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DIVERSITY & SOLUTIONS



Sales

TEN is your complete source for tools and construction equipment for the energy industry. We only choose to work with quality brands that deliver industry designed, tested and proven products that are fit for purpose and offer the best lifetime value for our customers. Our product range covers cable hauling and stringing equipment, hydraulic tooling, PPE and liveline equipment, earthing solutions, hand tools, test equipment, and locally manufactured canvas and PVC storage solutions. We offer our customers:

- Quality tools and equipment from innovative and market leading manufacturers
- Knowledge and industry experience to assist with equipment selection
- A diverse and extensive range of products from a single supplier

Service

TEN offers an extensive after sales service and repair capability for a wide range of low and high pressure hydraulic equipment including battery tools, line tools, hand hydraulics, jacking equipment, pumps and lifting cylinders. We also repair and refurbish all brands of pulling and lifting hoists including web strap, chain and wire rope. Our fully equipped workshops and specialist tool technicians provide:

- a high level of customer service with prompt tool turnaround
- advice on extending the life of equipment through preventative maintenance programs
- a range of testing and calibration services including torque, pressure and load testing
- manufacturer certified service, repair and refurbishment of stringing and cable hauling equipment

Hire

TEN Hire offers its customers access to the largest specialised cable hauling and stringing equipment fleet in Australia. The range includes hydraulic cable pullers (skid and trailer mounted), brake units (tensioners), puller-tensioners, capstan winches, 3 drum winders and 3 drum braking units, self loading cable trailers, drum stands, pole pullers and a large range of associated equipment such as presses and pumps, stringing rollers and swivels. TEN also offers leading operator training and competency verification to an AQTF standard.

Why partner with TEN hire?

- Conserve working capital and stretch project budgets
- Be flexible in scaling up or down as your workload demands
- Use the latest technologies and innovative stringing methods to drive productivity and profitability

Manufacture and Assembly

Our manufacturing division produces high quality canvas and PVC storage solutions to carry, store and protect your valuable equipment. All products are designed for the toughest conditions and manufactured to our stringent quality requirements. Our range encompasses fibreglass stick bags, tool buckets, PPE bags, glove and sleeve bags, EWP bucket aprons and specialised storage solutions. TEN also assembles a range of low and high voltage jumpers, bonders and inline switches designed for the Australian market.

- All TEN storage solutions and assembled products are Australian Made in our premises
- We manufacture and assemble to strict quality guidelines under our ISO9001 quality management system
- TEN can custom manufacture and assemble products to meet our clients' needs.







TEN Group: Australia

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Our diversity is your solution.

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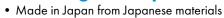
PULLING & HAULING





COME-ALONGS/ GRIPS

NGK Nagaki Grips



- Manufactured from high tensile alloy steel, hot forged, heat-treated, precision machined and zinc-plated
- Safety latch on all models
- Locking nut option on some models
- Special shaped pulling eyes suit all brands of strap pullers







| 100 | |
|-----------|----------------------|
| TROLLEY-G | 4TON-GRIP RIP-2-L |
| | |

| Part No | Min - Max Ø | WLL | Jaw Length | Weight | Safety Latch | Suitable for Wire/ Cable | Eye Width |
|-------------------|---------------------|------------|---------------|--------|-----------------|---|--------------|
| 1TON-L-GRIP | 4 - 22mm | 10kN | 60mm | 1.1 kg | Yes | Bare Cu, covered | 32mm |
| 2TON-L-GRIP | 4 - 22mm | 20kN | 60mm | 1.3kg | Yes | conductor & catenary wire | 32mm |
| 2TON-W-GRIP | 5 - 16mm | 20kN | 100mm | 1.4kg | Yes | | 32mm |
| 3TON-GRIP | 8 - 22mm | 30kN | 120mm | 3.0kg | Yes | | 34mm |
| 4TON-GRIP | 13 - 28mm | 40kN | 150mm | 5.0kg | Yes | Stay wire, catenary wire, Cu wire & contact wire | 25mm |
| 6TON-GRIP | 13 - 28mm | 60kN | 150mm | 5.2kg | Yes | | 25mm |
| TROLLEY-L-GRIP | 5 - 16mm | 20kN | 100mm | 1.5kg | Yes | | 32mm |
| TROLLEY-GRIP-1-L* | 5 - 16mm | 20kN | 100mm | 1.5kg | Yes | | 00 |
| | *Locking | Nut Option | | | | Catenary wire, Cu wire, wire rope & contact wire | 32mm |
| TROLLEY-GRIP-2 | 8 - 20mm | 20kN | 150mm | 2.8kg | Yes | NO BENDING ON TROLLEY | 25mm |
| TROLLEY-GRIP-2-L* | 8 - 20mm | 20kN | 150mm | 2.8kg | Yes | INOLLET | 0.5 |
| | *Locking Nut Option | | | | | | 25mm |
| AL-MIDDLE-GRIP | 5-25mm | 20kN | 110mm | 1.8kg | Yes | Bare Al & bare Cu | 32mm |





LEWIS CABLE SOCKS

Underground Cable Socks

- Coated galvanised cable, reverse weave, and a single wire bail but will not have metal shoulders
- Identified by tags beneath the heavy duty clear tubing



| Part No. | Range | UTS | Length |
|------------|------------|--------|--------|
| TCS-UG06 | 6-13mm | 8.18kN | 304mm |
| TCS-UG13 | 13-19mm | 9.09kN | 355mm |
| TCS-UG 19 | 19-32mm | 26.6kN | 610mm |
| TCS-UG31 | 32-51 mm | 33.3kN | 810mm |
| TCS-UG50 | 51-70mm | 60kN | 965mm |
| TCS-UG69 | 70-89mm | 73kN | 1165mm |
| TCS-UG88 | 89-108mm | 86.7kN | 1320mm |
| TCS-UG 108 | 108-124mm | 93.4kN | 1470mm |
| TCS-UG124 | 124-140mm | 110kN | 1625mm |
| TCS-UG140 | 140-153mm | 110kN | 1625mm |
| TCS-UG152 | 153-171 mm | 110kN | 1625mm |
| TCS-UG 171 | 171-203mm | 110kN | 1625mm |

Overhead Single Soft Eye Cable Socks

- Powerful socks for pulling big conductor smoothly through pulleys
- Made of high quality flexible aircraft strand steel, integrated with a flexible eye
- Eye is composed of braided strands (rather than being rigid) to give maximum flexibility going around angle pulls or through small openings
- Sock strands are retained at the head by a stainless steel spring, eliminating rigid compression sleeve

| Part No. | Range | Work Load 3:1 | Approx. Break Strength | Mesh | Еуе |
|----------|-------------|------------------|------------------------------|--------|----------------|
| TCS-OH05 | 5mm- 12mm | 5.45kN | 16.8kN | 558mm | 101 mm |
| TCS-OH12 | 12mm - 22mm | 10.9kN | 45.4kN | 1066mm | 152mm |
| TCS-OH19 | 22mm - 34mm | 25.9kN | 127.2kN | 1219mm | 1 <i>77</i> mm |







Standard Swivels

- Swivels for connecting pulling rope to cable sock
- For Overhead or Underground application
- Made from high tensile galvanised and corrosion protected steel
- Chamfered edges allowing smooth passing through rollers or conduit
- Special design can bear high radial loads. Thrust bearings designed to avoid torsion strain accumulation

| Part No | Max Rope Size OD | Break Load | Diameter OD | Overall Length | Weight |
|---------------|---------------------|------------|----------------|-------------------|--------|
| GGT001 | 10mm | 70kN | 28mm | 106mm | 0.3kg |
| GGT010 | 13mm | 110kN | 40mm | 143mm | 0.9kg |
| GGT020 | 18mm | 220kN | 54mm | 184mm | 2.1 kg |
| GGT030 | 24mm | 360kN | 60mm | 234mm | 3.4kg |
| GGT040 | 28mm | 750kN | 77mm | 322mm | 8.2kg |

PULLING & LIFTING







- Designed to stretch, pull or lift ropes, conductors or weights
- · Lightweight, strong durable design and easy to operate
- Rope sold separately

| Lifting Capacity | Pulling Capacity | Rope Ø | Length | Width | Break Load | Weight |
|---------------------|---------------------|--------|--------|-------|---------------|--------|
| 8kN | 12.5kN | 8.3mm | 530mm | 284mm | 48kN | 6.9kg |
| 16kN | 25kN | 11.5mm | 558mm | 315mm | 96kN | 13.5kg |
| 32kN | 50kN | 16.3mm | 680mm | 360mm | 192kN | 23.5kg |



Rope for TFX Series Tirfor

| Rope Length | Rope Ø | Breaking Load |
|-------------|--------|---------------|
| 30m | 8.3mm | 48kN |
| 30m | 11.5mm | 96kN |



DILLON

Dillon Mechanical Dynamometers

- Accuracy ±0.5% of full range
- · Max hold feature
- · Accurate readings from varying sight lines with fog and scratch resistant dial
- · All units include calibration certificate and manual
- · Corrosion resistant and supplied with carry case
- Option of 125mm or 250mm dial size



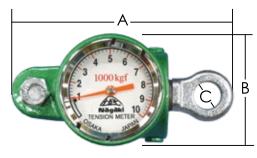


NGK Dynamometers

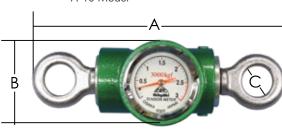
NGK Dynamometers are lightweight, compact and plated to resist corrosion. All models feature a large face dial for easily reading measurements.

- Precise measurement of tension and loads
- Kilogram/force (kN) large face dial display
- Accuracy ±3%
- Plated to resist corrosion





A-10 Model



A-30 Model

| B | o . | Graduation | D | imension | IS . | 246 |
|---------|----------|---------------|-------|----------|------|-------|
| Part No | Capacity | Increments) A | | В | С | Wt |
| A-10 | 10kN/1T | 200N/20kg | 135mm | 65mm | 28mm | 0.8kg |
| A-20 | 20kN/2T | 500N/50kg | 135mm | 65mm | 28mm | 1.2kg |
| A-30 | 30kN/3T | 500N/50kg | 150mm | 80mm | 28mm | 2kg |
| A-50 | 50kN/5T | 1kN/100kg | 260mm | 95mm | 28mm | 3kg |

Used to measure tension in cables and conductors, the NGK tension meter features two pulling eyes, connected to an analog indicator. This allows the user to accurately monitor tension and adjust equipment and loads accordingly.



DILLON





Dillon Digital Dynamometers

Part No: EDJR Series

- Accuracy 0.2% of capacity
- Soft key interface with programmable functions
- Rounded edges prevent binding or snagging
- Corrosion resistant and supplied with carry case

Part No: EDX Series

• Accuracy 0.1% under 50,000kg, 0.3% over 75,000kg

| Part No (0.2% Accuracy) | Capacity |
|----------------------------|----------|
| EDJR-1T | 1T |
| EDJR-2T | 2T |
| EDJR-5T | 5T |
| | 10T |

IP55 designed for weather and water resistance

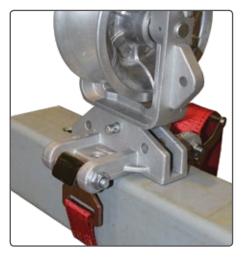




Part No: SPP-1A

- Suitable for distribution and ABC
- Aluminium sheave
- Lightweight high strength heat treated aluminium
- Versatile attachment fittings include side and bottom tags and top ball socket fitting
- Side gate latch can be locked open
- Sheave is profile machined permitting precise sagging of conductor
- High quality permanently lubricated high temperature precision bearings

| Maximum OD Conductor | WLL | Weight | Bottom of Groove Diameter | Overall Height | Overall Width | |
|---------------------------------------|--------|--------|---------------------------------|-------------------|------------------|--|
| 50mm | 1130kg | 4kg | 110mm | 370mm | 205mm | |
| Universal Delley Prestet Cuite CDD 1A | | | | | | |



Universal Roller Bracket - Suits SPP-1A

Part No: SPP-1A-BKT

- Versatile mounting bracket for crossarms and poles
- Frame made from Cast Aluminium
- Lightweight, easy to install
- Heavy Duty Strap and Zinc Plated Ratchet Assembly
- 3 Mounting holes for various configurations
- Ball pin to secure roller

| Min Cross Arm Size | Suit Poles OD | WLL | Weight |
|--------------------|---------------|-------|--------|
| 100 x 100mm | 200-470mm | 600kg | 2kg |

SPP-1A Roller sold separately to SPP-1A-BKT Roller Bracket

Ball Clevis Socket Fittings









| Part No | SPP-1-UC | SPP-1-OE | SPP-1-SH | SPP-1-YC |
|-------------|-------------|---------------|-------------|---------------|
| Description | Ball Clevis | Oval Eye Ball | Safety Hook | Y Ball Celvis |
| WLL (kN) | <i>7</i> 0 | 70 | 70 | 70 |
| Weight (kg) | 0.55 | 0.4 | 0.55 | 0.85 |

PULLING & LIFTING





HOISTS

Vital Lever Hoists

- Manufactured in Japan using optimum high quality steel which conforms to the strict JIS & ISO regulations
- All Vital models are manufactured to comply with AS 1418.2
- All Vital lever blocks are supplied with overload protection for added security of use (excluding 250kg and 500kg models)
- Unique design of bottom hook prevents slipping and ensures safe operation
- Easy two-step operation to prevent accidental free-wheeling
- Hardened alloy steel load chain with embossed identification, marked as to the relevant standards
- Load Chain Exceeds Australian Standards with 5:1 Safety Factor
- The Vital VLB series are suitable for all lifting applications

| | Rated | Standard Lift | Pull to Lift | Dimensions (mm) | | | | No. Chain | | |
|---------|----------------------|---------------|--------------|-----------------|-----|-----|----|-----------|-------|--------|
| Part No | Capacity (Tonnes) | Height* | Load | A | В | D | G | С | Falls | Weight |
| VLB115L | 1.6T | | 18kg | 163 | 148 | 370 | 34 | 355 | 1 | 9.7kg |
| VLB130L | 3.2T | 1.5m | 38kg | 191 | 181 | 370 | 43 | 405 | 1 | 16.3kg |
| VLB160L | 6.3T | | 39kg | 191 | 244 | 370 | 47 | 550 | 2 | 26.7kg |

^{*}Other lengths up to 6m available

Manufactured to AS1418-2

Vital Chain hoists are suitable for pulling and lifting applications



NGK Chain Hoists

- Lightweight aluminium housing with 5mm diameter alloy chain link and forged hooks
- 360° rotating handle of 430mm length
- Safety hook attachment
- Special length chains available on request





Part No: RICKY-2

- 5mm diameter alloy chain link
- 1.5m pull
- 360° rotating handle of 230mm length
- Safety hook attachment
- All models certified to ISO9001 and ISO14001 standards

| Doub No. | Pull | Li | Lift WLL | | Handle | Wt |
|----------|------|-------|----------|------------|--------|-----|
| Part No. | Pull | Min | Max | WLL | Length | WI |
| RICKY-2 | 1.5m | 300mm | 1800mm | 7.5kN/1.5T | 230mm | 5kg |

NGK chain hoists suitable for pulling, tensioning and securing applications





Muletape

- Ideal for fibre optic and power cables in underground conduit
- Silicon coated, flat surface prevents conduit cutting
- Blow or rod then haul cables back, saving time and money over pilot roping
- Durably printed with sequential metre markings
- Available in a variety of pulling strengths from 818-2727kg UTS
- Low elongation for enhanced worker safety
- · Lightweight and easily blown into conduit
- Easily spliced using conventional methods or the MULEKNOT™

| Part No | Model No. | Length of reel | Breaking Load (kg) | Typical Bowline BL (kg) | Typical Muleknot BL (kg) | Width (mm) | Best Use |
|---------|-----------|----------------|-----------------------|----------------------------|-----------------------------|---------------|-------------------|
| 27025 | WP1800P | 900m | 818 | 377 | 636 | 15.8mm | Fibre |
| 34687 | WP2500P | 1000m | 1136 | 591 | 818 | 19.0mm | Fibre/Light Power |
| 53202 | RP6000P | 1000m | 2727 | 1400 | 2273 | 19.0mm | Power |



ROPE

Titan Braid Rope

• Manufactured with a braided polyester cover over a braided nylon core

ATLANTIC BRAIDS

• Ideal for use as winch or /and tow lines and for setting underground cable

| - | | _ | | . • | |
|----|-----|-----|-----|-----|----|
| Ch | arc | act | eri | stı | cs |

- · High strength
- High UV resistance
- Abrasion
- resistant
- Shock absorption
- Splicable
- Flexible

Applications

- Winch lines
- Tow lines
- Rigging lines
- Pulling and stringing line
- Bull Rope (Titan-Braid™ Coated)

| Part No | OD | Weight kg/100m | Avg Tensile Strength in kg | Minimum Tensile Strength in kg |
|---------|---------|-------------------|-------------------------------|-----------------------------------|
| 26127-* | 12.7mm | 11 kg | 4,500kg | 3,825kg |
| 26143-* | 14.3mm | 15kg | 6,350kg | 5,395kg |
| 26191-* | 19.1 mm | 23kg | 8,340kg | 7,090kg |
| 26222-* | 22.2mm | 33kg | 12,150kg | 10,325kg |



Prima Rope

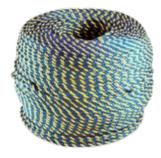
HAMPIÐJAN

- "Prima" is a 12 Strand UHMwPE rope, made by Hampidjan Baltic using fibers manufactured by DSM (The manufacturer of Dyneema).
- Available in sizes from 6mm up to 60mm diameter
- High UV resistance and excellent resistance to chemicals
- Maximum Breaking Load 4 to 302.5 metric Tonnes



- 6mm in diameter with 2 Blue and 1 Yellow strand
- Tangle free uncoiling to coil end, no waste

| Part No | OD | Length | Colour | Break Force |
|---------|-----|--------|-------------|-------------|
| ROS0614 | 6mm | 400m | DI AVAII | 4001 |
| ROS0652 | 6mm | 500m | Blue/Yellow | 602kg |



PULLING & LIFTING





TENSION METER

Dillon Quick-Check Tension Meter

Part No: AWT05-508111

The Dillon Quick-Check Tension Meter quickly measures tension in cable guardrails, guy lines and overhead wires. It installs, measures and removes in seconds. The digital loadcell is highly accurate and requires no lookup or correction tables.

- Store wire rope readings and export data (Ideal for tower data collection)
- Time saving check-tensioning mode
- Portable and rugged designed for outdoor use
- Built-in averaging saves time and eliminates errors
- Factory calibrated for up to 20 unique wire sizes and types

Specifications

The fastest cable tension meter

- Tower and stack guy wires
 - Cable barriers
 - Overhead transit wires
 - Public Utilities
 - Fall arrest
 - Aircraft cables





| Tension Capacities | 10 kN/1000 kg or 45 kN/4500 kg |
|--------------------------------|---|
| Wire Sizes | 4.75 mm through 25.4 mm |
| Accuracy | + 3% instrument capacity (calibrated to specific wire size and type) |
| Loading Error | Cable elongation of only 2mm |
| Display | Dot-graphic LCD display supports full text and 25mm high digits |
| Sheave Range | Each set accommodates rated wire size and 12mm smaller. Multiple sheave sets may be used. |
| Suggested Wire Calibrations | Calibrate each wire diameter needed with the most appropriate sheaves. If two wire types are used of different diameters (e.g. 17-2.75 & 19-2.00), calibrate each type independently. |
| Environment Protection | Suitable for continued outdoor use |
| Operating Range | -20° C to 70° C |
| Tension Units Of Measure | Pound-force, Kilogram force, Newtons |
| Resolution | Configurable low/med/high |
| Size | 250 x 590 x 80 mm |
| Weight | Approx 5 kg |
| Recalibration | At user discretion. Commonly 12-24 months; should be more frequent with heavy use. |
| Approvals | CE |

The Fastest Cable Tension Meter

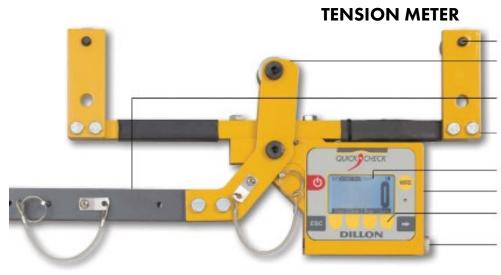
The Dillon Quick-Check can be placed on a cable, measure its tension, and removed in under five seconds! There are no complex lookup tables, no conversion charts. The operator can quickly select from 20 different wire sizes and types stored in Quick-Check's memory. The Check-Tensioning mode graphically displays the current and target tensions for extremely quick setting of line tension. Even the infrequent battery changes are quick.



Broad Application

The Quick-Check can be employed in any industries to ensure proper tensioning. Typical applications include tower and stack guy wires, pretensioned cable barriers, bridges, elevators, winch rope, overhead electric transit wires, fall arrest systems, aircraft cables and utilities.





Sheaves with bearings eliminate friction and provide the best accuracy

Accommodates a wide range of wire sizes and styles

Telescoping handle engages meter quickly with minimal effort

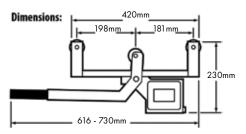
Highly visible yellow finish

Easy to read backlit display with full-text prompts

RS-232 Port

Easy to use soft-key interface

Uses popular AA batteries and has long life between changes







| | Quick-Check Red | Quick-Check | | | | |
|--|--|---|--|--|--|--|
| Industries | Tower and stack guy wires, cable barriers, overhead transit wires, bridges, fall arrest, stage support, aircraft cables and public utilities | | | | | |
| Capacities | 1,000 kg or 4,500 kg | | | | | |
| Rope Calibrations | Up to 20 (must be specified at time of order) | Up to 15 (must be specified at time of order) | | | | |
| Cable Diameter Range | 4.75mm to | 25.4mm | | | | |
| Display | Informative Display: Shows: Unit, Wire Type, Sheave & Battery | Shows: Unit, Wire Type & Battery | | | | |
| Date and Time | Included | No | | | | |
| Calibration Reminder | Included (setup by distributor) | No | | | | |
| AZT (Automatic Zero Tracking) & Filtering | Configurable AZT and Filtering | Fixed | | | | |
| RS-232 Port | 4-Pin Lemo RS-232 output | No | | | | |
| Carry Case | Included | Optional | | | | |
| Enclosure | Suitable for contin | uous outdoor use | | | | |
| Units of Measure | Lbf, kgf and | Newtons | | | | |
| Temperature Range | -20° C to 70° C | -20° C to 60° C | | | | |
| Backlight | Included (configurable intensity and timer) | No | | | | |
| Power | 2 - AA B | Batteries | | | | |
| Battery Life - Tested with backlight off | 10Hz = over 250 hrs continuous 100Hz = over 100 hrs continuous | N/A | | | | |
| Accuracy | 3% Full | Scale | | | | |
| User's Manual | Include | ed, CD | | | | |
| Pass/Fail Tensioning Mode | Ye | es | | | | |
| Warranty | 2 Ye | ears | | | | |
| Weight | 5k | gs | | | | |
| Tower Mode | Stores wire rope readings to be exported later (Stores each Leg and Wire) | No | | | | |
| Quick-Check Calibrated to most popular Cell Tower Guy Wires | Yes, now available as a new P/N, see price sheet for details | No | | | | |

PULLING & LUBRICATION





Polywater Lubricant J J-640 18.9L

J-35 950ml

Squeeze Bottle

CABLE LUBRICANT

Polywater Lubricant J

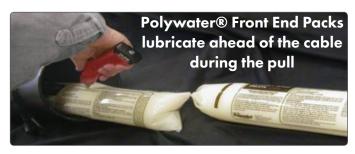
- High performance cable lubricant for heavy cable installations
- Maximum Friction Reduction
- **High Cling Factor**
- *Compatible with all common Australian cables
- Temperature Stable
- Non-Combustible Residue

| Part No | Description |
|---------|----------------------|
| J-640 | 18.9L Drum |
| J-110 | 1.9L Front End Pack |
| J-99 | 950ml Front End Pack |
| J-35 | 950ml Squeeze Bottle |



- Specification Grade "J" The lubricant contain no waxes, greases, silicones, or polyalkylene glycol oils
- Application System available in 'Front End Packs'
- Complete cleanup is possible with water

J-110 76mm diameter x 36mm long used in 89mm and larger conduit J-99 44mm diameter x 60mm long used in 50mm and 76mm conduit





Front End Pack™

is a conduit-sized polyethylene bag of lubricant. The Front End $\mathsf{Pack}^\mathsf{TM}$ travels through the conduit on the winch line prelubricating the conduit ahead of the cable being pulled.

ALSO AVAILABLE: A program for cable pulling tension calculation and conduit system design

Consult your TEN Group Sales Representative on Polywater lubricants and the Pull-Planner software for your cable pulls



www.tengroup.com.au

Polywater Cable Pulling Software

Pulling Wire and Cables the Right Way is Critical

Make the right decision on cable pull direction. The Pull-Planner 4.0 easily shows optimal pull direction. It helps eliminate splices, plan for future system upgrades, and reduce the chances of cable damage. An excellent tool for cable system specification.

Achieve Longer Pulls by Keeping Tension Low

Pull-Planner™ 4.0 for Windows® calculates cable pulling tension and sidewall pressure around bends using the pulling equations. The Pull-Planner 4.0 also utilizes industry standards to calculate maximum pulling tension and conduit fill.

Plan conduit systems prior to the pull.

| | | | | | P | ull-Planr | ier 4.0 i | report | | | | | |
|---|--|-------------------------------|--|---------------------------------------|------------------|------------------------|---------------------------|------------------------|-------------------|--|---|--|-------------------------------------|
| Pull Des | cription: Pu | ill Example | | | | | Polywater* | LZ with Jac | cket: LLDPE | and Co | nduit: Rigid S | teel | |
| Pull Description: Pull Example Pull Filename: Pull-Planner Flyer Printout 10-11-17-xpll | | | | | | Pull Detail Summary | | | | Recommended Quantity: 9 Gallons Lubricant Notes | | | |
| Conduit ID: 4 Inch(es) Conduit Fill: 27% | | | | | | | nd: 315 deg Bends: 824 | | | st COF Value: | 0.100 | | |
| Total of | 3 cable(s) o | of 1 differe | nt type(s) be | ing pulled. | | | Conduit Fil | | 3 lbs per foc | . | Un-Lubricate | d COF Value: | 0.450 |
| Type #1 | 3 Cable(s | O.D. of | 1.2 inch(es) | weight of | 1.105 lbs | /ft | | ondition: Po | | ^ | | lubricant in re | |
| Calculat | ble weight: ted weight o | correction | ft factor: 1.24 | | | | | | | | Additional quantity bas Additional | ed on long pu lubricant in re ed on total de lubricant in re ed on conduit | commende gree of ben commende |
| comige | | | | | | | | | | | | | |
| | | ilysis: Jamr | ning Not Pro | bable | | | | | | | | | |
| Jam/Cle | | | | obable OF: 0.1 | | | | | | | | | |
| lam/Cle | earance Ana | | Pull G Straight | | Tension (lbs) | Bend Type | Bend Direction | Bend Radius (ft) | Bend Angle (*) | Bend Leng (ft) | | Tension (lbs) | Sidewall Pressure (lbs/ft) |
| Jam/Cle | erance Ana ng Tension: Straight Section | 300 lbs Slope | Pull O Straight Section | OF: 0.1 Straight Section | | Bend Type Vertical Up | Direction | Radius | | Leng | | | Pressure |
| Jam/Cle Incomir Seg# | earance Ana ng Tension: Straight Section Slope (*) | 300 lbs Slope Direction | Pull O Straight Section Length (ft) | OF: 0.1 Straight Section COF | (lbs) | | Direction | Radius (ft) | Angle (*) | Leng (ft) | th COF | (libs) | Pressure (lbs/ft) |
| Jam/Cle Incomir Seg # | serance Ana ng Tension: Straight Section Slope (*) 90.0 | 300 lbs Slope Direction | Pull Co Straight Section Length (ft) 8.0 | OF: 0.1 Straight Section COF | (lbs) 273.48 | Vertical Up | Direction | Radius (ft) 3.00 | Angle (*) | Leng (ft) 4.7 | th COF | (lbs) 320.00 | Pressure (lbs/ft) 61.00 |

07 3212 8999

SEALING & CLEANING









FST™ Duct Seal is a "closed cell foam", which is superior to "open cell" spray canned foams. The kit contains a cartridge filled with a two-part foam base, which is mixed in equal parts as it is pushed through a mixing nozzle. When mixed and injected, the foam expands and hardens, keeping water, acids, greases, gases, insects, and rodents, etc., out of the conduit. The foam has good wetting and adhesion to metals, plastics, and concrete.

Product Benefits

- Seal water, dirt, oil, gases, rodents, or other contaminants out of conduit/duct
- Cured foam is strong, resilient and chemically resistant
- Can hold 5m water-head pressure over an extended period
- Two-part foam is mixed in nozzle as it is injected no mixing required
- Cured foam is semi-permanent and can be removed
- No known effects on common cables

| Part No | Description | | | | | |
|------------|---|--|--|--|--|--|
| FST-250KIT | 1 x 240g two-part Foam Sealant caulking tube style with resealing cap 3 x Mixing nozzles 4 x 600m Foam damming strips 1 x Pair Disposable gloves 1 x Position rod 1 x Pre-treating wipe Instruction Sheet | | | | | |







PowerPatch® Leak Repair Kit

Part No: EPCT-KIT1 + TOOL-50-11

PowerPatch® quickly makes durable repairs of transformer oil and SF6 gas leaks as an economical and effective means to protect essential electrical grid assets. PowerPatch field repairs reduce costly unplanned outages and risks to the environment.

The PowerPatch® Sealant is provided in a kit containing the surface preparation and patching materials necessary to repair oil leaks in transformers, SF, Gas, lead-sheathed cables, potheads and other oil-filled electrical equipment.

- Quick plugging action A fast-cure putty that stops oil seepage without shutting down
- Permanent seal A 2-part UV resistant paste overcoat that forms a permanent seal
- Durable Finished seal is impervious to water, oil and weather
- Fast System can plug and seal active leaks in minutes
- High Adhesion Adheres to numerous types of metals, porcelain, and rubber materials
- Chemically Inert Will not affect oils, solid insulation, or other equipment
- Saves money Faster than welding. Transformer may stay in service
- Simple Eliminates "bagging" or removal from field and unexpected outages
- Convenient Kit contains all materials needed to fix leak while in the field

| Part No | Description |
|-----------|---|
| | 2 x PowerPatch® 2-Part Cartridges with |
| | 4 static mixers |
| FDCT VITI | 2 x Putty sticks |
| EPCT-KIT1 | 8 x Type TR™ cleaning and preparation wipes |
| | 1 x 600mm sandpaper strip |
| | 4 x application sticks, and instructions |



TOOL-50-11 PURCHASED SEPERATELY



SqueekyKleen

SqueekyKleen cleans and fans fiber in two wipes, saving time and money.

| Part No | Description | Quantity/Pack |
|---------|----------------------------------|---------------|
| TC-1 | Individual packed saturated wipe | 144/box |









Polywater Rubber Goods Cleaner is a specially formulated water-based cleaner for removing grease, dirt, carbon, creosote, and other grimes from insulating blankets, lineman's gloves, rubber sleeves, jumper cables, hot jumpers, and line-hose. It is safe for use on all natural and synthetic rubbers. Unlike other water-based rubber cleaners Polywater Rubber Goods Cleaner contains no hazardous ingredients and is pH neutral, making it safe for use on skin. It is also completely biodegradable and safe for the environment.

Product Features

- No mixing required
- Excellent cleaning power
- Harmless to all elastomers (rubbers)
- Multiple package options
- Environmentally friendly
- Non-toxic and non-corrosive

Rubber Goods Cleaner contains no hazardous ingredients and is pH neutral

| Part No | Description |
|----------|---------------------------------|
| RBG-1 | Individual Sachet |
| RBG-D72 | Dispenser of 72 saturated wipes |
| RBG-35LR | 950ml Bottle with sprayer |
| RBG-128 | 3.8L Bottle |
| RBG-640 | 18.9L Drum |



Polywater Multipurpose Cleaner

Type HP™ Cleaner effectively cleans semiconducting cable shield, corrosion inhibiting compound, silicone greases, filling gels, transformer oils and many other contaminants found in electrical construction and maintenance. It evaporates with no residue. Type HP™ is non-conductive.

Type HP[™] Cleaner replaces ozone-depleting CFC's, trichloroethane and other carcinogenic chlorinated solvents. Type HP[™] Cleaner lasts longer than fast evaporating solvents and is compatible with most materials and plastics, including polycarbonate.

Type HP™ Cleaner is available in multiple package options. Bulk Type HP™ Cleaner is an excellent choice for soaking or rinsing parts. Pre-saturated towels limit solvent exposure and eliminate spill hazard. Depending on end use, Type HP™C leaner has the optimal package available.

Benefits

- One cleaner for all your electrical and communications cleaning needs.
- Presaturated eliminating spill hazards and limits vapour exposure.
- Contains no CFC's, HCFC'S, chlorinated solvents, perchloroethylene, or other ozone-depleting solvents Ideal for underground or confined space applications.
- Harmless to most plastics, including polycarbonate, ABS and polyethylene
- No residue, non-conductive, non-corrosive, non-freezing, non-staining to metals
- Removes residues that can cause poor operation of electrical equipment
- Suitable replacement for chlorinated electrical cleaners, cable cleaners, contact cleaners, and spray degreasers

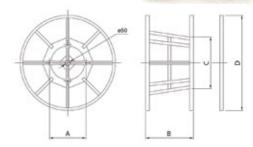
| Part No | Description |
|-----------|---------------------------------|
| HP-D400AU | 400-Count Wipe Canister |
| HP-D72 | Dispenser of 72 saturated wipes |
| HP-35LF | 950ml Bottle with flip top |

REELS









- Reels are made of welded steel with a protective coating
- Each reel is provided with two cross supports and connecting bolts

Standard Reels (Fixed)

Part No: BOF

| Part No | | M/aimha | | | |
|---------|-----|---------|------|------|--------------|
| Pari No | A | В | C | D | Weight |
| BOF010 | 420 | 560 | 570 | 1100 | 53kg |
| BOF020 | 420 | 560 | 570 | 1400 | <i>7</i> 3kg |
| BOF030 | 420 | 560 | 570 | 1900 | 135kg |
| BOF330 | 420 | 1560 | 1010 | 2200 | 1000kg |

Detachable Reels

Part No: BOC

• A detachable side and the conical drum facilitate removal of rope or conductor coil



| a50 | | |
|-----|---|-------|
| | | + v a |
| | | |
| _ A | В | |

| Part No | | W-:-l- | | | |
|---------|-----|--------|-----|------|--------|
| Part No | A | В | C | D | Weight |
| BOC040 | 420 | 560 | 590 | 1100 | 72kg |
| BOC050 | 420 | 560 | 590 | 1400 | 86kg |
| BOC310 | 420 | 890 | 626 | 1900 | 210kg |
| BOC320 | 420 | 1310 | 605 | 2050 | 250kg |

Galvanised Steel Rope

Part No: FUX

Anti-twist braided galvanised steel rope, made of braiding strands.

- · High flexibility
- Complete stability to rotation
- Strands with individual galavanised elementary wires





| Part No | Nominal Diameter | Supplied with Spliced Eyes | Indicative Lubricated Mass Rope* | Breaking Load | Standard Length** | |
|---------|---------------------|----------------------------|--|------------------|----------------------|--|
| FUX006 | 6mm | ALF001 | 0.11 kg/m | 22kN | 1800-3600m | |
| FUX008 | 8mm | ALF001 | 0.22kg/m | 42kN | 1600m | |
| FUX010 | 10mm | ALF001 | 0.35kg/m | 68kN | 1200m | |
| FUX013 | 13mm | ALF002 | 0.55kg/m | 105kN | 800-1600m | |
| FUX016 | 16mm | ALF002 | 0.84kg/m | 160kN | 900m | |
| FUX018 | 18mm | ALF002 | 1.21kg/m | 225kN | 800m | |
| FUX020 | 20mm | ALF003 | 1.24kg/m | 265kN | 1000m | |
| FUX022 | 22mm | ALF003 | 1.52kg/m | 320kN | 900m | |
| FUX024 | 24mm | ALF003 | 1.76kg/m | 375kN | 800m | |
| FUX026 | 26mm | ALF003 | 1.98kg/m | 409kN | 700m | |
| FUX028 | 28mm | ALF003 | 2.33kg/m | 479kN | 600m | |

^{*}Due to production variations, linear mass may change

^{**} Rope is available in longer continuous sections, without connectoirs, up to 7,000m





Huge Range Available Contact TEN

HEIGHT SAFETY EQUIPMENT

Miller Aircore Harnesses

- Lightweight components specifically chosen to reduce fatigue for all-day endurance and increased productivity
- Corrosion-resistant and longer lasting aluminium hardware
- Quick operating cam buckles on the shoulder straps make vertical webbing adjustment easier
- Quick-connect leg and chest buckles for fitting/removing harness
- Heavy duty 18kN chest buckle for extra security
- Aluminium frontal D-ring and rear fall arrest D-ring with fall indicator
- Work positioning side D-rings for working with pole straps
- Equipped w/confined space webbing loops for attachment to spreader frame

| Size | TOWER WORKER SOFT LOOPS HARNESS | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|
| S | M1020227 | | | | | | | |
| M-L | M1020228 | | | | | | | |
| XL-XXL | M1020229 | | | | | | | |
| Weight | 2.7kg | | | | | | | |
| Applications | Tower work, Ladder work, Pole top, Line workers | | | | | | | |
| Standards | Certified to Australian and New Zealand Standards AS/NZS 1891.1 - 2007 | | | | | | | |

Harnesses









| Н | aı | 'n | e | s | S | e | s |
|---|----|----|---|---|---|---|---|

| Description | Part No |
|-----------------------|--------------|
| Revolution Tower | M1020056 |
| Revolution Vest Style | M1020008 |
| Line Worker | ELITE.2 |
| Tower Harness | TOWER WORKER |

| Construction & Maintena | Roof Work | Tower Climbing | Order Pickers | Ladder Safety System | Confined Space | Elevated Work Platforn | Warehousing | Tree Pruning | Work Positioning | Static Line Systems | Fall Arrest (Back Top) | Positioning (Side) | Confined Space (Top Sid | Frontal (Front) |
|-------------------------|-----------|----------------|---------------|----------------------|----------------|------------------------|-------------|--------------|------------------|---------------------|------------------------|--------------------|-------------------------|-----------------|
| | | | Ir | dustr | у Арр | licatio | n | | | | | Feat | ures | |
| ✓ | | 1 | | 1 | 1 | | | 1 | 1 | ✓ | | | | |
| ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | ✓ | | | | |
| | | ✓ | | | | ✓ | | | 1 | | | | | |
| | | 1 | | 1 | 1 | ✓ | | 1 | 1 | | | | | |
| | | | | | | | | | | | | | | |



Fall Restraint/Anchor Point

Part No: 3861

- Lightweight anchor point
- Ideal for work from ladders or platforms
- Provides isolation from potential electrical hazards
- U-Bolt for lanyard connection
- Foam filled fibreglass shaft with cast aluminium pole bracket
- For wood, concrete or steel poles

| UTS | Fibreglass Shaft | Nylon Strap length | Weight |
|---------|------------------|--------------------|--------|
| 2,265kg | 150mm | 1.1 m | 4.5kg |







M1010024



HEIGHT SAFETY EQUIPMENT

Fall Arrestor

- Unique side payout reduces entry guide and cable wear
- No annual factory re-certification lowers costs and downtime

| Part No | Length | Weight |
|---------|--------|--------|
| 1011742 | 10m | 5kg |

- · Load indicating hook identifies unit removal from service
- 4.5mm x 10m galvanised steel cable, 1200daN min break, 17mm opening

Manyard, Energy Absorbing Lanyard

- Contracts from 1.8m to 1.2m to reduce tripping, snagging or dragging
- · Specially woven shock absorbing inner core reduces fall forces
- No energy absorber "pack" makes it more comfortable to use
- Heavy duty tubular outer sleeve serves as a back up lanyard
- Unique warning flag provides visual proof of a sustained fall
- Grid label allows easy recording of inspection dates

| Part No | Part No Length | | Weight | |
|----------|----------------|----------|--------|--|
| M1010024 | 2m | 2 x 19mm | 1kg | |



Lanyard, Stretchstop with Energy Absorber

- Elastic inner core contains the unextended length of webbing
- Integral compact energy absorber
- · Outer load bearing tubular polyester webbing gives strength and durability
- · Available in a variety of lengths and hook options

| Part No | Length | Hooks | Webbing | Weight | |
|-----------|--------|----------|---------|--------|--|
| L11SEC1.5 | 1.5m | 2 x 19mm | Single | 0.5kg | |



L11 SEC 1.5

Safety Tie Off

- Quick and easy set up of temporary anchorage
- 1m strap with dee ring one end and reversed eye the other
- Protective sleeve prevents webbing wear

| Part No | Length | Hooks | Weight |
|----------|-------------|-----------------------|--------|
| ME10091. | 6 1m | Dee Ring/Reversed Eye | 0.5kg |



ME10091.6

Pole Straps

- Fitted with an adjuster to easily adjust working length
- Protective sleeve lengthens life of webbing
- Double acting 19mm opening hooks at each end
- 138.1S-SP features 1 x double action hook, 1 x triple action karabiner

| Part No | Length | Weight |
|-----------|--------|--------|
| 136.15 | 1.8m | 3kg |
| 138.1S-SP | 2.4m | 3kg |
| 138.15 | 2.4m | 3kg |
| 139.15 | 2.7m | 3kg |





Karabiner

• Industry karabiners for industrial purposes

| Part No | Description | Rating | Specification |
|---------|-------------|--------|---|
| 91326 | Karabiner | 30kN | Triple Acting, 14mm Opening, Captive D, Forged Steel |



SLINGS

Round & Flat Lifting Slings

- Round slings to AS4497
- Flat slings to AS 1353

| | | | | 10 | 38 | Uu | | | <u></u> | |
|---------------------------|--|--------------------------|--------------------------------|-------------------|-------|--------|--------|--------|---------|-----|
| 4 | | | | Loading Factor | 1.0 | 0.8 | 2.0 | 1.7 | 1.4 | 1.0 |
| | | | Lift Mode | Vertical | Choke | Basket | 60° | 90° | 120° | |
| Round Sling Part No | * Standard lengths (m) | Flat Sling Part No | * Standard lengths (m) | Sling Colour | | | WLL (T | onnes) | | |
| SLR1-* | 0.5, 0.75, 1, 1.5, 2, 2.5, 3, 4, 5 & 6 | SLF1-* | 1, 1.5, 2, 2.5, 3, 5 & 10 | Violet | 1 | 0.8 | 2 | 1.7 | 1.4 | 1 |
| SLR2-* | 0.5, 0.7, 1, 1.5, 2, 2.5, 3, 4, 5 & 6 | SLF2-* | 1, 1.5, 2, 2.5, 3, 4, 5 & 6 | Green | 2 | 1.6 | 4 | 3.4 | 2.8 | 2 |
| SLR3-* | 1, 1.5, 2, 2.5, 3, 4, 5 & 6 | SLF3-* | 2, 3, 4, 5 & 6 | Yellow | 3 | 2.4 | 6 | 5.1 | 4.2 | 3 |
| SLR4-* | 1, 1.5, 2, 3, 4, 5 & 6 | SLF4-* | 3 & 4 | Grey | 4 | 3.2 | 8 | 6.9 | 5.6 | 4 |
| SLR5-* | 2, 3, 4, 5 & 6 | SLF5-* | 4 | Red | 5 | 4.0 | 10 | 8.6 | 7.0 | 5 |
| SLR6-* | 2, 2.5, 3, 4, 5 & 6 | SLF6-* | 3 | Brown | 6 | 4.8 | 12 | 10.3 | 8.4 | 6 |
| SLR8-* | 2, 2.5, 3, 4 & 6 | SLF8-* | 3 | Blue | 8 | 6.4 | 16 | 13.8 | 11.2 | 8 |
| SLR 10-* | 3, 4, 6, 8 & 10 | SLF10-* | - | Orange | 10 | 8.0 | 20 | 17.3 | 14.1 | 10 |

Example: SLF1-1.5 - Sling Flat WLL1 x 1.5m length



LADDERS

Powermaster Fibreglass Extension Ladders

- High strength durable box rails
- · Light weight
- Twist and sway resistant
- Weather resistant
- Patented latch system
- Swivel feet with urethane studs and gravel spikes
- Spring rope retraction
- Non-slip "D" profile rungs
- Non conductive safety yellow fibreglass
- Side pull standard
- Complies with AS/NZS1892.3.1996

| Part No | Retracted | Extended | WLL | Weight |
|---------|-----------|----------|-------|---------|
| FED 3.4 | 2.4m | 3.4m | 160kg | 12.0kg |
| FED 4.0 | 2.7m | 4.0m | 160kg | 15.5kg |
| FED 5.2 | 3.3m | 5.2m | 160kg | 18.5kg |
| FED 6.4 | 3.9m | 6.4m | 160kg | 21.6kg |
| FED 7.6 | 4.5m | 7.6m | 160kg | 27.1 kg |
| FED 8.8 | 5.1 m | 8.8m | 150kg | 31.5kg |
| FED 9.4 | 5.7m | 9.4m | 140kg | 35.5kg |
| FED 9.8 | 5.8m | 9.8m | 120kg | 35.5kg |







RESCUE KITS & LIVE WORKING EQUIPMENT

Low Voltage Switchboard Rescue Kits

Part No: LVRK-P

| | Kit Contents |
|----------------------------|---|
| Individual Item Part No | Description |
| E014R-11 | Gloves Pair - 1000V Class "0" |
| RK-LVHOOK | Rescue Hook – Insulated Plastic |
| RK-TORCH | LED Torch - Weatherproof with swivel hook & magnet |
| RK-FIREBLKT | Fire Blanket 1.2m x 1.8m - AS/NZS3504 |
| RK-BANDAGE | Bandage, Multi Trauma Dressing 250 x 750mm |
| rk-sign | Hanging Sign – "Isolate Here In Emergency" |
| 3218 | First Aid Quick Reference Guide |
| TENM525 | PVC Bag – 'LV Rescue Kit' with divider & shoulder strap |
| RAWD091 | Card listing contents and Next Test Date table |
| | Weight 3kg |



High Voltage Switchboard Rescue Equipment

Part No: SBRKITHV

- Supplied to customer specifications
- Other components & kits available

SAMPLE KIT ITEMS

- Gloves Pair Rated over working voltage (5, 10, 20, 30 & 40kV available)
- Rescue Hook Rated over working voltage (5-225kV available)
- Torch Weatherproof
- Blanket Fire
- Dressing Trauma
- Tag "Isolate Here In Emergency"
- Mat Insulating Rubber Ground (5, 10, 20, 30 & 40kV available)
- Suit Arc Protective
- Shield Face, Arc protective
- Platform Insulating (Indoor or outdoor, 24-63kV available)
- Bag Carry Case (Made specifically to suit components) *
- * Minimum order quantities may apply

TEN has access to all individual items to make up your required Rescue Kits



Rescue Stick/ Hook

Part No: SBRKITHV

- Insulated Handles
- Hastings models use in conjunction with A30002 handguard
- Hastings model insulated sticks tested to 100kV for 300mm
- Catu Models supplied with permanent handguard and wall mount

| Part No | Length | Standard | Weight | |
|---------|---|-----------|--------|--|
| 848-1 | 2.3m | ASTMF7-11 | 3.4kg | |
| 848-2 | 2.9m | ASIMF7-II | 3.6kg | |
| A30002 | Hastings handguard - non-conductive delri | | | |
| CS-45 | 1.7m | | 1.1kg | |
| CS-90 | 2.0m | CATU | 1.2kg | |
| CS-225 | 2.5m | | 1.2kg | |

LIVELINE CLOTHING







Class 00

Class 0

SALISBURY



Class 3



Bell Cuff Contour Straight
Cuff Cuff

INSULATING GLOVES

Linesman Gloves LV ASTM CLASS 0 & 00

- Insulating gloves for live electrical work
- Supplied in pairs only
- Single and dual colour gloves available for Class 0
- High dielectric strength, flexible and durable
- Straight style smooth finish gloves
- Sizes 7 12, including half sizes on 8, 9 & 10
- Natural rubber
- Meets ANSI/ASTM D120

TEN can provide a fitting service for your linesmen's gloves and sleeves

Linesman Gloves HV ASTM CLASS 1-4

- Meet ASTM D120 and IEC/EN 60903 standards
- All ASTM voltage classes available
- Dual coloured gloves, internal/external for easy inspection
- Straight Cuff (Bell Cuff and Contour Cuff also available)
- Sizes 7 12*, including half sizes 8, 9 & 10
 (*Excluding Size 7 on Class 3 & 4 and Bell Cuff Gloves)
- Natural rubber
- Meets ANSI/ASTM D120

| Part No | Working Voltage | ASTM Class | Sizes | Glove Colour | Length | ASTM Label Colour |
|----------|--------------------|---------------|--------------|-----------------|-----------|-------------------------|
| E0011R-* | 500VAC | 00 | <i>7</i> -12 | Red | 11"/280mm | Beige |
| E014R-* | 1000VAC | 0 | <i>7</i> -12 | Red | 14"/350mm | Red |
| E014BY-* | 1000VAC | 0 | <i>7</i> -12 | Black/Yellow | 14"/350mm | Red |
| E114YB-* | 7.5kV | 1 | <i>7</i> -12 | Yellow/Black | 14"/350mm | White |

^{*}Specify Size - Example:

E114YB-10: E1 - Class, 14 - Length in inches, YB - Colours yellow/black, Size 10

Straight, Bell and Contour Cuff styles available

Arc Flash Lift Front Hoods - PrismShield 40 Cal/cm²

Part No: LFH40PLT-SPL



Salisbury's revolutionary 40 cal Lift Front Hood combines the PrismShieldTM award winning weight balancing face shield, a transparent chin guard and the standard hood. Lift Front Hood's wider face shield and transparent chin guard more than doubles the vertical peripheral vision of the standard hood.

The Salisbury Lift Front Hood - 40 cal is now available with ground-breaking PrismShield™. PrismShield™ provides full color recognition, making sure workers will set similarly-colored objects apart at all times. It also increases general visibility, especially when working indoors in poorly-lit rooms. A reliable solution from Honeywell to improve color recognition and visibility – with all colors in sight and full safety on site.

- Impoved visibility, vertical peripheral vision field increases by 109% which allows for a clearer view of surroundings.
- Honeywell Salisbury PrismShield™ full color recognition lens.

FIBREGLASS STICKS







Triangular Operating & Measuring Telescopic Sticks with Storage Bag

Part No: MV Series & HV Series

- Open and close switches, EDO's and service fuses
- Replaceable sections, no disassembly tools required
- Fluoro lime green tip section is foam filled
- Tested to ASTM F711 & OSHA
- Kit with Universal Disconnect Hook # P10431 and Storage Bag

MV Series Only:

- o Measure elevated heights
- Supplied in metre/centimetre measuring graduations
- Eye level reading feature with measurement markings in Ige, red numbers
- Markings will not chip, peel or rub off

| Part No | Extended Length | Retracted Length | Base Diameter | Bag Replacement | Weight |
|----------|--------------------|---------------------|------------------|--------------------|--------|
| MV-25-K | 7.8m | 1.6m | 48.5mm | | 3.7kg |
| MV-30-K | 9.2m | 1.7m | 52.6mm | | 4.6kg |
| MV-35-K | 10.6m | 1.7m | 56.4mm | TENM301 | 5.5kg |
| MV-40-K | 12.0m | 1.8m | 60.5mm | | 6.5kg |
| HV-208-K | 2.4m | 0.7m | 44.5mm | TENM308 | 1.4kg |
| HV-212-K | 3.8m | 1.5m | 36.8mm | TENM309 | 1.7kg |
| HV-216-K | 5.0m | 1.5m | 40.9mm | TENM301 | 2.3kg |
| HV-220-K | 6.4m | 1.6m | 44.5mm | TENM301 | 2.9kg |



Replacement Parts

- · No tools are required for replacing, sections sold complete with lock assembly
- Order base cap separately if replacing base section

Fixed & Telescopic Shotgun Sticks

- Full open side hook offers unobstructed view
- Precision cast slide gives complete control and extra firm grip
- Hook release trigger shielded to avoid accidental operation
- Hanger hook moulded into head
- · Foam filled fibreglass main shaft
- Tested to ASTM F711 & OSHA
- Fixed shotguns tested to IEC 60855

Other sizes Available

| Part No | Style | Extended/OAL ¹ | Bag | Weight |
|---------|------------|---------------------------|---------|---------|
| 8104 | Fixed | 1370mm | TENM309 | 0.31 kg |
| 8106 | Fixed | 1980mm | TENM301 | 0.45kg |
| 8108 | Fixed | 2590mm | TENM310 | 0.59kg |
| 81611 | Telescopic | 3350mm | TENM301 | 0.54kg |
| 81811 | Telescopic | 3810mm | TENM310 | 0.59kg |

¹⁻ Lengths which can be locked for operating

Triangular Profile Meter Reading

Round Profile

Asset Inspection

• Fits in a car boot!

Triangular Profile = No Twist

Telescopic Stick

Part No: EX2-1848

- 'No Twist' triangular design enables each section to 'lock in automatically'
- Stick collapses below the lip of EWP bucket (940mm)
- · Sections can be easily removed as required
- All sections easily replaceable no tools required
- · Fluoro green tip section is highly visible and has a foam core
- Ergonomic design gives operator better gripping surface for better control

| Extended Length |
|------------------|
| 4.4m (14.5′) |
| Retracted Length |
| 0.94m |
| Tool Weight |
| 3kg |
| |









Sectional Shotgun Sticks

- Same features as Fixed shotguns
- Select Base & Head then required Extension sections for height

| Part No | Section | Extended/ OAL (mm) |
|---------|-------------|-----------------------|
| 81-706 | Base & Head | 2133 (1828 & 304) |
| 81-604 | Extension | 1219 |
| 81-606 | Extension | 1828 |

FIBREGLASS STICKS & ACCESSORIES

Sectional Stick Kits - Example

Part No: QR-112-4-KIT

| Part No | Description | Qty |
|----------|---|-----|
| 5546-4 | Extension Section | 5 |
| 5553-4 | Base Section with Glued Rubber Base Cap | 1 |
| AD03 | Adaptor Bayonet Aluminium Head | 1 |
| TENM312 | Bag - Sectional Stick Kit | 1 |
| 10-188-1 | Silicone Wipe | 2 |
| 10-090 | Silicone Cloth | 1 |

Tree Trimming Kits

Part No: 4141 & 4142

- For line clearance crews, trouble shooting and emergency call outs
- Complete kit with sticks, rope insulator, cutter, saw & adaptors in carry bag
- Tested to ASTM F711, IEC 60855 & OSHA
- Refer to local network provider procedures for live line use

| Part No | Stick OD | Length of Sections | Maximum Height | Description | Weight |
|---------|----------|-----------------------|-------------------|---------------------|--------|
| 4141 | 32mm | 1.2m | 4.8m | Tree Trimming Kit | 6.8kg |
| 4142 | 32mm | 1.8m | 7.2m | (Refer below table) | 8.6kg |

| Qty i | n Kits | Part No | New Description | |
|-------|--------|---------|-----------------------------------|--|
| 4141 | 4142 | Part No | Item Description | |
| 4 | - | 546-4 | Stick Sectional Extension 1.2m | |
| - | 4 | 546-6 | Stick Sectional Extension 1.8m | |
| 1 | 1 | 4125 | Cutter Tree Pruner 600mm FG | |
| 1 | 1 | A18007 | Base Cap 32mm Female | |
| 1 | 1 | A10012 | Adaptor Male Universal 32mm | |
| 1 | 1 | 4010 | Insulator Link for Rope 1100mm FG | |
| 1 | 1 | P10046 | Universal "S" Hook | |
| 1 | 1 | A11000 | Universal Pruning Saw | |
| 1 | 1 | A10016 | Universal Saw Handle | |
| 1 | 1 | A30007 | Pruning Saw Scabbard | |
| 1 | - | TENM305 | Bag Tree Trim to suit 1.2m | |
| - | 1 | TENM315 | Bag Tree Trim to suit 1.8m | |



Tree Trimming Accessories

| Part No | Description | Details |
|---------|------------------------------|--|
| A11000 | Universal Pruning Saw | Teflon coated, curved blade 400mm, 7 teeth per 25mm |
| A30007 | Pruning Saw Leather Scabbard | For safe storage of Pruning Saw, Heavy duty stitching |

TENM315

TENM305





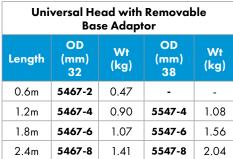
Make Your Own Kit

FIBREGLASS STICKS & ACCESSORIES

Sectional Sticks

- Sectional sticks
- Foam filled tested per OSHA, ASTM F711
- 32mm OD sticks tested to IEC 60855





| Extension Section | | | | | | |
|---|-------|------|--------|------|--|--|
| Length OD Wt OD (mm) 32 (kg) 38 Wt (kg) | | | | | | |
| 0.6m | 546-2 | 0.45 | - | - | | |
| 1.2m | 546-4 | 0.56 | 5546-4 | 0.90 | | |
| 1.8m | 546-6 | 0.93 | 5546-6 | 1.39 | | |
| 2.4m | 546-8 | 1.13 | 5546-8 | 1.87 | | |

| Base Section with Glued Rubber Base Cap | | | | | | |
|---|-------|------|--------|------|--|--|
| Length OD Wt OD (mm) 32 Kg) Wt (kg) Wt (kg) | | | | | | |
| 0.6m | - | - | - | - | | |
| 1.2m | 552-4 | 0.68 | 5553-4 | 0.85 | | |
| 1.8m | 552-6 | 0.90 | 5553-6 | 1.25 | | |
| 2.4m | 552-8 | 1.30 | 5553-8 | 1.64 | | |





P10431 Disconnect Hook





Sectional Stick Kits

- Customised stick kits made to customer specification
- Below are TEN's standard kits

| Individual | B 8 12 | | Kit Part No | |
|-------------------|---|----------|-------------|---------|
| Component Part No | Item Description | TENK020 | TENK021 | TENK026 |
| 546-4 | Stick Sectional Extension 1.2m, 32mm OD | 3 | - | 4 |
| 546-6 | Stick Sectional Extension 1.8m, 32mm OD | - | 3 | - |
| 5467-4 | Stick Sectional, Universal Head, Removable Base Cap, 32mm OD | 1 | - | - |
| A5455-10-PTU | Fuse Extraction Head | - | 1 | 1 |
| A10012 | Adaptor Male Universal Head 32mm | - | 1 | 1 |
| A18007 | Base Cap 32mm Female | - | 1 | 1 |
| A30002 | Hand Guard to Suit 32mm | 1 | 1 | 1 |
| P10431 | Universal Disconnect Hook | - | 1 | 1 |
| A10400 | Universal Disconnect Hook Fluoro | 1 | - | - |
| TENM302 | Bag Sectional Kit, 4 x 1.2m & Acc Pock | 1 | - | 1 |
| TENM306 | Bag Sectional Kit, 4 x 1.8m & Acc Pock | - | 1 | - |
| 10-188-1 | Disposable Silicon Cleaning Wipe | Vipe 2 - | | 2 |
| 10-090 | Silicon Wiping Cloth | 1 | - | 1 |

Adaptors & Base Caps

- Universal head, sectional button type adaptors and base caps
- Suits button extension fibreglass sticks

| lmage | | No. | • | • | | |
|--------------|--|--------|--------|----------|----------|--------|
| Part No | A 10012 | A10025 | A10011 | A10026 | A18007 | A18008 |
| Suits Sticks | 32mmOD | 38mmOD | 32mmOD | 38mmOD | 32mmOD | mmOD38 |
| Description | Male Universal Button Adaptor Female Universal Adaptor | | | Female I | Base Cap | |
| Material | FG, Al Alloy & Plastic | | | | FG & | Rubber |

CLAMP CONNECTORS





No drilling or welding into the rail

BONDING CLAMPS

The Rail Connector range is designed as a permanent connection for Cu conductor to a variety of rails used in Heavy Rail Mass Transit systems.



Constructed using a Heavy Duty Air Craft quality steel spring member, Copper Cable Nest, Indentor, Hex Head Bolt and Locking Nut.

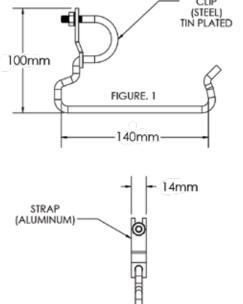
- No need to drill holes in the rail
- No need to weld conductor to the rail
- The rail is not subjected to warping by excessive heat or to weakening by drilling
- Labor Saving-Installation time is 1/6 man hours
- Fewer rail connections required because of the large conductor capacity
- Single conductors up to 1000 MCM
- Dual conductors up to 750 MCM
- Large conductors can be bent away from the rail after installation without the risk of damaging the connector. Unlike Compression type lugs that can crack during this process
- The Clamp is an active spring that applies a consistent force on the conductor ensuring a positive connection through heat cycling and train vibration
- The "J" shaped spring member of the connector helps overcome loosening problems associated with harsh train vibrations by flexing rather than breaking
- Whereas a Static type connection doesn't have this resiliency and could crack under prolonged vibration
- The consistent spring pressure also prevents moisture and contamination from seeping into the connection
- All Copper components are Tin Plated and Steel Components are Galvanised

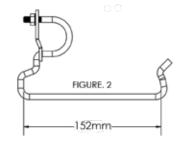
Signal Cable Support Spring Rail Clips

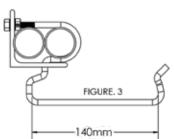
Spring Rail Clips

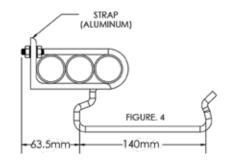
| Part No. | Rail Size & Type Cable OD & Capacity | | Figure# |
|-----------------|--------------------------------------|-------------------------|---------|
| 115-250 | 115 lb AREA | 115 lb AREA 1.25" x 1 | |
| 140-375 | 140 lb AREA | 1.375" x 1 | 2 |
| 115-250-2\$ | 115 lb AREA | 1.095" x 2 - 1.365" x 2 | 3 |
| 115-250-3 | 115 lb AREA | 1.302" x 3 | 4 |
| 100-ARA-B-250-2 | 100 ARA-B | 1.095" x 2 - | 5 |

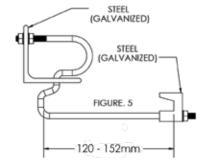
Note: All part numbers are supplied with standard zinc plated kept nuts. Add suffix 'n' to part number to specify a stainless steel nylon insert nut



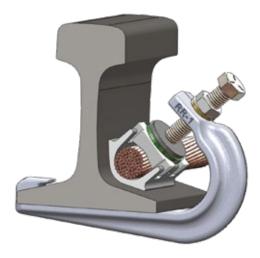












BONDING CLAMPS

Running Rail Connector

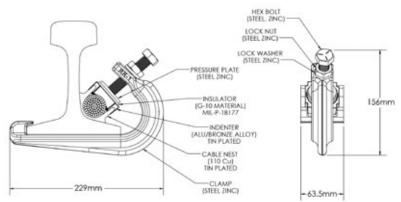
The CPI Running Rail Connector is designed as a permanent connection for Cu conductor to a variety of rails used in Heavy Rail Mass Transit systems.

Constructed using a Heavy Duty Air Craft quality steel spring member, Copper Cable Nest, Indentor, Hex Head Bolt and Locking Nut.

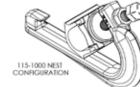
| | Single Conductor Connectors | | | | | | |
|-----------|--|-------------------|--|--|--|--|--|
| Part No. | Part No. Rail Size & Type Conductor Size & Range | | | | | | |
| 115-1000 | 1000MCM - 1250MCM | | | | | | |
| | Two Conductor Connections | | | | | | |
| 115-2-500 | 115 lb AREA | 2250MCM - 2500MCM | | | | | |

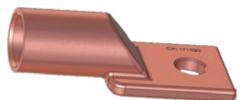
For any rail conductor connection not listed above, consult TEN Group.







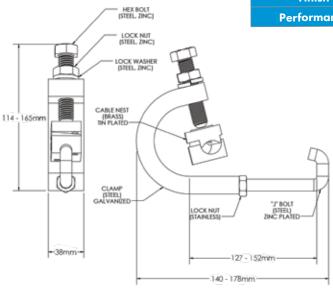


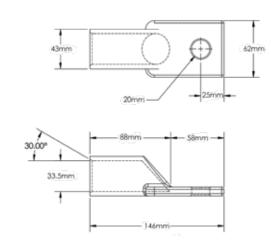


Running Rail Bonding Connector

1000 MCM Heavy Wall Terminal Lug

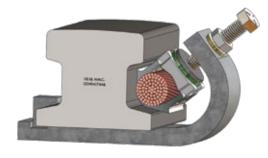
| Part No. | 171320 | | | | |
|-------------|-----------------------------------|--|--|--|--|
| Material | 1/8 Hard DLP Copper Tubing | | | | |
| Capacity | 1000MCM Conductor | | | | |
| Finish | Tin Plated | | | | |
| Performance | UL 486 & NEMA 500 Cycle Standards | | | | |





CLAMP CONNECTORS





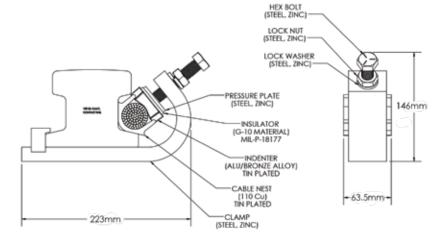
Contact Rail Connector

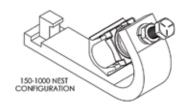
The CPI Contact Rail Connector is designed as a permanent connection for Cu conductor to a variety of rails used in Heavy Rail Mass Transit systems.

Constructed using a Heavy Duty Air Craft quality steel spring member, Copper Cable Nest, Indentor, Hex Head Bolt and Locking Nut.

| Single Conductor Connectors | | | | | |
|---|------------|-------------------|--|--|--|
| Part No. Rail Size & Type Conductor Size & Rang | | | | | |
| 150-1000 | 150lb NMC | 1000MCM | | | |
| 150-2000 | 150lb NMC | 2000MCM | | | |
| Two Conductor Connections | | | | | |
| 150-2-500 | 150 lb NMC | 2250MCM - 2500MCM | | | |

For any rail or conductor combination not listed above, consult TEN Group.







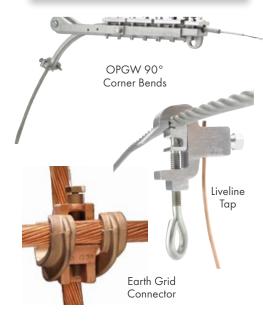




No special tools required for installation



Removable and re-usable with no damage to the conductor





CONDUCTOR CONNECTOR

Wedge Clamps

Wedge Clamp Connectors consist of a spring "C"-Body and wedge combined with a "shear-head" bolt offering a high performance permanent connection that is low resistance, durable and easy to install.

MAINTAINS LOW RESISTANCE CONNECTIONS AT ALL TIMES

The spring body of the connector will flex and maintain a constant force as thermal cycling causes conductors expand and contract.

SIMPLE AND SAFE INSTALLATION

During installation, when proper spring tension is achieved, the shear head bolt will break off giving the installer a positive indication of a correctly completed connection.

The wedge design has become the only leading wedge system that can be installed without specialised tooling, providing a safe and easy installation that reduces or eliminates tooling inventory, maintenance and repair expense.







- Bi-metal Connector
- Utilises the industry-proven Wedge Connecting principle and is quick and easy to apply with a common socket or impact wrench
- The "Spring-Like" qualities of the C-Body ensure permanent connection and maintains consistent pressure on the conductors
- Quick installation over conventional crimp-type or molded joints
- · Liveline installation with hot-stick tools
- For use in all applications including critical high load areas and on overloaded circuits
- May be used in highly corrosive environments including salt laden areas to connect copper conductors
- High-conductivity grit type corrosion inhibitor is factory applied for long life
- Removable and reusable with no damage to conductor
- Remains permanently locked through fault current or power surges
- · Meets or exceeds the current carrying capacity of the conductors being connected
- Complies with AS-NZS 4325 1 1995

| Part No | Style | Main | Bail Rating |
|----------|---------------|-------------------|-------------------|
| 102009 | Wedge Stirrup | 10.515 - 13.258mm | 550Amp |
| 102010 | Wedge Stirrup | 7.416 - 10.109mm | 550Amp |
| 102011 | Wedge Stirrup | 4.114 - 7.416mm | 550Amp |
| 336915-1 | Wedge Stirrup | 14.884 - 18.389mm | 550Amp |
| Part No | Style | Main | Тар |
| 210103 | Wedge | 8.991 - 10.515mm | 5.029 - 5.892mm |
| 210106 | Wedge | 8.991 - 10.515mm | 8.991 - 10.515mm |
| 230107 | Wedge | 11.353 - 12.750mm | 5.029 - 5.892mm |
| 230110 | Wedge | 11.353 - 12.750mm | 8.991 - 10.515mm |
| 230111 | Wedge | 11.353 - 12.750mm | 11.353 - 12.750mm |
| 264113 | Wedge | 12.750 - 14.579mm | 8.991 - 10.515mm |
| 264114 | Wedge | 12.750 - 14.579mm | 11.353 - 12.750mm |
| 264115 | Wedge | 12.750 - 14.579mm | 13.258 - 14.579mm |
| 336012 | Wedge | 16.916 - 18.872mm | 9.347 - 12.750mm |
| 350123 | Wedge | 15.468 - 17.373mm | 13.258 - 14.579mm |
| 556294 | Wedge | 21.742 - 24.206mm | 20.193 - 23.317mm |

Available for ALL Conductor Sizes

07 3212 8999

HAND TOOLS





Adjustable Wrenches

- Wide capacity jaw on sizes 4 24/100-600mm allows each tool to work with more fastener sizes
- Tension spring stabilises jaw and knurl adjusts easily
- Wider handle on sizes 6 12 provides more comfort & less stress on the hand
- Alloy steel and heat treated and plated finish resists rust and corrosion

| Part No | AC26VS | AC28VS | AC210VS | AC212VS | AC215VS | AC218VS |
|----------------|--------|--------|---------|---------|---------|---------|
| Size mm | 150mm | 200mm | 250mm | 300mm | 380mm | 460mm |
| Size Inches | 6″ | 8″ | 10" | 12" | 15" | 18" |



N4G4KT

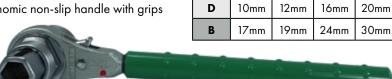
RATCHET PODGERS

4 Way Ratchet Wrench

Part No: BY-3

- Four sizes in one
- Plastic ergonomic non-slip handle with grips

FOUR sizes in ONE





| Part No. (no handle) | Part No with Handle | Size | Hex |
|-------------------------|---------------------|------------|------|
| RRP1317 | RRP1317-H | 13 & 17mm | 12pt |
| RRP1719 | RRP1719-H | 17 & 19mm | 12pt |
| RRP1824 | RRP1824-H | 18 & 24mm | 12pt |
| RRP1921 | RRP1921-H | 19 & 21 mm | 12pt |
| RRP1924 | RRP1924-H | 19 & 24mm | 12pt |
| RRP2124 | RRP2124-H | 21 & 24mm | 12pt |
| RRP2427 | RRP2427-H | 24 & 27mm | 12pt |
| RRP2430 | RRP2430-H | 24 & 30mm | 12pt |
| RRP3032 | RRP3032-H | 30 & 32mm | 12pt |
| RRP3236 | RRP3236-H | 32 & 36mm | 12pt |

Lanyard can be threaded through anchor hole for added safety





| Part No. (no handle) | Part No with Handle | Size | Hex | Length |
|-------------------------|---------------------|------|------|--------|
| RRP36 | RRP36-H | 36mm | 12pt | 450mm |





Plumb Hammers

| Part No | Description | | | | |
|---------|--|--|--|--|--|
| 11400N | Fibreglass Curve Claw Hammer 200z/566g | | | | |
| 11497 | Hickory Ball Pein Hammer 12Oz/340g | | | | |
| 11521 | Hickory Ball Pein Hammer 32Oz/910g | | | | |
| РСН3 | Club Hammer with Fibreglass Handle 3LB | | | | |



Mumme Sledge Hammer

- 10lb Sledge Hammer with 900mm wooden handle
- Forged from tough high tensile carbon manganese steel
- Weight 12.35lb/ 5.6kg
- 970mmL x 185mmW x 140mmD

Mumme Crowbar

- 1650mm Insulated Bar Rubber Coated
- Made from Alloy Steel
- Non-conductive comfortable rubber coated grip bonded to steel 38mmOD
- Weight 13.54lb/ 6.14kg
- 650mmL x 750mmW x 50mmD



Ratcheting Cable Cutter

Part No: 757

- Extra-thick blades, ground flat to reduce potential for breakage
- Ratchet action for increased cutting power
- Two cutting actions fast scissor cutting for small cable converts automatically to ratchet mode
- Anti-slip mechanism for positive ratchet action
- Rubber boot protects ratchet mechanism
- 30mm Al, 25mm ACSR/Cu, 12.7mm Soft Steel Rod
- Weight 5.6kg



Bolt Cutters

- High-leverage jaws with shear-cut blades
- Do NOT cut steel or ACSR
- NOT an insulated tool

| Part No | Length | Tool Weight |
|---------|--------|-------------|
| CJ14 | 350mm | 2.0kg |
| CJ24 | 600mm | 2.5kg |
| CJ36 | 900mm | 6.0kg |



07 3212 8999

HAND TOOLS





RATCHET CUTTERS

Small ACSR Ratcheting Cable Cutter

Part No: 63607

- Cleanly cuts 336 MCM Linnet ACSR and 2/0 triplex steel catenary cable
- High-Leverage ratchet mechanism for single-handed cutting of copper and aluminium cables, leaving no burrs or sharp edges
- Patented two-step ratchet mechanism requires fewer strokes per cut
- Quick-release lever opens blades easily in every cutting position (Allows removal of the cable before completion of cut)
- Handle locks in closed position for storage and transportation



REL-9009

KlauKe

K1062

Breakin Blades? Solution = ACSR Cutters

ACSR Ratcheting Cable Cutter

Part No: REL-9009

- Convenient single handed operation
- Full ratcheting cycle and release in all cutting positions
- Handle locks in closed position for storage and transportation
- Ergonomic rubber handle design to maximise cutting leverage



Part No: K1062

- · Lightweight design with great cutting performance
- One-hand operation
- Effort-saving 2-stage ratchet system
- Non-slip handles
- Not suitable for cutting steel or steel wire



| Part No | | | nsions Max Diameter | Length | Tool |
|----------|------|------|------------------------------|--------|--------|
| Full No | Cu | Al | ACSR / St / Guy | OAL | Weight |
| REL-9009 | 15mm | 18mm | ACSR - 14.7mm, Steel - 4.7mm | 270mm | 0.5kg |
| 63607 | 16mm | 20mm | ACSR - 15mm | 260mm | 0.7kg |
| K1062 | 52mm | 52mm | - | 280mm | 0.7kg |
| REL-35 | 32 | mm | - | 255mm | 0.7kg |



Ratcheting Cable Cutter

Part No: 757

- Extra-thick blades, ground flat to reduce potential for breakage
- Ratchet action for increased cutting power
- Two cutting actions fast scissor cutting for small cable converts automatically to ratchet mode
- · Anti-slip mechanism for positive ratchet action
- Rubber boot protects ratchet mechanism
- 30mm Al, 25mm ACSR/Cu, 12.7mm Soft Steel Rod
- Weight 5.6kg





CABLE PREPARATION TOOLS

Cable Strippers

- Plier type strippers, circular/longitudinal cutting with end ripping blade
- Replaceable cutting blades
- 3 x Circular cutting blades, 1 x Lengthwise cutting blade

| Part No | Insulated | Circular Cut Depth | Lengthwise Cut Depth | Capacity | Weight |
|-----------|-----------|-----------------------|-------------------------|------------|--------|
| PAD12-16A | No | 1.2mm | 1.6mm | 10-45mm OD | 0.75kg |
| PAD30-30A | No | 3mm | 3mm | 10-45mm OD | 0.77kg |
| PAD40-40A | No | 4mm | 4mm | 10-45mm OD | 0.77kg |

Sheath Strippers

| Part No | Suits Cable | Features | Spare Blade Part No. | Wt |
|---------|--------------|---|-------------------------|--------|
| AM1 | 4.5 - 25mm Ø | Circular and longitudinal cutting, auto-tensioning stirrup with cutting depth thumbscrew adjuster, replacement blades inside handle. 135mm long | AM1-B | 0.1kg |
| AM2 | 25 - 36mm Ø | Circular and longitudinal cutting, auto-tensioning stirrup with cutting depth thumbscrew adjuster, replacement blades inside handle. 140mm long | AM2-B | 0.1kg |
| R3840 | 8 - 28mm Ø | Circular and longitudinal cutting, adjustable cutting depth by thumbwheel, replacement blade in handle. 130mm long | - | 0.1 kg |

DERANCOURT





Adjustable Cable Stripper

Part No: US01-7000

Introducing the industry's most versatile, reliable and accurate adjustable tool for mid-span and end stripping on HV and LV utility cables.

- Easily strip mid-span double insulations in one go for direct connection via PG or Wedge Style connector, or strip outer sheath only for insulated piercing connectors (IPC's)
- Adjusts for 12.7mm to 63.5mm cable diameters
- Eliminates the need for traditional stripping knives, reducing the risk of cuts or lacerations
- Heavy duty tool easily removes jacket & various types of insulation materials
- Patent-pending, self-aligning design maintains optimum blade position to produce precise cuts for reliable splices & connections
- Well-balanced tool has low friction parts & ergonomic handles to reduce effort & potential strain from repetitive stripping functions

| Cable Type | | HV and LV Utility Cables | |
|----------------------------|------------|---|--|
| Cable Size | | 12.7 to 63.5mm | |
| Jacket | | URD, PE, PVC, Copper Tape Shield, LC Shield, Flat Strap | |
| Compatible Materials | Insulation | XLPE, PE, EPR | |
| | Mid Span | Yes | |
| Cable Access | End | Yes | |
| Diada Adinatabilita | Angle | Yes | |
| Blade Adjustability Depth | | Yes | |
| Removable Handles | | Yes | |





Blade depth & angle are adjustable for greatest range of applications.

INSULATED HAND TOOLS







Fully Insulated





Fully Insulated

INSULATED HANDTOOLS

1000V Fully Insulated Diagonal Cutters

- Electrician's diagonal cutting pliers
- Fine cutting edges, sharpened for copper wire, cuts semi-hard wire up to 160 Kg/mm²

| Part No | Length | Weight |
|---------|--------|--------|
| D3-180I | 185mm | 0.4kg |

1000V Insulated Pliers - Multigrip

- Sectored multigrip pliers double grooves
- Burnished finish

| Part No | Length | Opening | Weight |
|----------|--------|---------|--------|
| D301-310 | 310mm | 42mm | 0.7kg |

1000V Fully Insulated Pliers - Long Nose

- Long straight-nose half-round pliers
- Fully insulated pliers to limit any risk of short-circuits
- Straight serrated jaws, half-round
- Induction hardened, diagonal cutting edges

| Part No | Length | Weight |
|-----------|--------|--------|
| D22D-160I | 165mm | 0.2kg |
| D22D-200I | 205mm | 0.3kg |

Fully Insulated

1000V Fully Insulated Pliers - Combination

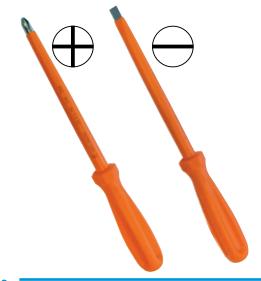
- Combination pliers fully insulated to jaws
- Fully insulated pliers to limit any risk of short-circuits
- Flat end grip with cutter jaw
- Rectangular gripping area, straight serration with tube grip
- Induction hardened, diagonal cutting edges

| Part No | Length | Weight |
|---------|--------|--------|
| D1-180I | 185mm | 0.3kg |
| D1-200I | 205mm | 0.4kg |

1000V Screwdrivers Flat Head/Round Blade

- 1000V insulated conforms to CEI 900, NF EN 60900
- ISO 2380:D23/TB, ISO 8764:CRU/POZI/D63
- Vanadium chrome steel

| Part No | Shaft Length | Width | Wt | Part No | Shaft Length | Width | Wt |
|------------|-----------------|-------|------|------------|-----------------|-------|-------------|
| TB-2.5X50B | 50mm | 2.5mm | 20g | CRU-3X100 | 100mm | 3mm | 45g |
| TB-3.5X100 | 100mm | 3.5mm | 45g | CRU-4X75 | <i>7</i> 5mm | 4mm | 50g |
| TB-4X100 | 100mm | 4mm | 50g | CRU-5X100 | 100mm | 5mm | <i>7</i> 5g |
| TB-5.5X150 | 150mm | 5.5mm | 90g | CRU-6X100 | 100mm | 6mm | 95g |
| TB-6.5X150 | 150mm | 6.5mm | 115g | CRU-6X125 | 125mm | 6mm | 110g |
| TB-8X150 | 150mm | 8mm | 155g | CRU-8X150 | 150mm | 8mm | 155g |
| TB-10X150 | 150mm | 10mm | 220g | CRU-10X200 | 200mm | 10mm | 265g |
| TB-12X200 | 200mm | 12mm | 350g | | | | |









CD8-60-12 CD8-60 - Insulated torque wrench 8-60 Nm



CD8-60R - Insulated torque wrench 8-60 Nm, Reversible drive end.



INSULATED HANDTOOLS

1000V Insulated Torque Wrenches

- For precision tightening
- Automatic release and reset
- Graduated adjustment
- Accuracy 4%
- Torque adjuster locked during use
- Supplied with serial number and verification certificate
- Compliant with standard ISO 6789 & NFX 07-011

| Part No | Length | Drive | Weight |
|------------|--------|-------|--------|
| CD8-60-12 | 310mm | 1/2" | 1.0kg |
| CD8-60R-12 | 310mm | 1/2" | 1.0kg |

1000V Insulated Ratchet Wrench

- 1/2" reversible insulated ratchet wrench
- Vanadium chrome steel
- Unbreakable turnover knob

| Part No | Length | Weight |
|---------|--------|--------|
| C250VM | 250mm | 0.5kg |



R250-250

1000V Insulated Extension

- 1/2" insulated extension
- Vanadium chrome steel
- 1/2" driving square

| Part No | Length | Weight |
|----------|--------|--------|
| R250-250 | 250mm | 0.4kg |





1000V Insulated Shifters - Standard & Fully Insulated

- Adjustable wrenches
- Chrome vanadium steel, easy jaw roller Invisible slip joint

| Part No | Length | Opening | Weight |
|----------|--------|---------|--------|
| D19-250 | 260mm | 28mm | 0.5kg |
| D19-250I | 265mm | 32mm | 0.6kg |



1000V Insulated Offset Ring Wrench

- · Made from forged steel, vanadium chrome steel
- Long handle for powerful tightening
- Easier to remove embedded nuts angled 12 point fine heads
- · Chamfer makes it easier to position the wrench

| Part No | Length | Opening | Weight |
|---------|--------|---------|--------|
| D13-17 | 215mm | 17mm | 0.2kg |

HYDRAULIC CUTTING TOOLS





Intelligent tools that increase productivity

Battery Powered Cutting Tool >20mmOD

Part No: ES-20-LAU

- Extremely robust design and lightweight
- Slim cutting head ideal when space is critical
- Open head, rotatable 330°
- · Easy one-button operating concept for controlling all tooling functions
- Automatic retraction when operation is complete
- LED illuminates work area
- Red LED & acoustic signal in case of failure
- Makita high performance 18V lithium-ion battery, short charging time
- Multifunction LED for maintenance display and data transfer via optional interface and USB adapter
- Includes 18V/1.5Ah Li-Ion Battery, Charger & Heavy Duty Plastic Case

| Cuts | ACSR, Al, Cu, Steel Rope | |
|---------------|----------------------------------|--|
| Cutting Range | >20mmOD | |
| Cutting Force | 23kN/ 2.3 Tonne | |
| Cutting Time | 2 - 4 Seconds depending on cable | |
| Tool Weight | 2.0kg including battery | |

Battery Powered Cutting Tool >32mmOD

Part No: ES-32LAU

- Slim cutting head ideal when space is critical
- Open head, rotatable 330°
- Easy one-button operating concept for controlling all tooling functions
- Automatic retraction when operation is complete
- LED illuminates work area
- Red LED & acoustic signal in case of failure
- Makita high performance 18V lithium-ion battery, short charging time
- Multifunction LED for maintenance display and data transfer via optional interface and USB adapter
- Includes 18V/1.5Ah Li-Ion Battery, Charger & Heavy Duty Plastic Case

| Cuts | Al, Cu | |
|---------------|----------------------------------|--|
| Cutting Range | >32mmOD | |
| Cutting Force | 15kN/ 1.5 Tonne | |
| Cutting Time | 2 - 4 Seconds depending on cable | |
| Tool Weight | 2.0kg including battery | |

Klauke* Signature 15 MINS



Battery Powered Cutting Tool >25mmOD

Part No: ESG-25-LAU

- High-performance cutting for highlyflexible conductors and wire cables
- Extremely robust design and lightweight
- Closed head, flip top style, rotatable 330°
- Easy one-button operating concept for controlling all tooling functions
- Automatic retraction when operation is complete
- LED illuminates work area
- Makita high performance 18V lithiumion battery, short charging time
- Multifunction LED for maintenance display and data transfer via optional interface and USB adapter
- Includes 18V/1.5Ah Li-Ion Battery, Charger & Heavy Duty Plastic Case

| Cuts | ACSR, Al, Cu, Steel | |
|---------------|----------------------------------|--|
| Cutting Range | >25mmOD | |
| Cutting Force | 60kN/ 6 Tonne | |
| Cutting Time | 2 - 4 Seconds depending on cable | |
| Tool Weight | 2.1 kg including battery | |

07 3212 8999









Battery Powered Cutting Tools 6T & 12T

- Closed cutting head with bolt interlock, flip top style, under no pressure rotates 360°
- Electronic control and monitoring of operation
- One-button operating concept for controlling all tooling functions
- Balanced centre of gravity for easy handling and effortless operations
- LED for workplace illumination
- High-performance 18 V Li-Ion battery high capacity, short charging time
- 2-stage hydraulic system with fast feed and power stroke
- Quick motor stop for high user safety
- Automatic retraction when operation is complete
- · Manual retraction in case of need
- Manual retraction stop (MRS) for efficient operations
- Multifunction LED for maintenance display and data transfer via optional interface and USB adapter
- Includes 18V/3.0Ah Li-Ion Battery, Charger & Heavy Duty Plastic Case

| Part Number | ESG-45-LAU | ESG-85-LAU | ESG-105-LAU |
|---------------|---|-------------------------------|-----------------------------|
| Cuts | ACSR, Al, Cu, Armoured, Round Steel 20mmOD | Al, Cu, Light Armoured Al/ Cu | |
| Cutting Range | >45mmOD | >85mmOD | >105mmOD |
| Cutting Force | 60kN/ 6 Tonne | 60kN/ 6 Tonne | 120kN/ 12 Tonne |
| Tool Weight | 5.7kg including battery | 6.6kg including battery | 10.3kg including battery |

Battery Powered Remote Control Cutter

Part No: ES-20-LAU-RC

- All data can be easily read via Bluetooth. Operation can be switched between manual / remote
- Open head, rotatable
- Simple and safe: one-button operating concept for controlling all tool functions
- Effortless operations due to balanced centre of gravity, even when used with a telescopic hot-stick pole
- LED for work area illumination
- Quick motor stop for high user safety
- Automatic retraction when operation is complete
- Manual retract stop (MRS) for efficient operation
- Saves energy: motor stops after the operation
- Always ready-to-use thanks to battery charge and service display
- Simple one-hand control via remote control
- Powerful Makita battery enables longer on-site operation between charges

| Remote Control Battery Hydraulic Cutter Cutting Range Al, Cu,ACSR to max. 20mm dia Cutting Force 23kN Cutting Time 2-4 seconds Cuts between charging Approx. 160 Weight incl. battery 2.0kg Bluetooth range 20m E5-32-LAU-RC Remote Control Battery Hydraulic Cutter Al, Cu to max. 32mm dia | Part No./Description | Data | |
|--|-----------------------|---|--|
| Cutting Force 23kN Cutting Time 2-4 seconds Cuts between charging Approx. 160 Weight incl. battery 2.0kg Bluetooth range 20m ES-32-LAU-RC Remote Control Battery Hydraulic Cutter | ES-20-LAU-RC | Remote Control Battery Hydraulic Cutter | |
| Cutting Time 2-4 seconds Cuts between charging Approx. 160 Weight incl. battery 2.0kg Bluetooth range 20m ES-32-LAU-RC Remote Control Battery Hydraulic Cutter | Cutting Range | Al, Cu,ACSR to max. 20mm dia | |
| Cuts between charging Approx. 160 Weight incl. battery 2.0kg Bluetooth range 20m ES-32-LAU-RC Remote Control Battery Hydraulic Cutter | Cutting Force | 23kN | |
| Weight incl. battery 2.0kg Bluetooth range 20m Remote Control Battery Hydraulic Cutter | Cutting Time | 2-4 seconds | |
| Bluetooth range 20m E5-32-LAU-RC Remote Control Battery Hydraulic Cutter | Cuts between charging | Арргох. 160 | |
| E5-32-LAU-RC Remote Control Battery Hydraulic Cutter | Weight incl. battery | 2.0kg | |
| | Bluetooth range | 20m | |
| Cutting Range Al, Cu to max. 32mm dia | ES-32-LAU-RC | Remote Control Battery Hydraulic Cutter | |
| <u> </u> | Cutting Range | Al, Cu to max. 32mm dia | |

Perfect for

Cutting DropperWires remotely

HYDRAULIC CUTTING & CRIMPING



One head for crimping, cutting and punching one tool for all



Battery Cut, Crimp & Punch Multi Tool

Part No: EK-120UNVC-LAU

- Ideal for field operations all common jobs can be carried out with one tool
- Fast working due to 2-stage hydraulics
- Universal head flip-top style, rotatable 330°
- Electronic control and monitoring of operation
- One-button operating concept for controlling all tooling functions
- LED for workplace illumination
- High-performance 18 V Li-Ion battery high capacity, short charging time
- 2-stage hydraulic system with fast feed and power stroke
- Quick motor stop for high user safety
- Automatic retraction when operation is complete, manual option if needed
- Manual retract stop with "teach-in" (MRS+) for positioning control in case of multiple crimpings
- Multifunction LED for maintenance display and data transfer via optional interface and USB adapter
- Includes 18V/3.0Ah Li-Ion Battery, Adaptor for crimping dies, Charger & Heavy Duty Plastic Case

| Cuts | ASCR, Al, Cu, Armoured, 13mm Steel Rod, 15mm Guy Wire |
|-------------------|---|
| Cutting Range | 40mm |
| Crimping Force | 108kN/ 11 Tonne |
| Crimp range | 400mm² Cu / 300mm² Al |
| Punching Capacity | Up to 144mm round, Up to 138mm x 138mm square |
| Tool Weight | 6.3kg including battery |





| ADAPTERS - Crimping | |
|--|---------|
| Adapter for crimping dies | UA12TKL |
| | |
| Cutting die for Cu/Al conductors, ACSR up to max. 40mmØ | UCACSR |
| Cutting die for Cu/Al conductors without armouring up to max. 26mm \varnothing | UC26 |
| Cutting die for Cu/Al conductors without armouring up to max. 40mm \varnothing | UC40 |
| Cutting die for threaded rods M5 metric | UCM5 |
| Cutting die for threaded rods M6 metric | UCM6 |
| Cutting die for threaded rods M8 metric | UCM8 |
| Cutting die for threaded rods M 10 metric | UCM10 |
| Cutting die for threaded rods M 12 metric | UCM12 |
| Cutting die for threaded rods 1/4" | UCUNC14 |
| Cutting die for threaded rods 3/8" | UCUNC38 |
| Cutting die for threaded rods 1/2" | UCUNC12 |
| Cutting die for DIN rails 35 x 15 | UCD3515 |
| Cutting die for DIN rails 32 x 15 x 9 | UCD3215 |
| Cutting die for DIN rails 35 x 7.5 | UCD3575 |
| Cutting die for DIN rails 2980 | UCN2980 |
| Cutting die for laminated Cu bus bars, max. width 37.5 mm | UCF |
| Cutting die 107mm² type AC for catenary wires in railway construction | UCAC107 |
| Cutting die 85mm² type BC for catenary wires in railway construction | UCBC85 |
| Cutting die 110mm² type BC for catenary wires in railway construction | UCBC110 |
| Cutting die 120mm² type BC for catenary wires in railway construction | UCBC120 |
| Cutting die 150mm² type BC for catenary wires in railway construction | UCBC150 |
| | |
| For round punches up to 144mmØ, 138x138mm and 68x138mm | UA12P |
| Punching die for DIN rails, 35x15, 32x15x9, 35x7.5 | UPD6 |





USB Adaptor - Part No: PGA1

Battery Powered Crimping Tool 12T

Part No: EK-12042-LAU

- C-Head with 42mm opening width and wide crimping range to 400mm²
- Up to 60% less crimping operations compared with 6 Tonne tools
- Easy handling by optimum weight distribution
- Open head, rotatable 360°
- Electronic control and monitoring of operation
- Integrated pressure measurement with visual and audible signals in case of failure
- Evaluation function using optical interface and USB-Adapter
- One-button operating concept for controlling all tooling functions
- Balanced centre of gravity for easy handling and effortless operations
- LED for workplace illumination
- High-performance 18 V Li-Ion battery high capacity, short charging time
- High-performance motor for maximum operating speed
- 2-stage hydraulic system with fast feed and power stroke
- Quick motor stop for high user safety
- Automatic retraction when operation is complete
- · Manual retraction in case of need
- Automatic retraction stop (ARS) for positioning control in case of multiple crimpings
- Multifunction LED for maintenance display and data transfer via optional interface and USB adapter
- Includes 18V/3.0Ah Li-Ion Battery, Charger & Heavy Duty Plastic Case

| Crimps | Cu 400mm, Al 240mm, ACSR 185mm | | | |
|----------------------|--------------------------------|--|--|--|
| Crimping Force | 120kN / 12 Tonne | | | |
| Stroke/Opening Width | 42mm | | | |
| Head Rotation | 360° | | | |
| Tool Weight | 6.8kg including battery | | | |

Allows download of tool crimping data



Battery Powered Crimping Tool 5T

Part No: EK-425-LAU

- One handed ergonomic design with single push button operation
- Suitable for ABC (3 ABC Dies Included) and up to 240mm2 Cu/Al
- Automatic retraction once crimp is completed
- Integrated pressure test with optical and acoustical signal in case of failure
- Autostop function
- LED Light Illuminates working space
- Red LED display and acoustic signal in case of fault
- High performance 18V Lithium-Ion-battery Charges in 22 Mins
- Crimp head rotates 360°
- Multi-functional LED indicates maintenance and battery control
- Manual retraction does not rely on battery power
- Includes 2 x Crimp Head (CJD3BG & CJ22), 3 x ABC Dies, 1 x Cutting Die, 18V/3.0Ah Li-Ion Battery, Charger & Heavy Duty Plastic Case

50kN force in a lightweight tool of only 2.6kg

| Crimps | Cu/Al 240mm², ACSR 185mm² |
|----------------------|-----------------------------|
| Crimping Force | 50kN / 5 Ton |
| Stroke/Opening Width | 40mm |
| Head Rotation | 360° |
| Tool Weight | 2.6kg including battery |
| Crimp Styles | $\forall \bigcirc \bigcirc$ |





CJD3BG CJ22

HYDRAULIC CRIMPING DIES



12 Tonne Dies

Part No: K12-

- Crimping dies to suit hydraulic battery and hand hydraulic 12T "C" type crimpers.
- Commonly referred to as "C" or "U" type dies.
- Dies colour coded to material type.
- Finished A/F diameter marked on die face for easy identification on finished lug or sleeve.





www.tengroup.com.au

12T Crimping Tool EK 12042-LAU

| | | | . /- | | |
|--------------|-----------|-------------------------|-------------|---------------|--------|
| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish |
| K12-04.4-CU | Copper | 6mm ² | 4.4 | 6.5 | Gold |
| K12-05.7-CU | Copper | 10mm ² | 5.7 | 6.5 | Gold |
| K12-06.3-CU | Copper | 16mm ² | 6.3 | 17.5 | Gold |
| K12-07.7-CU | Copper | 25mm ² | 7.7 | 17.5 | Gold |
| K12-08.2-CU | Copper | - | 8.2 | 9 | Gold |
| K12-09.2-CU | Copper | 35mm ² | 9.2 | 17.5 | Gold |
| K12-10.4-CU | Copper | 50mm ² | 10.4 | 17.5 | Gold |
| K12-11.5-CU | Copper | 70mm ² | 11.5 | 17.5 | Gold |
| K12-13.0-CU | Copper | OH 37/.064-19/2.11 | 13.0 | 17.5 | Gold |
| K12-13.2-CU | Copper | OH 19/1.70 | 13.2 | - | Gold |
| K12-14.2-CU | Copper | 95mm ² | 14.2 | 17.5 | Gold |
| K12-14.8-CU | Copper | OH 19/2.00-19/2.11 | 14.8 | 9 | Gold |
| K12-16.5-CU | Copper | 120mm ² | 16.5 | 14 | Gold |
| K12-18.3-CU | Copper | 150mm ² | 18.3 | 14 | Gold |
| K12-19.0-CU | Copper | - | 19.0 | 22 | Gold |
| K12-19.3-CU | Copper | OH 19/2.57 | 19.3 | 14 | Gold |
| K12-20.0-CU | Copper | 185mm² | 20 | 14 | Gold |
| K12-22.0-CU | Copper | - | 22.0 | 10 | Gold |
| K12-23.1-CU | Copper | 240mm ² | 23.1 | 10 | Gold |
| K12-26.0-CU | Copper | 300mm ² | 26.0 | 10 | Gold |
| K12-28.1-CU | Copper | 400mm ² | 28.1 | 10 | Gold |
| K12-09.0-AL | Aluminium | 6-35mm ² | 9.0 | 22 | Silver |
| K12-13.2-AL | Aluminium | 50-70mm ² | 13.2 | 22 | Silver |
| K12-14.0-AL | Aluminium | OH 7/2.25 | 14.0 | 22 | Silver |
| K12-14.5-AL | Aluminium | OH 7/2.50 | 14.5 | 22 | Silver |
| K12-14.8-AL | Aluminium | OH 19/2.00-19/2.11 | 14.8 | 22 | Silver |
| K12-16.6-AL | Aluminium | - | 16.6 | 22 | Silver |
| K12-17.3-AL | Aluminium | 95 - 120mm² | 17.3 | 22 | Silver |
| K12-18.0-AL | Aluminium | OH 7/3.00 to 7/3.75 | 18.0 | 22 | Silver |
| K12-19.0-AL | Aluminium | OH 7/4.50 | 19.0 | 22 | Silver |
| K12-21.0-AL | Aluminium | suits Utilux 150-185mm² | 21.0 | 18 | Silver |
| K12-21.5-AL | Aluminium | - | 21.5 | 18 | Silver |
| K12-22.0-AL | Aluminium | 150-185mm ² | 22.0 | 18 | Silver |
| K12-23.1-AL | Aluminium | - | 23.1 | 18 | Silver |
| K12-24.9-AL | Aluminium | - | 24.9 | 18 | Silver |
| K12-25.4-AL | Aluminium | OH 19/3.75 CABAC | 25.4 | 18 | Silver |
| K12-26.2-AL | Aluminium | OH 19/3.75 Utilux | 26.2 | 18 | Silver |
| K12-28.4-AL | Aluminium | 240-300mm ² | 28.4 | 18 | Silver |
| K12-30.0-AL | Aluminium | - | 30.0 | 18 | Silver |
| K12-30.3-AL | Aluminium | OH 19/4.75 | 30.3 | 18 | Silver |
| K12-14.0-ABC | ABC | 25mm ² | 14.0 | 9 | Black |
| K12-17.3-ABC | ABC | 35-70mm ² | 17.3 | 9 | Black |
| K12-21.5-ABC | ABC | 95-150mm ² | 21.5 | 9 | Black |
| K12-06.8-ST | Steel | Inner Steel ACSR | 6.8 | 10 | Black |
| K12-07.5-ST | Steel | Inner Steel ACSR | 7.5 | 10 | Black |
| K12-09.5-ST | Steel | Inner Steel ACSR | 9.5 | 10 | Black |
| K12-07.5-CS | Cu Screen | - | 7.5 | 16 | Gold |
| K12-12.7-CS | Cu Screen | - | 12.7 | 14 | Gold |
| K12-14.0-CS | Cu Screen | - | 14 | 18 | Gold |



12 Tonne Dies cont

| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish | |
|-----------------|------------------------------|---|-------------|---------------|--------|--|
| K12-09.2-CUOH | Copper | OH 7/2.00-7/2.03 | 9.2 | 9 | Gold | |
| K12-A-INDENT-16 | Aluminium | 120, sector cable, 3 or 4 core | - | - | Silver | |
| K12-A-INDENT-18 | Aluminium | 150-185, sector cable, 3 or 4 core | | | Silver | |
| K12-A-INDENT-19 | Aluminium | 240-300, sector cable, 3 or 4 core | - | - | Silver | |
| K12-ANEST12 | Aluminium | 70-300 sector cable, 3 core | - | - | Silver | |
| K12-ANEST14 | Aluminium | 70-120 sector cable, 4 core | · - - | | Silver | |
| K12-ANEST15 | Aluminium | 185-300 sector cable, 4 core | - | - | Silver | |
| K12-CSFLAT9 | Copper | hex / flat, 9mm crimp width, flat one side | | | | |
| K12-U997 | "C" profile for earth rod | | | - | Gold | |
| K12-UO | | "U" style, UO, compres | sion, Burn | dy | | |
| DUOT | CEC conr | CEC connector, profile C, high fault current capacity, heavy duty | | | | |

60 Tonne Dies

Part No: K60-

- Commonly referred to as "C" or "U" type dies
- Dies marked for easy identification



| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish |
|-------------|-----------|-------------------------|-------------|---------------|--------|
| K60-23.1-CU | Copper | 240mm ² | 23.1 | 25 | Black |
| K60-26.0-CU | Copper | 300mm^2 | 26.0 | 25 | Black |
| K60-28.1-CU | Copper | 400mm ² | 28.1 | 25 | Black |
| K60-31.0-CU | Copper | 500mm ² | 31.0 | 25 | Black |
| K60-37.0-CU | Copper | 630mm ² | 37.0 | 25 | Black |
| K60-43.2-CU | Copper | 800mm ² | 43.2 | 25 | Black |
| K60-48.0-CU | Copper | 1000mm ² | 48.0 | 25 | Black |
| K60-28.3-AL | Aluminium | 240-300mm ² | 28.3 | 50 | Black |
| K60-28.5-AL | Aluminium | - | 28.5 | 50 | Black |
| K60-34.5-AL | Aluminium | - | 34.5 | 50 | Black |
| K60-39.0-AL | Aluminium | 400-500mm ² | 39.0 | 50 | Black |
| K60-40.0-AL | Aluminium | - | 40.0 | 50 | Black |
| K60-43.2-AL | Aluminium | 630mm ² | 43.2 | 50 | Black |
| K60-44.5-AL | Aluminium | - | 44.5 | 50 | Black |
| K60-47.5-AL | Aluminium | - | 47.5 | 45 | Black |
| K60-48.0-AL | Aluminium | - | 48.0 | 45 | Black |
| K60-52.5-AL | Aluminium | 800-1000mm ² | 52.5 | 40 | Black |
| K60-7.5-ST | Steel | - | 7.5 | 19 | Black |
| K60-16.0-ST | Steel | - | 16.0 | 19 | Black |
| K60-17.0-ST | Steel | - | 17.0 | 19 | Black |
| K60-18.0-ST | Steel | - | 18.0 | 19 | Black |
| K60-19.0-ST | Steel | - | 19.0 | 19 | Black |

HYDRAULIC CRIMPING DIES



100 Tonne Dies

Part No: K100-

- Commonly referred to as "Izumi" style dies
- Dies marked for easy identification



| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish |
|---------------|-------------|----------------------------|----------------|---------------|--------|
| K100-60TADAPT | | Die, adaptor | , 100T to suit | 60T dies | |
| K100-21.0-AL | Aluminium | - | 21 | 75 | Black |
| K100-28.5-AL | Aluminium | - | 28.5 | 75 | Black |
| K100-30.0-AL | Aluminium | - | 30 | 75 | Black |
| K100-34.5-AL | Aluminium | - | 34.5 | 75 | Black |
| K100-40.0-AL | Aluminium | - | 40 | 75 | Black |
| K100-44.5-AL | Aluminium | - | 44.5 | 75 | Black |
| K100-47.5-AL | Aluminium | - | 47.5 | 75 | Black |
| K100-48.0-AL | Aluminium | - | 48 | 75 | Black |
| K100-16.0-ST | Steel Inner | - | 16 | 35 | Black |
| K100-17.0-ST | Steel Inner | - | 17 | 35 | Black |
| K100-18.0-ST | Steel Inner | - | 18 | 35 | Black |
| K100-19.0-ST | Steel Inner | - | 19 | 35 | Black |
| K100-20.0-ST | Steel Inner | - | 20 | 35 | Black |
| K100-26.0-ST | Steel Inner | - | 26 | 35 | Black |
| K100-7.5-ST | Steel Inner | - | 7.5 | 35 | Black |

15 Ton (13.5 Tonne) Dies

Part No: K15-

• Dies colour coded for easy identification



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| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish |
|-------------|-----------|-------------------------|-------------|---------------|--------|
| K15-31.0-CU | Copper | 500mm ² | 31.0 | - | Gold |
| K15-37.0-CU | Copper | 630mm ² | 37.0 | - | Gold |
| K15-39.0-AL | Aluminium | 400-500mm ² | 39.0 | - | Silver |

25 Tonne Dies

Part No: K25-

• Dies colour coded for easy identification

| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish |
|-------------|----------------------------------|----------------------------|-------------|---------------|--------|
| AU230-130D | Die, adaptor, 25T, suit 12T dies | | | | |
| K25-28.1-CU | Copper | 400mm ² | 28.1 | 16 | Gold |
| K25-31.0-CU | Copper | 500mm ² | 31.0 | 16 | Gold |
| K25-37.0-CU | Copper | 630mm ² | 37.0 | 16 | Gold |
| K25-30.0-AL | Aluminium | - | 30.0 | 25 | Silver |
| K25-39.0-AL | Aluminium | 400-500mm ² | 39.0 | 25 | Silver |



6 Tonne Dies

Part No: K6-

- Crimping dies to suit 6 Tonne hydraulic battery and hand crimpers (Klauke EK425, EK60UNVCC and HK6022)
- Commonly referred to as "C" or "U" type dies
- Dies colour coded to material type
- Finished A/F diameter marked on die face for easy identification on lug or sleeve.



| Part No | Туре | Conductor Type (mm²) | A/F (mm) | Width (mm) | Finish |
|-------------|-----------|-------------------------|--------------|---------------|--------|
| K6-04.4-CU | Copper | 6mm² | 4.4 | 5 | Gold |
| K6-06.3-CU | Copper | 16mm² | 6.3 | 6 | Gold |
| K6-07.7-CU | Copper | 25mm² | 7.7 | 12 | Gold |
| K6-09.2-CU | Copper | 35mm ² | 9.2 | 12 | Gold |
| K6-10.4-CU | Copper | 50mm ² | 10.4 | 9 | Gold |
| K6-11.5-CU | Copper | 70mm² | 11.5 | 9 | Gold |
| K6-14.2-CU | Copper | 95mm² | 14.2 | 6 | Gold |
| K6-16.5-CU | Copper | 120mm ² | 16.5 | 6 | Gold |
| K6-18.3-CU | Copper | 150mm ² | 18.3 | 5 | Gold |
| K6-20.0-CU | Copper | 185mm² | 20.0 | 5 | Gold |
| K6-23.1-CU | Copper | 240mm ² | 23.1 | 5 | Gold |
| K6-09.0-AL | Aluminium | 10-35mm ² | 9.0 | 12 | Silver |
| K6-13.2-AL | Aluminium | 50-70mm ² | 13.2 | 12 | Silver |
| K6-17.3-AL | Aluminium | 95-120mm ² | 17.3 | 12 | Silver |
| K6-18.0-AL | Aluminium | - | 18.0 | 12 | Silver |
| K6-19.0-AL | Aluminium | - | 19.0 | 12 | Silver |
| K6-22.0-AL | Aluminium | 150-185mm² | 22.0 | 9 | Silver |
| K6-28.4-AL | Aluminium | 240-300mm ² | 28.4 | 5 | Silver |
| K6-14.0-ABC | ABC | 25mm² | 14.0 | 9 | Black |
| K6-17.3-ABC | ABC | 35-70mm ² | 17.3 | 9 | Black |
| K6-21.5-ABC | ABC | 95-150mm² | 21.5 | 9 | Black |
| KD6-27 | ACSI | R Cutting | Max. cut 11. | 1 mm ACSR | Black |

SERVICE & REPAIR



Energy utilities and contractors make large investments in tools and equipment that can cost millions of dollars each year.

Good servicing routine and processes extend the life of tools, minimising unplanned downtime and reducing tool lifetime costs.

Planned maintenance for regular servicing of your tooling also helps reduce repair costs, and improves reliability and productivity.

SERVICING

Servicing tools and equipment extends the useable life of the tool by replacing worn components before a failure or fault occurs. Replacing a low cost seal on a hydraulic tool could be the difference between getting a job done and costly delays. Repairing a damaged tool is almost always more costly than undertaking the regular maintenance and service of the tool.

MAINTENANCE

A regular maintenance schedule allows the utility to plan downtime instead of being forced into unplanned downtime when a tool fails. Service work can be carried out at a time when the tool is not required or there are additional tools available for use. TEN offers loan tools where available and this can all but eliminate any downtime for a depot or truck with only one tool.

When it comes to Maintenance, Servicing and repair requirements for hydraulic tools and equipment you really need to be able to trust that your work is being carried out properly.

HYDRAULIC CUTTING HEADS







Klauke Hydraulic Drive Unit 700bar

Part No: AHP700LC

Remote Hydraulic Cutting Heads

- For specialist cutting requirements in the vicinity of live power lines in the electrical utility and railway industries
- SD cutting heads that allow the operator to remotely cut conductor and tree limbs

ACSR Cutting Head

Part No: SDK20

• Lightweight head for cutting ACSR conductor or steel dropper wires (railway), up to

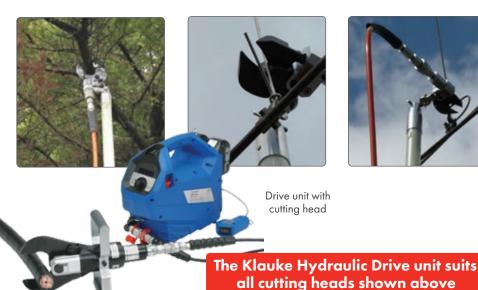
Cu/Al Cutting Head

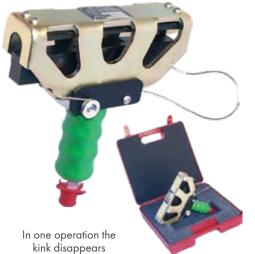
Part No: SDK32

• Lightweight head for cutting copper or aluminium conductor up to 32mm diameter

Wood Cutting Head Part No: SDA50

- A unique lightweight hydraulic head for cutting tree branches
- Reduces the manual exertion required when using mechanical pruners and branch saws
- Greatly reduces the amount of exposed metal when cutting in close proximity to live overhead conductors
- Cuts tree limbs up to 50mm diameter





Hydraulic Kink Remover

Part No: XDH41

The overhead contact wire may have deformations as a result of problems when unwinding the wire or through the use of pulling grips during servicing on the overhead wire. In order to ensure good contact between the contact wire and the pantograph, it is necessary that the contact wire is straight.

The hydraulic kink-remover can be powered by the Klauke Hydraulic Drive Unit AHP700L. The kink-remover can be used on 107sqmm and 150sqmm copper, copper-cadmium, copper-tin and copper-magnesium contact wires.

| Force | 40kN | | |
|--------------------|-------------------|--|--|
| Weight | 3.8kg | | |
| Dimensions | 205 x 205 x 80mm | | |
| Operating Pressure | <i>7</i> 00 Bar | | |
| Carry Case | 310 x 280 x 110mm | | |
| Includes | Quick coupler | | |

HYDRAULIC DRIVE UNIT





Klauke Hydraulic Drive Unit 700bar

Part No: AHP700LC

- · Compact and lightweight design for mobile field application
- Suitable for operating single acting crimping and cutting tools of 700 bar
- · Selector switch for crimping, cutting and punching operations
- Fibreglass reinforced polyamide shock proof housing
- Large display indicates function selection, pressure readings, battery condition and diagnosis information
- Automatic retraction
- Remote control with cable for easy operation
- All high pressure hoses are supplied with coupling plug and coupling sleeve, filled with oil
- Two powerful Makita 3.0Ah,18V Li-Ion batteries
- Cushioned shoulder strap for optimum wearing comfort

1 Pump - Multiple Heads





105mm Armoured Cutting Head Part No SDG 105C



85mm Armoured Cutting Head Part No SDG852C



45mm Armoured Cutting Head Part No SDG45C



85mm Cutting Head ACSR/Steel Part No SDK85C



Cutting Head Part No SDK20P33MC

Crimping



Multi Tools



Multi Head Crimping/Cutting/Punching Part No PK120UNVC

40mm **Cutting Die Part No UCACSR**





12T Die Adaptor **Part No UA12T**

Punch **Adaptor Part No UA12P**







HYDRAULIC PUMPS - JACKS - CYLINDERS





Hand Pump

- Heavy duty, metal construction for durability
- High displacements of oil per stroke
- Adjustable handle effort / dual pivot points
- Low, back saving handle effort
- External adjustable relief valves





Electric & Petrol Pumps

 High performance two-stage pump provides higher crossover pressure for faster cycle times and equipment operation

• Ideal for use with mid to large sized hydraulic cylinders or tools



Max. Pressure: 10000 psi 1st Stage Flow: 400 cu. in. / min. 2nd Stage Flow: 55 cu. in. / min.



Max. Pressure: 10000 psi 1st Stage Flow: 750 cu. in. / min. 2nd Stage Flow: 100 cu. in. / min.



Zila diago riow. 100 co.

Ratchet Jacks

- Double-lever sockets for jacking in close quarters
- Drop-forged, alloy steel, heat treated components
- Plated springs to resist corrosion
- Large base insures a firm foundation
- Supports full rated capacity on the toe or the cap

Toe Jacks

- Self-contained model for maximum versatility
- Low toe heights fit in tight clearances
- The lowest handle effort for easy operation
- The lowest weights for reduced back injuries



- HD internal spring for retract assistance
- Heat treated hardened load cap is standard
- Stop ring for piston blow-out protection
- Plated piston to resist scoring & corrosion
- High flow couplers are plated to resist corrosion
- Rod wiper protects inner cylinder from dirt

Hydraulic Steel Cylinder - Flat Jack

- Plated pistons to reduce scoring & corrosion
- Steel piston for protection against load damage
- Low profile, high tonnage design
- High flow couplers
- Rod wiper protects inner cylinder from dirt

Hydraulic Steel Cylinder - Spring Return

- HD internal spring for fast retract assistance
- Heat treated load caps are standard
- Stop ring for piston blow-out protection
- Plated piston resists scoring & corrosion
- High flow couplers are plated to resist corrosion
- Rod wiper protects inner cylinder from dirt





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TEN MANUFACTURED PRODUCTS



TEN Manufactured Canvas and PVC Products



TEN's range of quality Australian made storage solutions and accessories are industry proven and tested to our stringent quality standards.

A range of options are available including

Australian MADE customised logos, identification numbers and

warning labels.

All our manufactured products use the highest quality materials:



PVC

Australian made 600gsm and 680gsm high tenacity PVC made in a tear stop construction commonly used in extra heavy duty tarpaulins. Tear stop material is specially designed to stop further tearing of a cut or tear in the fabric when it

occurs. The base fabric is lacquer coated for extra protection and dirt resistant. It is also flame retardant, mildew resistant and UV resistant.

Heavy Duty Canvas

Our tear stop canvas has core spun threads woven throughout for added strength and resistance to damage. The canvas is waterproofed during production and it's UV resistance stands up to our harsh Australian climates.

It features excellent shrink and colour control and is completely breathable minimising internal moisture build up. This canvas is made tough and is commonly used in the transport industry.



Natural Loomstate canvas (white) is also used as it is untreated and un-dyed, ideal for the storage and protection of rubber goods.

Webbing & Stitching

The webbing used comes in three grades and is selected in accordance with the storage application and customer requirements;

- 1. Polypropylene webbing strong and lightweight
- 2. Heavy duty polyester webbing (also known as seat belt webbing) is used for its strength

and low elongation under load

3. Military webbing - manufactured in accordance with Australian Defence Force specifications.

Webbing is ideal for support banding and handles, it is light and strong minimising excess weight for the operator. All our stitching patterns and materials are designed to provide maximum strength and resistance to tears improving the durability and longevity of your storage solutions.

High Frequency Welded Seams

TEN now provides high frequency welded seams on selected PVC material bags featuring the water droplet icon. Equipment bags face the toughest Australian conditions exposed to the sun, rain, heat and cold. Sewn seam bags can take on water if water pools on top of seams. By utilising high frequency energy to instantly



heat the thermoplastic coating this enables the two sheets of PVC to be permanently fused together giving a water tight join. Whilst physically not as strong as a sewn seam it does have its own distinct advantages including abrasion resistance at the seam, resistance to thread decay and a neat flush finish.

Quality Assurance

Quality assurance is an integral part of the manufacturing process including the design, materials and processes before all products pass a final quality check and are signed off by TEN staff to IS9001 standards.







RNATIONAL TYAPPROVED TO ZS ISO 9001:2008

SCI QUAL INTERNATIONAL OH&S SYSTEM CERTIFIED TO AS/NZS 4801:2001 REGN Number 3567

INTERNATIONAL IVIRONMENTAL SYSTEM CERTIFIED TO AS/NZS ISO 14001:2004

Safety

Safe Operating procedures are adhered to by all manufacturing team members at TEN, and we are proud of our accreditation to AS4801 Safety Management Systems.

Our safety commitment filters through to the design and applications of our storage solutions. Manual handling issues can be reduced with correctly designed shoulder straps as well as strong handle options. Safety can be increased when sharp tools, pinch points and awkward items are covered or stored with the correct storage solution.



EQUIPMENT BAGS





PVC - Water Resistant Bags

- PVC Equipment Bag
- Designed to carry PPE/ Asbestos gear
- Made from heavy duty PVC (flame retardant, mildew & UV resistant)
- High frequency welded seams provide water resistance
- Internally reinforced base corners
- Velcro waterfall flap over heavy duty double lock easy slide zip
- Webbing handles & bound edges
- Double lock easy slide zip
- Plastic base insert

| Part No | Dimensions (mm) | Weight | Features |
|---------|-----------------------------|--------|---------------------------|
| TENM510 | 740 (L) x 360 (W) x 330 (H) | 2.0kg | Detachable Shoulder Strap |
| TENM516 | 740 (L) x 360 (W) x 330 (H) | 2.0kg | No Shoulder strap |

High frequency welded seams provide water resistance





Plastic base insert

Barrel Bag, PVC

Part No: TENM512

- PVC Equipment bags, red
- Made from heavy duty PVC (flame retardant, mildew & UV resistant)
- Designed to carry PPE
- Weatherstrip over heavy duty double lock easy slide zip
- Webbing handles
- Clear ID pocket on bag exterior

| Dimensions (mm) | Weight |
|-------------------|--------|
| 650 (L) x 380 (Ø) | 0.7kg |



Barrel Bag, Canvas

Part No: TENM506

- Canvas Equipment bags, red
- Made from durable tear stop canvas (UV & mould resistant)
- Designed to carry PPE
- Weatherstrip over heavy duty double lock easy slide zip
- Webbing handles
- Clear ID pocket on bag exterior

| Dimensions (mm) | Weight |
|-------------------|--------|
| 800 (L) × 380 (Ø) | 1.0kg |





when in use

Riggers Pouch - Canvas

Part No: TENM402

- Suits riggers and pole or tower workers
- Made from red durable tear stop canvas (UV & mould resistant)
- Fold back top flap sticks down with velcro to stay in place
- Large side release buckle for harness or belt
- 2 pockets (1 large and 1 small) plus 2 external tool slots on sides
- Webbing straps have heavy-duty quick release buckles
- Bound edges

| Dimensions (mm) | Weight |
|----------------------------|--------|
| 180 (L) x 70 (W) x 300 (H) | 0.2kg |



TENM506





Equipment Bag - PVC

Part No: TENM511

- Made from strong, lightweight 600gsm, tear proof PVC, orange
- Internal document pocket, 3 external box pockets
- Movable compartment walls (velcro)
- Fold over velcro flap
- Webbing handle & bound edges

| Dimensions (mm) | Weight |
|-----------------------------|--------|
| 460 (L) x 290 (H) x 130 (W) | 1.0kg |





Equipment Bag - PVC

Part No: TENM407

- Made from strong, lightweight 600gsm, tear proof PVC, orange
- 6 adjustable internal pockets (velcro)
- Clear internal document pocket (in lid)
- Clear external identity pocket
- Velcro waterfall flap over heavy duty double lock easy slide zip
- Webbing shoulder strap & bound edges

| Dimensions (mm) | Weight |
|-----------------------------|--------|
| 440 (L) × 330 (H) × 230 (W) | 1.5kg |





Earth Bag - PVC

Part No: TENM424

- PVC carry bag, red
- Ideal for Portable Earthing Devices
- Made from heavy duty PVC (flame retardant, mildew & UV resistant)
- Large webbing handles, easy shoulder style carry
- Velcro flap
- 1 divider
- Webbing handles & bound edges

| Dimensions | Divider | Weight |
|-----------------------------|---------|--------|
| 600 (L) x 160 (W) x 600 (H) | 1 | 0.8kg |



TOOL BUCKETS







Part No: TENM206

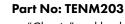
- Oval shaped tool bucket, red
- 14 internal tool pockets, 9 external tool pockets, 1 large with velcro flap
- Made from durable tear stop canvas and webbing
- Detachable webbing shoulder strap and 2 x s/steel gate hooks
- Plastic base insert

| Pockets | Dimensions (mm) | Weight |
|------------------------------------|-----------------------------|--------|
| 14 Internal, 10 External (1 Large) | 400 (L) x 240 (W) x 260 (H) | 1.3kg |

Part No: TENM201

- "Traditional" tool bucket, white
- 2 open, external pockets with bound edges
- · Made from durable loomstate canvas and reinforced webbing
- PVC marine grade internal/external base
- Rope handle, fixed one end and s/steel snap hook the other

| Pockets | Dimensions (mm) | Weight |
|------------|-----------------|--------|
| 2 External | 300 Ø x 350 (H) | 1.0kg |



- "Classic" tool bucket, red
- 2 open, external PVC pockets with bound edges
- Made from durable tear stop canvas and PVC
- Rope handle, fixed one end and s/steel snap hook the other

| Pockets | Dimensions (mm) | Weight |
|------------|-----------------|--------|
| 2 External | 280 Ø x 350 (H) | 1.0kg |



Part No: TENM207

- "Classic" tool bucket, red
- 2 open, external PVC pockets with bound edges
- Made from durable tear stop canvas and PVC
- 2 Rope handles, fixed one end and s/steel snap hook the other
- 2 rope handles make it ideal for hauling, can be hung while detaching the hauling line

2 ropes for easy hauling

| Pockets | Dimensions (mm) | Weight |
|------------|-----------------|--------|
| 2 External | 280 Ø x 350 (H) | 1.0kg |



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GLOVE AND SLEEVE BAGS

Glove Bag - Canvas (LV)

Part No: TENM408

- Traditional loomstate canvas glove bag, white
- Tapered shape
- Velcro flaps and s/steel snap hook to clip to belt
- Bound edges

| Dimensions (mm) | Weight |
|-----------------------------|--------|
| 460 (L) × 200 (W) × 100 (D) | 0.5kg |

Loomstate is an untreated and undyed natural cotton canvas. It is an ideal material to store vital protective rubber goods such as gloves, sleeves and inners.

GLOVE & SLEEVE BAGS





Glove Bag - Canvas 3 Pocket (LV)

Part No: TENM409

- Traditional loomstate canvas glove bag, white
- 3 pockets: for rubber insulating gloves, protective outers and cotton inners
- Velcro flap and s/steel snap hook to clip to belt
- Supplied with identification tag (key tag)
- Bound edges

| Dimensions (mm) | Weight |
|-----------------------------|--------|
| 360 (L) x 170 (W) x 220 (D) | 0.5kg |

Glove & Sleeve Bag - 2 Pocket Canvas (HV)

Part No: TENM410

- Traditional loomstate canvas glove bag, white
- Tapered shape
- Velcro flap and s/steel snap hook to clip to belt
- · Bound edges

| Dimensions (mm) | Weight |
|-----------------------------|--------|
| 640 (L) × 200 (W) × 200 (D) | 0.7kg |

Glove & Sleeve Bag - 3 Pocket Canvas (HV)

Part No: TENM411

- · Traditional loomstate canvas glove bag, white
- Tapered shape
- 3 pockets for rubber insulating gloves, sleeves, protective outer and cotton inner gloves
- Velcro flap and s/steel snap hook to clip to belt
- · Bound edges

| Dimensions (mm) | Weight |
|-----------------------------|--------|
| 700 (L) × 220 (W) × 360 (D) | 1.3kg |

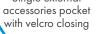
Opening loops and top and side velcro wide opening





Gloves and Sleeves not included





FIBREGLASS STICK BAGS Fibreglass Stick Bag, Singular - PVC

Part No: TENM301

- PVC stick bag
- Made from heavy duty PVC (flame retardant, mildew & UV resistant)
- Opening loops + top & side velcro wide opening allow easy access to stick
- Single external accessories pocket with velcro closing
- Reinforced eyelet at top of bags
- Webbing carry handles
- Bound edges

| Colour | Stick Length | Suits Stick Codes | Weight |
|--------|-----------------|---|--------|
| Red | 1.8m | 8106, HV216 to HV240, MV-25 to MV-40, M-50, SM-30, 81-706 | 1.4kg |

Stick Bag, Sectional Shotgun - PVC

Part No: TENM311

- 8 accessory pockets Some clear PVC pockets for quick ID of contents
- Labelled pockets for copper and aluminium scratch brushes
- Fold bag in half for ease of carrying
- Reinforced eyelets at top of bag, Webbing carry handles, Bound edges
- Holds 2 sticks 1 x 1.8m & 1 x 0.6m
- Weight 1.8kg



HYDRAULIC PULLERS





15kN Hydraulic Puller Part No: ARS200 Series

- Ready for immediate use on site
- Quickly mobilised and placed in working position
- **Full training & Risk Assessment provided**
- Used for overhead stringing and underground cable hauling
- Single rope stringing
- Negative self acting hydraulic brake
- Bull wheels made of wear proof thermally and chemically treated steel
- Hydraulic dynamometer with set point & automatic control of maximum pull
- Built in reel winder with automatic level wind and special reel for 500m of 8mm Ø Rope
- Closed hydraulic circuit for stepless speed variation in both rotating directions
- Cable guide pivot pulley suitable for work in any underground situation
- 12VDC electrical system

Performance:

| Max pull | 15kN |
|--------------------|----------|
| Max speed at pull | 0.7km/hr |
| Max speed | 3.6km/hr |
| Pull at max speed | 4kN |
| Engine Output | 13kW |
| Bull wheel Ø | 200mm |
| Rope Ø | 8mm |
| Weight (No fluids) | 500kg |
| | |

Options:

| Standard Road Trailer |
|-----------------------------------|
| Skid |
| 8mm Dyneema Braided Rope |
| Swivel Guide Rope Roller - ALL111 |



3 Drum Winch Skid Mounted - 35kN

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3 Drum Brake Trailer

ALL 111 Optional Extra Underground Cable

Hydraulic Puller - 15kN

Hydraulic Puller - 35kN

Hydraulic Puller - 50kN Hydraulic Puller-Tensioner - 25kN Hydraulic Puller-Tensioner - 35kN Hydraulic Puller-Tensioner - 45kN

Hydraulic Puller-Tensioner - 90kN 3T Self Loading Cable Trailer

6T Self Loading Cable Trailer 56 Tonne Hydraulic Pole Puller CableGlider Cable Puller

Stringing Rollers **Rolling Earths Reel Winders**

Reel Elevators **Drum Stands & Jacks** Reels & Ropes

Dyneema Fibre Braided Rope

Rope Accessories

Underground Rollers Pumps - Electric

Press Heads - 60T & 110T

TRANSMISSION / DISTRIBUTION / OVERHEAD / UNDERGROUND

www.tengroup.com.au Phone: 07 3212 8999





35kN Hydraulic Puller

Part No: AR\$403 Series

The ARS403 Hydraulic Puller is suitable to string one rope. The bull wheel grooves are made of wear proof thermally treated steel.

- Used for overhead and underground pulling
- Negative self-acting hydraulic brake
- Hydraulic dynamometer with set-point and automatic control of max. pull
- Hydraulic oil cooling system
- Control instruments for hydraulic system and diesel engine
- Rigid axle for towing at max speed of 30km/hr
- Built-in reel winder with automatic level wind, suitable for standard reel BOF010 and BOF020 (AXR001 included)
- Electronic pull and speed recorder kit (instrument not included)
- Pull pre-setting system
- Mechanical front stabiliser
- · Grounding connection point

Hydraulic Transmission

Closed hydraulic circuit for stepless speed variation in both rotating directions.

Underground

AVAILABLE

FOR HIRE

Standard Road Trailer



ALL 111 Swivel guide rope roller



DLR300 Electronic pull and speed recorder

Performance:

| Max pull | 35kN |
|--------------------|----------|
| Max speed at pull | 1.2km/hr |
| Max speed | 3.6km/hr |
| Pull at max speed | 12kN |
| Engine Output | 25kW |
| Bull wheel Ø | 325mm |
| Rope Ø | 13mm |
| Weight (No fluids) | 980kg |
| | |

Options:

| Standard Road Trailer |
|--|
| Mine Spec Road Trailer |
| Site Trailer |
| Pull Recorder - DLR300 |
| U'grd Cable Pulling Attachment - ALL 110 |
| Swivel Guide Rope Roller - ALL 111 |
| Extra Shaft - AXROO1 |
| |



Added safety requirements to meet mine specifications

tandem trailer







and spill kit

ELECTRIC CABLE PULLER





Configures to a variety of power fibre optic and other cable pulling situations





Site Ready Kit



Cable Glider with Conduit Adaptors [08678025]

CAPSTAN WINCH & ELECTRIC CABLE PULLER

CableGlider® Cable Puller Standard Power Pack with Foot Switch

Part No: 08610900AU

CableGlider® Cable Puller Standard Floor/Pole Mount Bracket

Part No: 08674005

The STD Cable Puller offers portability and ease of set-up in a completely self-contained unit to adapt to a variety of pulling situations. It comes equipped with a three-speed removable power pack, providing up to 28.9kN of pulling force at low speed. Speed changes occur with just the turn of a dial.

Design features include a self-tailing capstan for added stability, a pivoting arm and a foot switch for operator convenience and safety. It accepts all diameter rope (self-tailing capstan accepts 16mm to 22 mm rope only).

08674857 CableGlider® Kit includes:

- Puller
- Floor Mount
- External Frame Kit
- Split Fork Adapter
- Conduit Adapters: 51 mm (2"), 76mm (3"), 89mm (3½"), 102mm (4"), 127mm (5"), 152mm (6") Split Conduit Adapters
- 365m x 16mm double braided rope
- Accessories tool box

| PULLING FORCE | Low/Low Speed | Low/High Speed | High/High Speed | | | |
|--|--|---------------------|-----------------|--|--|--|
| Maximum | 28.9kN | 15.6kN | 4.4kN | | | |
| Continuous | Continuous 17.8kN 8.9 | | 1.1kN | | | |
| PULLING SPEED | | | | | | |
| No Load 5.3m/min 12m/min 23.5m/m | | | | | | |
| At 8.9 kN | 4.1m/min 5.7m/min 2.9m/min — 2.1m/min — | | _ | | | |
| At 17.8 kN | | | _ | | | |
| At 26.7 kN | | | _ | | | |
| Power Requirements | | | | | | |
| Power Supply | 230 VAC @ 5 Amps A | ∕in . | | | | |
| PEAK POWER | 4.7 HP (3.5kW) | | | | | |
| GENERATOR | 4000 Watt Recommended | | | | | |
| Capstan | Self tailing, 14cm diameter, 11.2cm width | | | | | |
| Weight | Tool Weight 102kg / | Packed Weight 120kg | | | | |
| Dimensions | Dimensions 147cm L x 69cm W / Max Reach 2m | | | | | |

| Part No | Powerpack | Rope | Floor/Pole Mount Bracket | Conduit Adaptors |
|--------------------------|-----------|--------|-----------------------------|---------------------|
| 08674005 No | | No Yes | | No |
| 08610900AU | Standard | No | No | No |
| 08678025 Standard | | No | No | Yes |
| 08674857 | Standard | Yes | Yes | Yes |

DRUM JACKS & EARTHING





Drum Jacks

- Collapsible design for easy transport and storage
- Significant reduced pinch point
- Reinforced retaining cup for threaded spindle
- Jacks labeled with ratings
- Easy wind up design with handle
- Galvanised finish

| Drum Jack | Spindle OD | Max Drum Diameter | Max Drum Width | WLL | Weight per Set |
|-----------|------------|----------------------|-------------------|--------|-------------------|
| | 34mm | | 1030mm | 1000kg | 60kg |
| TENW002 | 42mm | 1280mm | | | |
| | 60mm | | | | |
| TENW003 | 60mm | 1800mm | 1180mm | 2000kg | 90kg |
| IENW003 | 76mm | | | | |
| TENW004 | 60mm | 2400mm | 1180mm | 3000kg | 165kg |
| TEINWOO4 | 76mm | 240011111 | | | |

Earthing Equipment

- Supplied to customer specifications
- Other components & kits available

Earth Set Kit



TEST EQUIPMENT









Static Discriminator

DC Voltmeter

Part No: RCDCAU

The RCDCAU Digital DC Resistive Voltmeter has a single range of 0-2kV. This unit is designed to measure DC voltage.

The unit consists of a meter probe, second probe and connector cable.

The five position selector switch located on the face, controls OFF, ON, and Test. The OFF positions are for storage and transit. The ON position is for measurements from 0 to 1999 volts with one volt resolution. The T position tests basic meter functions and the digital display.

General purpose meter that can be used in a variety of applications:

- A General Purpose 0 to 2kV DC Digital Voltmeter
- Designed to confirm the status of electrical systems
- Can be used with higher currents than hand-held models
- A large digital lcd display has a backlight for easy reading
- Both the meter probe and secondary probe have threaded end fittings
- The unit includes three adapters: a hook adapter and two straight adapters
- An 8 foot interconnecting cable is also included
- Meter is water resistant and has a strong construction
- Designed to withstand wear
- The unit is contained in a highly durable carrying case with interior padding

DETECTORS

LiveTester Proximity Detector

Part No: LT-220-K

- Audible and visual proximity meter
- Patented ferro electric detector
- Electronic touchpad
- Self test function tests internal circuitry and audio visual features
- · Auto power off
- Operator feedback both audible and visual
- Low battery indication
- Water resistant IP 65 and impact resistant
- All models 50Hz
- Universal/shotgun adaptor
- 3 x "C" size batteries required
- Supplied with canvas protective storage/carry bag

Includes Holster and Integrated Te<u>ster</u>



VOLTAGE DETECTOR

Stray Voltage Detector

Part No: LV-5-K01

The Stray Voltage Detector is used to detect stray voltage as low as 5 volts which may be present on any electrically conductive surface such as street light poles, stay guy wires, transmission poles, meter cans, manhole covers and many other metallic surfaces in and around electrical utilities.

- Low threshold voltage sensing design picks up voltages from 5 VAC to 600 VAC with direct contact and above 600 VAC at a distance
- Ultra bright, long-lasting red LED indicates when voltage is present
- Detector is always on, ready to use, and operates on two AA alkaline batteries (batteries required)
- Rugged, utility-grade design is waterproof
- Tester integrated into the holster provides a visual indication of the test
- IEC CAT IV Rated

Detects stray voltage on public assets

TEST EQUIPMENT





INSPECTION EQUIPMENT

Camera Inspection Kit

Part No: WIP1

TEN's inspection camera kit allows the operator to capture High Definition video and photographs using Wi-Fi technology. Using the GoPro Hero+ it delivers improved image quality and powerful new features geared for versatility and convenience. SuperView™ is a new video mode that captures the world's most immersive wide angle perspective, while Auto Low Light mode intelligently adjusts frame rate for stunning low-light performance. The lightweight unit is completely weather proof and is supplied with adaptors to fit either slot together operating rods or hot sticks with universal fitting such as the Hastings Telescopic Stick allowing remote inspection up to 12 metres.

- GoPro Camera unit in weatherproof, shock proof, non-conductive polycarbonate case
- 1 x Adaptor to fit to fit universal rod
- 1 x Adaptor to fit fibreglass stick
- 2 x USB data & cahrge cable
- 1 x Genuine GoPro Charger with twin outlet
- 1 x POV LED Light



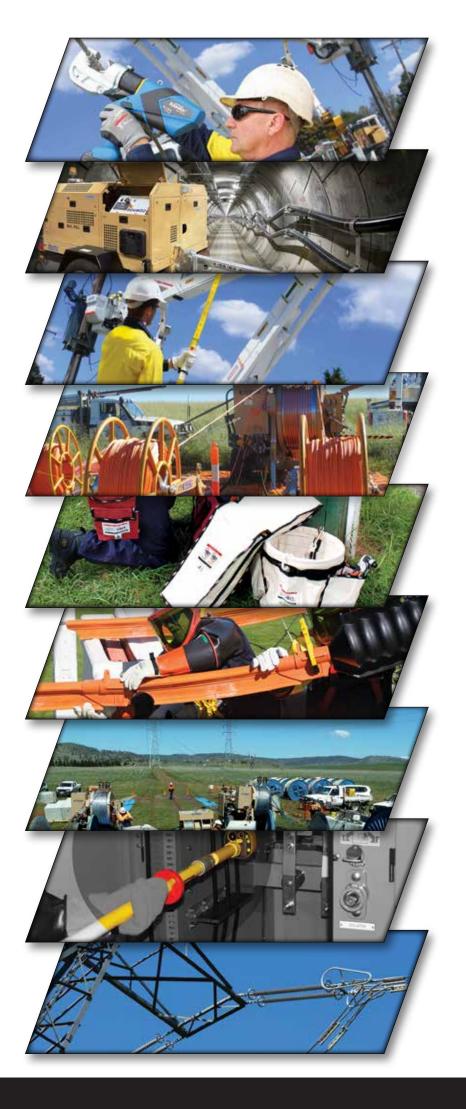
EQUIPMENT TESTERS

Insulator Tester

Part No: IT-4-220P

The Insulator Tester tests energised or de-energised insulators for non-visible internal failures at any AC line voltage. Detect non-visible insulator failures before they cause operations difficulties or safety threats to linesman.

- Universal spline for attachment to a hotstick
- Built-in gigohmmeter applies a current limited 10kVDC potential across an insulator
- Buzzer provides audible warning of bad insulators
- LED scale displays the condition of the insulator being tested
- Powered by an 8VDC rechargeable battery
- Rugged carrying case included
- Lightweight weighs approximately 1.35 kg





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