fixing

#842579

- 2000 mm



### Pick Assist Tool

Tool #351099  
Mounting Kit (for SP only) #351100



- The pick assist tool has a lightweight design and a telescoping feature that will effortlessly extend the reach of the order picking staff.
- It has a collapsed length of 711 cm and can be extended to 1.041 m.
- This versatility allows the stick to be set into place at any length desired by the order picker to ensure maximum effectiveness.



### Tool Retractor

#300114

- Load capacity: 0.8–2.0 kg
- Extended rope length: approx. 1.7 m

## QuickPick® Remote

### Gloves



	Right Hand	Left Hand
S	#152892-007	#152892-009
M	#152892-008	#152892-010
L	#152892-001	#152892-004
XL	#152892-002	#152892-005
XXL	#152892-003	#152892-006

- Cow grain leather palm extends life of the glove while the spandex back provides breathability.
- Fingerless, double stitched for maximum durability.
- Velcro wrist closure.



### Transceiver Module

Straight	#161080-001
Coiled	#161080-002



### Charging Station with Power Supply

#149946

- Accommodates six transceiver modules.
- Charging, ready, and fault indicator lights.
- Recharges 80% discharged battery in six to eight hours



### Transceiver Trigger

#161070

- Transceiver module not included
- Replacement strap: #149634



### Pairs of Gloves Without Transmitter

M	#152892-014
L	#152892-011
XL	#152892-012
XXL	#152892-013

- Cow grain leather palm extends life of the glove while the spandex back provides breathability.
- Fingerless, double stitched for maximum durability.
- Velcro wrist closure.



### Transceiver Strap Assembly

Freezer Condition	#162588
	#156885

- Includes coiled Go Button assembly, finger strap, wrist strap, and transceiver module frame.
- Replacement parts:
  - Finger Strap, Freezer Condition #152687
  - Finger Strap #162587
  - Wrist Strap #162586
  - Transceiver Module Frame #151739



### ASM Remote Operator

#162627-001

## About Crown and RAM® Mounts Partnership

### About RAM® Mounts Products

Protect your electronic devices by using the RAM® Mounts System. RAM® Mounts utilize a patented rubber ball and socket design which isolates and dampens shock and vibration up to 50G of shock. Adjustable positioning features cannot be matched by another mounting method. Mounting bases quickly attach and fit every OEM lift cage or overhead guard made. All backed by a lifetime manufacturer's warranty. Made in USA.

Crown would like to thank RAM® Mounts Germany for the provided texts and pictures. Sample images contain hardware such as scan-gun holder or printer. These are for display purposes only and are not included in the delivery.

### How It Works | How to Order a RAM® Mount System

#### 1. Choose Base



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#### 2. Choose Arm



+

#### 3. Choose Adapter



+

#### 4. Choose Holder



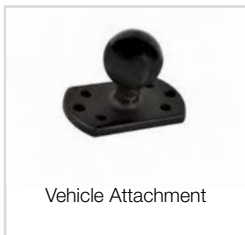
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### How It Works | Work Assist Interface with RAM® Mount System



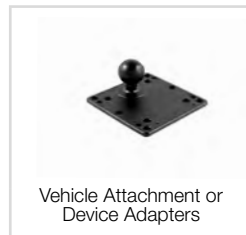
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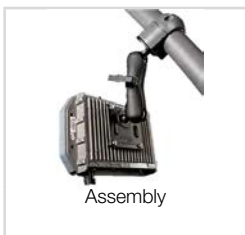
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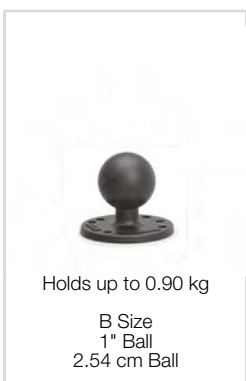


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The Crown Ball Mount design (P.N. 351094-XXX) allows you to add the RAM® Mount System to the Crown Work Assist clamps (P.N. 130145) and accessories. The addition of the RAM® Mount System allows you to position your accessories for the best access and prevent damage due to shock and vibration.

### How It Works | Ball Size Selection Guide



#### Conversion table:

Inch	Centimeter
0.625"	1.58 cm
1"	2.54 cm
1.5"	3.81 cm
1.7"	4.16 cm
2"	5.08 cm
2.5"	6.35 cm
3"	7.62 cm
4"	10.16 cm
5"	12.70 cm

## RAM® | Popular Mounting Locations

Using RAM® Mounts, there are a wide range of mounting solutions and locations for lift truck and other equipment in any material handling setting. The following guide helps you to find compatible Mount Systems for overhead guards, square posts and any location appropriate for mounting a drill-down base.



- 1**
- Overhead Guard Plates
  - Socket Arm
  - Device Adapter,
  - Universal Vesa Plate



- 4**
- Crown Base Clamp #130145
  - Crown Work Assist Base
  - Socket Arm
  - Device Adapter
  - Universal Vesa Plate



- 2**
- Overhead Guard Plates
  - Socket Arm
  - Device Adapter
  - Universal Vesa Plate



- 5**
- Crown Base Clamp #130145
  - Crown Work Assist Base
  - Socket Arm
  - Device Adapter
  - Universal Vesa Plate



- 3**
- Bases Magnetic
  - Socket Arm
  - Device Adapter
  - Scan Gun Holder



- 6**
- Drill-Down Base
  - Socket Arm
  - Device Adapter
  - Universal portable Printer





**Crown Work Assist Ball Base**

B Ball	#351094-001
C Ball	#157749
D Ball	#160809

Rubber Ball connected to oval base with mounting holes aligned to work with Crown Work Assist



**Round Base with Rubber Ball**

B Ball	#351095-006
C Ball	#157750
D Ball	#351095-008
D Ball, reinforced steel	#351095-009

- Consists of a rubber Ball connected to a flat round base.
- This mount has pre-drilled holes, including the universal AMPS hole pattern.



**Flex Adhesive Ball Base**

B Ball	#351095-4916
--------	--------------

- Flex adhesive Ball base provides a strong mounting surface in a wide variety of use cases, such as a vehicle dash.
- Included B size 2.54 cm RAM® rubber Ball, allows for connection to any B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjustability.
- Made of high-strength composites for durability and reliability in the most demanding environments.



**Magnetic Ball Base**

B-Ball	#351095-011
C-Ball	#351095-404

- Has pre-drilled holes, including the AMPS hole pattern.
- The magnetic base contains 3 rare earth magnets that hold firm to ferrous metals.
- The adapter designed to conceal the magnets is made of a durable plastic composite to prevent scratching the mounting surface.
- B-Ball up to 0.90 kg
- C-Ball up to 1.81 kg
- Both sizes: 6.35 cm Diameter



**Tough-Mag™ Diameter Magnetic Ball Base**

B-Ball, static environments	#351095-5379
B-Ball	#351095-5380
C-Ball	#351095-5567

- 351095-5379: 66 mm; magnetic base, up to 0.90 kg on Static Environments
- 351095-5380: 88 mm; magnetic base, up to 0.90 kg
- 351095-5567: 88 mm; magnetic base, up to 1.81 kg



**Diamond Drill Down Base**

B Ball	#351095-018
C Ball	#351095-058

- Consists of the rubber Ball connected at right angles to a 6.17 x 3.32 cm diamond base.
- The base has 2 holes 4.85 cm from centre to centre, matches the industry standard AMP's hole pattern and connect to a large variety of RAM® Mounts and third-party cradles.



**Bolt Head Adapter 11 mm**

#351095-2148

- Features an 11 mm hole designed to attach to the mirror frame.
- Included B size 2.54 cm RAM® rubber Ball allows for connection to any B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjustability.
- Made of power-coated, marine-grade aluminium for durability and reliability in the most demanding marine environments.



**Bolt Head Adapter 9 mm Angled**

#351095-2156

- Features a 9 mm hole designed to attach to the mirror frame.
- Included B size 2.54 cm RAM® rubber Ball allows for connection to any B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjustability.
- Made of powder-coated, marine-grade aluminium for durability and reliability in the most demanding environments.



**Diameter Suction Cup**

B Ball	#351095-010
C Ball	#351095-469

- Suction cup designed to have an extra hold on any smooth, non-porous surface.
- For best results, mount the suction cup on glass or non-porous plastic surface.
- Accessories: Adhesive Plate #351095-4233



**Twist-Lock Triple Suction Cup**

C-Ball, steel plate	#351095-468
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- The Triple-Twist-Lock consists of a triple suction cup base with 3.81 cm diameter Ball. It is designed to have an extra strong hold on any smooth non-porous surface, but for best result, mount the RAM® on a glass or non-porous plastic surface.
- Materials: Powder coated steel, High strength composite Weight Capacity: up to 1.8 kg
- Accessories: Adhesive Plate #351095-4233



**Double Twist Suction Cup**

B-Ball	#351095-1984
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- The Double Twist Suction Cup consists of double 8.38 cm twist lock suction cup bases that are connected to a powder coated metal plate and a B size 2.54 cm Ball is included.
- The suction cup is designed to have an extra strong hold on any smooth non-porous surface, but for best result, mount the suction cup on a glass or non-porous plastic surface.
- Weight Capacity: up to 0.9 kg
- Accessories: Adhesive Plate #351095-4233



**Tough-Wedge™ Base with Ball and Expansion Pouch B-Ball**

#351095-2317
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- The Tough-Wedge™ is a mounting that fits in the gap between the truck/vehicle seat and the centre console or potentially a centre seat.
- Other mounting options are also possible.
- The hand pump pumps air into the cushion for better support and individual space.
- This makes it easy to access and operate a mobile device.
- The mounting can be positioned in various ways.

**Rubber Ball with Clamp**

Post Dimensions for B Ball

Max. width	Max. depth	
3.81 cm	5.39 cm	#351095-2135
4.44 cm	5.39 cm	#351095-2136
5.08 cm	4.76 cm	#351095-2137
6.35 cm	5.39 cm	#351095-2138
7.62 cm	4.76 cm	#351095-2141
10.16 cm	5.39 cm	#351095-001

Post Dimensions for C Ball

Max. width	Max. depth	
3.81 cm	5.39 cm	#351095-566
4.44 cm	5.39 cm	#351095-567
5.08 cm	4.76 cm	#351095-568
6.35 cm	5.39 cm	#351095-004
7.62 cm	4.76 cm	#351095-571
10.16 cm	5.39 cm	#160249-001
12.70 cm	4.12 cm	#351095-574

Post Dimensions for D Ball

Max. width	Max. depth	
3.81 cm	5.39 cm	#351095-2484
4.44 cm	5.39 cm	#351095-2485
5.08 cm	4.76 cm	#351095-2486
6.35 cm	5.39 cm	#351095-005
7.62 cm	4.76 cm	#351095-2488
10.16 cm	5.39 cm	#160249-002
12.70 cm	4.12 cm	#351095-2491



- Measure upright support as shown in image. Select clamp base which most closely matches the widest dimension.
- With this holder base you can attach holders of the system to square profiles of ATVs, lift trucks or posts and square timbers.
- It fits profiles within the dimension, please see overview numbers.
- The clamping base consists of an aluminium base plate, firmly connected to a rubber system Ball.
- A counter plate is bolted to two stainless steel bolts so that the construction covers the square profile.
- More elements can be attached to the Ball via a compatible RAM® socket arm (not included!) to build the desired mounting bracket.



**Tough-Claw™ Clamp Base**

Size	B Ball	C Ball
S	#351095-4967	#351095-4365
M	#351095-4975	#351095-4375
L	#351095-4970	#351095-4368



- Ideal mounting base for phones, tablets, cameras, rod holders, and much more
- Includes 2.54 cm B size rubber Ball for attachment to RAM® double socket arms.
- Made of high-strength composite and stainless steel hardware for durability and reliability in the most demanding environments.
- S: 1.58–3.81 cm
- M: 2.54–4.76 cm
- L: 2.54–5.71 cm

**Tough-Claw™ Large Locking Clamp Base**

B Ball	#351095-4969
C Ball	#351095-4367



- Clamp range:
- 2.54–5.71 cm diameter
  - 0–5.58 cm flat surfaces
  - The locking knob includes a thread and allows you to disengage the screwing of the knob.
  - Once you have set your Tough-Claw™ in the location you need, you can lock it in place for peace of mind and tamper resistance.
  - Including two keys.

**V Base Ball and Strap Clamp**

B Ball	#351095-021
C Ba	#351095-022



- Fits circular and square rails from 2.54 cm to a maximum of 5.33 cm diameter.
- To mount, place the saddle shaped plate on the rail then wrap the metal clamp strap around the rail and plate.
- Tighten the screw knob on the metal strap with a screwdriver until the strap has a firm hold on the rail.

**Yoke Clamp Base with Ball**

B Ball	#351095-887
--------	-------------



- The yoke clamp base fits rails in diameter from 1.58 cm to a maximum of 3.17 cm.
- The 2.54 cm rubber Ball is at a right angle to the plane of the mount
- When connected to a rail, the Ball sits parallel to the rail.



**Handlebar U-Bolt Base for Rails  
1.27 cm–3.17 cm in Diameter**

B Ball	#351095-2106
C Ball	#351095-481

- Zinc-coated metal U-bolt base with rubber Ball is designed to sit at right angles to mounting rail; includes black cover caps for exposed ends of the U-bolt.
- Compatible with any B or C size RAM® Mounts component; Ball and socket technology allows for near-infinite adjustability.
- Made of powder-coated, marine-grade aluminium for durability and reliability in the most demanding environments.



**Double U-Bolt Ball Base for Rails  
2.54 cm–3.17 cm**

B Ball	#351095-2115
C Ball	#351095-531
D Ball	#351095-2477

- The RAM® Double U-Bolt Ball Base consists of a double U-bolt base, a Ball, and two stainless steel U-bolts.
- The double U-bolt base accommodates rails from 2.54 cm to 3.17 cm in diameter.



**Handlebar U-Bolt Base for Rails  
2.54 cm–3.17 cm in Diameter**

B Ball	#351095-2077
C Ball	#351095-475

- The rubber Ball is designed to sit at right angles to the mounting rail.
- The stainless steel coated metal u-bolt accommodates rails in the different diameters.
- The base also includes black cover caps to be placed over the exposed ends of the u-bolt.



**Double U-Bolt Ball Base for Rails  
3.17 cm–3.81 cm**

C Ball	#351095-530
D Ball	#351095-2476

- The RAM® Double U-Bolt Ball Base consists of a double U-bolt base, a Ball, and two stainless steel U-bolts.
- The double U-bolt base accommodates rails from 3.17 cm to 3.81 cm in diameter.



**Torque™ Rail Base**

Size	B Ball	C Ball
M	#351095-2341	#351095-688
L	#351095-2325	#351095-687

- Includes sizing inserts to provide a tight fit while protecting the mounting surface
- Mount includes nylon insert locknuts to prevent loosening
- Made of powder-coated, marine-grade aluminium for durability and reliability in the most demanding environments
- B Ball up to 0.90 kg
- C Ball up to 1.81 kg
- Size M: 1.91 cm–2.54 cm
- Size L: 2.86 cm–3.81 cm



**RAM® Mounts Rail Clamp Base up to  
7.76 cm diameter**

C Ball	#351095-593
D Ball	#351095-2503

- Clamping base ideal for posts from 3.17 cm to 4.76 cm in diameter.
- Included a RAM® rubber Ball allows for connection to any C or D size RAM® double socket arm
- Ball and socket technology allows for near-infinite adjustability
- Made of powder-coated, marine-grade aluminium for durability and reliability in the most demanding environments



**RAM® Mounts Rail Clamp Base up to  
6.35 cm diameter**

C Ball	#351095-056
D Ball	#351095-2504

- Clamping base ideal for posts from 5.08 cm to 5.71 cm in diameter.
- Included C or D RAM® rubber Ball.
- This allows for connection to any C or D size RAM® double socket arm
- Ball and socket technology allows for near-infinite adjustability

**Overhead Guard Mount**



Without Ball	#351095-019
With C Ball	#351095-666
With D Ball	#351095-667

- The Overhead Guard Mount attaches to most any lift cage or overhead guard.
- Utilizing two identical plates of stamped steel with numerous common hole patterns and slots.
- C & D diameter bases may be attached to the same plate for multiple applications.

Requires a square base for P.N. #351095-019:

- C Ball (P.N. #351095-012) or
- D Ball (P.N. #351095-013) or
- D Ball reinforces steel (P.N. #351095-014)



Shown here:

Overhead Guard Mount with C Ball  
#351095-666

Double Socket Arm Standard C Ball  
#351095-025

Vesa Square Base y Rubber C Ball  
#351095-012

RAM® | Arms

**Double Ball Socket Arm, Short**



B Ball	6.00 cm	#351095-027
C Ball	9.00 cm	#351095-028
D Ball	12.90 cm	#160808-002

- The short double socket arm, has a socket at both ends that fits Ball bases.
- RAM® socket technology allows for almost infinite adjustment and perfect viewing angles.

**Double Ball Socket Arm, Medium**



B Ball	9.00 cm	#351095-2009
C Ball	14.00 cm	#351095-025
D Ball	21.30 cm	#160808-001

- Has socket at both ends that fits Ball bases.
- A single spring inside the arm opens the end sockets, allowing you to pivot the Ball and socket connection.
- Allows for almost infinite adjustment and perfect viewing angles.

**Double Ball Socket Arm, Long**



B Ball	15.00 cm	#351095-030
C Ball	23.00 cm	#351095-031
D Ball	33.00 cm	#160808-003

- Has a socket at both ends that fits Ball bases.
- A single spring inside the arm opens the end sockets, allowing you to pivot the Ball and socket connection.
- This socket technology allows for almost infinite adjustment and perfect viewing angles.

**Adjustable Socket with Octagon Socket**



B Ball	15.90 cm	#351095-033
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- Consists of double diameter open Ball sockets with a 360° rotation point at the centre & a connecting swivel joint that rotates forward and back 180°.
- The rubber Ball and socket at either end, and a central pivot point provides unsurpassed adjustability.
- The RAM® Ball sockets maximize Ball coverage for optimal fit.

**Composite Double Socket Swivel Arm**



B Ball	#351095-4792
B & C Ball	#351095-4992
C Ball	#351095-4021

- Double socket swivel arm features 360-degree centre rotation with an overall length of 9.37 cm and a socket-to-socket length of 8.89 cm.
- Attaches to any B or C size RAM® Ball component, including mounting bases and device holders.
- Double Ball and socket technology allows for near-infinite adjustability of your RAM® Mounts System.

RAM® | Mount Assembly | Used on InfoLink

**Universal Mount with 2 Round Bases**



B Ball with short Arm	#144357
C Ball with medium Arm	#150311

- Both Mount Assemblies consists one double socket arm and two round bases that contain the universal AMPS hole pattern.
- The hole pattern found on the round base adapter connects to many RAM® cradles, including all iPad cradles.
- Parts can be ordered individually.

**RAM® Mounts Base for Crown Clamp C Ball Size**



Short Arm	#157748-002
Medium Arm	#157748-001

- The RAM® Mounts base assembly consists of a double socket arm and two Ball bases.
- #157749 is designed to integrate with the Crown Work Assist clamp and the second base contains the universal AMPS hole pattern.
- Both lengths require the Crown Base #157749



**Combination Pin-Lock Security Knob and Key-Knob**

B Ball	#351095-5210
C Ball	#351095-5222

- Keep your devices and Mounts System safe from theft and tampering with threaded security knob.
- Replaces standard knobs on RAM® double socket arms – Made of high-strength composites and steel for durability and reliability in the most demanding environments.



**Locking Knob for Socket Arms**

B Ball	#351095-047
C Ball	#351095-048

- The RAM® locking knob, includes a brass thread.
- This allowing you to disengage the screwing of the knob.
- Once you have set your mount in the location you need, you can lock it in place and feel safe that your mounted device will stay right where you left it.
- Includes 2 Keys



**Round Base with Rubber Ball**

B Ball	AMPS	#351095-006
C Ball	AMPS	#157750
D Ball	AMPS	#351095-059
D Ball	reinforce steel	#351095-009

Consists of a rubber Ball connected to a flat round base.



**VESA Square Base with Rubber Ball**

C Ball	#351095-012
D Ball	#351095-013
D Ball, reinforce steel	#351095-014

Rubber Ball, connected to a 12.06 cm square plate with 4 x 1 cm holes and 4 x 7.5 cm holes in each corner.



**Diamond Drill Down Base with Rubber Ball**

B Ball	AMPS	#351095-018
C Ball	AMPS	#351095-058

- Consists of a diameter rubber Ball connected at right angles to a 3.32 cm x 6.17 cm diamond base.
- The base has 2 holes 4.85 cm from centre to centre, matches the industry standard AMP's hole pattern and connect to a large variety of RAM® Mounts and third party cradles.



**VESA Square Base with Rubber Ball**

C Ball	#351095-015
C Ball	reinforce steel #351095-551
D Ball	#351095-016

- Rubber Ball, connected to a 9.21 cm square plate with a 7.5 x 7.5 cm VESA hole pattern.
- The rubber Ball is positioned 2.24 cm from the centre of one edge.



**Plate for Electronics Adapter**

C Ball	#351095-017
D Ball	#351095-5386

- This universal mounting plate, consists of a C or D rubber Ball, connected at right angles to a flat 15.87 x 5.08 cm rectangular plate.
- The plate contains different combinations of pre-drilled holes which will match up to many electronic devices.
- Weight capacity up to 2.72 kg



**Power-Grip™ Universal Scanner Gun Cradle**

L #351095-037  
 XL #351095-5746

- Compatible with a wide range of ruggedized 2D bar code scanners.
- Accommodates pistol grip Scanner Guns with a maximum pistol grip of 3.55 cm.
- L Internal dimensions: 8.81 cm x 5.48 cm x 12.44 cm
- XL Internal dimensions: 10.05 cm x 6.75 cm x 18.87 cm
- Requires Ball base adapter #157750.



**Shown here:**

#351095-037

- Power-Grip™ Universal Scanner Gun Cradle
- Scanner not included.



**Universal Holder for Scanner Guns and Handheld Computers**

#351095-039

- The RAM® Drop-N-Lock™ Scanner Gun Holder is a specially designed cradle that holds most types of Scanner Gun handles.
- On the side of the cradle is a spring loaded lever that will securely hold the Scanner Gun in the cradle.
- Simply drop the scanner handle into the holder and it locks in place immediately.
- To remove, simply lift the tab behind the holder and your Scanner Gun will lift right out with ease.
- Internal dimensions: 3.70 cm x 6.35 cm x 12.98 cm.
- Requires Ball base adapter #157750.



**Shown here:**

#351095-5746

- Power-Grip™ Universal Scanner Gun Cradle
- Scanner not included.



**Shown here:**

#351095-039

- Universal holder for scanner guns and handheld computers
- Scanner not included.



**Shown here:**

Rubber Ball with Clamp  
 #351095-2137

Double Ball Socket Arm, Long  
 #351095-030

Power-Grip™ Universal Scanner Gun Cradle  
 #351095-037



**Level Cup™ XL 940 ml Cup Holder with B Ball**

#351095-4981

- Self-levelling holder keeps your drink upright regardless of the conditions, including 350 ml cans, water bottles, insulated cups, and 640 ml containers.
- Includes drink cover
- Included B size RAM® rubber Ball allows for connection to any B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjust-ability.
- Made of high-strength composites for durability and reliability in the most demanding environments
- Requires B Ball Arm.



**Drink Cup Holder 470 ml**

#351095-053

- Compatible with cups, cans, bottles, and mugs ranging from 6.35 to 8.89 cm in diameter.
- Self-levelling feature avoids spills, ATVs, boats, and more.
- Includes drink cover
- Included B size 2.54 cm RAM® rubber Ball allows for connection to any B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjust-ability.

**Multi-Pad™ Universal Notepad Holder**

#351095-065



- The new RAM® Multi-Pad™ is the perfect product to keep your busy life organized.
- Easily mounted in various locations and ideal for your car, lift truck, or plane, the RAM® Multi-Pad™ has many features you would expect and others that surprise you.
- With RAM® in the name, you know the RAM® Multi-Pad™ can be easily attached to a wide variety of RAM® Mounts Solutions.
- With several mounting points and integrated magnets for holding your ferrous metal pen securely without the need for clips, the RAM® Multi-Pad™ is ready to get to work for you.
- Included is a set of two nuts and bolts to connect the cradle to any RAM® components or mounts that contain the universal AMPs hole pattern.
- Dimensions: 20.32 cm x 10.16 cm

**Handi-Case™**

#351095-064



- Multiple mounting points on the top and bottom to attach any number of popular RAM® rubber Ball bases or mounting plates for unsurpassed versatility.
- Two convenient mounting points on the top for a cell phone, GPS, or other small electronics mount.
- Multiple punch outs on the sides and back, it is even possible to run power into or out of the RAM® Handi-Case™.
- Multiple storage spaces inside the case to hold documents, pens, hardware, and so on.
- Pockets for magnets that can be used to hold pens or mount magnetically
- Internal Dimensions: 30.80 cm x 25.08 cm x 3.49 cm

Note:  
More Items needed: #351095-018 or #351095-061.

**Sun Visor with Ball Adapter**

#351095-4334



- The precision laser cut cast acrylic sun visor offers ideal blockage of glare while ensuring no obstruction or distortion of view.
- The dark green 50% tint is ideal for blocking sun and glare in a variety of applications.
- The RAP-393-G1U includes a B Ball which can be connected to any B Ball RAM® socket arm and easily configured for left or right handed use as well as pilot and co-pilot use.
- Sun Visor Dimensions: 20.32 cm x 33 cm



**Suction MNT X-GRIP  
Universal Phone Holder**

B Ball #351095-1751



- Spring-loaded 'X' design with rubber caps sports great holding power without hiding your phone.
- Includes optional device tether for peace of mind during rugged use.
- Compatible with any B size RAM® Mounts double socket arm.
- Ball and socket technology allows for near-infinite adjustability
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.

**Twist-Lock™ Suction Cup Mount for  
9"-10" Tablets**

B Ball #351095-1754



- Spring-loaded 'X' design with rubber caps sports great holding power without hiding your tablet.
- Fits most 9"–10" tablets.
- Includes RAM® Twist-Lock™ suction cup base ideal for vehicle windshields and medium length B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjustability.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.

**Suction MNT X-GRIP  
Large Phone with Twist Lock**

B Ball #351095-1742



- Spring-loaded 'X' design for large phones with rubber caps sports great holding power without hiding your phone.
- Includes optional device tether for peace of mind during rugged use.
- Includes RAM® Twist-Lock™ suction cup base ideal for vehicle windshields and medium length, B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjustability.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.

**Suction MNT X-GRIP  
11" – 12" Tablets**

B Ball #351095-1743



- The RAM-B-166-UN11U consists of a 8.45 cm diameter suction cup twist lock base, double socket arm, round base adapter and universal X-Grip® clamping cradle.
- The suction cup base is designed to have a strong hold on glass and non-porous plastic surfaces.
- The mount is designed with a RAM® patented rubber B Ball and socket system that has adjustment points at both ends of the double socket arm.
- This allowing for almost infinite adjustment and perfect viewing angles.
- The X-Grip® clamping cradle consists of a composite spring loaded cradle, expandable grip arms and more bottom support keeper.
- Included are extra easy access grip knobs, located on the back of the cradle for quick release of your tablet.
- The X-Grip® clamping cradle expands and contracts for perfect fit of most 12" tablets with or without sleeves, and some smaller tablets.
- It is important to verify the dimensions of your handheld device with a case/sleeve/skin when determining the overall size.

**Suction MNT 7"-8" TABLET X-GRIP**

B Ball #351095-1753



- Spring-loaded 'X' design with rubber caps sports great holding power without hiding your tablet.
- Fits most 7"–8" tablets and includes optional device tether for peace of mind during rugged use.
- Includes RAM® Twist-Lock™ suction cup base ideal for vehicle windshields and medium length, B size RAM® double socket arm.
- Ball and socket technology allows for near-infinite adjustability.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.

**X-Grip® Rubber Cap 4-Pack  
Replacement**

#351095-5277



- Includes four black rubber post caps to keep your device secure when mounted in the RAM® X-Grip® phone or tablet holder.
- Compatible with all versions of the RAM® X-Grip®
- Made of rubber
- Super glue included

**Enlarged Handle-wrench for  
D Ball Arms**

#351095-066



- With the handle-wrench, the twist lock with D-Balls on the RAM® Mounts connecting arm can be tightened even more tightly or released more easily.
- Long lever for sufficient power transmission.
- If space is limited, the lever can be adjusted via the ratchet.

**X-Grip® Tether**

Under 7" #351095-3366  
7"–8" #351095-3371  
Under 10" #351095-3345



- Attaches to the RAM® X-Grip® phone holder and the edges of your device for extra peace of mind in demanding environments



**X-Grip® Universal Holder for Small Phones**

B Ball	#351095-034
C Ball	#351095-3361

- Has a clean and clever four leg design that sports great holding power without hiding your phone behind foam pads and plastic.
- Dimensions:  
Width 4.76–8.25 cm  
Depth 2.89 cm
- No Ball base adapter required.



**X-Grip® Universal for 5" Phablets**

B Ball	#351095-035
C Ball	#351095-3344

- Has a clean and clever four leg design that sports great holding power without hiding your phone or phablet behind foam pads and plastic.
- Compatible and interchangeable with a wide range of mounts.
- Dimensions:  
Width: 4.44–11.43 cm  
Depth: 2.22 cm
- No Ball base adapter required.



**X-Grip® Universal Holder for Phones**

L	#351095-3169
XL	#351095-5528

- Spring-loaded holder features adjustable side supports that provide a secure fit for a variety of large phones and other devices.
- Easily insert and remove your phone with one hand.
- Compatible with RAM® diamond Ball bases for attaching to double socket arms and mounting bases.
- Included is a set of two nuts and bolts to attach the cradle to any RAM® components that contain the universal AMPS hole pattern.
- L #351095-3169:  
Height: 12.06 cm–14.60 cm  
Width: 5.56 cm–8.25 cm
- XL #351095-5528:  
Height: 14.60 cm–18.41 cm  
Width: 6.66–9.20 cm
- Requires:  
B Ball: #351095-018  
C Ball: #351095-058



**X-Grip® Phone Mounts with Snap-Link™ Tough-Claw™**

Large	#351095-052 #351095-3341
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- Tough-Claw™ base and universal X-Grip® holder.
- The X-Grip® holder has a clean and clever four-leg design that sports great holding power without hiding your smartphone behind foam pads and plastic.
- Clamp Range:  
1.58–3.81 cm diameter  
0–2.89 cm flat surfaces
- #351095-052: 4.76 x 8.25 cm
- Large #351095-3341: 4.44–11.43 cm



**Universal Finger-Grip™ for Phone/Radio Holder**

#351095-036

- Designed to hold a large number of cell phones & electronic devices.
- Comes with 3 sets of 4 flexible rubber coated fingers placed along sides to grip your device.
- Fingers open by squeezing ends to open small finger arms.
- Bottom of the holder includes back plate that adds support to the device being held by the mount.
- Spine plate contains universal AMPs and 3.81 cm x 5.08 cm hole patterns.
- Min/Max with top & bottom plates: Height 13.33 cm to 15.24 cm.
- Plates can be removed for larger devices.
- Height: 18.41 cm
- Width: 3.17–8.89 cm
- Requires:  
B Ball: #351095-018  
C Ball: #351095-058



**Tough-Charge™ with X-Grip® Tech Waterproof Wireless Charging Holder**

#351095-5553

- Waterproof Qi compatible wireless phone charging cradle features spring-loaded RAM®.
- X-Grip® technology and 10 W maximum output.
- RAM® Mounts Compatible™ with B size double socket arms and Ball bases for mounting in your preferred location.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.
- RAM® Mounts backed by lifetime warranty, RAM® electronics backed by 1-year warranty with proof of purchase required.



**Quick-Grip™ Waterproof Wireless Charging Holder**

#351095-5555

- Waterproof Qi compatible wireless phone charging cradle features spring-loaded RAM® Quick-Grip™ design and 10 W maximum output.
- RAM® Mounts Compatible™ with B size double socket arms and Ball bases for mounting in your preferred location.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.
- RAM® Mounts backed by lifetime warranty, RAM® electronics backed by 1-year warranty with proof of purchase required.



**RAM® Hardwire Charger Female USB/8-18 V**

#351095-5383

- The RAM® hardwire charger features a female USB Type-A connector and is ideal for providing power to your device by the open cable at the other end.
- Easily connect any USB Type-A charging cable with this low-profile hardwire charger.
- It includes two mounting holes as well as zip tie attachment points.
- Input range: 8–18 V DC
- Output voltage: 5–9 V DC



**X-Grip® Universal Holder for 7"–8" Tablets with Ball**

B Ball	#351095-3370
C Ball	#351095-046

- Spring-loaded 'X' design with rubber caps sports great holding power without hiding your tablet.
- Fits most 7"–8" tablets and includes optional device tether for peace of mind during rugged use.
- Easy access grip knobs on the back of the holder allow for the quick release of your tablet.
- Includes B size rubber Ball compatible with any B size RAM® Mounts double socket arm.
- Ball and socket technology allows for near-infinite adjustability.



**X-Grip® Universal Holder for 11" and 12" Tablets**

351095-3347

- Spring-loaded 'X' design with rubber caps sports great holding power without hiding your tablet.
- Fits most 11" and 12" tablets
- Easy access grip knobs on the back of the holder allow for the quick release of your tablet.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.
- Requires Ball base adapter #157750



**X-Grip® Universal Holder for 9"–10" Tablets**

#351095-3373

- Spring-loaded 'X' design with rubber caps sports great holding power without hiding your tablet.
- Fits most 9"–10" tablets.
- Easy access grip knobs on the back of the holder allow for the quick release of your tablet.
- Made of powder-coated, marine-grade aluminium, stainless steel components, and high-strength composite for durability and reliability in the most demanding environments.
- Requires Ball base adapter #157750
- Max. Height: 26.04 cm (using optional supports)
- Width Range: 15.87 cm–20.57 cm
- Max. Depth: 2.22 cm

## RAM® | Universal Holder for Laptops

### Universal Laptop Mounts Tough Tray II™



#351095-044

- Spring loaded holder for large tablets, with or without a case.
- Accommodates netbooks as well.
- Requires Ball base adapter: #157750
- Tray Dimensions:  
Depth: 15.24 cm  
Thickness: 2.54 cm  
Width (Expansion): 21.74–28.45 cm  
Side Clamp Arm Height: max. 6.99 cm

### Universal Laptop Holder Tough-Tray 10" – 16"



#351095-490

- Spring-loaded universal laptop tray accommodates most 10" to 16" laptops.
- Four adjustable clamping arms with rubber grips keep your laptop secure.
- Made of high-strength composites for durability and reliability in the most demanding environments.
- Requires Ball base adapter:  
C-Ball #157750 or D-Ball #351095-059
- Tray Dimensions:  
Depth: 25.40 cm  
Thickness: 5.39 cm  
Range: 25.40–40.64 cm  
Side Clamp Arm Height: 1.27–4.44 cm

## RAM® | Universal Holder Portable Printer

### Universal Portable Printer Cradle



Clamping Dimensions	Max. Height	
14.28–24.13 cm	4.44 cm	#351095-055
16.83–26.67 cm	6.35 cm	#351095-054

- Uses unique patent pending spring-loaded mechanism that holds strong, yet provides easy removal for printer storage.
- At each end of cradles are side clamping plates designed to fit cleanly around edges of a printer.
- Requires Ball base adapter: #157750

### Shown here:



Magnetic Ball Base C-Ball  
#351095-404

Double Ball Socket Arm C-Ball  
#351095-025

Magnetic Ball Base C-Ball  
#351095-404

Universal Portable Printer 'Cradle'  
#351095-054

Hardware/ Printer not included.



# InfoLink

## CONTENT

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Make Your Connection

		3" Display	7" Touch Display
SAFETY	Complete electronic pre-shift inspections, manage operator certifications and monitor impacts	●	●
PRODUCTIVITY	Compare operator or team activity to department/shift benchmarks, identify long-term and seasonal trends	●	●
UPTIME	Schedule planned maintenance and communicate maintenance issues	●	●
ASSET MANAGEMENT	Manage individual lift truck assets or entire fleet across multiple locations	●	●
COST REDUCTION	Prevent expensive repairs, reduce damage from impacts and avoid regulatory penalties	●	●
TOUCH USER INTERFACE WITH WIDGETS			●
SAFETY REMINDERS AND CHECKLIST IMAGES			●

InfoLink Services:  
Achieve More With Your Connection

The Crown InfoLink Services can help provide the additional support needed to ensure your success. Supplemental services include those designed to help you create a solid foundation, data integration assistance with other platforms and additional customisations as you continue your InfoLink journey.

- Prepare your team for the InfoLink system with the **RightStart™** program that tailors the implementation process to meet your operational needs.
- Re-energise your organisation with InfoLink using additional support programs by assessing your company's current state of InfoLink usage and customising a plan to boost engagement.
- Optimise your InfoLink experience with custom reporting that provides the analytics you need in a format and frequency that fits your business.



3" InfoLink Module

#162132-003

Note: Kit and module has the same number  
Kit includes:

- Module
- Can terminator
- Universal bracket 3" module
- Mounting screws



3" Display Cover

#H53349-501

Transparent cover made of Lexan to protect



7" Display Cover

#164461-001

Transparent cover made of Lexan to protect



HID Multi-Class Prox Reader

#066077

Allows operators to log into equipment using existing HID compatible badges, fobs or stickers



7" InfoLink Module

- #850563-001: German
- #850563-002: French
- #850563-003: Spanish
- #850563-004: Dutch
- #850563-005: Italian
- #850563-006: English
- #850563-007: Polish
- #850563-008: Czech
- #850563-009: Danish
- #850563-010: Portuguese
- #850563-017: Hungarian
- #850563-018: Finnish
- #850563-019: Norwegian
- #850563-020: Swedish
- #850563-021: Russian
- #850563-022: Turkish
- #850563-023: Slovenian
- #850563-024: Greek
- #850563-025: Estonian
- #850563-026: Latvian
- #850563-027: Lithuanian
- #850563-029: Croatian
- #850563-030: Serbian
- #850563-031: Romanian
- #850563-032: Bulgarian
- #850563-033: Chinese

Kit includes:

- 7" touch module kit
- Manual
- "CM" InfoLink control module
- Bracket
- Screws
- 3-digit number depending on the language of the manual



HID Card

#831062

Used to log into InfoLink modules with multi-class prox reader



**HID Key**



- #831063-001: Operator 01 (F1)
- #831063-002: Operator 02 (F1)
- #831063-003: Operator 03 (F1)
- #831063-004: Operator 04 (F1)
- #831063-005: Operator 05 (F1)
- #831063-006: Operator 06 (F1)
- #831063-007: Operator 07 (F1)
- #831063-008: Operator 08 (F1)
- #831063-009: Operator 09 (F1)
- #831063-010: Operator 10 (F2)
- #831063-011: Operator 11 (F2)
- #831063-012: Operator 12 (F2)
- #831063-013: Operator 13 (F2)
- #831063-014: Operator 14 (F2)
- #831063-015: Operator 15 (F2)
- #831063-016: Operator 16 (F2)
- #831063-017: Operator 17 (F2)
- #831063-018: Operator 18 (P1)
- #831063-019: Operator 19 (P1)
- #831063-020: Operator 20 (P1)
- #831063-021: Operator 21 (P1)
- #831063-022: Operator 22 (P1)
- #831063-023: Operator 23 (P1)
- #831063-024: Operator 24 (P1)
- #831063-025: Operator 25 (P1)
- #831063-026: Operator (P1)
- #831063-027: Supervisor (P1)
- #831063-028: Maintenance (P1)

- Used to log into InfoLink modules with multi-class prox reader.
- For Gena vehicles that are not linked with InfoLink, there is the possibility to order pre-programmed transponders.
- This allows predefined users to log on to the vehicle.

**HID Sticker \***



#831064

- Access card/chip for InfoLink users
- This card must be unlocked by a trained technician before use

InfoLink Cable



**External Power Supply 7" InfoLink Module**

#390001

Allows the InfoLink module to be plugged into a 230 V outlet for configuration and troubleshooting



**7" Display Harness**

#159605



**CAN T-Harness Short**

#159618-001



**InfoLink Demo Case**

#TA0150

- Each box will have a unique number and defined users
- Module and HID card, chip and key will be preprogrammed
- On the website "DemoCase" you can live demonstrate a checklist failure and a shock notification for example or all other website features
- Each case includes a demo guide



**Adapter Cable InfoLink ES/ET 4000**

#829556

- InfoLink bypass
- Used on truck ES/ET 4000



**Adapter Cable InfoLink Bridge**

#833493

InfoLink bypass



**InfoLink CAN Terminator**

#143198

Is needed for non-CAN trucks



**Impact Sensor**

#170051-001

Used with InfoLink to detect impacts to equipment



**Adapter Cable PEAK CAN \***

#062888

- Needed for MSDT
- Needed for InfoLink firmware download



**Adapter Cable InfoLink Truck Monitor**

#153088

InfoLink Bypass



**Adapter Cable**

#IL-Docking-01

- InfoLink
- Is needed for InfoLink firmware download



# BATTERY AND CHARGER

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# V-HFS SERIES

High-Frequency Chargers for all V-Force Lead-Acid Batteries

- **Automatic microprocessor-controlled battery charger**  
Suitable for all types of lead-acid batteries
- **High-frequency technology**  
Efficiency up to 94%
- **Fully automatic charging cycle**  
With electronic adjustment
- **Protection against overload**  
Short circuit at terminals and polarity inversion



## High-Frequency Single-Phase Charger

Technical data

V-Force Lead-Acid Charger			Charging Time		Mains
			Battery Capacity (Ah)		
Model			7-8 hrs	10-12 hrs	
26 C	24 V	25 A	150-175	200-250	230 Vac ±10% 50/60 Hz
26 C	24 V	30 A	180-210	240-300	230 Vac ±10% 50/60 Hz
26 C	24 V	40 A	240-280	320-400	230 Vac ±10% 50/60 Hz
26 C	24 V	60 A	360-420	480-600	230 Vac ±10% 50/60 Hz
26 C	24 V	70 A	429-490	560-700	230 Vac ±10% 50/60 Hz
27 C	24 V	80 A	480-560	640-800	230 Vac ±10% 50/60 Hz
27 C	24 V	100 A	600-700	800-1000	230 Vac ±10% 50/60 Hz
27 C	24 V	120 A	720-840	960-1200	230 Vac ±10% 50/60 Hz
27 C	48 V	60 A	360-420	480-600	230 Vac ±10% 50/60 Hz
27 C	48 V	80 A	480-560	640-800	230 Vac ±10% 50/60 Hz

V-Force Lead-Acid Charger		Active Power (kW)	AC Current (A)	AC Fuse (A)	Standard Mains Plug	UK Mains Plug	Dimensions (mm)			Weight (kg)
Model							L	W	H	
26 C	24 V 25 A	0.80	3.50	6.0	Schuko 2 P+T/16 A	UK 13 A	190	310	130	3.4
26 C	24 V 30 A	0.96	4.20	6.0	Schuko 2 P+T/16 A	UK 13 A	190	310	130	3.4
26 C	24 V 40 A	1.28	5.60	8.0	Schuko 2 P+T/16 A	UK 13 A	190	310	130	3.8
26 C	24 V 60 A	2.03	8.90	12.0	Schuko 2 P+T/16 A	UK 13 A	210	320	180	11.0
26 C	24 V 70 A	2.37	10.40	16.0	Schuko 2 P+T/16 A	UK 13 A	210	320	180	11.0
27 C	24 V 80 A	2.56	11.20	25.0	Schuko 2 P+T/16 A	CEE 2 P+T/16 A	360	180	530	13.2
27 C	24 V 100 A	3.20	13.90	25.0	Schuko 2 P+T/16 A	CEE 2 P+T/16 A	360	180	530	16.0
27 C	24 V 120 A	3.84	16.70	25.0	CEE 2 P+T/32 A		360	180	530	16.2
27 C	48 V 60 A	3.84	16.70	25.0	CEE 2 P+T/32 A		360	180	530	16.0
27 C	48 V 80 A	5.12	22.30	32.0	CEE 2 P+T/32 A		360	180	530	16.2

For additional product informations please contact V-ForceEMEA@crown.com

## High-Frequency Three-Phase Charger

### Technical data

V-Force Lead-Acid Charger			Charging Time		Mains
Model			7–8 hrs	10–12 hrs	
12 C	24 V	60 A	360–420	510–600	400 Vac ±10% 50/60 Hz
12 C	24 V	70 A	420–490	595–700	400 Vac ±10% 50/60 Hz
12 C	24 V	80 A	480–560	680–800	400 Vac ±10% 50/60 Hz
12 C	24 V	100 A	600–700	850–1000	400 Vac ±10% 50/60 Hz
12 C	24 V	120 A	720–840	1020–1200	400 Vac ±10% 50/60 Hz
12 C	36 V	100 A	600–700	850–1000	400 Vac ±10% 50/60 Hz
12 C	36 V	120 A	720–840	1020–1200	400 Vac ±10% 50/60 Hz
12 C	36 V	140 A	840–980	1190–1400	400 Vac ±10% 50/60 Hz
12 C	48 V	50 A	300–350	425–500	400 Vac ±10% 50/60 Hz
12 C	48 V	60 A	360–420	510–600	400 Vac ±10% 50/60 Hz
12 C	48 V	70 A	420–490	595–700	400 Vac ±10% 50/60 Hz
12 C	48 V	80 A	480–560	680–800	400 Vac ±10% 50/60 Hz
12 C	48 V	100 A	600–700	850–1000	400 Vac ±10% 50/60 Hz
12 C	48 V	120 A	720–840	1020–1200	400 Vac ±10% 50/60 Hz
12 C	48 V	140 A	840–980	1190–1400	400 Vac ±10% 50/60 Hz
12 C	48 V	160 A	960–1120	1360–1600	400 Vac ±10% 50/60 Hz
19 C	48 V	180 A	1080–1260	1530–1800	400 Vac ±10% 50/60 Hz
19 C	48 V	200 A	1200–1400	1700–2000	400 Vac ±10% 50/60 Hz
12 C	80 V	70 A	420–490	595–700	400 Vac ±10% 50/60 Hz
12 C	80 V	100 A	600–700	850–1000	400 Vac ±10% 50/60 Hz
12 C	80 V	120 A	720–840	1020–1200	400 Vac ±10% 50/60 Hz
19 C	80 V	140 A	840–980	1190–1400	400 Vac ±10% 50/60 Hz

V-Force Lead-Acid Charger		Active Power (kW)	AC Current (A)	AC Fuse (A)	Standard Mains Plug	Dimensions (mm)			Weight (kg)
Model						L	W	H	
12 C	24 V 60 A	2.03	4.51	6.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	24 V 70 A	2.37	4.39	8.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	24 V 80 A	2.71	6.02	8.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	24 V 100 A	3.39	7.52	8.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	24 V 120 A	4.07	9.03	10.0	CEE 3 P+T/16 A	360	350	550	29.2
12 C	36 V 100 A	5.02	11.15	12.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	36 V 120 A	6.10	13.54	16.0	CEE 3 P+T/16 A	360	350	550	29.2
12 C	36 V 140 A	7.12	15.08	20.0	CEE 3 P+T/16 A	360	350	550	29.8
12 C	48 V 50 A	3.35	6.19	8.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	48 V 60 A	4.07	9.03	10.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	48 V 70 A	4.58	10.17	12.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	48 V 80 A	5.24	11.63	16.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	48 V 100 A	6.55	14.53	20.0	CEE 3 P+T/16 A	360	350	550	28.6
12 C	48 V 120 A	7.85	17.44	20.0	CEE 3 P+T/32 A	360	350	550	33.2
12 C	48 V 140 A	9.16	19.74	25.0	CEE 3 P+T/32 A	360	350	550	35.6
12 C	48 V 160 A	10.10	21.54	25.0	CEE 3 P+T/32 A	360	350	550	35.6
19 C	48 V 180 A	11.27	17.98	20.0	CEE 3 P+T/32 A	500	400	810	52.2
19 C	48 V 200 A	12.52	19.98	25.0	CEE 3 P+T/32 A	500	400	810	52.2
12 C	80 V 70 A	7.30	16.22	20.0	CEE 3 P+T/32 A	360	350	550	33.2
12 C	80 V 100 A	10.67	22.98	32.0	CEE 3 P+T/32 A	360	350	550	33.2
12 C	80 V 120 A	12.52	26.98	32.0	CEE 3 P+T/32 A	360	350	550	35.6
19 C	80 V 140 A	14.30	22.81	32.0	CEE 3 P+T/32 A	500	400	810	55.4

### Additional Model 19 C Features

In addition to standard high-frequency switching technology, Model 19 C chargers offer SiC MOSFET switching up to 100 KHz, which reduces loss and increases efficiency up to 94 percent.

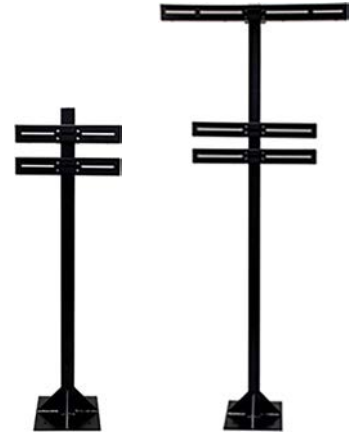
- High energy savings
- Reduced environmental impact
- Enhanced protection of electronic components
- Improved ventilation
- Available:
  - 400/440/480 VAC – 3-phase
  - 50/60 Hz Frequency

# CHARGER STAND

For use with V-HFS and V-HFB

## Features and Benefits

- Sleek versatile design with multiple configuration options
- Heavy duty steel frame construction
- Securely anchored to the floor, holding chargers safely in place
- Designed to free up valuable warehouse floor space
- Uses mounting bracket included with charger



Standard 55" (140 cm) Post				
Description	Part Number	Side View	Max. No. Of Chargers	Top View
55" (140 cm) Post 18" (46 cm) Arm Single Sided	168383-055-18-1		1	
55" (140 cm) Post 18" (46 cm) Arm Double Sided	168383-055-18-2		up to 2	
55" (140 cm) Post 25" (64 cm) Arm Single Sided	168383-055-25-1		up to 2	
55" (140 cm) Post 25" (64 cm) Arm Double Sided	168383-055-25-2		up to 4	
55" (140 cm) Post 37" (94 cm) Arm Single Sided	168383-055-37-1		up to 3	
55" (140 cm) Post 37" (94 cm) Arm Double Sided	168383-055-37-2		up to 6	
55" (140 cm) Post 50" (127 cm) Arm Single Sided	168383-055-50-1		up to 4	

Tall 84" (213 cm) Post				
Description	Part Number	Side View	Max. No. Of Chargers	Top View
84" (213 cm) Post 18" (46 cm) Arm Single Sided	168383-084-18-1		1	
84" (213 cm) Post 18" (46 cm) Arm Double Sided	168383-084-18-2		up to 2	
84" (213 cm) Post 25" (64 cm) Arm Single Sided	168383-084-25-1		up to 2	
84" (213 cm) Post 25" (64 cm) Arm Double Sided	168383-084-25-2		up to 4	

## Accessories



### Tender Kit

#168284-001

- Secure large DC battery cables with or without with or without a pogo stick.
- Superior strength and performance in the most extreme applications.
- Heavy duty clamp design with corrosion resistant composite body.
- 40 cm single with clamp.



### Cable Retractor with Grommet/Cable Housing

#396625-001

- Balance DC charger cables or tools weighing up to 6.8 kg.
- Spring tension is easily adjustable.



### Tool Balance Swivel Mount

#300038-005

- Load capacity: 1.3-2.3 kg
- Reel weight: 0.68 kg
- Cable length: 180 cm
- The BD Series Tool Balancer is an economical choice for balancing tools up to 2.3 kg. The molded ABS housing has a smooth exterior with rounded edges designed for maximum ergonomics. The tool balancer is easy to adjust and reliable.



### Cable Retractor

#300038-002

- Heavy-duty cable retractor holds larger cables and is adjustable and lightweight.
- Retractor mounts to charger stand, shelf or wall bracket with two mounting holes.



### Magnet Mount Cable Holder

#396568

- Conveniently secures battery and charger cables, preventing cable damage and clutter.
- Mount to any flat, ferrous metal surface such as a charger stand, charger wall bracket, or charger case.



### Battery Pogo Stick

#168175-001

- Used to keep battery connectors and cables off the floor at charging stations, preventing damage and wear.
- Supports up to 3 m of 90 mm<sup>2</sup> cable.
- Length: 1 m
- Diameter: 2.5 cm



### Rail Stop

#169244-001

- The rail stop can be installed in front of existing charging stations or with the V-Force charging stand.
- Anchor bolts are included to secure the stop to the warehouse floor.
- Dimensions H25 cm × L86 cm

# Z CHARGER STAND

For V-HFB models from 2050 to 4300

## Features and Benefits

- Dark grey, other colours available on request
- Optimal use for pallet trucks and stackers
- Charger fits between forks of trucks
- Specified charging position
- Orderly charging area



### Z Charger Stand

#849927-007

### For Mounting V-HFB Charger on the Z Charger Stand Use:

Brackets for V-HFB2050-2100 #847598-001  
 Brackets for V-HFB 20150-4300 #847589-001

## Wall Mount



### Charger Wall Mount 3.20

#849928

- Suitable for mounting on a middle post
- For all V-HFB models, except 8400



### Balancer Wall Mount

#850134

- No charger is mounted directly
- Compatible with all chargers
- Length: 430 mm



### Charger Wall Mount 3.30

#849929

- Suitable for mounting on a staggered post
- For all V-HFB models, except 8400




### Charger Wall Mount 1.00

#850135


- For V-HFB models from 2050 to 4200
- Boom completely swivelling and expendable





**AC Connector**


16 A, 3-pole, 230 V	#TA0259-001
16 A, 5-pole, 400 V	#TA0259-002
32 A, 3-pole, 230 V	#TA0259-003
32 A, 5-pole, 400 V	#TA0259-004
63 A, 5-pole, 400 V	#TA0259-005
32 A, 4-pole, 400 V	#TA0259-006
16 A, 4-pole, 400 V	#TA0259-007



**Cable Clamp DC**

#300038-001


We also offer power studies and consulting services for your application. If you are interested, please contact [v-forceemea@crown.com](mailto:v-forceemea@crown.com).



**Battery Monitoring Identification Device (BMID)**

#396525-BTM


- Automatically programs V-Force V-HFM/HFM<sup>3</sup> chargers with the correct battery charge profile
- Dual profile configuration to optimize battery health and SOC for opportunity or fast charging
- Records all battery events including temperature, charge and discharge cycles
- Current sensing up to +/- 1300 amps.
- Electrolyte level sensor.
- Temperature probe senses battery temperature throughout the charge cycle and adjusts charge profile as needed.
- Larger toroid to accommodate 120 mm<sup>2</sup> cable.
- Rugged case construction resists shock, water and battery electrolyte spills.
- Bluetooth Class 1 for improved range when connected to a laptop or tablet.
- Includes installation kit (396525-KIT).



**V-HFM and V-HFM<sup>3</sup> USB Cables**

#300118

- USB A to MINI-B 2.0 cable used to program
- V-HFM Series High-Frequency Chargers with laptop
- Length: 180 cm



**V-HFM and V-HFM<sup>3</sup> USB Cables**

#300118-001

- USB A to Micro-B 2.0 cable used to program
- V-HFM<sup>3</sup> Series High-Frequency Chargers with laptops and Galaxy Tables S3, S4 and S5
- Length: 180 cm

# V-FORCE BATTERY WATERING GUN



**V-Force Battery Watering Gun**  
#300236  
Works in 5/8" (1.6 cm) and 7/8" (2.2 cm) nozzle applications.

## Superior Strength

- Built from rugged, engineered ABS plastic
- Weak points eliminated; pressure regulator incorporated into nozzle

## Ergonomically Designed

- Easy-squeeze, rugged handle
- 45° bend nozzle
- Less bending over to fill battery

## Flow Diffuser

- Converts the rapid flow to a gentle spray
- Protects nozzle from damage

## Faster Fill

- 1.7 gpm (6.435 l/min)

- Spend less time watering

## Secure Level Control

- Will not move over time
- Adjustable or removable
- Pre-set for optimum level for most motive power batteries
- Bevelled to conform to vent well at many angles

Note: Replacement nozzle not available; order gun.  
⚠ WARNING: Cancer - www.P65Warnings.ca.gov

# V-FORCE DEIONIZER

300226-006  
V-Force Deionizer cartridge

300226-002  
Purity Lite complete with t-piece

## V-Force Water Deionizer

#300226-005



300227-023  
Set of V-Force Deionizer couplings, black male quick connect and black female quick connect with check valve.

300226-003  
10' (3 m) input hose for deionizers, black

300231-001  
20' (6 m) output hose for deionizers, black

300226-004  
Flow restrictor, 0.5 gpm (1.892 l/min) for V-Force Deionizers

- Reduces the high price of buying bottled water, distilling water or using reverse osmosis.
- System pays for itself through increased battery life and less frequent battery purchases.
- Easy disposable deionizer cartridge purifies about 600 gallons of water based on average water quality.
- System's purity light tells you exactly when cartridge is used up.
- Pressurized – can be used directly with our battery watering guns and to fill up our water tanks and carts.
- Also compatible for us with the Stealth Watering System.
- Additional connectors and adaptors may be required (see optional equipment box below).

## Adaptors



### Stealth Adapter for Water Injector Supplies

#300227-026



### Adapter with regulator – BFS

#300227-70A



### Output Hose with Quick-Connect

#300234-002

Length: 3 m



### Adapter with regulator – BWT

#300227-70E

## Battery Float System



### Water Filling Push in Plug

#848174-001

- S35
- BFS



### Clamp Ring

#834087

For 10 mm hose



### Flow Indicator

#848174-002

- W/o 834087
- For 10 mm hose
- Only for liquid medium
- Max. working pressure: 4 bar/58 psi
- Acid resistant
- Very good visibility of flowing motion, also at a very slow current.



### Filter cartridge

#834092

- W 834087
- For 10 mm hose
- Only for liquid medium
- Max. working pressure: 4 bar/58 psi
- Acid resistant
- Porosity/mash size: 100 µm
- Very simple to clean by reversal of flow direction (backflushing).



### Coupling for Water, Blue, Female

#848174-003

- W/o 834087
- For 10 mm hose
- Only for liquid medium
- Max. working pressure: 4 bar/58 psi
- Acid resistant
- Very simple to couple into without additional touches.
- Decoupling per pushbutton
- Integrated valve

#834090

- W 834087
- For 6 mm hose



### Dust Cap

#848174-005



### Connecting Tee

#848174-006

6/10/6 mm hose

#834084

6/6/6 mm hose



### Coupling for Water, Blue, Male

#848174-004

- W/o 834087
- For 10 mm hose
- Only for liquid medium
- Max. working pressure: 4 bar/58 psi
- Acid resistant
- Very simple to couple into without additional touches.
- Decoupling per push-button
- Integrated valve

#834088

- W 834087
- For 6 mm hose



### Angle

#848174-007

6 mm hose into water filling push in plug



### End Piece

#848174-008

6 mm hose into water filling push in plug



### Hose Clamp

#848174-009

For 10 mm hose



### Hose Clamp

#848174-010

For 6 mm hose



### Float Gauge

#848174-011

- Diameter: 22 mm
- Length: 34 mm



### Float Gauge

#848174-012

- Diameter: 22 mm
- Length: 44 mm



### Transparent Hose

#848175-001

DN5×1.5

#848175-002

DN10×2

## Battery Air Lift System



### Coupling for Air Grey Male

#848176-001

- For 10 mm hose
- Only for gaseous medium
- Max. working pressure 4 bar/58 psi
- Acid resistant
- Very simple to couple into without additional touches
- Decoupling per push button



### Coupling for Air Grey Female

#848176-002

- For 10 mm hose
- Only for gaseous medium
- Max. working pressure 4 bar/58 psi
- Acid resistant
- Very simple to couple into without additional touches
- Decoupling per push button

#TA0077-002

For 6 mm hose

No image available

### Corner Piece for Battery Air Lift System

#848176-004

No image available

### L-Piece For Battery Air Lift System

#848176-005



### Traction Airlift Tube

Length: 535 mm	Fits Cell: PzS 125 & PzB 85	#848176-006
Length: 435 mm	Fits Cell: PzS 90	#848176-007
Length: 480 mm	Fits Cell: PzB 75	#848176-008
Length: 570 mm	Fits Cell: PzB 100	#848176-009
Length: 640 mm	Fits Cell: PzB 105	#848176-010
Length: 670 mm	Fits Cell: PzS 155	#848176-011
Length: 505 mm	Fits Cell: PzS 115	#848176-012
Length: 615 mm	Fits Cell: PzS 140	#848176-013

## Battery Parts

### Flexible Connector



25 mm <sup>2</sup> , 75 mm	#848170-075-25
25 mm <sup>2</sup> , 85 mm	#848170-085-25
25 mm <sup>2</sup> , 95 mm	#848170-095-25
35 mm <sup>2</sup> , 75 mm	#848170-075-35
35 mm <sup>2</sup> , 95 mm	#848170-095-35
35 mm <sup>2</sup> , 110 mm	#848170-110-35
35 mm <sup>2</sup> , 130 mm	#848170-130-35
35 mm <sup>2</sup> , 300 mm	#848170-300-35
50 mm <sup>2</sup> , 75 mm	#848170-075-50
50 mm <sup>2</sup> , 95 mm	#848170-095-50
50 mm <sup>2</sup> , 110 mm	#848170-110-50
50 mm <sup>2</sup> , 130 mm	#848170-130-50
50 mm <sup>2</sup> , 150 mm	#848170-150-50
50 mm <sup>2</sup> , 170 mm	#848170-170-50
50 mm <sup>2</sup> , 300 mm	#848170-300-50
70 mm <sup>2</sup> , 85 mm	#848170-085-70
70 mm <sup>2</sup> , 95 mm	#848170-095-70
70 mm <sup>2</sup> , 110 mm	#848170-110-70
70 mm <sup>2</sup> , 130 mm	#848170-130-70
70 mm <sup>2</sup> , 150 mm	#848170-150-70
70 mm <sup>2</sup> , 170 mm	#848170-170-70
70 mm <sup>2</sup> , 190 mm	#848170-190-70
70 mm <sup>2</sup> , 300 mm	#848170-300-70
95 mm <sup>2</sup> , 95 mm	#848170-095-95
95 mm <sup>2</sup> , 110 mm	#848170-110-95
95 mm <sup>2</sup> , 130 mm	#848170-130-95
95 mm <sup>2</sup> , 170 mm	#848170-170-95
95 mm <sup>2</sup> , 190 mm	#848170-190-95
95 mm <sup>2</sup> , 300 mm	#848170-300-95

### Service Plug Traction



#848173-001
• 69.5 mm
• Suitable for:
• Fits Cell: PzS 90 Ah/115/125
• Fits Cell: PzB 75 Ah/85/100
#848173-002
• 83 mm
• Fits Cell: PzS 140/155
#848173-003
• 94 mm
• Fits Cell: PzB 105



### Plastic Head Bolt

#848168-001
M10x18

## Power Cable & Accessories



### Shrink Sleeve

Ø=6.4 mm	#TA0123-001
Ø= 9.5 mm	#813412-007
Ø=12.7 mm	#TA0123-002



### Clamp for Exit Cable

25 mm <sup>2</sup>	#848172-25
35 mm <sup>2</sup>	#848172-35
50 mm <sup>2</sup>	#848172-50
70 mm <sup>2</sup>	#848172-70
95 mm <sup>2</sup>	#848172-95



### Exit Cable

35 mm <sup>2</sup> , length: 1000 mm	#848171-100-35
50 mm <sup>2</sup> , length: 1000 mm	#848171-100-50
35 mm <sup>2</sup> , length: 1500 mm	#848171-150-35
50 mm <sup>2</sup> , length: 1500 mm	#848171-150-50
70 mm <sup>2</sup> , length: 1500 mm	#848171-150-70
95 mm <sup>2</sup> , length: 1500 mm	#848171-150-95
50 mm <sup>2</sup> , length: 2000 mm	#848171-200-50
70 mm <sup>2</sup> , length: 2000 mm	#848171-200-70
95 mm <sup>2</sup> , length: 2000 mm	#848171-200-95



### Terminal

For 25 mm <sup>2</sup> cable	#834081
For 35 mm <sup>2</sup> cable	#834082
For 50 mm <sup>2</sup> cable	#834083

Used with M10 Bolt

## Battery Acid Indicators



### Blinky

#848177-001

A LED blinks green when electrolyte is OK and goes out when water is needed.



### Smart Blinky

#848177-002

A LED blinks green when electrolyte is OK and red when water is needed.

No image available

### Battery Cell Bag

#300482-025

- Dimensions: 60 m x 120 cm
- Extra heavy duty poly bags are puncture resistant and recommended for transporting industrial battery cells.
- Bags are made from 100% virgin high clarity polyethylene film.
- Close bags with twist tie, bag tape or heat seal.



### Neutralon

#TA0245

- 1000 ml
- Neutralizes spilled battery acid
- Safe and easy to use due to indication of neutralization by colour indicator.
- Does not attack paint, rubber, cables, plastics, metals and textiles.



### Battery and Connector Protection Spray

#363125-001

- 300 ml
- Plastic-compatible special grease spray, designed for care and maintenance of vehicle electronics, especially battery poles and electrical connection elements.
- Ensures safe starting and a longer battery life.
- High corrosion protection, prevents leakage currents and reduces contact resistance.



### Distilled Water

5 l #TA0062-005  
20 l #TA0062-020



### Battery Terminal Grease

#TA0090

- Well supportable
- Water-repellent
- Application temperature -30 °C to +60 °C



### Face Protection Acid Resistant

#TA0052

- Clear polycarbonate lens
- Approximately 1 mm thick
- Foldable
- Temperature resistance -30 °C up to +90 °C
- DIN EN 166:2001



### Sleeve Guard Acid Resistant

#TA0190

- TYVEK
- Elasticized top and bottom
- Certified according to Regulation (EU) 2016/425, partial body protection, category III, type PB[6]
- EN 1412



### Battery Acid Resistant Gloves

Size 8 #TA0048-M  
Size 9 #TA0048-L  
Size 10 #TA0048-XL

- ASATEX
- EN 388, EN 374, Cat. III
- Neoprene/latex
- Fully coated with cotton flocking
- Oil and grease repellent
- Chemical resistant
- Food-safe



### Acid Apron

#TA0191

- GUNOVA
- 120 cm x 90 cm
- Black
- Acid resistant
- EN 467, EN 530, EN 863, EN 369
- Made from strong, resistant foil cut with reinforced welded plastic eyelets.



## Basis Tool Battery Maintenance Case

#TA0230

- Includes the following items:
  - 001: 1x acid test
  - 002: 2x cap
  - 003: 2x 35 mm<sup>2</sup> cable end
  - 004: 2x cable end 50 mm<sup>2</sup>
  - 005: 2x cable end 70 mm<sup>2</sup>
  - 006: 2x cable end 95 mm<sup>2</sup>
  - 007: 4x aquamatik connector
  - 008: 4x float gauge 24 mm
  - 009: 4x float gauge 29 mm
  - 010: 4x float gauge 34 mm
  - 011: 4x float gauge 39 mm
  - 012: 4x float gauge 44 mm
  - 013: 4x float gauge 49 mm
  - 014: 2x aqua cap, female 10 mm
  - 015: 2x aqua cap, female 6 mm
  - 016: 2x aqua cap, male 10 mm
  - 017: 2x aqua cap, male 6 mm
  - 018: 2x EUW aqua coupling, female 10 mm
  - 019: 2x EUW aqua coupling, female 6 mm
  - 020: 2x EUW aqua coupling, male 10 mm
  - 021: 2x EUW aqua coupling, male 6 mm
  - 022: 2x float indicator
  - 023: 2x filter
  - 024: 2x elbow 6-6 mm
  - 025: 2x T-coupling 6-6-6 mm
  - 026: 2x T-coupling 10-10-10 mm
  - 027: 2x T-coupling 6-10-6 mm
  - 028: 2x X coupler 6-6-6 mm
  - 029: 2x X coupler 6-10-6-10 mm
  - 030: 2x adapter 10-6 mm
  - 031: 3x end cap 6 mm
  - 032: 4x pole screw M10x22 mm without measuring point
  - 033: 4x pole screw M10x22 mm with measuring point
  - 034: 2x flex. pole connector 50 mm<sup>2</sup>, 110 mm
  - 035: 2x flex. pole connector 50 mm<sup>2</sup>, 150 mm



## Acid Test Densimeter, Glass small

#300406

- Professional quality for highest accuracy
- Precision graduated specific gravity float
- Overall length 35 cm, glass barrel 20 cm long



## Acid Test Densimeter, Glass

#TA0091

Length: approx. 56 cm



## T-Handle with 10 mm Thread

#352228

Used for removing V-Force lithium-ion model V-LI1100 modules and V-Force lead acid cells



## Screwdriver Kit

#832876

- WERA
- 7 pieces
- Laser tip
- VDE slot/PH with voltage tester
- Multi-component booklet with size guide system



## Acid Pump

#TA0268

- Content: 6 l
- Dimension: 30 x 30 cm disassembled (without pump)
- Probe length: 2 m



## Long 1/4" Hex, 3 mm Bit

#360043-016

Used for servicing V-Force HFM3 charger electrical connections



## Quick Cutter 2 – Heavy-Duty Cutter

#300409

- Hand held
- Cuts cable up to 6/0 gauge
- 22 inch handle for easier cutting
- Blades made of 1075 carbon steel, hardened for long life, can be resharpened
- 2-year warranty



## Cable Stripper Knife

#832862

- Promat
- Total length: 170 mm
- Work range: 8–25 mm<sup>2</sup>
- With hook blade



## Clamp on Ammeter VOLTcraft VC 521

#TA0135-002

- VOLTcraft
- VC-521 E
- Max. 600 V, EN 61010-1
- Max. 10 kHz, max. 40 mOhm



## Hex Crimp, 60 cm

#300410-002

- Crimps 8 mm<sup>2</sup> thru 120 mm<sup>2</sup>
- Crimps all major brands of connectors
- Hand held
- 60 cm handles
- Lifetime warranty



## Hex Crimp Repair Kit

#300410-001

- Includes
  - 2x dies
  - 2x springs
  - 2x pins
  - 2x washers



## Hex Crimp, 65 cm

#832856

- Crimps 10 mm<sup>2</sup> thru 120 mm<sup>2</sup>
- 65 cm handles



## Battery Tools



### SB Extraction Tool

#340089-001  
SBE160/SBX175



### SB Extraction Tool

#340089-002  
SBE320/SBX350



### Strap and Hook

#360044

- Tuflex Polyester SSEN 60 x 46 cm (1' 6") round sling with floating hook
- Hook floating on body
- 2400 kg capacity battery cell
- Rigging Strap with hook



### Side-Lift Carrier for Battery

#300040-002

- Best quality
- For all battery types and sizes
- Adjustable notches securely lock in place
- Features bicycle grip handle and sidewall pads



### Cable Shears VDE

#TA0238

- Cutting Cu and Al cables, solid and stranded
- Hardened cutting edges with precision grinding
- Not suitable for steel wire and hard drawn copper conductors
- With pre-cut and post-cut (1st and 2nd cutting edge) cables up to Ø20 mm can also be cut



### Safety Tester

#TA0135-003

- Benning ST 725
- Storage locations for 999 test samples
- 3 hot keys for storing, calling and printing the measured values



### Adapter Cable

#TA0135-003-001

- Benning MA 1-32 Measuring adapter 32 A CEE
- 5-pole active
- Active, with mains voltage-dependent switching devices
- For measuring RPE and IPE under functional condition



### Printer

#TA0135-003-002

- Benning PT2 mobile label and log printer
- High printing speed due to direct thermal process
- Data transmission via Bluetooth or RS232 interface
- Power supply via rechargeable NiMH battery pack



### Self-clamping grommet

#TA0260-110

- Protects against contact with a stripped, live conductor
- Solid plastic
- Inner diameter: 30 mm
- 1000 V



### Tool for Plug Removal

#848188



## Learn More About SB Connectors






SB connectors are from our supplier Anderson Power Products. Please ensure that you do not replace SB connectors with those from other suppliers. Using connectors from different manufacturers can cause problems that may result in damage.

Crown offers kits as well as all parts individually. "SB" connectors include 2-pin connectors for 50 to 350 amps rated power.







A 3-pin version for 175 amps is also available. A set of reducing sleeves is supplied to suit different cable diameters.

There is no difference between battery plugs and battery sockets when using the coloured plugs. The advantage is that you can use the same plug for the battery, the charger and also for the truck.


The colour of the battery plug indicates the battery voltage. There is also a built-in safety feature: a battery plug of one colour will not fit into a socket of a different colour.

Volt	Colour
12 V	
24 V	
36 V	
48 V	
72 V	

## SB 50 A


	<p><b>Connector Housing only</b></p> <p>Red, 24 V                      #340054-001                      Grey, 36 V                    #078723-005</p>
	<p><b>Connector Housing and Contact Kits</b></p> <p>Red, 24 V, 6 mm<sup>2</sup>            #340054-003                      Grey, 36 V, 6 mm<sup>2</sup>        #077917-005                      Red, 24 V, 16 mm<sup>2</sup>        #340054-002</p>
	<p><b>Contacts only</b></p> <p>6 mm<sup>2</sup>                            #078724-003                      16 mm<sup>2</sup>                        #078724-005</p>
	<p><b>Handle</b></p> <p>#120573</p> <ul style="list-style-type: none"> <li>• Plastic</li> <li>• Red</li> <li>• Includes hardware</li> </ul>
	<p><b>Dust Cap</b></p> <p>#155450                      Red</p>
	<p><b>Cable Clamp</b></p> <p>#340056-001                      Can not be used in combination with handle</p>

## SB 175 A




**Connector Housing Only**

Grey, 36 V	#078723-002
Yellow, 12 V	#078723-004
Red, 24 V	#078723-007
Blue, 48 V	#078723-008
Orange, 18 V	#078723-010




**Connector Housing and Contact Kits**

Grey, 50 mm <sup>2</sup>	#077917-002
Yellow, 50 mm <sup>2</sup>	#077917-004



**Contacts Only**

35 mm <sup>2</sup>	#300452-001
50 mm <sup>2</sup>	#078724-002



**Handle**

Plastic, grey	#340029-002
Plastic, red	#340029-003
Steel, red	#340029-005

Includes hardware



**Cable Clamp**

#340056-002


- Includes hardware
- Use without handle



**Cable Clamp**

#340056-003

- Includes hardware
- Used with "A Frame" handle only




**Drive Block**

#077034

- For use with Quick Disconnect

## SB 350 A



**Connector (Housing Only)**

Yellow, 12 V	#078723-009
Orange, 18 V	#378723-015
Red, 24 V	#078723-003
Grey, 36 V	#078723-001
Blue, 48 V	#078723-006
Green, 72 V	#078723-011
Black, 80 V	#078723-012



**Connector Housing and Contact Kits**

Red, 24 V, 70 mm <sup>2</sup>	#077917-003
Grey, 36 V, 70 mm <sup>2</sup>	#077917-001
Blue, 48 V, 70 mm <sup>2</sup>	#380000
Grey, 36 V, 110 mm <sup>2</sup>	#370501-689



**Contacts Only**

50 mm <sup>2</sup>	#078724-006
70 mm <sup>2</sup>	#078724-001
85 mm <sup>2</sup>	#078724-004
110 mm <sup>2</sup>	#078724-007



**Handle**

Plastic, grey	#340029
Plastic, red	#340029-004

Includes hardware



**Cable Clamp**

#340056-004

- Includes hardware
- Can be used with or without handle

## Learn More About SBE Connectors






SBE connectors are from our supplier Anderson Power Products. Please ensure that you do not replace SBE connectors with those from other manufacturers. Using connectors from different manufacturers can cause problems that may result in damage.

The "SBE" connectors are a further development of the SBX series and comply with the EN 1175 Part 1 standard.

They are type tested by TÜV Rheinland according to Addendum C86663 EWG and can also be used with an air coupling for electrolyte circulation during battery charging

### Voltage coding

Mechanical ribs on connectors of the same colour ensure a perfect connection. Plugs of different colours cannot be connected due to this coding.

Volt	Colour
12 V	
24 V	
36 V	
48 V	
72 V	

## SBE 160 A



### Connector Housing only

Red, 24 V	#108801-005
Grey, 36 V	#108801-011
Blue, 48 V	#108801-012
Black, 80 V	#108801-007



### Connector Housing and Contact Kits

Red, 24 V, 50 mm <sup>2</sup>	#108800S005
Blue, 48 V, 50 mm <sup>2</sup>	#806718



### Contacts only

50 mm <sup>2</sup>	#340085
70 mm <sup>2</sup>	#108802-002



### Handle

#340029-002

- Plastic, grey
- Includes hardware

#340029-003

- Plastic, red
- Includes hardware




### Cable Clamp

#340056-005

- Includes hardware
- Use with or without handle

## Battery Connector – SBE

### SBE 320 A




**Connector Housing Only**

Yellow, 12 V	#108801-008
Red, 24 V	#108801-003
Grey, 36 V	#108801-001
Blue, 48 V	#108801-006
Green, 72 V	#108801-002
Black, 80 V	#108801-010
Brown, 96 V	#108801-004



**Connector Housing and Contact Kits**

Grey, 36 V, 50 mm <sup>2</sup>	#108800-007
Grey, 36 V, 70 mm <sup>2</sup>	#108800-001
Blue, 48 V, 70 mm <sup>2</sup>	#108800-008
Red, 24 V, 95, mm <sup>2</sup>	#108800-006



**Contacts only**


50 mm <sup>2</sup>	#308802-001
70 mm <sup>2</sup>	#108802-001
95 mm <sup>2</sup>	#108802-003
120 mm <sup>2</sup>	#108802-004



**Handle**

Plastic grey	#340029
Plastic, red	#340029-004

Includes hardware



**Cable Clamp**

#340056-006

- Includes hardware
- Use with or without handle


### Accessories

No image available

**Auxiliary Contact Kit**

#340084

SBE



**Drive Block used on P.N. 108800-006**


Drive Block	#108437
Screw	#060015-025
Lock Washer	#060005-006
Nut	#060021-006



**Auxiliary Contact Crimp Tool Multi-Die Kit**

#340084-001

Crimps 0.5-16 mm<sup>2</sup> SB, SBS, SBE, SBO, DIN80/160/320, Powerpole, Saf-D-Grid, and SPEC Pak Connectors. Includes 3 dies and plastic case



**Contact Bushing**

53.50–50 mm <sup>2</sup>	#108852-001
67.23 –70mm <sup>2</sup>	#108852-002

- Contact bushing for transition/reduction
- Used on SB and SBE

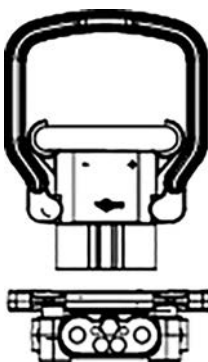
## Learn More About DIN Connectors

DIN connectors are from our supplier REMA. These connectors exceed the requirements of DIN 43589 for both mechanical and electrical durability and comply with EN1175 Part 1.

Three different options are available: DIN 80 A, DIN 160 A and DIN 320 A. The number indicates the required amperage.

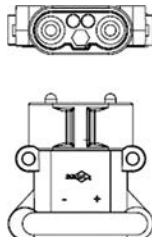
The housing is made from glass-fibre reinforced composite material for extreme durability. Additional options such as coding pins, air supply and auxiliary contacts are available.

### DIN 80 A



**Socket – Housing**

<b>Housing</b>	
Housing	#813241-101
Housing with fixed handle	#813241-100
<b>Housing and Two Main Contacts</b>	
16 mm <sup>2</sup> , grey	#813241-012
25 mm <sup>2</sup> , grey	#813241-014
16 mm <sup>2</sup> , grey	#813241-011
25 mm <sup>2</sup> , grey	#813241-013
<b>Housing W/ Fixed Handle and Two Main Contacts</b>	
16 mm <sup>2</sup> , grey	#813241-002
25 mm <sup>2</sup> , grey	#813241-004
16 mm <sup>2</sup> , grey	#813241-001
25 mm <sup>2</sup> , grey	#813241-003



**Plug – Housing**

<b>Housing</b>	
Housing	#813241-102
<b>Housing and Two Main Contacts</b>	
16 mm <sup>2</sup> , grey	#813241-021
25 mm <sup>2</sup> , grey	#813241-023
16 mm <sup>2</sup> , grey	#813241-022
25 mm <sup>2</sup> , grey	#813241-024

No image available

**Plug – Main Contact**

16 mm <sup>2</sup>	#813241-106
25 mm <sup>2</sup>	#813241-107

No image available

**Socket – Main Contact**

16 mm <sup>2</sup>	#813241-108
25 mm <sup>2</sup>	#813241-109

No image available

**Socket and Plug Accessories – Handle Only**

Grey	#813241-118
Red	#813241-119



**Socket and Plug Accessories – Coding Pins**

For wet battery, grey	#813241-122
For dry battery, green	#813241-123
For wet and dry battery, yellow	#813241-124

NOTE: THE SOCKET IS FOR THE BATTERY SIDE AND THE PLUG IS FOR THE TRUCK SIDE. THE TERMS "PLUG" AND "SOCKET" REFER TO THE MAIN CONTACTS, NOT THE HOUSING.



## DIN 160 A


<b>Socket – Housing</b>	
	<b>Housing</b>
	Housing #813241-104
	Housing With Fixed Handle #813241-103
	<b>Housing and Two Main Contacts</b>
	25 mm <sup>2</sup> , grey #813241-061
	35 mm <sup>2</sup> , grey #813241-063
	50 mm <sup>2</sup> , grey #813241-065
	<b>Housing and Two Main Contacts W/ Aux. Contacts</b>
	25 mm <sup>2</sup> , grey #813241-060
	35 mm <sup>2</sup> , grey #813241-062
50 mm <sup>2</sup> , grey #813241-064	
<b>Housing With Fixed Handle and Two Main Contacts</b>	
25 mm <sup>2</sup> , grey #813241-051	
35 mm <sup>2</sup> , grey #813241-053	
50 mm <sup>2</sup> , grey #813241-055	
50 mm <sup>2</sup> , grey and green #813241-056	
<b>Housing With Fixed Handle and Two Main Contacts With Aux. Contacts</b>	
25 mm <sup>2</sup> , grey #813241-050	
35 mm <sup>2</sup> , grey #813241-052	
50 mm <sup>2</sup> , grey #813241-054	

<b>Plug – Housing</b>	
	<b>Housing</b>
	Housing #813241-105
	<b>Housing and Two Main Contacts</b>
	25 mm <sup>2</sup> , grey #813241-071
	35 mm <sup>2</sup> , grey #813241-073
	50 mm <sup>2</sup> , grey #813241-075
	50 mm <sup>2</sup> , yellow #813241-076
	<b>Housing and Two Main Contacts With Aux. Contacts</b>
	25 mm <sup>2</sup> , grey #813241-070
	35 mm <sup>2</sup> , grey #813241-072
50 mm <sup>2</sup> , grey #813241-074	

<b>Plug – Main Contact</b>	
<b>No image available</b>	16 mm <sup>2</sup> #813241-110
	25 mm <sup>2</sup> #813241-111
	35 mm <sup>2</sup> #813241-112
	50 mm <sup>2</sup> #813241-113

<b>Socket – Main Contact</b>	
<b>No image available</b>	16 mm <sup>2</sup> #813241-114
	25 mm <sup>2</sup> #813241-115
	35 mm <sup>2</sup> #813241-116
	50 mm <sup>2</sup> #813241-117

<b>Socket and Plug Accessories – Handle Only</b>	
<b>No image available</b>	Grey #813241-120
	Red #813241-121

<b>Socket and Plug Accessories – Coding Pins</b>	
	Grey #813241-125
	Green #813241-126
	Yellow #813241-127

<b>Socket and Plug Accessories – Pilot Contact Kit Complete</b>	
<b>No image available</b>	#813241-129
	Kit socket and plug


NOTE: THE SOCKET IS FOR THE BATTERY SIDE AND THE PLUG IS FOR THE TRUCK SIDE. THE TERMS "PLUG" AND "SOCKET" REFER TO THE MAIN CONTACTS, NOT THE HOUSING.

## DIN 320 A



**Socket – Housing**

<b>Housing and Strain Relief</b>	
Housing and Strain Relief	#813241-131
<b>Housing, Strain Relief, Coding Pin and Two Main Contacts</b>	
50 mm <sup>2</sup> , grey	#813241-160
70 mm <sup>2</sup> , grey	#813241-161
95 mm <sup>2</sup> , grey	#813241-162



**Plug – Housing**

<b>Housing and Strain Relief</b>	
Housing and Strain Relief	#813241-130
<b>Housing, Strain Relief, Coding Pin and Two Main Contacts</b>	
50 mm <sup>2</sup> , grey	#813241-170
70 mm <sup>2</sup> , grey	#813241-171
95 mm <sup>2</sup> , grey	#813241-172

No image available

**Socket – Main Contact**

50 mm <sup>2</sup>	#813241-135
70 mm <sup>2</sup>	#813241-136
95 mm <sup>2</sup>	#813241-137

No image available

**Plug – Main Contact**

50 mm <sup>2</sup>	#813241-132
70 mm <sup>2</sup>	#813241-133
95 mm <sup>2</sup>	#813241-134

No image available

**Socket – Aux Contacts**

#813241-141
-------------


Adapter for auxiliary contacts and two auxiliary contacts

No image available

**Plug – Aux Contacts**

#813241-139
-------------

Adapter for auxiliary contacts and two auxiliary contacts



**Socket – Air Adapter**

#813241-140
-------------

(6/8 mm connection)

No image available

**Plug – Air Adapter**

#813241-138
-------------

(6/8 mm connection)

No image available

**Socket and Plug Accessories – Handle Only**

#813241-142
-------------

- Handle with screws
- Grey

NOTE: THE SOCKET IS FOR THE BATTERY SIDE AND THE PLUG IS FOR THE TRUCK SIDE. THE TERMS "PLUG" AND "SOCKET" REFER TO THE MAIN CONTACTS, NOT THE HOUSING.

## Learn More About LV Connectors

LV connectors are from our supplier Schaltbau. These connectors exceed the requirements of DIN VDE standard 0623-589 and EN 1175.

We only offer one option for the required amperage of 320 A or 400 A.

The housing is made of glass fibre reinforced composite material for extreme durability and is battery acid resistant to DIN EN 1175.

### LV 320/400 A

	<b>Socket – Housing</b>	
	Housing	#820410-055
	<b>Housing and Two Main Contacts</b>	
	Main Contacts 70 mm <sup>2</sup>	#820410-044
	Main Contacts 95 mm <sup>2</sup>	#820410-064
	<b>Housing and Two Main Contacts With Auxiliary Contacts</b>	
	95 mm <sup>2</sup> , Pilot Contacts and Coding Pin	#340400-105

	<b>Plug – Housing</b>	
	Housing	#820410-052
	<b>Housing and Two Main Contacts</b>	
	70 mm <sup>2</sup>	#820410-042
	<b>Housing and Two Main Contacts With Auxiliary Contacts</b>	
	95 mm <sup>2</sup> , Pilot Contacts and Coding Pin	#340400-115

No image available	<b>Socket – Main Contact</b>	
	#820410-046	70 mm <sup>2</sup>

No image available	<b>Socket – Aux Contacts</b>	
	#820410-057	

No image available	<b>Socket – Pilot Contacts</b>	
	#820410-038	

No image available	<b>Socket – Keying Plug</b>	
	#820410-028	

No image available	<b>Socket and Plug Accessories – Handle Only</b>	
	#820410-020	Black

No image available	<b>Socket and Plug Accessories</b>	
	Clamp and Screw, 3.5 × 19	#820410-054-01
	Slider	#820410-053
	Contact Bushing, 50 => 35 mm <sup>2</sup>	#820410-051
	Contact Bushing, 70 => 50 mm <sup>2</sup>	#820410-050

NOTE: THE SOCKET IS FOR THE BATTERY SIDE AND THE PLUG IS FOR THE TRUCK SIDE. THE TERMS "PLUG" AND "SOCKET" REFER TO THE MAIN CONTACTS, NOT THE HOUSING.



# TOOLS

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### L-BOXX 102

5 troughs #TA0141-102-05  
 8 troughs #TA0141-102-08  
 12 troughs #TA0141-102-12

- Sortimo
- Incl. small parts insert



### L-BOXX 136

4 troughs #TA0141-136-04  
 6 troughs #TA0141-136-06  
 8 troughs #TA0141-136-08

- Sortimo
- Incl. small parts insert



### T-BOXX

#TA0145

Incl. 12 insetboxes H63



### Toolbox

#TA0158

- Promat
- 5-part
- Outside W 430 x D 200 x H 200 mm
- Flanged edges
- Sheet thickness: approx. 0.7 mm



### Case Tool Cary

#128321

- Dimensions: 30 x 16 x 14 cm
- 2 outside pockets with inside pockets for small parts



### Tool Case \*

#TA0163

- Promat
- Inside: W 465 mm x D 255 mm x H 352 mm
- Rollers and pull-out bar can be replaced separately
- HDPE plastic
- 42 l
- Without inventory



### Kneeboard \*

#TA0170

- Promat
- W 245 mm x L 490 mm x H 30 mm
- Foam (LD45)



### Knee Board Large

#TA0170-001

- KS Tools
- 2 pieces can put together to 1
- W 550 mm x L 1150 mm x H 36 mm



### Kneeling Pad

#TA0063

- Würth
- 48 cm x 32 cm



### Tool Bag

#322224

- Crown Branded
- Dimensions: 50 x 30 x 25 cm
- Pockets on the outside and inside for small and big parts/tools
- 1-year warranty



### Tool Trolley \*

#TA0269

- Columns can be swung down to lowest height (500 mm)
- Lockable with padlock (including 2 keys)
- Total load capacity (dynamic): 150 kg
- Total load capacity (static): 300 kg
- Dimensions: 650 mm x 415 mm x 965 mm
- Weight: 24.5 kg



### Backpack Tool Bag

#322231

- Crown branded
- Up to 25 kg capacity
- Made from tear-resistant fabric
- Thermoplastic rubber bottom
- Nylon straps



### Small Magnetic Tray

#322302

- Stainless Steel
- 102 mm Diameter
- Strong holding magnetic tray to secure nuts, bolts and other small parts & fasteners
- 76 mm PVC coated magnet helps prevent scratching



### Document Bag

#TA0243

- Suitable for handing over documents when buying or renting a Crown forklift truck. Suitable for parts or service manuals or other DIN A5 documents
- Colour: black with Crown.com impression
- Dimensions closed: 243 x 163 mm
- Dimensions open: 328 x 163 mm
- Depth/capacity for paper: slightly stretchable
- Transparent compartment for smaller, thin documents
- Transparent pocket for business card or emergency card



### Large Magnetic Tray \*

#322303

- Stainless Steel
- 238 mm x 137 mm
- Strong holding magnetic tray to secure nuts, bolts and other small parts & fasteners
- Two 76 mm PVC coated magnets help prevent scratching



### Mini Tool Box

#322227

- Crown branded
- The Crown three drawer micro tool box measures 22 cm x 11 cm x 11 cm
- Black gloss paint with aluminium trim
- Perfect for storing small parts or office supplies



### Top Tool Box

#322229

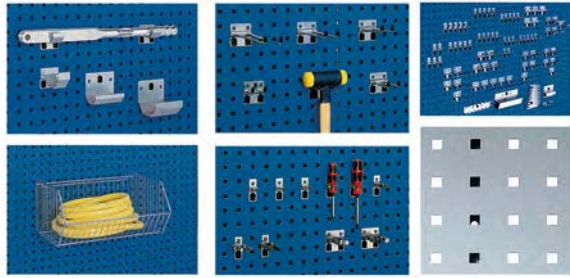
W 1016 mm x D 508 mm x H 493.7 mm



### Roll Cabinet

#322230

- W 40" x D 20" x H 38½" (40 cm x 15 cm x 97 cm)
- Eleven drawers provide nearly 25,000 cubic inches (410 l) of storage space
- Double ball bearing slides on roll cabinet bottom drawer provides 250 pound capacity
- Lock and roll drawers
- Non-slip drawer
- Gas-assisted lifts on the top chest
- Swivel casters are lockable
- Double wall construction
- Powder coat paint provides scratch resistance for lifetime durability
- Anti-theft locks on both chest and roll cabinet for maximum security



**Perforated Plate System \*\***

#TA0080



**Standing Console \*\***

#TA0082



**Toolbox With Foam \*\***

#TA0081



**Cage With Door \*\***

#TA0083



**Table \*\***

#TA0084



**Shop Floor Equipment \*\***

Trashcan/Bin 121 l  
 Floor Brush  
 Wall Holder for #TA0029  
 Dust Pan  
 Key Locker  
 Bench Vise  
 Heavy Weight Carriage  
 Ladder 4.7 m  
 Organizer Cabinet

#TA0085-001  
 #TA0085-002  
 #TA0085-003  
 #TA0085-004 \*  
 #TA0085-005  
 #TA0085-006  
 #TA0085-007  
 #TA0085-008  
 #TA0085-009




**Chair\*\***

#TA0273

- Stepless seat height adjustment with top lift
- Permanent contact backrest with ergonomic design in the lumbar area
- Seat and back with imitation leather cover
- Comfortable special trough seat
- Load-dependent braked safety double castors for hard floors
- Seat height: 590–840 mm
- Seat dimensions: 460 × 430 mm



## Workshop Requirements | Garage



**Vacuum Cleaner**


#TA0193

- CLEANCRAFT
- WetCAT 133 IE
- Automatic run
- Low-noise operation
- Container resistant to oil and chemical residues

**Filter Bag (5 Pieces)**

#TA0193-001


- CLEANCRAFT
- Suitable for wetCAT 133 IE
- 15 l
- 5 pieces



**Vacuum Cleaner Wet & Dry \* \*\***

#TA0205


- CLEANCRAFT
- WetCAT 118
- For vacuuming liquids and other solid particles
- Includes a blower function, for dry, wet and carpet cleaning



**Paper Filter Bag (10 Pieces)**


#TA0205-001

CLEANCRAFT




**Fabric Filter**

#TA0205-002




**Sponge Filter \***

#TA0205-003




**Floor Nozzle Wet/Dry**

#TA0205-004




**Flat Nozzle Incl. Brush Attachment**

#TA0205-005



**Cartridge Filters \***


#TA0205-006



**Hose, 1.5 m \***

#TA0205-007

Incl. handle with air regulation




**Aluminum Suction Pipe (3 Pieces) \***

#TA0205-008

- 330 mm
- Ø: 32 mm


## Technical Equipment | Maintenance



**Sling**

Colour	Load capacity	Length	Part-No.
Green	2000 kg	1 m	#832888-002 *
Yellow	3000 kg	1 m	#832888-003 *
Red	5000 kg	1 m	#832888-005
Blue	8000 kg	2 m	#832888-008


- DOLEZYCH
- DIN EN 1492-2



**Eye Bolt \***

Load capacity	Thread	Part-No.
75 kg	M6	#050095-001
140 kg	M8	#050095-002
230 kg	M10	#050095-003
340 kg	M12	#050095-004


- KLEINSORGE
- DIN 580
- Steel C15, galvanized



**Shackles \***

Load capacity	Bracket/Bolt	Part-No.
400 kg	10 mm	#TA0067-002
800 kg	16 mm	#TA0067-001
1500 kg	22 mm	#TA0067-003

- KLEINSORGE
- Straight shape
- Contour milled
- 5 mm black on 95 mm eye bolts
- 10 pieces



**Side-Lift Carrier for Battery \***

#300040-002

- Best quality
- For all battery types and sizes
- Adjustable notches securely lock in place
- Features bicycle grip handle and sidewall pads

\* Included in basic technician equipment #TA0044-003

\*\* Information on articles, delivery times and quantity, on request



**Lifter**

#TA0069

- UNICRAFT
- HMH 5 Hydraulic machine jack
- 5000 kg



**Tool Retractor**

#300114

- Load capacity: 0.8–2.0 kg
- Extended rope length: approx. 1.7 m



**Lever Hoist With Load Chain**

#TA0219

- Lever hoist for lifting and pulling work with 750 kg maximum load capacity
- Design according to DIN EN13157 standard
- Galvanized load chain according to DIN ISO 3077
- High-strength, painted steel housing
- Fast hoisting of the load or pulling of the load chain in both directions by means of chain freewheeling
- Safe holding of the load by load pressure brake with asbestos-free brake discs
- Drop-forged, rotating load and suspension hooks with safety device



**Lifting Device**

#845432

- Application: Lifting the pump unit
- Crown
- Used with part #845431
- Can be attached to a hoist (such as a crane) to be attached
- Designed to prevent damage to the overhead guard
- Allows vertical lifting, preventing wedging/blocking
- Supports the ergonomics of technicians



**Lifting Device Adapter**

#845431

- Application: Lifting the pump unit
- Crown
- Used in conjunction with part #845432
- Off-centre eyebolt for vertical lifting of pump unit
- Facilitates removal of pump unit from forklift



**Transport Bracket/Shackle**

#843784

- Is used to lift the forklift truck with a crane
- 360° rotatable
- 180° swivelling
- M16x2



**Strap and Hook**

#360044

- Tuflex polyester SSEN60 x 1' 6" (46 cm) round sling with hook floating on the body
- 2400 kg capacity battery cell
- Extractor strap w/ hook



**Heavy Duty Carrier**

#TA0244

- Load capacity: 3 t
- Roll diameter: 85 mm
- Roll width: 90 mm
- Bearing surface: 185 x 150 mm
- Length without drawbar: 295 mm
- Width without drawbar: 230 mm
- Height with drawbar: 104 mm



**Mast Lubrication Tool Kit \***

#363163

- Use for greasing hard-to-reach areas on mast channels.
- The 1.8–3.6 m pro-pole provides an extension for the chip brush to grease desired areas.
- Kit includes: Pro-Pole, Brush Holder, and 76 mm Straight Edge Chip Brush.
- Replacement Brush: #363163-003

## Emery Cloth Sheet \*



#TA0183

- Promat
- L 280 mm x W 230 mm
- Grain 120
- For metal corundum, for metal/wood processing
- Synthetic resin bonded abrasive cloth with dense corundum scattering
- Stable tissue
- Universal product
- Sheets

## Sanding Block



#TA0187

- Promat
- L 98 mm x W 69 mm x H 26 mm
- Grain size 100, fine
- Coated on four sides, suitable for wood grinding
- Intermediate lacquer sanding, plastic sanding, metal cut

## Flap Wheel KM 613



#844777

- KLINGSPOR
- Ø: 60 mm x B 50 mm x S 6 mm
- Korn 40

## Grinding Disc



Grain 40	#TA0129-125-040
Grain 60	#TA0129-125-060
Grain 80	#TA0129-125-080 *
Grain 120	#TA0129-125-120

- Promat
- Ø: 125 mm
- Cranked, INOX zirconia alumina
- For Angle Grinder #TA0129 on page 95

## Grinding Wheel



#TA0078-001-01

- 115 mm
- 10 pieces
- Grain 60

## Cutting Disc



Ø 115 mm	#TA0078-002-01
Ø 125 mm	#TA0129-125-CD *

- 115 mm: 10 pieces
- 125 mm: 25 pieces



### Assortment Heat Shrinks \*

#TA0179

- KS TOOLS
- 2.0×40–13×80
- 127 pieces



### Assortment Nuts \*

#TA0180

- KS TOOLS
- Metric
- 300 pieces



### Assortment Hexagon Socket Screws \*

#TA0181

- KS TOOLS
- Metric
- 106 pieces



### Assortment High Tension Pen \*

#TA0211

- KS TOOLS
- Ø: 5–17.5 mm
- 150 pieces



### Assortment Copper Sealing Ring \*

#TA0214

- KS TOOLS
- Ø: 5–17.5 mm
- 150 pieces



### Assortment Flat Washers \*

#TA0215

- KS TOOLS
- M3–M10
- 720 pieces



### Assortment O-Rings \*

#TA0177

- BGS
- 419 pieces
- Made of NBR
- Different sizes assorted
- Resistant to acid, petrol, heat and oil



### Assortment Crimp Connectors \*

#TA0178

- KS TOOLS
- 360 pieces:
  - Red: 0.5–2.5 mm<sup>2</sup>
  - Blue: 1.5–2.5 mm<sup>2</sup>
  - Yellow: 2.5–6.0 mm<sup>2</sup>



### Splinte Assortment \*

#TA0210

- KS TOOLS
- 555 pieces
- 1.6×25.4 mm–4.0×63.5 mm



### Assortment Insert Locknut

#TA0212

- KS TOOLS
- M4-12
- 146 pieces



### Shrink Sleeve

- |            |             |
|------------|-------------|
| D= 1.2 mm  | #813412-001 |
| D= 1.6 mm  | #813412-002 |
| D= 2.4 mm  | #813412-003 |
| D= 3.2 mm  | #813412-004 |
| D= 4.8 mm  | #813412-005 |
| D= 6.4 mm  | #TA0123-001 |
| D= 9.5 mm  | #813412-007 |
| D= 12.7 mm | #TA0123-002 |
| D= 19.1 mm | #813412-009 |
| D= 25.4 mm | #TA0123-003 |
| D= 38.1 mm | #TA0075-381 |
| D= 50.8 mm | #813412-012 |

Length: 1 m

## Window Panel Change Kit #838906 Includes:



### Tool Kit Scraper and Knife

#838572

- Scraper and knife set, 27 pieces
- Ergonomic 2K scraper handle with blade clamp
- Carpet knife with multi-stage locking device
- The blade can be retracted completely



### Stainless Steel Cutting Wire

#838574

- Extremely smooth surface, cuts more easily through adhesive bead
- In handy plastic dispenser roll



### Vacuum Lifter

#838576

Suction lifter with 2 mobile heads



### Wire Feeder

#838573

- Wire probe
- AY-insertprobe-WNDWREMTL-Windowwire
- For piercing adhesive bead and inserting cutting wire
- Particularly long and slender shape for flat and inclined panes



### Pulling Handle

#838575

- 2× pulling handle for cutting wire
- For cutting wire



### Manual Cartridge Gun Standard

#838577

- Manual cartridge gun, standard
- For applications with 310-ml cartridges



## Electric Compressor 230 V \*

#832835

- AIRCRAFT
- COMPACT-AIR 221/10 E
- Maximum volume flow: 185 l/min
- Maximum pressure: 8 bar
- Tank capacity: 10 l
- Filling capacity: 120 l/min



## Electric Compressor, 20 l

#TA0148

- AIRCRAFT
- Compact-Air 361/20 E
- 230 V power
- Maximum pressure: 10 bar
- Filling capacity: 215 l/min
- For workshop use only



## Hose Pressurized Air \*

#832851

- EWO
- Inner Ø: 6.5 mm
- Outside Ø: 10 mm
- Length: 7.5 m



## Extension Nozzle for Blow Gun \*

#TA0056

- AIRCRAFT
- Incl. 250 mm extension nozzle



## Spray Pistol

#TA0130-002

- AEROTEC
- 1 l
- 6.3 bar
- Air consumption: 130–200 l/min
- Spray tube: 300 mm
- Sheet steel container
- Cone width of the adjustable spray jet



## Blow out Air Gun \*

#832892

- AIRCRAFT
- Aluminium
- BP PRO-E



## Cleaning Blowgun

#TA0130

AIRCRAFT



### Battery-powered LED flashlight \*

#TA0232

- Lithium-ion-battery 3.7 V/2000 mAh
- 2 Watt COB-LED, special light string LED for optimum illumination
- 3 additional LED in the torch head
- Constant operating life: 3–4 h
- Charging time: 3–4 h
- Foldable hook in the back
- 4 strong magnets integrated into the back
- Rubberized and non-slip case
- Incl. power supply unit and USB charging device 5 V/1.0 A
- 3 possible setups: ON/Only torch head/OFF



### Hand Lamp LED 230 V Schuko

#832842

- Luminous flux: 330 lm
- Power: 8 W
- Cable length: 5 m
- Frequency: min. 50 Hz/max. 60 Hz
- Highly flexible supply cable for optimum protection against cable breakage
- Rotatable hook
- Oil and petrol resistant
- Sturdy, prismatic protective tube for glare-free working
- Robust design due to rubber cap and handle with roller protection
- Fully electronic ballast EVG with automatic switch-off (in case of defective illuminant) and preheating



### Multifunctional Bendable Light \*

#MA0188

- Dimensions: Length 140 mm, Width 20 x 20 mm
- Work/Safety/Headlight
- 5 light functions
- Charge via USB Port



### Impact Wrench (w/o Battery)

#TA0147-002

- BOSCH
- GDS 18 V-LI HT
- Without battery
- Max. Torque 650 N m
- In case



### Cordless Screwdriver (w/o Battery)

#TA0147-001

- BOSCH
- GSR 18 V-EC FC2
- Without battery
- Without charging cable
- In case



### Impact Wrench (w/o Battery) \*

#TA0147-AKKU

- BOSCH
- GDS 18 V-300
- Without battery
- Max. Torque 300 N m
- In case



### Battery Angle Drill

#844585

- MILWAUKEE
- incl. 2 batteries and charger
- incl. bag



### Angle Grinder (w/o Battery) \*

#TA0129-AKKU

- BOSCH
- GWS 18 V-125 SC
- Without battery
- In case



### Offset Screwdriver Bits

#TA0197

- AEG
- 1/4"
- Corner: 30 mm, 360° handle rotatable-adjustable
- Scope of delivery: 10 Bits



### Battery 18 V 5 Ah \*

#TA0147-001-01

- BOSCH
- 5.0 Ah Li-Ion



### Die & Screw Tap Tool Kit \*

#832906

- RUKO
- Terrax threading tool set
- 44 pieces
- M3-M12



### Charger GAL 1880 CV \*

#TA0147-001-02

- BOSCH
- Solo in box



### Die & Screw Tap Tool Kit, Inch

#TA0274

- 56 pcs.
- 1/4"-1/2"



### Angle Grinder 125 mm incl. Case

#TA0129

- W 390 mm x D 240 mm x H 112 mm
- Diameter: 125 mm, cranked, INOX zirconia
- For suitable Grinding Disc on page 91



### Tap Bit Set \*

#TA0185

- EXACT
- DIN 3126
- 7 pieces
- HSS-G
- 1/4", hexagonal, M3-M10
- Plastic box



### Extension Cable, 25 m \*

#832841

- BRENNSTUHL
- Cable drum Garant
- S240, N05V3V3
- 3 x 1.5 mm<sup>2</sup>, 240 mm
- 3 socket outlets with earthing contact
- Sheet steel



### Subland Twist Drill Kit \*

#TA0186

- Promat
- Ø: 4-12/4-20/4-30 mm
- HSS, spiral-grooved
- With cross-bevel
- 3 pieces
- Plastic cassette



### Drill Machine 230 V Schuko

#832858

- BOSCH
- Drill machine GSB 780
- 2-gear, 780 Watt
- Hammer drill function



### Ratchet for Screw Tap

M3-M10  
M5-M12

#TA0066-001 \*  
#TA0066-002

- Promat
- Size 1, short
- With gun



### Rivet Gun for Rivet Nut

#838759

M5-M10



### Twist Drill

Ø 1.0 mm	#832837-010
Ø 1.5 mm	#832837-015
Ø 2.0 mm	#832837-020
Ø 2.5 mm	#832837-025
Ø 3.0 mm	#832837-030
Ø 3.5 mm	#832837-035
Ø 4.0 mm	#832837-040
Ø 4.5 mm	#832837-045
Ø 5.0 mm	#832837-050
Ø 5.5 mm	#832837-055
Ø 6.0 mm	#832837-060
Ø 6.5 mm	#832837-065
Ø 7.0 mm	#832837-070
Ø 7.5 mm	#832837-075
Ø 8.0 mm	#832837-080
Ø 8.5 mm	#832837-085
Ø 9.0 mm	#832837-090
Ø 9.5 mm	#832837-095
Ø 10.0 mm	#832837-100
Ø 10.5 mm	#832837-105
Ø 11.0 mm	#832837-110
Ø 11.5 mm	#832837-115
Ø 12.0 mm	#832837-120
Ø 12.5 mm	#832837-125
Ø 13.0 mm	#832837-130

- RUKO
- DIN 338, type N
- Nominal diameter: 1 mm
- HSS
- Profile ground
- Cylindrical shank
- Kit #832837-000 on page 67



### Twist Drill Set \*

#832837-000

- BOSCH
- Drill Bit Set Pro Box
- HSS-G, 135°
- 25 pieces
- 1–13 mm

# Hand Tool | Wrench



### Combination Wrench Kit SAE (13 Pieces) \*

#322170

- Crown branded
- Lifetime warranty
- Includes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
- 15° offset box end knuckle clearance
- Made of heat-treated alloy steel for strength exceeding ANSI specifications



### Combination Wrench Kit, Metric (10 Pieces)

#322190

- Crown branded
- Lifetime warranty
- Includes: 10 mm bis 19 mm
- 15° offset box end knuckle clearance
- Made of heat-treated alloy steel for strength exceeding ANSI specifications



### Angle Wrench Kit (6 Pieces)

#322262

- Crown branded
- Lifetime warranty
- Includes: 5/8", 11/16", 3/4", 7/8", 15/16", 1"



### Open-end Wrench / Spanner \*

30 mm	#TA0125-001
34 mm	#TA0125-002

- GEDORE 133
- CV steel



### Double Open Wrench

14 × 17 mm	#TA0188-001
16 × 18 mm	#TA0188-002
19 × 21 mm	#TA0188-003
22 × 24 mm	#TA0188-004
24 × 27 mm	#TA0206

KS TOOLS/GEDORE



### Ring Spanner Kit \*

#832838

- Promat
- 12 pieces
- Wrench size: 6–22 mm
- Form A
- CV steel




### Ring Spanner

6 mm	#832838-001-01
7 mm	#832838-001-02
8 mm	#832838-001-03
9 mm	#832838-001-04
10 mm	#832838-001-05
11 mm	#832838-001-06
12 mm	#832838-001-07
13 mm	#832838-001-08
14 mm	#832838-001-09
17 mm	#832838-001-10
19 mm	#832838-001-11
22 mm	#832838-001-12

Promat






**Double Open Wrench Kit \***

#832887


- Promat
- 12 pieces
- SW 6–32 mm
- CV steel, chrome-plated
- Wrench size: 6 × 7 mm/8 × 9 mm/10 × 11 mm/12 × 13 mm/14 × 15 mm/16 × 17 mm/18 × 19 mm/20 × 22 mm/21 × 23 mm/24 × 27 mm/25 × 28 mm/30 × 32 mm



**Double Open Wrench**

6 × 7 mm	#837887-001-01
8 × 9 mm	#837887-001-02
10 × 11 mm	#837887-001-03
12 × 13 mm	#837887-001-04
14 × 15 mm	#837887-001-05
16 × 17 mm	#837887-001-06
18 × 19 mm	#837887-001-07
20 × 22 mm	#837887-001-08
21 × 23 mm	#837887-001-09
24 × 27 mm	#837887-001-10
25 × 28 mm	#837887-001-11
30 × 32 mm	#837887-001-12
36 × 41 mm	#832896 *


Promat



**Adjustable Wrench**

34 mm	22.5°	#322137
36 mm	15.0°	#TA0169 *


- Promat /GEDORE
- Length: 300 mm
- DIN 3117 A
- Chrome-plated



**Adjustable Wrench, 250 mm**

#322138


- Crown branded
- Lifetime warranty
- 1 1/4"



**Hex Wrench Set, 1/20" – 3/8", Imperial \***

#322113


- Crown branded
- Lifetime warranty
- Includes: 0.050" bis 3/8"



**Hex Wrench Set, Metric \***

#322114

- Crown branded
- Lifetime warranty
- Includes: 1.5 mm bis 10 mm
- Ball end allows better angle of entry for hard to reach areas
- Chrome vanadium steel with black oxide finish



**Cranked Allen Wrench Kit, Torx \***

#832882


- Promat
- 9 pieces
- T9 – T45
- Colour coded
- For screws with internal TORX® profile
- S2 steel, powder coated
- Plastic holder



**TX Handle Safety**

#TA0240-010

TX10



**Ring Spanner Kit 8–32 mm \***

#832844

- POWERDRIV 12-edge
- Chrome vanadium steel
- Chrome plated, rings polished
- Ring side cranked 18



**Ratchet Wrench Assortment**

#TA0223-SET

- Promat
- Combination ratchet Wrench
- Width across flats: 8 mm, 10 mm, 14 mm, 17 mm und 19 mm
- With flexible head on all sides
- Straight shape
- CV steel
- Matt chrome plated
- Jaw position 15°
- 72 teeth
- Recommended for your use with e.g.
  - DS 3040: 19 mm
  - InfoLink: 8 mm and 10 mm
  - Variety of covers: 13 mm



**Ratchet Wrench**

8 mm	#TA0223-008
10 mm	#TA0223-010
13 mm	#TA0223-013
17 mm	#TA0223-017
19 mm	#TA0223-019

Promat



## Drive Socket Set 1/4" (39 Pieces) \*

#322000

- Crown branded
- Lifetime warranty
- Includes: ratchet, universal joint, drive extensions 1-1/2" and 6", adapter 1/4" female to 3/8" male, drive spinner handle, 12 point shallow sockets from 5/32" to 9/16", 12 point deep sockets form 5/32" to 9/16", 12 point shallow sockets from 4 mm to 14 mm



## 1/2" Multi-Angle Ratchet \*

#TA0100

- ZEBRA
- Joint can be rotated through 180° and fixed in desired position, is therefore very well-suited to tightening powerfully in different positions
- Standard: DIN 3122, ISO 3315
- Design: Chromium-plated



## Drive Socket Set 3/8" (72 Pieces) \*

#322040

- Crown branded
- Lifetime warranty
- Includes: ratchet, universal joint, drive extensions 3" and 5", adapter 3/8" female to 1/4" male, adapter 3/8" female to 1/2" male, adapter 1/2" female to 3/8" male, drive spinner handle, 12 point shallow sockets from 5/16" to 7/8", 12 point deep sockets from 5/16" to 3/4", 12 point shallow sockets from 6 mm to 19 mm, 12 point deep sockets from 6 mm to 19 mm, hex head drivers from 1/8" to 3/8", Torx drivers form T10 to T55, spark plug sockets 5/8" and 13/16"
- #322041 Ratchet 3/8 Drive only
- #322043 Adapter 1/2 Female to 3/8 Male only



## Half Inch Joint Ratchet

#TA0175

- KS TOOLS
- 72 teeth
- Chrom-Vanadium
- Length: 430 mm



## Flex Handle, 3/4"

#TA0115

- KS TOOLS
- CHROMEplus
- 3/4"
- 1030 mm



## Drive Socket Set 1/2" (16 Pieces)

#322120

- Crown branded
- Lifetime warranty
- Includes:
  - Ratchet
  - Drive extension 5"
  - 12 point sockets from 7/16" to 1-1/4"



## Hand Sockets, Long

1" #844399-001  
1 1/4" #844399-002

STAHLWILLE



## Drive Socket Bit Kit \*

#832853

- KS TOOLS
- CHROMEplus
- Bit socket kit, 1/2"
- 32 pieces



## Hand Socket

#844398

- STAHLWILLE
- Hexagon socket, 3/4"
- Width across flats: 46 mm
- Length: 73 mm



## Socket Wrench Assortment 1/4"-1/2"

#TA0275

- Gedore Red
- 172 pcs.
- Spanner size: 4-32 mm
- Dimension: 450 x 350 x 85 mm
- Individual parts available on request



## Hex Socket IN 32

#TA0070

- GEDORE
- Hexagon socket, 3/4"
- Width across flats: 17 mm
- Length: 80 mm



**Bit Socket Kit, Ball Head, Long**

#TA0120-001

- KS TOOLS
- CHROMEplus
- Hexagon socket, 1/2"
- Ball head
- 6 pieces
- 5–12 mm, long



**1/2" Plug Nut, Ball Head, Long**

5 mm	#TA0120-001-05
6 mm	#TA0120-001-06
7 mm	#TA0120-001-07
8 mm	#TA0120-001-08
10 mm	#TA0120-001-10
12 mm	#TA0120-001-12

- KS TOOLS
- CHROMEplus
- Hexagon socket, long



**1/2" Setscrew Wrench Kit, Long**

#TA0120-003

- KS TOOLS
- CHROMEplus
- Hexagon socket, 1/2"
- 6 pieces
- 5–12 mm, long



**1/2" Plug Nut, Long**

5 mm	#TA0120-003-05
6 mm	#TA0120-003-06
7 mm	#TA0120-003-07
8 mm	#TA0120-003-08
10 mm	#TA0120-003-10
12 mm	#TA0120-003-12

- KS TOOLS
- CHROMEplus
- Hexagon socket



**1/2" Bit Socket Kit, Short**

#TA0120-002

- KS TOOLS
- CHROMEplus
- Hexagon socket, 1/2"
- 7 pieces
- 5–14 mm, short



**1/2" Plug Nut, Short**

5 mm	#TA0120-002-05
6 mm	#TA0120-002-06
7 mm	#TA0120-002-07
8 mm	#TA0120-002-08
10 mm	#TA0120-002-10
12 mm	#TA0120-002-12
14 mm	#TA0120-002-14

- KS TOOLS
- CHROMEplus
- Hexagon socket



**Socket Wrench 1/4" TS10-TS50**

#836689

1/4"



### Nut 30 mm for Mast 3/4"

#TA0071

- Finish: forged, burnished
- Suitable for avll common pneumatic and electric screwdrivers
- Length: 58 mm



### Long 24 mm Socket 1/2"

#TA0107

- Finish: forged, burnished
- Suitable for avll common pneumatic and electric screwdrivers
- Length: 78 mm



### Reducing Adapter 1/2" - 3/8"

#TA0209

- KS TOOLS
- 1/2" F - 3/8" M
- Square drive, 3/8"
- Weight: 50 g



### Adapter 3/4" to 1/2"

#TA0111

- Finish: forged, burnished
- Suitable for avll common pneumatic and electric screwdrivers
- Length: 58 mm



### Adapter 1/2" to 3/4"

#TA0112

- Finish: forged, burnished
- Suitable for avll common pneumatic and electric screwdrivers
- Length: 48 mm



### Bit Adapter for Ratchets 1/4"

#TA0226

Length: 30 mm



### Extension for Ratchets 1/2"

#TA0225

Length: 125 mm



### Extension 3/4"

#TA0106

- 250 mm
- Ball lock
- Finish: forged, burnished
- Suitable for all common pneumatic and electric screwdrivers

### Bit and Socket Wrench Kit

#TA0227-Set

- BOSCH
- 43 pieces
- Selected individual parts also available separately:
  - Bit 10 mm x 25 mm #TA0227-IN10
  - Bit 2 mm x 25 mm #TA0227-IN2
  - Bit 3 mm x 25 mm #TA0227-IN3
  - Bit 4 mm x 25 mm #TA0227-IN4
  - Bit 5 mm x 25 mm #TA0227-IN5
  - Bit 6 mm x 25 mm #TA0227-IN6
  - Bit 8 mm x 25 mm #TA0227-IN8
  - Bit PH1 x 25 mm #TA0227-PH1
  - Bit PH2 x 25 mm #TA0227-PH2
  - Bit PH3 x 25 mm #TA0227-PH3
  - Bit PZ1 x 25 mm #TA0227-PZ1
  - Bit PZ2 x 25 mm #TA0227-PZ2
  - Bit PZ3 x 25 mm #TA0227-PZ3
  - Bit S4.5 mm x 25 mm #TA0227-S4
  - Bit S5.5 mm x 25 mm #TA0227-S5
  - Bit S6.5 mm x 25 mm #TA0227-S6
  - Bit TX10 x 25 mm #TA0227-TX10
  - Bit TX20 x 25 mm #TA0227-TX20
  - Bit TX25 x 25 mm #TA0227-TX25
  - Bit TX27 x 25 mm #TA0227-TX27
  - Bit TX30 x 25 mm #TA0227-TX30
  - Bit TX40 x 25 mm #TA0227-TX40
  - Bit 2.5 mm x 25 mm #TA0227-IN2,5



### Bit Handle 1/4"



Bit Handle 1/4" #TA0227-002

- 265 mm length
- Magnetic
- 3 component handle

### Socket Wrench Assortment

#TA0228-Set

- Promat
- 5 pieces
- Switch: SW 6 x 60 mm/ SW 7 x 60 mm/ SW 8 x 60 mm/ SW 10 x 60 mm/ SW 13 x 60 mm
- With magnet
- In bag



### Socket Wrench Insert With Hexagonal Drive

6 x 60 mm	#TA0228-SW6
7 x 60 mm	#TA0228-SW7
8 x 60 mm	#TA0228-SW8
10 x 60 mm	#TA0228-SW10
13 x 60 mm	#TA0228-SW13

- Promat
- With magnet



### Slide Rail Socket Holders

#322225

Note: 90 day warranty




### Bit Kit for Torque Wrench

#850518

- Bit insert 1/4 inch length 25 mm
- Bit insert 1/4 inch SW 5.5 mm hexagon nut length 25 mm
- Bit insert hex head 2 length 25 mm
- Bit insert 4 mm slot length 25 mm


## Hand Tool | Torque Wrench



**Torque Spanner, 3/8"**

#322240


- Interchangeable head
- 150 lb pressure
- Note: Lifetime warranty (excludes calibration)



**Torque Spanner, 1/2" \***

#TA0095


- Würth
- 20–100 N m
- Accuracy:  $\pm 3\%$  to the set value according
- With calibration certificate



**Torque Spanner**

1/4"	5–25 N m	#832891 *
1/2"	60–300 N m	#832854 *


- Promat
- Push-through



**Torque Wrench Kit**

#850517

- Wera torque wrench
- Torque range: 0.1–1.2 N m
- Length: 155 mm
- Inkl. part number #850518




**Torque Spanner, 3/4"**

#835529

- Würth
- 300–1000 N m
- Accuracy:  $\pm 3\%$  to the set value according to DIN EN ISO 6789:2003
- With calibration certificate


## Hand Tool | Files



**Set of Files \***

#832871


- Promat
- Length: 200 mm
- Cut 2
- 2K-Ergo
- Content:
  - Flat
  - Half-round
  - Round
  - Triangular
  - Rasp semicircular



**Key File Kit \***

#832868

- Promat
- Length: 100 mm
- Cut 2
- Beech
- Content
  - Flat
  - Flat-tipped
  - Round
  - Square
  - Triangular
  - Semicircular



**Thread File**

For metric thread	#832869 *
For inch thread (G-BSW)	#832870 *

- Promat
- For reworking and cleaning of external and internal threads
- Length: 230 mm



### Pipe Tongs \*

#832860

Promat, Length: 560 mm, clamping width: 0-70 mm, span width: 5 cm (2"), jaw position: 90°, chrome-vanadium-steel, drop-forged, blue lacquered, polished, locknut lock, pliers mouth inductively hardened



### Swaging Tool

#107416

Crimping stop ferrule on wire rope, used on Turret and SP 3400 height sensors



### Hand Swage

#090526

Properly crimp compression fittings when repairing or replacing cable, usage: SP Steering cable, pallet clamp cable and TS, TSP hose take-up cable, crimps both shielded and unshielded AIRCRAFT control cable, one piece tool, manufacturer's instructions included



### Chain Pipe Wrench 120000 \*

#832895

GEDORE, 17-114 mm, blue, stove enamelled, chrome vanadium special steel, for pipes: 9.53-101.6 mm, or heavy duty accessible places, drop-forged, fully hardened and tempered, additional toothing flame-hardened



### Plier Kit \*

#TA0128-001

KNIPEX, 3 pieces in plastic deep-drawn part, Content: combination pliers, stork beak pliers, side cutter



### Water Pipe Wrench \*

#TA0128-002

KNIPEX, DIN ISO 8976, length: 300 mm, clamping width: 60 mm, with plastic coating, head: polished, tube Ø: 70 mm, setting positions: 30



### Needle Nose Pliers \*

#TA0128-003

KNIPEX, length: 200 mm, chrome-plated, 40° angled, 2-component cover, with cutting edge, vanadium electric steel, torsionally tolerant, elastic precision tips, serrated gripping surfaces, oil-hardened, Ø medium-hard/hard wire: max. 3.2/2.2 mm



### Pliers Set (4 Pieces)

#322140

- Crown branded
- Lifetime warranty
- Includes: needle nose pliers, gripping pliers, side cutter, arc joint pliers



### Cable Stripper \*

#832863

KNIPEX, length: 160 mm, polished, 2-component sleeves with opening spring, copper/aluminium cable Ø: max. 5 mm (wire cross-section 10 mm²), 7 AWG



### Side Cutter

#TA0236

- KNIPEX DIN ISO 9654
- Length 125 mm
- For finest cutting max. Ø 1.6mm
- Soft wire, polished
- 2-component
- Sleeves with opening spring



### Cable Shears VDE

#TA0238

- Cutting Cu and Al cables, solid and stranded
- Hardened cutting edges with precision grinding
- Not suitable for steel wire and hard drawn copper conductors
- With pre-cut and post-cut (1st and 2nd cutting edge) cables up to Ø 20 mm can also be cut



### Locking Pliers, 150 mm

#322118

- Crown branded
- Lifetime warranty
- Total length: 150 mm



### Locking Pliers, 180 mm \*

#322119

- Promat
- Total length: 180 mm
- Span: max. 35 mm



### Spanner Wrench

#104836

For removal, installation and adjustment of Pallet Truck lift cylinder, used on PW, PE, PC and PR



### Plier Inner Locking Ring

#TA0161

Promat, for holes Ø: 40–100 mm, for inner rings, bent at right angles, chrome vanadium steel, conical base, oil-hardened and tempered, standard: DIN 5256 D



### Plier Outer Locking Ring

#TA0160

Promat, for shafts Ø: 40–100 mm, for outer rings, straight, chrome vanadium steel, especially stable tips and good rings held in place by conical base, oil-hardened and tempered



### Lock Ring Pliers J 4

#TA0196

KNIPEX, for bores D. 85–140 mm, straight tips, length: 320 mm



### Lock Ring Pliers A 01

#TA0195

KNIPEX, for shafts D. 3–10 mm, 90 degrees, angled, polished, length: 125 mm



### Plier Set For Locking Ring \*

#TA0159

Promat, 8 pieces, 10–60 mm, delivery in high-quality roller bag, can be laced



### Screwdriver Kit \*

#832876

- WERA
- 7 pieces
- Laser tip
- VDE slot/PH with voltage tester
- Multi-component booklet with size guide system

### Screwdriver, Cross Slot

PH 1 × 80 mm #832876-001-01  
PH 2 × 100 mm #832876-001-02

- WERA
- 162i PH VDE cross slot
- 2-component handle
- Laser tip



0.4 × 2.5 × 80 mm #832876-001-03  
0.6 × 3.5 × 100 mm #832876-001-04  
0.8 × 4.0 × 100 mm #832876-001-05  
1.0 × 5.5 × 125 mm #832876-001-06

- WERA
- 160i 3K VDE slot
- 2-component handle
- Laser tip

### Voltage Auditor

#832876-002



- WERA
- 247 VDE 150–250 V, single-pole
- Length: 142 mm
- Cutting width: 3 mm
- Cutting edge thickness: 0.5 mm
- Transparent handle
- Insulated blade
- With Kraftform handle
- With metal clip

### Screwdriver Set 932/6

#TA0131



- WERA
- 6 pieces
- Continuous blade 6 KT neck
- Striking cap
- Slot/PH
- With wall bracket

### Screwdriver

#TA0131-001



WERA, 932A, 1.6 × 9 × 150 mm, slot, 9 × 150 mm, overall length: 262 mm, multi-component handle, hexagonal roll-off protection, impact cap/continuous blade, percussion cap/continuous blade, nicromatt with BlackPoint tip

### Phillips Head Screwdriver

PH 1 × 80 mm #TA0131-001-01  
PH 2 × 100 mm #TA0131-001-02



WERA, 917 SPH, 2-component handle, 6-edged blade/neck, striking cap, BlackPoint tip, chrome vanadium steel

### Screwdriver

0.6 × 3.5 × 80 mm #TA0131-001-03  
0.8 × 4.5 × 90 mm #TA0131-001-04  
1.0 × 5.5 × 100 mm #TA0131-001-05  
1.2 × 7.0 × 125 mm #TA0131-001-06



With striking cap and continuous hexagonal blade, 2-component handle, nicromatt with BlackPoint tip

### Screwdriver

#832849



WERA, 2.5 × 14 × 250 mm, hexagonal roll-off protection impact cap/continuous blade, 2-component handle, nicromatt with BlackPoint tip

### Screwdriver Set (11 pieces) \*

#322150

Includes:

- Flat Head
  - 0.018" × 3"
  - 3/16" × 3"
  - 1/4" × 4"
  - 5/16" × 6"
  - 1/8" × 6"
- Phillips
  - #0 × 3"
  - #0 × 6"
  - #1 × 3"
  - #2 × 4"
  - #3 × 6"
- Gasket
- Scraper 5"



Note: Lifetime warranty

### Cranked Wrench Key PH2 + PH3

#832897



### Cranked Wrench Key 1.0 × 5.5 mm

#832898



### Screwdriver Short \*

#TA0109



- PH1
- Complete length 87 mm

### Screwdriver Short \*

#TA0110



- 1.0 × 5.5
- Complete length 87 mm

### Screwstarter, Phillips Head

#322219



- Crown branded
- 90 day warranty


### Screwstarter, Flathead

#322221



- Crown branded
- 90 day warranty






**Flat Scraper**

#832861

- RENNSTEIG
- Blade length: 150 mm
- Blade width: 24 mm
- Wooden handle
- Made of 8-sided chrome vanadium steel



**Cable Stripper Knife \***

#832862


- Promat
- Total length: 170 mm
- Work range: 8-25 mm<sup>2</sup>
- With hook blade



**Putty Knife, Plastic \***

40 mm	#TA0171-40
80 mm	#TA0171-80

- Plastic
- Flat oval
- Stainless steel, high-gloss polished



**Putty Knife \***

#832880


- Width: 30 mm
- Polished
- Wood, flat oval



**Wire Brush, 265 mm**

#TA0172-265


- Promat
- Steel wire 0.3 mm, 1-row
- Crimped wire



**Wire Brush, Brass \***

#832881

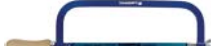
- Promat
- Length: 295 mm
- Brass wire, 0.3 mm, 3-row



**Wire Brush, 295 mm \***

#TA0172-295


- Promat
- Cast steel wire, 0.35 mm, 5-row
- Smooth wire



**Hacksaw \***

#832878


- Promat
- Wooden handle, undiluted
- Pins with HSS-Bi-M.Saw blade, 300 mm



**Pin Holder \***

#TA0217


- Protects hands when embossing
- With loop
- For square, rectangular and round stamps



**Hammer Ball Peen**

#322139


- Crown branded
- Lifetime warranty



**Hammer Simplex, Soft Head \***

#832901


- HALDER
- Length: 350 mm
- Head Ø: 50 mm
- Medium hard/hard
- Wood, rubber black/plastic red



**Hammer \***

500 g	320 mm	#832836
1500 g	380 mm	#832902
5000 g	810 mm	#832902-001


Promat



**Safety Universal Cutter Knife**

Cutter Knife	#TA0270 *
Spare Blades (10 pcs.)	#TA0270-010


- Blades can be changed without tools
- No annoying falling out of the blade when changing, because it is held by a magnet.
- Total length: 165 mm
- Number of blades: 3



**Safety Cutter Knife Puller**

#TA0271

- 10 pcs.
- Disposable safety knife with concealed blade and 3-in-1 blade head for cutting, scraping and scoring



**Safety Cutter Knife**

Safety Cutter Knife	#TA0272
Spare Blades ceramic (2 pcs.)	#TA0272-0C2

(only for #TA0272)

- Safety blade with 18 mm cutting depth and automatic blade retraction.
- Ergonomic Aluminum handle incl. large soft grip on the slider.
- Safe and easy blade change.



### Pry Bar Set (150 mm and 450 mm)

#322115

- Crown branded
- Lifetime warranty
- Includes: 6" and 18"
- Heat treated alloy steel
- Bi-mold rubberized comfort grip



### Tire Iron \*

#832877

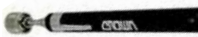
- GEDORE
- Length: 500 mm
- Chrome vanadium steel



### Pick Up Tool, Magnetic \*

#832899

- Promat
- Total length: 440 mm
- Magnetic head: D. 6 mm
- Load: 0.5 kg



### Pick-Up Tool, Magnetic

#322223

- Stainless steel shaft pick up tool
- Shaft telescopes from 165 mm to 838 mm
- 2.25 kg
- Magnetic power for easy picking of heavy parts
- Note: 90 day warranty



### Inspection Mirror (Telescope) \*

#322222

- Crown branded
- 90 day warranty
- Stainless steel shaft pick up tool
- Shaft telescopes from 165–800 mm



### Pick Set (4 Pieces) \*

#322245

- Crown branded
- Lifetime warranty
- Includes: 45°, straight, 90°, awl



### Punch and Chisel Set (8 Pieces) \*

#322220

- Crown branded
- Lifetime warranty
- Includes:
  - 1/8" pin punch
  - 3/16" pin punch
  - 1/4" pin punch
  - 1/4" taper punch
  - 3/8" centre punch
  - 5/16" cold chisel
  - 1/2" cold chisel
  - 3/4" cold chisel



### Slot/Flat Chisel \*

#832872

- Promat
- Length: 240 mm
- Cutting edge width: 26 mm
- Shaft-Q.: 26 mm x 7 mm
- With hand protection
- Chrome vanadium



### Roll Pin Punch Kit 1.5–8 mm (8 Pieces)

Roll Pin Punch	3.175 mm	#322203
Roll Pin Punch	4 mm	#322204
Roll Pin Punch	4.7 mm	#322205
Roll Pin Punch	5.5 mm	#322206
Set		#322210 *

- Crown branded
- Lifetime warranty
- Includes: 1.5–8 mm
- 8 pieces



### Pin Punch Set

#832873

- Promat
- 6 pieces (3/4/5/6/8/10 mm)
- Plastic holder, DIN 6450
- Chrome vanadium air hardened steel
- Impact head tempered
- Length: 150 mm



### PIN Puncle

#TA0216

- KS TOOLS
- 5 pieces
- With hand protection handle
- 3, 4, 5, 6 and 8 mm



### C-Spanner \*

35–60 mm	#TA0173
60–90 mm	#TA0174

AMF



### Handle and Gate Spanner Tool

#104712


- For installation and removal of torsion springs on control handles and platform gates
- Used on pallet trucks, heavy duty walkies, stock pickers and tow tractors



### Metal Scriber, 235 mm \*

#832875


- Promat
- Burnished/galvanized
- Length: 250 mm



**Flat Gripping Magnet**

#844315


- With threaded bush
- Ø: 63 mm
- M8



**String for Mason**

#844301


- OVERMANN
- Length: 50 m
- Ø: 1.0 mm
- 15 kg
- Polyethylene
- Green



**Plump Bob**

#844302


- 300 g
- Cylindrical shape
- Steel, screw-on brass knob
- Cordless



**Commutator Dressing Stones**

#114888


- Removes film and dirt buildup on motor commutator
- Used on motors with limited room in endhead at commutator
- 6 pieces in box



**Shield/Screen Installation Tool, Tapered Tip**

#340020-001

Used to install shields on RR/RD 5000 series, Stockpicker and Turret trucks



**Shield/Screen Installation Tool Complete Kit**

#340020-002

Used to install shields on RR/RD 5000 Series, stock picker and turret lift trucks



**Mast Roller Tool, Fixed Mast**

#810705


- Crown
- Contains one tool and two rollers
- Needed to determine the correct mast roller size



**Mast Roller Tool, Tilt Mast**

#835996


- Crown
- Contains one tool and three rollers
- Needed to determine the correct mast roller size



**Molding Insertion Tool**

#103792

- To ease installation of the two piece safety glass rubber molding
- Used on stock pickers after 10/86 and turrets TSB 227



**Mini Multi Tool**

#MA0187

- Optimum grip during work
- The Safety-Lock interlocking of the individual functional parts ensures maximum work safety
- With powerful, cast pliers, the sharp all-purpose blade and the many other functions



### Abductor Accessory Universal \*

#832867

- KUKKO
- 20-10-SP
- Clamping depth: 100/200 and 250 mm
- Clamping width: 120 mm
- Tractive force: 2.5 t



### Axle Remover

#090705

- For single or dual load wheel axle removal on PE, PC, PR, PW lift trucks, one piece tool
- Replacement rods/set of 2 – Part-No. #320066



### Roll Pin Insertion and Extraction Tool

#110567

- Removal and installation of load wheel axle roll pin
- Used on stock pickers and RR/RD 3000 and 5000 Series



### Quick Change Load Wheel Installation Tool

For 2.88" Load Wheel #150192  
For 4.12" Load Wheel #150193

Used to install quick change load wheels on reach trucks



### Seal and Piston Tool Kit

#127576

- Used on series SC 4000 and SC 5000 steer cylinders
- See maintenance section, M6.0
- Kit instructions PF16486
- Individual items:
  - Seal loading tool (Part.-No. #127521)
  - Piston loading tool (Part.-No. #127522)



### Ball Joint Separator

#122532

- Used to separate steering ball joint connections
- Used on FC/FP and FC 4000



### Internal Puller Device

#TA0253

- KUKKO
- Model: 21-4 for holes D. 20-30 mm



### Tool Assembly

#132501

- Used for installation of load wheels on stock pickers, WR and reach trucks with an axle diameter of 1.375
- This tool aligns the shims and wheels to make it easier to get the axles in



### Tool Assembly

#132502

- Used for installation of load wheels on stock pickers, WR and reach trucks with an axle diameter of 0.975
- This tool aligns the shims and wheels to make it easier to get the axles in



### Timkin Socket Tools

Fits locknut #060043-004	#100253-001
Fits locknut #060043-002	#100253-002
Fits locknut #060043-003	#100253-003
Fits locknut #060043-001	#100253-004
Fits locknut #060043-005	#100253-005
Fits locknut #060043-006	#100253-006
Fits locknut #060043-010	#100253-007
Fits locknut #135496	#100253-009

- For removal, installation and torquing of locknuts
- Adapts to 1/2" drive socket



### Mounting Support Load Wheel \*

#825455

Used on the ESR series



### Steer Bearing Cup Removal Kit

#133884

- Used to push cup-holder off of undercarriage dowel pins after bolt removal.
- Used on all RR5, RM6, RM1, and SP4 models



### Tire Adapter

#134169

- Used to press drive tire on RR/RD 5000 Series trucks.
- See PIB 05-08-02s



**Measuring Tape, 3 m, Metric**

#832874

- Promat
- Length: 3 m
- Width: 16 mm
- Units: mm/cm
- EG II ABS



**Measuring Tape, 5 m, Metric \***

#MA0176

- Length: 5 m
- Width: 19 mm
- Units: mm/cm
- EG II, 2K
- Automatic



**Tape Measure**

#322369

- 8 m/26' tape measure
- SAE and metric markings
- Automatic blade lock for easy use
- Magnetic hook
- Push button retrieval
- Quick, one finger operation
- 1-year warranty



**Feeler Gauge \***

#832890

- Promat
- Steel
- Blade thickness: 0.05–1.0 mm
- Length: 100 mm
- 20 sheets



**Chain Wear Gauge \***

#306440

- Measures chain from 3/8" up to 3" pitch chain
- Measures wear in % increments
- Allows user to track wear at each inspection
- Limits visual errors
- Easy to follow instructions included



**Gage Shimming**

#125535

- Gage used to shim Wave masts
- Used with Part No. #125535 and #133403
- See maintenance section for where used



**Gage Shim Assembly**

#125539

- Gage used to shim Wave masts
- Used with Part No. #125535 and #133403
- See maintenance section for where used



**Gage Shimming**

#133403

- Gage used to shim Wave masts
- Used with Part No. #125535 and #125539
- See maintenance section for where used



**Water Level, 80 cm \***

#TA0165

- BMI
- Aluminium, Silver
- ±0.5 mm/m



**Caliper \***

#832903

- Promat
- DIN 862
- 150 mm
- With torque detection
- Angular
- For indoor, outside and depth measurement



**Digital Calipers**

#320040-001

- Capacity: 0–6" (0–15 cm)
- Rugged stainless steel body and jaws
- 4-way measurement: inside, outside, depth and step
- LCD screen
- Powered by one silver oxide battery 1.55 V, type SR44
- Suitable for machinists and toolmakers



**Fork Wear Calipers \***

#107330

Used to gauge minimum fork thickness and maximum bore size



**Chain Wear Scale**

#106440

Used to check leaf and roller chain wear used for lift and steering functions



**Chain Wear Gauge DE \***

#818041

Gauge for checking the elongation of chains due to wear



**Folding Ruler, 2 m \***

#MA0023

- Crown branded
- 2 m



**Folding Ruler, 3 m**

#MA0193

- Crown branded
- 3 m



**Laser GLM 40**

#845582-003

- BOSCH
- Laser diode: 635 N m, < 1 mW
- Measuring range: 0.15–30.00
- Laser class
- Measuring accuracy, typ.: ±2 mm
- Measuring time, typ.: < 0.5 s/max. 4 s
- Power supply: 2x 1.5-V-LR03 (AAA)
- Automatic switch-off: 5 min
- Weight: approx. 0.09 kg
- Units of measurement: m/cm
- Dust and splash water protection IP 54

## Hand Tool | Solder



### Soldering Iron Gas

#TA0184

- KS TOOLS
- Gas operated up to 1300 °C
- With piezo ignition
- Mains-independent soldering



### Soldering Iron Gas \*

#TA0164

- Ersa
- 15–75 W
- Gas operated up to 580 °C
- With piezo ignition
- Mains-independent soldering



### Gas Cartridge \*

#TA0164-001

- Ersa
- 100 ml



### Soldering Wire \*

#832907

- FIELDS, ISO-Core® Kolo, 1 mm, 250 g
- S-Sn60Pb40, metal: DIN EN 29453; flux: DIN EN 29454, flux filled
- For the radio and television industry, electronics and electrical appliance construction and soldering in telecommunication construction
- Melting range: 183–190 °C
- Only for commercial users



### Soldering Lamp \*

#TA0162

- CAMPINGGAZ
- Without screw cartridge
- 120 g/h
- 1.65 kW
- With piezo ignition



### Gas Cartridge C206 \*

#TA0162-001

- CAMPINGGAZ
- 190 g
- 314 ml
- 1800 °C
- With Gas-Lock-System (GLS)
- Butane/propane mixture in the ratio 80/20
- Standard EN417:2012



### Soldering Iron, 230 V

#TA0057

- Ersa, 30 S
- 380 °C
- Power: 30 W

## Hand Tool | Cartridge Press



### Grease Gun, 400 ml \*

#TA0046

- Promat
- For 400 g cartridges/loose grease



### 2K Dosing Applicator

#TA0153

- MARSTON
- Suitable for 50 g double cartridges
- Plastic



### Grease Gun, 500 ml

#TA0046-005

- Weight only 950 g
- Maximum achievable pressure: 400 bar
- Residual emptying due to special piston shape of the SR cartridge
- Delivery rate approx. 1.5 g/stroke



### Mixing Nozzle

#TA0153-001

- MARSTON
- Suitable for all double syringes 25 g and double cartridges 50 g
- Plastic



### Grease Gun, 600 ml

#TA0046-006

- Promat
- For 310 ml cartridges bags up to 600 ml



### Manual Cartridge Gun Standard

#838577

- Manual cartridge gun, standard
- For applications with 310-ml cartridges



### Brake Bleeding System \*

#TA0166

- KS TOOLS
- 1000 ml
- With collecting bottle



### Vacuum Suction Pump

#TA0221

- KS TOOLS
- 9.5 l
- Including 4 probes



### Oil Pump Kit \*

#TA0039

- Manual, 5 l
- Includes:
  - Plastic canister (#TA0039-001)
  - Oil pump manual (#TA0039-002)
  - Cap for oil container (#TA0039-003)
  - Reduction nozzle (#TA0039-004)



### Acid Test Densimeter, Glass \*

#TA0091

Length: approx. 56 cm



### Acid Test Densimeter, Glass small

#300406

- Professional quality for highest accuracy
- Precision graduated specific gravity float
- Overall length 35 cm, glass barrel 20 cm long



### Oil Pump Hydraulic \*

#TA0037

- Content: 19 l
- Height: 65 cm
- Heat-resistant
- Incl. 3x probe (5.8/6.7/9.8 mm)



### Accessories for Oil Pump \*

#TA0037-001

- Connection: Quick coupling
- Probes: Ø: 4/5.8/6.7/9.8 mm
- Probe length: 1000 mm
- Hose length: 1700 mm



### Probe for Oil Pump

#TA0037-002

- Probe, 9.8 mm
- 1000 mm
- PVC



### Oil Pump Manual 6.5 l

#TA0059

- Content: 6.5 l
- Height: 650 mm
- Heat resistant
- Inkl. 3x probe (5.8/6.7/9.8 mm)



### Acid Pump

#TA0268

- Content: 6 l
- Dimension: 30 x 30 cm disassembled (without pump)
- Probe length 2 m



### Coolant/Battery Acid Refractometer

#390221

- Portable Coolant Refractometer, Coolant/Battery Acid 1.15 to 1.30
- Specific Gravity of Battery Acid
- Measures the freezing point of coolants and the charge condition of batteries

## CURTIS Calibrator Handset

#154158



- Used to input calibration settings, monitor inputs and outputs, diagnostic and troubleshooting aid
- Used on GPW, Wave, PE 4000, WE/WS 2000/2300, WP 3015, WP 3020, TR 3600, PC 3600 and GPC 2000, GPW series
- See maintenance manual (M4.2) for instructions
- Includes two cords: 154199/type MOLEX and 154200/type phone (RJ11)
- CURTIS handset cords for prior Model 1311 handset:
  - #130480 – Type MOLEX
  - #130481 – Type phone (RJ11)

## Field Strength Meter

#112953



- To check field strength of guide wire
- Label on meter with instructions
- See TSB 317

## Handset Kit Zapi \*

#843321



- Used on:
- WP series: WP 3010; WP 3015; WP 3020; WP 3080; WP 3210; WP 3215; WP 3220; WP 3280
  - DS series: DS 3000; DS 3200
  - ST SX M series: ST 3200; SX 3200; M 3200
  - WF series: WF 3200

Kit includes:	
Handset	#837125-003
Connector cable	#838794
Adapter cable	#840946

## GE Handset

#112209



- Dial in calibration settings
- Retrieve service code numbers
- Used on FC/FP, FC 4000, RR/RD/RS, RR/RD/RS 3000, SP 3000, SP 3200, RC 3000, SC 4000, ESR 4500, EV100LX and GE SX
- Includes: Soft side carrying case, interconnecting cord, handset and manufacturer's instructions

## Accessory Items

#113972	Replacement Cord
#127085	Replacement Cord for SC 4000
#127458	Handset and Both cords

## Safety Tester

#TA0135-003



- Benning ST 725
- Storage locations for 999 test samples
- 3 hot keys for storing, calling and printing the measured values

## Adapter Cable

#TA0135-003-001



- Benning MA 1-32 Measuring adapter 32 A CEE 5-pole active
- Active, with mains voltage-dependent switching devices
- For measuring  $R_{PE}$  and  $I_{PE}$  under functional condition

## Printer

#TA0135-003-002



- Benning PT2 mobile label and log printer
- High printing speed due to direct thermal process
- Data transmission via Bluetooth® or RS 232 interface
- Power supply via rechargeable NiMH battery pack



## Service Terminal Kit

#118207



- Enables monitoring service condition (malfunction) history
- Allows performing calibration procedures without opening electronic boxes
- TS, TSP, SP 3000, SP 3200, SP 3400 (not SP 3500)
- Includes:
  - Terminal keyboard with two line liquid crystal displays
  - Detachable cables and connectors
  - Foam filled shock resistance carrying case with instruction and operating guide, "How to Use Your Crown Service Terminal" Kit instructions: PF6703
  - Service Terminal #101528-001
- SP 3000 Series Cable Assembly
- Cable for Service Terminal #118845-00S
- Case #118954

## Sevcon Calibrator

#111930-00S



- Dial-in calibration settings, check and monitor inputs from switches and accelerator potentiometer, read battery voltage, motor voltage, motor current and temperature of controller Mosfet
- Used on PE, PC, PR, PE/PC/PR 3000, TWR, TR, TWR/TR 3000, W, W, WB, WR
- Includes interconnecting cord and calibrator

### Accessory Items

- #803450-018 White Connector
- #803450-019 Terminal

## Handset REPL. 794596

#828000



- Used on:
- WP series: WP 2000; WP 2300 (S); WP 2335 (S)
  - ST SX M series: ST 3000; SX 3000; M 3000
  - WF series: WF 3000

## Wave 50 Repair Kit (with Handset)

#127674-002



## V-Force Battery Monitoring Identification Device

#396525-BTM



BMID compatible only with Crown V-Force HFM charger

## WAVE Repair Kit w/o Handset

#127674-001

Kit includes:

Description	Quantity	
Potentiometer	1	#120195
Key Switch w/keys	1	#146286
Keys	1	#107151-001
Raise Switch	1	#120200-001
Lower Switch	1	#120200-002
Presence Switch	1	#128364-001
High Speed Switch	1	#128364-002
Top Shim .015	4	#120283-001
Top Shim .025	4	#120283-002
Top Shim .035	4	#120283-003
Bottom Shim .015	4	#120284-001
Bottom Shim .025	4	#120284-002
Bottom Shim .035	4	#120284-003
ED Switch	2	#120198-001
Switch	4	#062692
Display	1	#142809
ED Contact Kit	1	#123928
15 Amp Fuse	2	#094362-002
40 Amp Fuse	2	#076924-011
Lift Solenoid	2	#084343
Fuse Holder	2	#113772
Raise/Lower Switch	1	#062595-003
Drive/Tow Switch	1	#062595-005
AC Inlet	1	#120127
Pin Link	2	#125253
Link	4	#125254
Retaining Ring	8	#060009-092
Retaining Ring	4	#060009-003
Terminal	24	#062536-001
Terminal	24	#062536-002
Connector Red	2	#062594-002
Connector Black	2	#062594-003
Connector	2	#062535-005
Decal	1	#069188
Extraction Tool	1	#118993
Extraction Tool	1	#117615
Terminal	12	#116858
Carry Case	1	#127671
Handset (only in Kit #127674-002)	1	#154158



### Measuring Spikes

#TA0208

- BENNING
- 8 pieces
- Measuring tips Ø: 4 mm
- Length: 1000 mm
- Cat. III 1000 V
- Content: test leads, test prods, crocodile clips, claw gripper



### Test Lead Kit

#TA0229-Set

- Cat III and Cat IV
- Black/red
- Type EU-200



### Safety Measuring Cable Kit

#TA0229-001 \*

- VOLTcraft MS-2
- Cat. III 1000 V
- Black/red
- 1.2 m
- Ideal for multimeters
- Complies with EN61010-031:2008

### Safety Probe Kit

#TA0229-002

- VOLTcraft MSS-102
- Cat. II 300 V
- Black/red
- 2 pieces set
- Rated current 10 A
- Bushes Ø: 4 mm
- For plugging onto 4 mm measuring leads
- Measuring tip Ø: 1 mm

### Safety Alligator Clip Plug Connection

Black: #TA0229-003-01  
Red: #TA0229-003-02

- STÄUBLI XKK-1001
- Cat. II 1000 V
- 4 mm
- Red



### Backprobe Pin Set

#320067

Slides onto test lead, narrowing the point of contact for the test lead to be used in narrow situations or hard to reach areas



### Electric Tips Needle (Black/Red) \*

Black #TA0065-001  
Red #TA0065-002

- Projection 140 mm
- With particularly thin and flexible tip made of 1.0 mm thick insulated steel wire and socket for 4.0 mm plug
- Weight: 9.0 g



### Lead Kit (Clip-on)

#101490

For use with digital (VOM) multimeter on printed circuit boards and close areas where standard tips may short out components, required on wire guidance P.C. boards such as sensor amplifier boards, includes: 2 leads with jacks and spring loaded probes (1) red and (1) black

### Meter Kit Fluke 179

#100696



- Includes:
  - Fluke meter
  - Carrying case
  - Test leads
  - Thermocouple probe

### Test Lead Assembly

#321359



### Shrouded Test Kit

#121421

- For use with multimeters that accept shrouded standard diameter: 0.16" (4 mm) banana plugs
- Manufacturer instructions included
- Includes:
  - 2 - #18 AWG (0.75 mm<sup>2</sup>), test leads 48" (1.2 m) long, one red, one black
  - Two insulated alligator clips with banana jacks, 5/16" (7.9 mm) jaw opening
  - Two spade lugs
  - One safety-grip spring loaded hook style test clip
  - One test lead pouch

### Hand Multimeter Digital VOLTcraft 450E \*

#TA0135-001



- VC-450 E
- Standard measurement functions: V-AC/DC, LoZ V/AC, A-AC/DC, resistance, diode test, capacitance, frequency, temperature
- Acoustic continuity test
- Data hold
- Relative measuring function
- Max./min. memory
- Auto range/manual range
- Automatic power-off (can be disabled)
- Battery condition indicator
- Automatic backlight (can be disabled)
- Integrated LED lamp
- 3-phase rotation test with 2 leads
- Measuring range V/DC: 0.1 mV - 1000 V
- Measuring range V/AC: 0.1 mV - 750 V
- Basic accuracy: ±0.7%
- Frequency range: 40 Hz - 400 Hz
- Weight: approx. 473 g

### Clamp on Ammeter VOLTcraft VC 521 \*

#TA0135-002



- VOLTcraft
- VC-521 E
- Max. 600 V, EN 61010-1
- Max. 10 kHz, max. 40 mOhm

### Current Clamp

#109039



- For accurate measurement of AC or DC up to 1000 A current draw on battery without inline shunt connection
- Includes instructions



### PC Download Cable

#126456

- Serial cable for software download on RR 5000 Series trucks & SP 3400/3500
- See kit instructions PF16547



### USB to Serial RS232 Adapter Cable

#320058

Used for software downloading on RR 5000, RR 5200 and SP 3400 traction modules



### Adapter Cable PEAK USB CAN \*

#828123

- Converter USB-CAN
- Used with six pins can interface connections to upload software to lift truck
- See kit instructions PF16877
- Used for MSDT
- Is needed for InfoLink Firmware download
- In addition PEAK CAN #062888
- Needed for V Force Lithium Ion Batteries



### Adapter Cable PEAK CAN \*

#062888

- Needed for MSDT
- Needed for InfoLink firmware download



### Cable ASM

#102226

- Used for terminal #118207 on page 113
- TS/TSP



### Extension Cable RS-232

#823405



### Adapter Cable

#809250-001

Used on LP 3500 (plug)



### Adapter Cable

#809250-002

Used on LP 3500 (cable)



### Cable for Service Terminal

#118845-00S

Used on SP 3500



### Charger Cable

#127490

Used on Wave/WP 3000



### Static Field Service Kit

#101491

- Used to prevent damage to static sensitive components while handling or working with them
- Includes: work mat, 4.5 m ground cord, adjustable wrist strap, coiled ground cord and manufacturer's instructions



### Adapter Cable DEUTSCH MDI

#818624

Used on GPC 3000



### Adapter Cable

#791652-001

- EV T6 cable
- Used on truck ESR 4500



### Adapter Cable MOLEX

#130480

- Used on Handset #154158 on page 112
- Used on GPC 2000



### Adapter Cable RJ11

#130481

- Used on Handset #154158 on page 112
- Used on GPC 2000



### Adapter Cable USB to RS-232

#834874

- USB-Adapter
- Used on TSP 7000



### Adapter Cable for Handset

#838794

- Used on Handset Zapi #843321 on page 112
- Used on WP 3000



### Adapter Cable RJ11

#812880

Used on GPC 2000



### Adapter Cable RS-232

#RS-Docking-02

- Adapter Cable RS-232-CD3-022012
- Used on ESR 5000(S)



### Adapter Cable Software Download

#151567

Wave

## Adapter Cable



### Adapter Cable USB QPR Laser

#834998

Used on GPC 3000



### Adapter Cable Zapi

#840946

- For Handset Zapi #843321 on page 112
- Used on trucks WP 3010, WP 3080 and DS3040



### Adapter Cable

#127085

Adapter for handset #112209 on page 112



### Adapter Cable RJ11 for CURTIS

#836677

RJ11 - CURTIS



### Cable Adapter for CURTIS

#125736

Handset cord for CURTIS #154158 on page 112



### Adapter PC to SICK S3000

#834875

Used on TSP 7000



### ESR 1000 Download Cable

#066306-001

- Update/download
- Trucksoftware
- Used for ESR 1000 Series



### USB Adapter Cable Branch Tab

#TA0118

- USB cable with one type A (female) and one micro B (male) connector
- Length: 150 mm



### Isolator Connector

#062785-001

Used on RR 5000 Series when downloading software



### Commutator Brush Stone Set

#101582

- For dressing commutators.
- Used on all Crown brush style motors, lift, steer and accessory.
- Includes: holder with 2 stones
- Individual Items: Green Finish Stones/qty. 6 (#101581: 1" x 3/4" x 5/16")



### Trimpot Adjustable Tool

#107369

- Use to adjust trimpots. (variable resistors)
- Use on traction and pump controls with trimpot tune-up adjustments



### USB Cables

#300118

- USB A to MINI-B 2.0 cable used to program V-HFM Series High Frequency Chargers
- Length 180 cm

#300118-001

- USB A to Micro-B 2.0 cable used to program V-HFM<sup>3</sup> Series High Frequency Chargers
- Length 180 cm



### Adapter Cacale Molex

#804695



### USB 3.1 Type C/A Adapter

#TA0154

USB C Male/USB A Female



### USB Stick 16 GB

#TA0241

- Transfer rate up to 80 MB/s with USB 3.0
- Only 8 grams light
- Compact dimensions: 22 x 56 x 10 mm



### RC Brake Special Nut

#114050

For assembly and disassembly of brake actuation spring, use on RC with disc brakes



### RC Brake Adjustment Threaded Tube

#114051

For assembly and disassembly of brake actuation spring, use on RC with disc brakes



### Riveter Press

#114518

- Used to replace brake pads on SP 3000 Series and SC and SC 4000 trucks
- Used with brake pad rivet tool #112397



### Brake Pad Rivet Tool

#112397

- Used to replace brake pads on SP 3000 Series and SC & SC 4000 trucks.
- Used with Riveter Press #114518



### Telescoping Gauge

#300089

Used to check power brake wear on RST-50 and C-5 models with power brake option



### Brake Release Tool

#127373

- Release drive brake
- Use on RR 5000 Series trucks, RM/RMD 6000/S, see TSB 412
- Use with Harness Adapter (Part-No. #129694)



### Brake Adapter Harness

#129694

- Use with Brake Release Tool (Part-No. #127373) on RR 5000 Series trucks
- See TSB 412



### Brake Release Tool

24 Volt  
36/48 Volt

#139956-001  
#139956-002

- Release drive brake
- Use on SC 4500 and RC 5500 Series trucks
- See kit instructions PF16819



### Piston Removal Tool

#126431

- Used on FC/FP with power disc brakes and FC 4000 Series
- Removes piston from service brake



### Brake Pedal Distance Gauge

#832575

- Application: Brake
- Gauge for checking the brake pedal distance.



### Riveter Base

#119343

- Used with #114518 on SP 3000 Series
- See maintenance section, (M5.0) for instructions



### Brake Shoe Setting Gauge

#120988

- For setting brake shoes prior to installing brake drum.
- Used on FC/FP
- Instructions see Service and Maintenance Manual (section M5.0)



### Retainer Ring Assembly Tool

#132417

- Used to disassemble caster and brake
- Assembly on RR 5000S class Series only
- Kit instructions: PF16763

## C-5 Engine Tools



### Hydraulic Lifter Bleed Down Tool

#141920

Used to disperse oil from the lifters on C-5 when replacing the cylinder head



### Look 4024 Flywheel Timing Pin

#144998



### Electronic Data Link Kit

#145005

Used for downloading RST-50 & C-5 software into truck



### Compression Gauge and Hose Assembly

#145739

High quality snap on engine compression gauge for measuring cylinder compression on internal combustion engines



### Compression Test Assembly

#145006

Adapter to be used with the #145739 Engine Compression Gauge, this is required for measuring cylinder compression on C-5, RST-50 and RP-50 internal combustion forklifts



### Compression Gauge Check Valve

#145740

## C-5 Transaxle Tools



### Axle Bearing Tool

#145012

- Used to assist in removing drive axle hubs
- Fits into end of axle on RST-50 and C-5 models to give puller tool a platform to press against



### Bushing Installation Tool

#144931

Used to install drive axle bushings (#145321) on RST-50 and C-5 models



### Axle Hub Alignment Tool

#143129

- Used to install drive axle hub on RST-50 and C-5 model
- Helps align hub and protects hub seal when installing drive hubs
- Use with #143130 axle hub alignment tool



### Axle Hub Bearing Driver Tool

#143130

- Used to install drive axle hub on RST-50 and C-5 models
- Use with #143129 axle hub alignment tool



### Transmission Pressure Test Kit

#360042

Used for checking C-5/RST transmission pressures during troubleshooting



### Hub Seal Installation Tool

#065208

- Used to install Drive hub inner seals on RST-50 and C-5 models.
- Helps to position seal at the correct depth and prevents seal damage.



### Spanner Tool

#100455

- For removal, installation and torquing the axle locknuts.
- Used on RC, SC, Reach, TSP, TS and SP 3000 Series

## AMP

### AMP Crimper



Used on	Connector series	Crown contact	Part-No.
Multilock 040	062663-XXX		#062726-004
Ampseal, FC	62721-001		#062726-006

### Unlocking Tool



Used on Crown contact	Part-No.
062882-001	#146583-001
062882-002	#146583-002

- Removal of contacts
- AMP and TYCO style

### Crimping Tool \*



#090118

- For stripping insulation and crimping new terminals on light gauge electrical wire for insertion into Mate-N-Lock connectors (AMP style)
- Works on 062037 connectors and 062036 contacts
- See TSB 173
- One piece tool

### Crimping Tool



Used on Crown contact	Part-No.
062090-XXX	#110965

- Serial link cable terminal crimping also used on TS, TSP trucks for the terminals in the screw on connectors on the electronics boxes
- Instructions not available (AMP style)

### Unlocking Tool



#090117

- Removal of the Mate-N-Lock pin and socket contacts from various AMP connector blocks
- See TSB 173 and TSB 175
- Includes one piece tool with manufacturer's instructions

### Unlocking Tool



#100380

- For removal of the Mate-N-Lock pin and socket contacts from various AMP connector blocks
- One piece, spring loaded tool with manufacturer's instructions

### Unlocking Tool



#100381

- For removal of AMP leaf contacts from sensor amplifier P.C. board receptacle
- For trucks with wire guidance systems
- Contact removal on receptacles
- One piece, spring loaded tool with manufacturer's instructions

### Crimping Tool Set \*



#TA0207

- KS TOOLS
- 283 pieces

### Crimping Tool



Used on Crown contact	Part-No.
062090-XXX	#100521

- For extracting and inserting AMP male and female contacts on screw on connectors
- Used in the electronics boxes on the 40TS/30TSP trucks
- Two piece mated plastic tool (blue end – insertion, white end – extraction)

### Unlocking Tool



Used on Crown contact	Part-No.
0062036-XXX	#093493

- Removal of lead assemblies from printed circuit board connector receptacles
- Used on RR, RS, RD and TS trucks, RR, RS and RD circuit selector box, lamp and P.C. Board (AMP style)
- See TSB 175

### Unlocking Tool



#126884

- For extracting and inserting AMP male and female contacts on screw in connectors
- Used on truck ESR 4500

### Insertion Tool



#126885

25 Replacement tips for extraction tool (#126884)

### Unlocking Tool



#100522

- Removal of contacts from connectors on traction SCR control, EV100 controls (MP style)
- Used on FC

### Unlocking Tool



#118993

- For removing sockets from connector
- Used with 062536 terminals
- AMP style, miniature rectangular Mate-N-Lock connectors
- Used on WAVE

### Insertion Tool



#100382

- For insertion of unstripped electrical leads into MTA 100 connectors to form a reliable connection
- One piece tool.

### Insertion Tool



#100524

- For insertion of unstripped electrical leads into MTA 156 connectors to form a reliable connection
- Used on TS/TSP
- One piece tool

### Crimping Tool \*



#TA0058

For 1.5 mm<sup>2</sup> to 6 mm<sup>2</sup> insulated connectors

## CANNON



### Unlocking Tool

#100379

For removal of pins from the sensor assembly connector, used on trucks with Portec wire guidance (CANNON style)



### Crimping Tool

Used on Crown contact	Part-No.
062589, 062588	#118504

- For removal of pins from the sensor assembly connector
- Used on trucks with Portec wire guidance (CANNON style)
- Used on TSP 6000
- Crimp terminals 062589 and 062590, Cannon style.



### Unlocking Tool

Used on Crown contact	Part-No.
062589, 062588	#118505

For removing pins on Part-No. #062587 and #062588, CANNON style connectors

## DEUTSCH



### Extraction Tool

Used on Crown contact	Part-No.
062704-XXX, 062797-XXX	#062706

Used to remove DEUTSCH pin and socket contacts from DT, DTM, TS and TSP connectors



### Crimping Tool \*

Used on Crown contact	Part-No.
062704-XXX, 062797-XXX	#062737-002

For stripping insulation and crimping new terminals on light gauge electrical wire for insertion into DEUTSCH DT, DTM, TS and TSP connectors

## MOLEX



### Unlocking Tool

Used on Crown contact	Part-No.
116858, 803450-XXX	#117615

For removing pins from mini fit connectors, used on GPW with CURTIS 1207 transistor controller and WP 2000 wiring harness handle



### Crimping Tool

Used on Crown contact	Part-No.
116858, 803450-XXX	#117636

For crimping mini fit terminals to wires, used on GPW with CURTIS 1207 transistor controller, manufacturer's instructions included, used on WP 2000

## PACKARD



### Crimping Tool

Used on Crown contact	Part-No.
062729-XXX	#320051

- For crimping Packard pin and sleeve terminals.
- Crimps terminals and seals in a single cycle



### Unlocking Tool

Used on Crown contact	Part-No.
062729-XXX	#320053

For removing pins from PACKARD connectors



### Crimping Tool

Used on Crown contact	Part-No.
062896-XXX	#320052

- For crimping Packard Metri-pack 150 & 280
- Sealed 20–14 gauge terminals
- Core & insulation wings are crimped in a separate motion



### Extraction Tool

Used on Crown contact	Part-No.
062896-XXX	#320054

For removing terminals in Packard Metri-pack 150 & 280 connectors

## WEIDEMUELLER



### Crimping Tool

#803964  
WE/WS



### Unlocking Tool

#803965  
For removal of pins – WE/WS



### Crimping Tool

#803452-003

Used on Crown contacts:

- #803452-005
- #803452-006
- #803452-008

For stripping insulation and crimping Weidmueller terminals.



### Hex Crimp \*

#832856

- Crimps 10–120 mm<sup>2</sup>
- 65 cm handles



### SB Extraction Tool

SBE160/SBX175	#340089-001
SBE320/SBX350	#340089-002



## Electrical Tools | Extraction Tool



### Unlocking Tool Kit \*

#TA0200

Includes 12 pieces:

- DEUTSCH secondary interlocks (#TA0200-F425)
- Relay Socket and AMP Super Seal (#TA0200-F505)
- DEUTSCH contacts (#TA0200-F595)
- TYCO Junior-Power-Timer and Standard-Power-Timer (#TA0200-G105)
- TYCO Micro Timer (#TA0200-G174)
- TYCO Junior-Power-Timer and Standard-Power-Timer (#TA0200-G250)
- MOLEX Mini-Fit (#TA0200-G360)
- Connector with deeper secondary interlock (#TA0200-H970)
- DEUTSCH Connector (#TA0200-H995)
- AMP Mini-Mate-N-Lock (#TA0200-R725)
- DEUTSCH IPD DRC16 40s (#TA0200-R830)
- DEUTSCH IPD DRC16 40s (#TA0200-R835)

### Plastic Case With two Foam Inserts

#TA0200-K2000

For retrofitting

## Hydraulic Tools



### Cap Socket

#117318

For removing cap on main lift cylinder on TSTN, TSPTN



### Test Plug Assembly (7/8" - 14)

#092177

- Used to isolate faulty hydraulic component valves
- All Crown lift trucks using 7/8" - 14 thread hydraulic external component valves, except relief valves
- One piece plug with sealing rings



### Test Plug Assembly (3/4" - 16)

#093391

- Used to isolate faulty hydraulic component valves
- All Crown lift trucks using 3/4" - 16 thread hydraulic external component valves, except relief valves
- One piece plug with sealing rings



### Spanner Tool

#108641

Adjust hose take-up used on TS and TSP



### Velocity Fuse Tool

#126400

- For removal of velocity fuse in left hand cylinder
- Used on RR/RD 5000/5200/5700 standard and S class trucks



### Velocity Fuse Tool

#847895

- For removal of velocity fuse #811336
- Used on ST 3000, SX 3000, DT 3000, WP 3015/3020/3080, WD 2300/S, ESi/ETi 4000, WF 3000, ES/ET 4000, MPC 3000, WP 3215/3220/3280



### Velocity Fuse Tool

#849982

- For removal of velocity fuse #810648
- Used on ST 3000, SX 3000, DT 3000, ESi/ETi 4000, WF 3000, ES/ET 4000, WD 2300, MPC 3000, DS 3000, RTD 4000, M 3000



### Hydraulic Pressure Gauge

#104812

- Used to check hydraulic systems pressure on truck
- Used on all Crown lift trucks except tow tractors
- Includes: gauge, 36" hose (91 cm) and fitting (1/2" NPT) for TS/TSP model trucks
- All other models of trucks require fitting and connector listed below, not included with gauge



### Coupler

#123321



### Connector

#064005-003



### Accumulator Charging Tool

#103623-004

- For charging and testing bladder and diaphragm type nitrogen charged accumulators
- Accumulators used on turrets and stock pickers
- Includes: gauge, valve, hose, adapter for nitrogen tank, carrying case and manufacturer's instructions



### Hose Pulling Tool

For 3/4" - 16 fitting use #106465-001  
For 9/16" - 18 fitting use #106465-002

- To couple replacement hose to existing hose for ease of replacement
- Kit instructions PF8075



### Piston Retainer Tool \*

#816908

- Used on PTH 50 Hydraulic Unit (Part-No. #816814-001) to keep spring down



### Poly Pack Seal Tools

#091240-001 through #091240-020

- Aids in installing seals in poly pak or rod packing cylinders
- One tool per dash number, i.e., #091240-004 represents one specific size tool
- See TSB 155 and TSB 193



### Puller Tilt Cylinder

#844187

- Application: Dismantle tilt cylinder
- Designed to prevent damage during disassembly of the tilt cylinder, which is located in the fork carriage



### Pressure Gauge

#300098

- 4000-PSI single gauge
- 0 to 4000 PSI
- Quick Disconnect (Part-No. #123321)
- Used on RST 50 and C-5



### Coupler

#123321

- Used on Part-No. #300098 and #104812



### Nipple

#123887



### Nipple

#127214



### Disconnecting Tool STD/STH DN12

#833158



### Disconnecting Tool STD/STH DN 6

#834720



### Disconnecting Tool STD/STH DN10

#834721



### Disconnecting Tool STD/STH DN16

#834722



### Cylinder Cap Sockets

#150082

- SH/SHR Primary: #150063
- SH/SHR Secondary: #150065



### Socket Weldment

#143065

Cylinder cap tool for removal and installation of cylinder cap (#133084) used on TSP 6000



### Locknut Spanner for 824400

#824842



### Drive Wheel Hub Puller

#141356

- Used to remove locking nut to replace drive axle seal
- Used on RC 5500 & SC 5200
- See kit instructions PF16825



### Tooling Spring Pack Torsion

Left  
Right

#846241-001  
#846241-002

Use for WP3080/WP 3280 and DS 3000/DS 3200



### Drive Wheel Hub Puller

#340079

- Used to remove locking nut to replace drive axle seal
- Improved, deluxe model
- Makes it easier to remove hub and takes a lot less time than using #141356
- Used on RC 5500 and SC 5200



### Stud Alignment Tool

#125097

- Used on RR and RR 3000 Series trucks, SP 3000 Series and TSP
- Used to install Drive Unit Steer Bearing and Stud Kit (#125096)
- Kit Instructions: PF6947 and PF6948



### Driver Nut Assembly

#141357

- Used with gear puller to remove wheel hub
- Used on RC 5500 and SC 5200
- See kit instructions PF16825



### Drive Unit Mount Gauge

#126383

- Used to shim drive unit on RR 5000.
- Kit Instructions: PF6998



### Bearing Cup Tool

#130675

Used to rebuild drive unit on FC 4000



### Steering Wheel Removal Tool

#129257

- To remove steering wheel on SC 4000/4500/5200 trucks manufactured from September 9, 1999 to present.
- Kit instructions: PF16549



### Drive Coupler

#131348

For drive motor pinion locknut installation of FC 4000



### Spanner Tool

#145194

- Used to remove the threaded adjuster plate from the back side of the RC 5500 & SC 5200 drive unit.
- It is required for drive unit disassembly.



### Pilot Rods

#141316

- Used to align RC 5500 traction motor
- Need quantity of 4



### Drive Unit Mount Tool

#145509

- Used to mount the RC 5500 & SC 5200 drive unit in a vice to hold it in position while working on it.



### Retaining Ring Pliers

#320078

- For removal and installation of large retaining rings
- Used on pre-3000 series stock pickers, pallet trucks, tow tractors and heavy-duty walkies
- Tip replacement set (Part-No. #106141)



### Steer Axle Spanner Socket

#146107

- Used to remove locknut 060043-009
- Used on SC 4000/4500/5200, RC 5500 and TSP 6000 steering assemblies



### Special Roll Tap

#126105

- Used to tap dowel pins on RR 5000 Series drive unit
- See TSB 378



### Tool for Steer Motor M4,M5,M6

#822672



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