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# TOOL CATALOGUE

SECOND EDITION

**QUALITY  
COMMITMENT  
RELIABILITY**

[www.transnet.co.nz](http://www.transnet.co.nz)



## TRANSNET NEW ZEALAND LIMITED

At TransNet we offer a large range of products to the Electrical Distribution, Transmission, Rail, OEM and Wholesale Industry. We have the expertise and knowledge to assist with equipment specification as well as providing hands on service and support in the field.

With four stocking distribution facilities in Australasia and 24 hour contact, TransNet is able to offer local support and fast delivery. Your partners in power, we here at TransNet, pride ourselves on the ability to react quickly to any situation and have product to you whenever and wherever you need it.



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## KNIPEX 1000V VDE INSULATED TOOLS

There are over 130 years of experience in each and every KNIPEX plier produced. KNIPEX manufactures over 60,000 pairs a day in Wuppertal Germany and export to all corners of the world.

Each KNIPEX plier is designed and manufactured with a high degree of reliability and subjected to rigorous testing and

design. Using novel methods of power transmission, ergonomic design and fatigue free use, have made KNIPEX the largest plier maker world-wide with over 1300 plier options.



**ISOTOOLS... ► und sicher !**



## ISOTOOLS 1000V VDE INSULATED TOOLS

ISOTOOLS pliers are made from special tool steel, forged and annealed. Cutting edges are induction hardened, for cutting hard and soft wire. Chrome plated head, for long life. High leverage, perfected cutting force. ISOTOOLS have a large selection of 1000V VDE tools which of course also have a

2-coloured-multilayer insulation with phthalate-free PVC handles. Made in Germany according to the latest IEC/EN60900.



**haupa**<sup>®</sup>



## HAUPA 1000V VDE INSULATED TOOLS

Haupa pliers are made with Alloyed carbon steel, forged and annealed. Cutting edges are induction hardened, for cutting hard and soft wire. Chrome plated head for long life. High leverage, perfected cutting force. Pliers are finished with

a 2-component sheathed, non-slip comfort grip handle. 1000V VDE IEC 60900.





## 1000V VDE ADJUSTABLE WRENCHES

### STANDARD 1000V VDE ADJUSTABLE WRENCH

All the 1000V VDE adjustable wrenches in this range have laser etched measuring scales for pre-adjustment and accurate measurements. To ensure the highest quality products, our Friedrich wrenches are made in Germany and the Irega are made in Spain.



#### FEATURES

- Made from a combination of special steel, hardened & tempered
- Finished with 2-layered security dipped insulation
- 1000V, IEC 60900
- Made in Germany

Cat No.	Description	Jaw Opening
762-150	6" - 200MM ADJUSTABLE WRENCH	22MM
762-200	8" - 200MM ADJUSTABLE WRENCH	25MM
762-250	10" - 250MM ADJUSTABLE WRENCH	30MM
762-300	12" - 300MM ADJUSTABLE WRENCH	35MM

#### IMPORTANT NOTICE:

NEVER TOUCH NON-INSULATED PARTS WHILE WORKING ON VOLTAGE INSTALLATIONS!

Adjustable wrenches with insulated handles cannot be standardised, given that the knurl that drives the opening/closing is not insulated.

### SUPER WIDE OPENING JAW 1000V VDE ADJUSTABLE WRENCH

#### FEATURES

- Super-wide opening jaw with increment scales.
- Made from Chrome Vanadium Steel with a three layer insulation dipped handle
- 1000 V, IEC 60900
- Irega - made in Spain



#### IMPORTANT NOTICE:

NEVER TOUCH NON-INSULATED PARTS WHILE WORKING ON VOLTAGE INSTALLATIONS!

Adjustable wrenches with insulated handles cannot be standardised, given that the knurl that drives the opening/closing is not insulated.

Cat No.	Description	Jaw Opening
IG92SWOCP-08	8" - 200MM ADJUSTABLE WRENCH	39MM

### FULLY INSULATED 1000V VDE ADJUSTABLE WRENCH

#### FEATURES

- Fully insulated adjustable wrench with jaw adjustment dial
- Made from alloy hardened steel
- Finished with 2-layered security dipped insulation
- 1000 V, IEC 60900
- Made in Germany



Cat No.	Description	Jaw Opening
269148	8" - 200MM FULLY INSULATED ADJUSTABLE WRENCH	29MM
269162	10" - 250MM FULLY INSULATED ADJUSTABLE WRENCH	34MM

# 1000V VDE COMBINATION PLIERS

## HIGH LEVERAGE COMBINATION PLIERS

These pliers feature fine scored jaws, nut grip, extra long cutting edges and large bearing close to the cutting edge providing 35% less effort to cut. Powerful ergonomic handle design.

### FEATURES

- 1000V VDE dual component handles
- Chrome plated head



Cat No.	Capacity	Length (mm)
KP0206200	13MM DIA, 25MM <sup>2</sup> CU/AL. 2.2MM DIA HARD WIRE	200
KP0206225	14MM DIA, 25MM <sup>2</sup> CU/AL. 2.5MM DIA HARD WIRE	225

## HIGH LEVERAGE COMBINATION PLIERS

### FEATURES

- Extra long cutting edges for round cables
- Scored jaws, nut grip & cutting edge
- Suitable for hard & soft wire



Cat No.	Description	Length (mm)
100-160	1000V VDE PLIERS	160
100-180	1000V VDE HEAVY DUTY PLIERS	185
100-205	1000V VDE HEAVY DUTY PLIERS	205

## COMBINATION PLIERS

### FEATURES

- Alloyed carbon steel
- Oil-hardened
- Cutting edges induction hardened
- Comfort grip
- Suitable for soft and hard wire



Cat No.	Capacity	Length (mm)
211202	4.2MM DIA SOFT WARE, 2.5MM DIA HARD WIRE	200



## 1000V VDE LONG NOSE PLIERS

### LONG NOSE PLIERS WITH CUTTER

#### FEATURES

- 1000V VDE dual component handles
- Chrome plated head
- Fine-scored jaws for pulling and twisting



Cat No.	Capacity	Length (mm)
KP2506160	2.5MM DIA CU/AL. 1.6MM DIA HARD WIRE	160
KP2616200	3.2MM DIA CU/AL. 2.2MM DIA HARD WIRE	200

### 6 IN 1 MULTITOOL

This electrician's or technician's multifunctional tool is a plier, cable shear, crimper, wire stripper, nut grip and more, featuring unique jaw design with a smooth section for delicate work and a scored jaw section for those jobs that require serrated gripping power. Includes handy nut and pipe grip. Tapered rectangular sectional jaws are ideal for looping, forming, bending, pulling, twisting etc.



#### FEATURES

- 1000V VDE dual component handles
- Chrome plated head

Cat No.	Capacity	Length (mm)
KP1386200	STRIPPING HOLES FOR 0.75, 1.5, AND 2.5MM <sup>2</sup> , CRIMP DIES FOR END FERRULES 0.5 - 2.5MM <sup>2</sup> , CABLE SHEAR 15MM DIA CU/AL ONLY	200

### LONG NOSE PLIERS

#### FEATURES

- Serrated jaws, nut grip & wire cutter



Cat No.	Description	Length (mm)
104-200	1000V VDE LONG NOSE PLIERS	200

### LONG NOSE PLIERS

#### FEATURES

- Oil-hardened
- Cutting edges induction hardened
- Side cutter
- Suitable for soft and hard wire



Cat No.	Description	Length (mm)
211208	LONG NOSE PLIER WITH LONG SLENDER SERRATED JAW, NUT GRIP AND WIRE CUTTER	200

# 1000V VDE COMPACT DIAGONAL CUTTING PLIERS

## COMPACT HIGH LEVERAGE DIAGONAL CUTTING PLIERS

Box-joint plier with offset bearing provides 40% less effort to cut.

### FEATURES

- 1000V VDE dual component handles
- Chrome plated head



Cat No.	Capacity	Length (mm)
KP7306160	12MM DIA CU/AL. 2.2MM DIA HARD WIRE	160

## DIAGONAL CUTTING PLIERS



Cat No.	Description	Length (mm)
112-180	1000V VDE DIAGONAL CUTTING PLIERS	180

## DIAGONAL CUTTING PLIERS

### FEATURES

- High alloyed carbon steel
- Oil-hardened
- Cutting edges induction hardened
- Suitable for soft and hard wire



Cat No.	Capacity	Length (mm)
211206	4.0MM DIA SOFT WIRE, 2.3MM DIA HARD WIRE	185



## 1000V VDE HIGH LEVERAGE DIAGONAL CUTTING PLIERS

### HIGH LEVERAGE DIAGONAL CUTTING PLIERS

#### FEATURES

- Integrated forged axle for heavy duty cutting
- Suitable for all types of wire including piano wire
- High cutting performance with minimum effort
- Precision cutting edges additionally induction-hardened
- Chrome vanadium heavy-duty steel, forged, multi stage oil-hardened



Cat No.	Capacity	Length (mm)
KP7406180	3.8MM DIA CU/AL. 2.2MM DIA HARD WIRE	180
KP7406200	4.2MM DIA CU/AL. 2.5MM DIA HARD WIRE	200

### HIGH LEVERAGE DIAGONAL CUTTING PLIERS



Cat No.	Description	Length (mm)
114-205	1000V VDE DIAGONAL CUTTING PLIERS	205

### HIGH LEVERAGE DIAGONAL CUTTING PLIERS

#### FEATURES

- Cutting edges induction hardened
- Chrome plated
- Sheathed handles
- Perfected cutting force performance



Cat No.	Capacity	Length (mm)
211219	4.2MM DIA SOFT WIRE, 3.0MM DIA HARD WIRE	200

# 1000V VDE CABLE SHEARS

## COMPACT CABLE SHEAR

### FEATURES

- 1000V VDE dual component handles
- Chrome plated head
- Precision ground blades for smooth cutting without crushing and deformation of cables



Cat No.	Capacity	Length (mm)
KP9516165	CAPACITY 15MM DIA, 50MM <sup>2</sup> CU/AL	165

## PARROT BEAK CUTTER



Cat No.	Description	Capacity (mm <sup>2</sup> )	Length (mm)
125-240	1000V VDE PARROT BEAK CUTTER - FOR CU/AL ONLY	UP TO 50	240

## KNIPEX TWIN CUT CABLE SHEAR

### FEATURES

- 1000V VDE dual component handles
- Chrome plated head
- Precision ground blades for smooth cutting without crushing and deformation of cables



Cat No.	Capacity	Length (mm)
KP9516200	20MM DIA, 70MM <sup>2</sup> CU/AL	200

## TWIN CUT CABLE SHEAR

### FEATURES

- Precision ground cutting blades
- For Cu/Al only - not suitable for steel cable or hard drawn copper



Cat No.	Description	Capacity	Length (mm)
123	1000V VDE TWIN CUT CABLE SHEAR	20MM DIA., 50MM <sup>2</sup>	200



## 1000V VDE CABLE CUTTER

### FEATURES

- Lightweight high leverage cutting
- 1000V VDE handles
- Blades made from alloy tool steel, induction-hardened and chrome plated for easy cutting and long life



Cat No.	Description	Capacity	Length (mm)
119-500	1000V VDE CABLE CUTTER FOR CU/AL ONLY	27MM DIA, 150MM <sup>2</sup>	500

## 1000V VDE COMPOUND ACTION CABLE CUTTER

### FEATURES

- High leverage cutting power
- 1000V VDE handles
- Blades made from alloy tool steel, induction-hardened and chrome plated for easy cutting and long life



Cat No.	Description	Capacity	Length (mm)
118-600	1000V VDE COMPOUND ACTION CABLE CUTTER FOR CU/AL ONLY	26MM DIA, 150MM <sup>2</sup>	500

## 1000V VDE BOLT CUTTER

### FEATURES

- High leverage design with induction hardened cutting jaws
- Capacity - 11mm max dia.



Cat No.	Description	Length (mm)
130-610	1000V VDE INSULATED BOLT CUTTER	610

## SOFT GRIP SCISSORS

### FEATURES

- 1000V VDE rated
- Fine scored stainless steel jaws
- Inox blades
- 25mm<sup>2</sup> cutting capacity



Cat No.	Description	Length (mm)
200189	1000V VDE SOFT GRIP SCISSORS, 25MM <sup>2</sup> CUTTING CAPACITY	160

# 1000V VDE RATCHET CUTTERS

## INSULATED RATCHET CABLE CUTTERS

Precision ground cutting blades for clean and smooth cuts. Single handed operation with little hand force required due to a high transmission ratio and 2-stage ratchet drive mechanism. 1000V VDE IEC/EN 60900.

### FEATURES

- 1000V VDE dual component handles
- Black lacquered head



Cat No.	Capacity	Length (mm)
KP9536250	32MM DIA 240MM <sup>2</sup> , COPPER AND ALI CUTTING ONLY 500MCM	250
KP9536280	52MM DIA 380MM <sup>2</sup> , COPPER AND ALI CUTTING ONLY 750MCM SUITABLE FOR ALUMINIUM SECTOR CABLE UP TO 4 X 150 MM <sup>2</sup>	280

## INSULATED PARROT BEAK RATCHET CUTTER

### FEATURES

- 2-layer dipped handle insulation
- 1000V VDE IEC/EN 60900



Cat No.	Capacity	Length (mm)
128-310	240MM <sup>2</sup> AL/CU – CUTS STRANDED AND FINE CU/AL WIRE AND CABLE ONLY	310

# 1000V VDE WATER PUMP PLIERS & PLIER WRENCH

## SLIP JAW PLIERS

### FEATURES

- 1000V VDE dual component handles
- Chrome plated head
- Nine adjustment positions
- Powerful slim jaw with box joint design for greater gripping power



Cat No.	Capacity	Length (mm)
KP8806250	UP TO 50MM	200
KP8807300	UP TO 70MM	300



## SLIP JAW PLIERS

### FEATURES

- Box joint design with seven adjustment positions
- Optimised jaw shape will grip pipes, nuts, flat, round, hex stock and more



Cat No.	Capacity	Length (mm)
116-240	UP TO 40MM	250

## COBRA HITECH PUMP PLIER

### FEATURES

- 1000V VDE dual component handles
- Chrome plated head
- Quick set adjust, 24 adjustment positions



Cat No.	Capacity	Length (mm)
KP8726250	UP TO 50MM	250

## PLIER WRENCH

Pliers and a wrench set in a single tool. Excellent for gripping, holding, bending, turning workpieces.

### FEATURES

- 1000V VDE dual component handles
- 19 adjustment positions
- Parallel smooth jaws
- Laser-cut (metric and imperial) scale
- Fast adjustment button
- Chrome vanadium electric steel, forged, oil-hardened



Cat No.	Capacity	Length (mm)
KP8606250	UP TO 52MM	250



## 1000V VDE END-ON WIRE STRIPPERS

### INSULATION WIRE STRIPPER

#### FEATURES

- Spring loaded handles
- Easy stripping adjustment
- Designed for stripping single, multiple and fine stranded wire



Cat No.	Description	Length (mm)
KP1106160	1000V VDE END-ON WIRE STRIPPER, STRIP PVC, PLASTIC AND RUBBER INSULATION UP TO 5.0MM DIA OR 10MM <sup>2</sup> CABLE	160

### INSULATION WIRE STRIPPER

#### FEATURES

- Spring and adjustment screw
- Oil-hardened
- Sheathed handles



Cat No.	Description	Length (mm)
211214	1000V VDE END-ON WIRE STRIPPER. EASY STRIPPING ADJUSTMENT FROM 0.2 - 6MM DIA.	160

## 1000V VDE UTILITY TOOL KIT

The kit contains the four most common pliers made by ISO Tools. Essential tools required for working on the network. Pliers are finished with double dipped insulated handles. Supplied in handy Cordura tool roll for safe keeping. Made in Germany. 1000V VDE IEC 60900.

#### KIT INCLUDES

- 205mm High Leverage Combination Pliers
- 200mm High Leverage Diagonal Cutting Pliers
- 200mm Long Nose Plier
- 250mm Slip Jaw Pliers



Cat No.	Description
TNISO1KVKIT	1000V VDE ISO UTILITY TOOL KIT



## 1000V VDE KNIVES

### KNIPEX CABLE STRIPPING KNIVES



Cat No.	Features	Length (mm)	
		Blade	Overall
KP9852	SAFETY END CAP COVER, 1000V VDE DUAL COMPONENT HANDLE	50	190



Cat No.	Features	Length (mm)	
		Blade	Overall
KP9854	THUMB BLADE PROTECTION, SAFETY END CAP COVER, 1000V VDE DUAL COMPONENT HANDLE	50	190



Cat No.	Features	Length (mm)	
		Blade	Overall
KP9855	PROTECTIVE FOOT, SAFETY END CAP COVER, 1000V VDE DUAL COMPONENT HANDLE	40 (24MM RADIUS)	180

## ISOTOOLS CABLE KNIVES



Cat No.	Features	Length (mm)	
		Blade	Overall
503	1000V VDE, REAR BLADE THUMB GUARD, C/W SAFETY CAP	50	185
505	1000V VDE, HOOKED RECESS CUTTING EDGE, C/W SAFETY CAP	35	185
520	1000V VDE, CURVED BLADE AND REAR BLADE GUARD, C/W SAFETY CAP	35	185
530	1000V VDE, CURVED BLADE AND PROTECTIVE SLITTING FOOT, C/W SAFETY CAP	40	185

## CABLE STRIPPING KNIFE

### FEATURES

- 1000V VDE rated
- Comfort grip handle
- 50mm rigid straight blade
- Protective blade cover included




Cat No.	Description	Length (mm)
200000	1000V VDE CABLE STRIPPING KNIFE	150

## 1000V VDE SCREWDRIVERS

### HAUPA 1000V VDE SCREWDRIVERS

Haupa 1000V VDE screwdrivers feature a powerful ergonomic 2-component handle made from PP/TPE material with a non-slip grip. Easy screwdriver identification with blade type marked on top of the handle. Haupa screwdriver blades are made from Molybdenum vanadium steel and have magnetic tips. Each screwdriver is individually tested as part of the IEC 60900:2004 standards approvals.



Cat No.	Size	Type
101910	2.5MM × 75MM	 FLAT
101912	3.0MM × 100MM	
101914	3.5MM × 100MM	
101916	4.0MM × 100MM	
101918	5.5MM × 125MM	
101920	6.5MM × 150MM	
101922	8.0MM × 175MM	
101924	10.0 MM × 200MM	



Cat No.	Size	Type
101940	PH 0 × 60MM	 PHILLIPS*
101942	PH 1 × 80MM	
101944	PH 2 × 100MM	
101946	PH 3 × 150MM	


\*Anti-camout blades





Cat No.	Size	Type
101950	POZI 0 × 60MM	 POZI
101952	POZI 1 × 80MM	
101954	POZI 2 × 100MM	
101956	POZI 3 × 150MM	








Cat No.	Size	Type
102552	SQ. NO 1 × 100MM	 SQUARE
102554	SQ. NO 2 × 100MM	
102556	SQ. NO 3 × 100MM	

## HAUPA 1000V VDE SCREWDRIVER SETS

### FEATURES

- Injected blade profile on top of the handle for fast access in the tool pouch and tool box
- Magnetic blades
- Additional anti-slip protection on Phillips profiles prevents the tool from slipping out of the screw
- Silver tips protect from corrosion



Cat No.	Description	Type
101999/Z1	6PC 1000V VDE SET WITH SQ 1, 2, POZI 1, 2, AND 3.5MM, 6.5MM SLOTTED	  
101999	6PC 1000V VDE SET WITH 2.5, 4.0, 5.5, 6.5MM SLOTTED, PH1, PH2	 





## HAUPA 1000V VDE SLIM SCREWDRIVER SETS

These screwdrivers feature a reduced blade diameter and integrated protective insulation. Extra-thin shaft insulation for those limited access areas.

### FEATURES

- Extra slim blades
- 2 component handles made from PP/TPE material
- Blades made from molybdenum vanadium steel, hardened and blasted tips



Cat No.	Description	Type
102999	6PC SLIM PROFILE 1000V VDE SET WITH 3.5, 4.0, 5.5, 6.5MM SLOTTED, AND PH1, PH2	 
102999/PZ	6PC SLIM PROFILE 1000V VDE SET WITH 3.5, 4.0, 5.5, 6.5MM SLOTTED, AND POZI 1, 2	 

## HAUPA 1000V VDE SLIM CIRCUIT BREAKER SCREWDRIVER SETS

These screwdrivers feature a reduced blade diameter and integrated protective insulation. Deep screwing can be achieved to a better standard thanks to the reduced blade diameter.



### FEATURES

- 2 component handles made from PP/TPE material
- Molybdenum vanadium steel blades that have been hardened, blasted, routine checked & insulated
- Suitable for use in automatic circuit breakers and safety switches in electrical installations



Cat No.	Square Drive VDE Screwdrivers	Type
102879	2PC PZ/SLOT SET WITH POZI/SLOT 5.0MM - PZ 1 AND 6.0MM - PZ 2	

## HAUPA VARIO TQ 1000V VDE SCREWDRIVER SETS

These VarioTQ 1000V VDE dynamometric screwdriver sets feature interchangeable blades, and include torque settable handles with a clear perceptible and auditable signal when correct torque value is achieved.

### FEATURES

- Insulated replaceable blade made from molybdenum vanadium steel, hardened, blasted, with hexagonal shaft
- Kits supplied in robust nylon bag (with belt loop and hook and loop closure)
- Additional blade options on request



Cat No.	Description	Torque Range (Nm)	Type
102700/Z1	1000V VDE SET – BLADES INCLUDE 2 × PH, 2 × PZ, 2 × SQ	1-6	
102701	1000V VDE SET– BLADES INCLUDE 5 × SLOTTED, 3 × PH, 2 × PZ/SLOT	0.5-3.5	
102701/PZ	1000V VDE SET – BLADES INCLUDE 5 × SLOTTED, 3 × PZ, 2 × PZ/SLOT	0.5-3.5	
102708/PZ	1000V VDE SET – BLADES INCLUDE 2 × SLOTTED, 2 × PZ, 2 × SQ	1-6	



## 1000V VDE SOCKETRY

### 1/2" DRIVE VDE SOCKETS



Cat No.	Insulated Sockets 6 point - 55mm long	Type
316-8	1/2" DR X 8MM	1/2"
316-9	1/2" DR X 9MM	
316-10	1/2" DR X 10MM	
316-11	1/2" DR X 11MM	
316-12	1/2" DR X 12MM	
316-13	1/2" DR X 13MM	
316-14	1/2" DR X 14MM	
316-15	1/2" DR X 15MM	
316-16	1/2" DR X 16MM	
316-17	1/2" DR X 17MM	
316-18	1/2" DR X 18MM	
316-19	1/2" DR X 19MM	
316-21	1/2" DR X 21MM	
316-22	1/2" DR X 22MM	
316-24	1/2" DR X 24MM	
316-27	1/2" DR X 27MM	
316-30	1/2" DR X 30MM	
316-32	1/2" DR X 32MM	

### INSULATED DEEP SOCKETS



Cat No.	Insulated Deep Sockets 6 point - 80mm long	Type
321-8	1/2" DR X 8MM	1/2"
321-10	1/2" DR X 10MM	
321-11	1/2" DR X 11MM	
321-12	1/2" DR X 12MM	
321-13	1/2" DR X 13MM	
321-14	1/2" DR X 14MM	
321-15	1/2" DR X 15MM	
321-16	1/2" DR X 16MM	
321-17	1/2" DR X 17MM	
321-18	1/2" DR X 18MM	
321-19	1/2" DR X 19MM	
321-21	1/2" DR X 21MM	
321-22	1/2" DR X 22MM	
321-23	1/2" DR X 23MM	
321-24	1/2" DR X 24MM	
321-27	1/2" DR X 27MM	
321-30	1/2" DR X 30MM	
321-32	1/2" DR X 32MM	

### INSULATED INHEX SOCKETS



Cat No.	Insulated Inhex Sockets - 100mm long	Type
IT/355/4MM100	1/2" DRIVE x 4MM	1/2"
IT/355/5MM100	1/2" DRIVE x 5MM	
IT/355/6MM100	1/2" DRIVE x 6MM	
IT/355/8MM100	1/2" DRIVE x 8MM	
IT/355/10MM100	1/2" DRIVE x 10MM	



## INSULATED RATCHETS

### FEATURES

- Lock-on and quick release socket drive
- 1000V VDE insulated



Cat No.	Description	Length (mm)	Type
360494	1/2" DRIVE 1000V VDE INSULATED RATCHET	260	1/2"



Cat No.	Description	Length (mm)	Type
280-260	1/2" DRIVE 1000V VDE INSULATED RATCHET	260	1/2"

## INSULATED EXTENSION BARS

### FEATURES

- 1/2" drive
- Socket can be mechanically locked onto the extension bar



Cat No.	Description	Length (mm)	Type
310-125	1/2" DRIVE × 125MM EXTENSION BAR	125	1/2"
310-250	1/2" DRIVE × 250MM EXTENSION BAR	250	

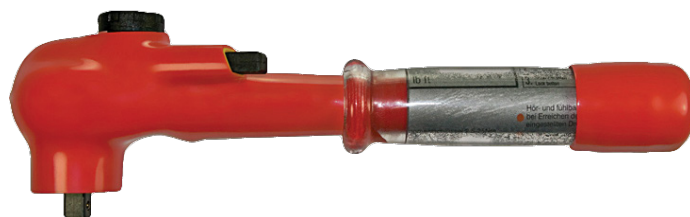
# 1000V VDE TORQUE WRENCHES

## ISOTOOLS INSULATED TORQUE WRENCHES

Built in reversible ratchet with mechanically locked drive. Torque set for clockwise tightening only. Easy read scale. Lockable torque adjustment. Accuracy  $\pm 4\%$ . ISO Tools torque wrenches are supplied with test certificates.

### FEATURES

- Patented secure lock-on socket holding mechanism
- Reversible ratchet head



Cat No.	Description	Torque Range (Nm)	Length (mm)	Type
308-05-50	1/2" DRIVE 1000V VDE TORQUE WRENCH	5 - 50 NM	370	1/2"
308-20-100	1/2" DRIVE 1000V VDE TORQUE WRENCH	20 - 100 NM	460	

## KNIPEX INSULATED TORQUE WRENCHES

### FEATURES

- Mechanical locked socket drive retaining system
- Reversible ratchet head with push through socket drive
- Wrench can torque clockwise or counter clockwise, by inverting the socket drive
- Lockable torque adjustment
- Mechanically locked retaining system
- Transparent insulated scale range. Accuracy  $\pm 3\%$
- Chrome Vanadium steel
- KNIPEX torque wrenches supplied with test certificate and plastic storage tube



Cat No.	Description	Torque Range - Dual Scale		Length (mm)	Type
		Nm	lbf-ft		
KP983325	3/8" DRIVE 1000V VDE TORQUE WRENCH	5 - 25 NM	5 - 18 LBF.FT	290	3/8"
KP983350	3/8" DRIVE 1000V VDE TORQUE WRENCH	5 - 50 NM	5 - 35 LBF.FT	385	
KP984350	1/2" DRIVE 1000V VDE TORQUE WRENCH	5 - 50 NM	5 - 35 LBF.FT	385	1/2"

# 1000V VDE SOCKET SETS

Made from Chrome vanadium steel, chrome plated with 2-layer safety dipped insulation. Made and tested in accordance to the IEC 60900 VDE Standards.

## 3/8" DRIVE 7 PIECE 1000V VDE SOCKET SET

### FEATURES

- 1 reversible ratchet 200 mm
- 5 sockets 3/8", 10, 12, 13, 14, 17mm
- 1 extension bar 125mm
- Supplied in plastic storage case with foam inlay

Cat No.	Description	Type
TN251457	3/8" DRIVE 7PC METRIC 1000V VDE SOCKET SET 10 - 17MM	3/8"



## 3/8" DRIVE 14 PIECE 1000V VDE SOCKET SET

### FEATURES

- 1 reversible ratchet 200mm
- 1 T-handle, 200mm
- 2 extensions bars, 125 and 250mm
- 7 sockets, 8, 10, 11, 13, 14, 17, 19mm
- 3 inside hex. sockets, 4, 5, 6mm
- Supplied in plastic storage case with foam inlay

Cat No.	Description	Type
TN251495	3/8" DRIVE 14PC METRIC 1000V VDE SOCKET SET 8 - 19MM	3/8"



## 1/2" DRIVE 9 PIECE 1000V VDE SOCKET SET

### FEATURES

- 1 reversible ratchet, quick release 260 mm
- 1 extension bar, 125mm
- 7 sockets 10, 11, 12, 13, 14, 17, 19mm
- Supplied in plastic storage case with foam inlay

Cat No.	Description	Type
TN250900	1/2" DRIVE 9PC METRIC 1000V VDE SOCKET SET 10 - 19MM	1/2"







## 1/2" DRIVE 16 PIECE 1000V VDE SOCKET SET

### FEATURES

- 1 reversible ratchet, quick release 260mm
- 1 T-handle 200mm
- 8 sockets, 10, 13, 14, 17, 19, 22, 24, 27mm
- 2 extension bars, 125 and 250mm
- 3 inside hex. sockets, 5, 6, 8mm
- 1 screwdriver 3.5mm x 100mm
- Supplied in plastic storage case with foam inlay

Cat No.	Description	Type
TN251600	1/2" DRIVE 16PC METRIC 1000V VDE SOCKET SET 10 - 27MM	1/2"



## 1/2" DRIVE 15 PIECE 1000V VDE SOCKET SET

### FEATURES

- 1 reversible ratchet 260mm
- 1 T-handle 200mm
- 8 sockets 10, 12, 13, 14, 17, 19, 22, 24mm
- 2 extensions bars 125 and 250mm
- 3 hexagon sockets 5, 6, 8mm
- Supplied in plastic storage case with foam inlay

Cat No.	Description	Type
916	1/2" DRIVE 15PC 1000V VDE SOCKET SET 10 - 24MM	1/2"



## 26 PIECE 1000V VDE COMBINATION SET

### FEATURES

- 1 combination plier 200mm
- 1 long nose plier 200mm
- 1 side cutter 160mm
- 7 open end spanners 10, 11, 12, 13, 14, 17 and 19mm
- 1 reversible ratchet 1/2" - 260mm
- 1 extension bar 1/2" - 250mm
- 7 pcs. 6 point sockets 1/2" x 10, 11, 12, 13, 14, 17, 19mm
- 4 screwdrivers for slotted screws 3.5 x 100, 5.5 x 125, 6.5 x 150, 8.0 x 175mm
- 1 cable knife
- 1 insulation stripping knife for plastic cables 35mm blade
- 1 voltmeter 150-250V
- Supplied in plastic storage case with foam inlay

Cat No.	Description	Type
900	1/2" DRIVE 26PC 1000V VDE TOOL SET	1/2"



# 1000V VDE RATCHET WRENCHES

## RATCHET WRENCH SET

### FEATURES

- Ratchet wrenches with double layer safety insulation.
- 2-layer safety quickcheck
- Supplied in plastic storage case with foam inlay tray

### SET CONTAINS

- 6 ratchet wrenches - 10, 11, 12, 13, 14, 17 mm



Cat No.	Description
279017	6PC RATCHET WRENCH SET 10 - 17MM

## 1000V VDE INSULATED RATCHET WRENCH

- For use with all shear bolt connectors (IPCs and Fuse Carriers)
- 13mm and 17mm A/F sockets in one spanner
- Reversible ratchet
- Fits stainless steel nuts used in strain and suspension clamps
- Fixed sockets that can not be lost or dropped during installation
- 1000V insulated for added user safety
- 6 sided hex sockets protect integrity of plastic bolt heads



Cat No.	Description
IRW13/17	INSULATED RATCHET SPANNER 13 & 17MM SOCKETS



## 1000V VDE WRENCHES

Chrome vanadium steel, chrome plated with 2-layer safety dipped insulation. Made and tested in accordance to the IEC 60900 VDE Standards.

### OPEN END WRENCHES



Cat No.	Size
200-06	6MM X 105MM
200-07	7MM X 105MM
200-08	8MM X 105MM
200-09	9MM X 105MM
200-10	10MM X 105MM
200-11	11MM X 115MM
200-12	12MM X 125MM
200-13	13MM X 130MM
200-14	14MM X 145MM
200-15	15MM X 155MM
200-16	16MM X 160MM
200-17	17MM X 160MM
200-18	18MM X 170MM
200-19	19MM X 175MM
200-22	22MM X 200MM
200-24	24MM X 225MM

### OFFSET RING WRENCHES



Cat No.	Size
210-6	6MM X 140MM
210-7	7MM X 140MM
210-8	8MM X 140MM
210-9	9MM X 140MM
210-10	10MM X 165MM
210-11	11MM X 175MM
210-12	12MM X 185MM
210-13	13MM X 195MM
210-14	14MM X 200MM
210-15	15MM X 205MM
210-16	16MM X 205MM
210-17	17MM X 210MM
210-18	18MM X 220MM
210-19	19MM X 230MM
210-22	22MM X 250MM
210-24	24MM X 260MM

### RATCHET RING WRENCHES



Cat No.	Size
TN279109	10MM X 135MM
TN279116	11MM X 135MM
TN279123	12MM X 140MM
TN279130	13MM X 140MM
TN279147	14MM X 150MM
TN279154	15MM X 150MM
TN279161	16MM X 160MM
TN279178	17MM X 160MM
TN279185	18MM X 180MM
TN279192	19MM X 180MM

### ALLEN KEY T-BAR



Cat No.	Size
IT/360/3MM	3MM X 120MM
IT/360/4MM	4MM X 160MM
IT/360/5MM	5MM X 160MM
IT/360/6MM	6MM X 160MM
IT/360/8MM	8MM X 160MM

## VDE TOOLKITS

### APPRENTICE PACK

#### KIT CONTAINS

- 1000V combination pliers
- 1000V heavy duty diagonal cutters
- 1000V long nose pliers
- 1000V cable stripper
- 1000V 3mm flat screwdriver
- 1000V 5.5mm flat screwdriver
- No2 Philips screwdriver
- No2 Pozi screwdriver
- No2 square screwdriver
- Cable stripping knife
- 5m Tape
- Toolbelt
- Non-contact volt stick



Cat No.	Description
TNAPPKIT-1KV	13PC APPRENTICE PACK 1000V VDE TOOLS

## CABLE JOINTING KITS



These kits are suited to jointing cables on LV and MV networks. Prepared by Cable Joiners for Cable Joiners they are packed in a custom made canvas tool roll to keep the tool insulation protected, with a range of tools specific to preparing and terminating cables. To make this kit even more specific to MV and HV applications you can add any of the MV specific stripping tools we offer.

All insulated tools in these kits are tested in accordance with IEC 60900:2004 and are rated to 1000V. The double insulation layer offers a visual confirmation of the integrity of the insulation as the inner layer is yellow and the outer layer is red, any damage will be obvious during visual inspections.

Additional tools can be purchased separately if desired, the range is extensive and we understand personal preference is important with Cable Jointing.

**BASICJOINTKIT2** - 13 tools including hack knife, sockets, wedges, hacksaws and reversible ratchet

**BASICJOINTKIT1** - 16 tools including all of the BASICJOINTKIT2 tools as well as allen key T-bar, cutters and pliers

**CABLEJOINTINGKIT** - The ultimate kit, 25 tools in all, this kit includes the tools in the BASICJOINTKIT1 as well as a ruler, hammer, knives, additional pliers, cutters and allen key sockets

Cat No.	Description
CABLEJOINTINGKIT	CABLE JOINTER 1000V VDE TOOL KIT HOUSED IN A HANDY CANVAS TOOL ROLL, ULTIMATE
BASICJOINTKIT1	CABLE JOINTER 1000V VDE TOOL KIT HOUSED IN A HANDY CANVAS TOOL ROLL, LARGE
BASICJOINTKIT2	CABLE JOINTER 1000V VDE TOOL KIT HOUSED IN A HANDY CANVAS TOOL ROLL, SMALL



## ELECTRIC VEHICLE SERVICE KITS



EVC-SAFETY-KIT

### EVC-SAFETY-KIT

- Haupa safety set with bag and mat
- Salisbury Leather overgloves, size 10.5
- Salisbury cotton glove liner
- Salisbury 5oz bottle of glove powder
- Rubber glove testing
- Insulated rescue hook
- CAT IV, 1000V voltage tester
- 650V mat 1.2m long X 375mm drops either side
- Bent nose insulating plier
- Black/Yellow plastic telescopic barrier poles
- Road cones 70mm high
- High Voltage Sign 450x300mm PVC
- Storage bag 1450x 250x250mm

### EVC-SERVICE-KIT

This service kit includes a range of safety accessories and tools.

- 2C-VDE electrician's screwdrivers
- 2.5 x 75, 3 x 100, 3.5 x 100, 4 x 100 mm
- 2C-VDE cross slotted screwdrivers PH 1, 2, 3
- 2C-VDE cross slotted screwdrivers S-Tx 20, 25, 30
- Hexagon sockets VDE 3/8"
- WS 8, 9, 10, 12, 13, 14, 17, 19, 22



EVC-SERVICE-KIT

- Extension 3/8" VDE, 250 mm
- Reversible ratchet VDE 3/8"
- Water pump pliers VDE 240 mm
- Cable cutters VDE 230 mm
- Side heavy duty side cutters VDE 205 mm
- Side cutters VDE 165 mm
- Short flat nose pliers VDE 160 mm
- Long chain nose pliers, angled nose 200 mm
- Combination pliers VDE 205 mm
- Cable stripping knife 1000V, straight blade, 50 mm
- Safety-sets with bag, insulating mat
- Slip on bushes 1000V, 12 mm
- Slip on bushes 1000V, 10 mm
- VDE-sockets 3/8", M8, M10, M12
- Shutting band red / white 500 m
- Sign - "Dangerous Voltage"
- Sign - "Do No Switch"
- 6 x Orange Cones
- 5 x Yellow/Black adjustable barriers
- LV safety hook
- Glove bag
- Glove Powder
- Cotton glove liners
- Testing of rubber gloves

Cat No.	Description
EVC-SERVICE-KIT	EV SERVICING KIT
EVC-SAFETY-KIT	EV SERVICING SAFETY KIT ONLY

## CABLE CUTTERS

### HAND CABLE CUTTERS



#110/1

Small single hand operated parrot beak cutter, ideal for general applications. Precision blades make this tool ideal for cutting flexible Copper cables . Capacity 6 - 70mm<sup>2</sup> Cu/Al only.



#144/1

Parrot beak style cable cutter for Copper and Aluminium conductors. Capacity up to 125mm<sup>2</sup> Cu/Al only.

Cat No.	Range (mm <sup>2</sup> )	Description	Length (mm)	Weight
#110/1	6-70	PARROT BEAK CUTTER	240	460G
#144/1	UP TO 125	PARROT BEAK CUTTER, SPARE BLADES AVAILABLE	300	700G



#140/1

Parrot beak style cable cutter for Copper and Aluminium conductors. Replacement blades available. Not for use with steel core conductors. Capacity up to 240mm<sup>2</sup> Cu/Al only.



#141/1

Parrot beak style cable cutter for Copper and Aluminium conductors. Replacement blades available. Not for use with Steel core conductors. Capacity up to 500mm<sup>2</sup> Cu/Al only.

Cat No.	Range (mm <sup>2</sup> )	Description	Length (mm)	Weight
#140/1	UP TO 240	PARROT BEAK CUTTER, SPARE BLADES AVAILABLE	610	1.8KG
#141/1	UP TO 500	PARROT BEAK CUTTER, SPARE BLADES AVAILABLE	805	2.8KG

### RATCHET CABLE CUTTERS

Handy single handed cutter with powerful ratchet action. Heavy duty comfort grip handle.

#### FEATURES

- 32mm diameter capacity
- 325mm<sup>2</sup> Al/Cu only
- AWG 600MCM



Cat No.	Range (mm <sup>2</sup> )	Description	Length (mm)
RC32	UP TO 325	RATCHET CABLE CUTTER 32MM DIA.	240



## RATCHET CABLE CUTTERS



200111

Handy single handed cutter with ratchet action. Compact design. Capacity - 34mm dia. 185mm<sup>2</sup> Al/Cu only.



200183

One or two handed tool, large capacity cutter with robust drive technology. Capacity - 62mm dia. 480mm<sup>2</sup> Al/Cu only.

Cat No.	Range (mm <sup>2</sup> )	Description	Length (mm)
200111	UP TO 185	RATCHET CABLE CUTTER 34MM DIA.	250
200183	UP TO 480	RATCHET CABLE CUTTER 62MM DIA.	297

## PARROT BEAK RATCHET CABLE CUTTER

Parrot beak cutter with ratchet action. Front opening jaws. Capacity - 34mm dia. 185mm<sup>2</sup> and 240mm<sup>2</sup> Al/Cu only.

### FEATURES

- Comfort grip handle
- Front opening jaws
- Eccentric drive system for optimised cutting power



Cat No.	Description	Capacity (mm O.D.)	Length (mm)
200126	PARROT BEAK RATCHET CABLE CUTTER	30	330

## ACSR RATCHET CABLE CUTTER

### FEATURES

- Heavy duty comfort grip handle



Cat No.	Description	Capacity (mm O.D.)	Length (mm)
SC-30A	ACSR RATCHET CABLE CUTTER	30	240

## CABLE KNIVES - NON-INSULATED

### POCKET KNIVES



Cat No.	Description
200010	CABLE STRIPPING KNIFE – SOLID SYNTHETIC HANDLE



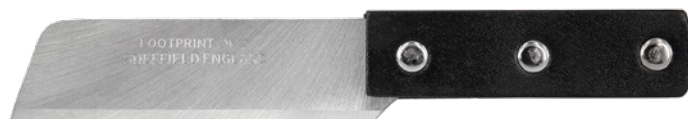
Cat No.	Description
1550-4	HAWKBILL BLADE POCKET KNIFE 100MM – FOLDING LOCKOUT BLADE

### RAYCHEM JOINTERS KNIFE



Cat No.	Description
EXRM-0607	RAYCHEM KNIFE WITH WOODEN HANDLE, FIXED BLADE

### JOINTERS HACK KNIFE



Cat No.	Description
GT/F00182	JOINTERS HACK KNIFE. HEAVY DUTY WIDE BACK CARBON STEEL BLADE. 115MM BLADE

### HEAVY DUTY WORK KNIFE



Cat No.	Description
LE-325	HEAVY DUTY WORK KNIFE WITH LOCKING SAFETY HOLSTER, WITH BELT LOOP & KNIFE SHARPENING STONE. KNIFE 234MM OVERALL, 80MM LONG HIGH CARBON STEEL BLADE

### POLYMERIC HACK KNIFE



Cat No.	Description
IT/120-CS	POLYMERIC HACK KNIFE. STRONG WIDE BACKED POLYMERIC BLADE WITH SOFT GRIP MOLDED HANDLE.



## SPECIALIST CABLE PREPARATION TOOLS

### SCRATCH BRUSHES



Cat No.	Description
SB-AL	SCRATCH BRUSH FOR AL CONDUCTORS UP TO 25.4MM O.D.

Cat No.	Description
SB-CU	SCRATCH BRUSH FOR COPPER CONDUCTORS UP TO 25.4MM O.D.

### SEMICON PLIERS



Cat No.	Description
SC-13	SEMICON PLIERS

### SEMICON SCORING TOOL



Cat No.	Description	Depth (mm)
SCORER-DST-04	SEMICON SCREEN	0.4
SCORER-DST-06	SCORING TOOL	0.6

### CABLE SHEATH STRIPPING TOOLS

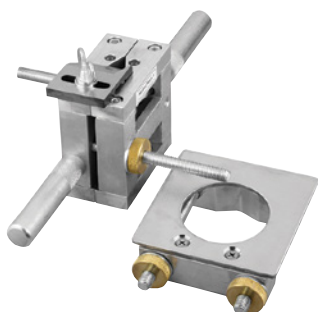


Cat No.	Description
HRIPS	RIPPER STRIPPER
HRIPS/B	BLADES ONLY FOR THE HRIPS

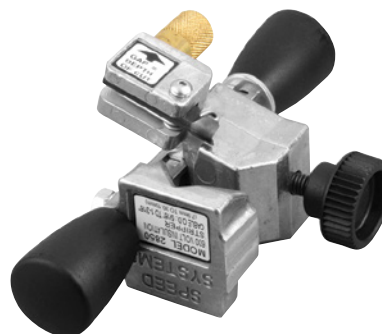


Cat No.	Description
KMS-K	HEAVY DUTY CABLE SHEATH STRIPPER
KMS-K-BLADE	5PACK, SPARE BLADES

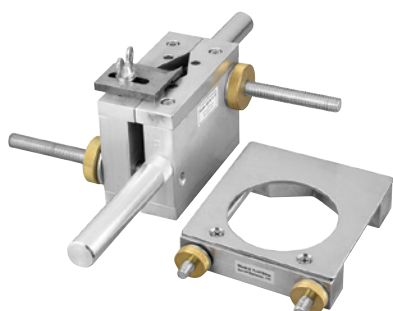
## SPECIALIST STRIPPING TOOLS



Cat No.	Description
MARK-I-TOOL	INSULATION STRIPPER 19.1-50.8MM *TOOL STOP SOLD SEPARATELY



Cat No.	Description
2850-TOOL	SECONDARY MID-SPAN STRIPPER



Cat No.	Description
MARK-II	INSULATION STRIPPER 44.5-76.2MM *TOOL STOP SOLD SEPARATELY



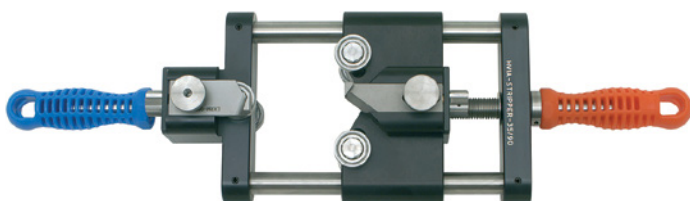
Cat No.	Description
MARK-X-TOOL-STOP	TOOL STOP ACCESSORY FOR SQUARE CUT *X = MODEL I OR II



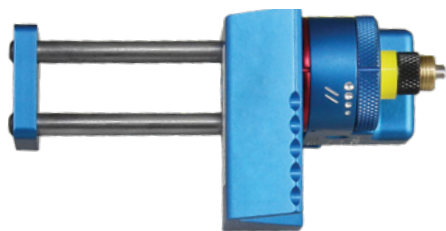
Cat No.	Description
1700-SS	SEMICON SCORER 12.7-50.8MM WITH SQUARE/ SPIRAL CUT & DIAL LOCKING SET SCREW



Cat No.	Description
2750-TOOL	SECONDARY STRIPPER 7.9-34.9 MM² CUTTER, 240MM² AL/CU



Cat No.	Description
HVIA-TOOL-35/90	CABLE INSULATION & SCREEN STRIPPING TOOL FOR 35-90MM OD



Cat No.	Description
SCS	SEMICON SCORING TOOL



Cat No.	Description
IT-1000-024	CABLE SHEATH CUTTER



Cat No.	Description
WS76	SEMICON SHAVING TOOL



Cat No.	Description
2-361372-7	CHAMFERING TOOL



Cat No.	Description
3-361372-0	ULTIMATE MV CABLE PREPARATION TOOL KIT



Cat No.	Description
3-361372-1	BASIC MV CABLE PREPARATION TOOL KIT



Cat No.	Description
GT/125200	INSULATION STRIPPER, T HANDLE

Cat No.	Description
GT/130xxx	INSULATION STRIPPER INSERT FOR USE WITH GT/125200 T HANDLE * xxx = Cable size and Voltage, contact us for part numbers



CS/244400

HVSTRIPPINGKIT

These kits are ideal for stripping MV cables. They will strip longitudinal, helical and circular cuts. Step-by-step cutting depth adjustment.

## FEATURES

- Application range: Ø 16 - 41 mm
- Insulation thickness: 0 - 2 mm
- Max. rotating diameter: 130 mm
- Suggested application: Non vulcanized, peelable semiconductive layer

## CS/244400 CONTENTS

- Cable stripper
- Stop clamp
- Silicone lube

## HVSTRIPPINGKIT CONTENTS

- CS/244400 stripper set
- SC-13 semicon pliers
- T-handle
- Stripper inserts - 85, 185, 300mm²
- Storage pouch

Cat No.	Description
CS/244400	STRIPPER SET FOR NON-VULCANISED SEMICONDUCTOR LAYER

Cat No.	Description
HVSTRIPPINGKIT	MV CABLE STRIPPER SET FOR SEMI CON LAYERS



## MECHANICAL CONNECTOR TOOLS

### CORDLESS IMPACT WRENCH

#### FEATURES

- Everything included for all standard mechanical connectors and lugs
- Brushless motor - electronically controlled to optimise battery energy, runs up to 50% longer run time per charge
- BL motor efficiently uses energy to match torque and RPM to the changing demands of the application
- Multi-mode torque function for greater control
- Electric brake for increased operator safety
- Variable speed control by trigger for precise fastening in a wide variety of applications
- Can be used for shear-head bolts up to 100nm
- Convenient belt hook

#### INCLUDES

- 1/2" drive impact wrench
- 1 battery charger
- 2 li-ion batteries 18V/5.0Ah
- 1 carry case
- 1/2" drive impact sockets – metric 10, 13, 17, 19, 22, 27mm
- 1/2" drive to 1/4" hexagon adaptor
- 3 inhex Allen key sockets 5, 6, 8mm



#### Technical Specifications

CAPACITIES	1/2" DRIVE (12.7MM)		
STANDARD BOLT	M10-M20		
HIGH TENSILE BOLT	M10-M16		
MAX. FASTENING TORQUE	280NM		
	HI	MED	LOW
IMPACTS PER MINUTE (IPM)	0-3500	0-2600	0-1800
NO LOAD SPEED (RPM)	0-2800	0-2100	0-1600
NET WEIGHT	1.5KG		

Cat No.	Description
IT-1000-033	CORDLESS IMPACT WRENCH FOR INSTALLATION OF MECHANICAL CONNECTORS & LUGS USING SHEAR-HEAD BOLTS

### MECHANICAL CONNECTOR HOLDING TOOLS

TransNet offers both an insulated and un-insulated holding tool for Mechanical Connectors. Both can be used for most connector sizes.

- Large easy grip handle
- Recommended for use on most sizes of connector to eliminate possible core 'cranking'
- IT-1000-019 has a large jaw opening to accommodate a wide range of mechanical connectors
- 223 is insulated to 1000V

Cat No.	Description
IT-1000-019	UNIVERSAL HOLDING TOOL FOR MECHANICAL CONNECTORS, APPLICATION RANGE 15-60MM O.D.
223	1000V INSULATED MECHANICAL CONNECTOR HOLDER APPLICATION RANGE 15-40MM O.D.



## WEDGES

### INSULATING WEDGES

With a range of sizes and shapes available there is something for every application. These wedges are made from strong, impact resistant materials meaning they can be nudged into place with a hammer should the necessity arise.



714-170



715-160



725-200

Cat No.	Dimensions (mm)	Description
714-170	170 × 27 × 10	1000V VDE INSULATING WEDGE MADE FROM SHOCK PROOF POLYAMIDE
715-160	160 × 15	1000V VDE PLASTIC SEPARATING WEDGE
725-200	200 × 25 × 10	1000V VDE INSULATING WEDGE, LARGE SIZE WITH IMPACT RESISTANT HEAD

### LV ABC WEDGE

During the installation of connectors the phase conductors of an insulated overhead cable can be separated by using wedges. The wedge can also be used when installing suspension clamps. The wedges can be left on the cable even after the installation.



Cat No.	Description	Weight (g)	Package (pcs)
PHS	TWO PLASTIC WEDGES	100	10

### CABLE CORE GUARD HAMSTER

The ISO Cable core guard hamster is used to provide separation between a cable core which is being cut and neighbouring cores. It eliminates the chance of the other cores being cut unintentionally. 23mm nominal lift.



Cat No.	Description
IT/120-CG1C	CABLE CORE GUARD HAMSTER

### MASTIC POSITION TOOL



Cat No.	Description
IT-1000-003	MASTIC POSITION TOOL FOR POSITIONING MASTIC EXACTLY WHERE IT NEEDS TO BE IN RAYCHEM JOINTS



## CABLE TIE & BAND STRAP TOOLS

### CABLE TIE TENSIONERS



#116/1

#### FEATURES

- Manual cut off
- Suitable for all stainless steel cable ties

Cat No.	Description
#116/1	CABLE TIE TENSIONER



CTTT

#### FEATURES

- Automatically tensions and cuts stainless steel cable ties in one operation
- Adjustable tension for standard and heavy duty ties
- Low friction to ensure reduced effort and fatigue

Cat No.	Description
CTTT	AUTOMATIC CABLE TIE TENSIONER

## BAND STRAP TOOLS & ACCESSORIES

Tensions and secures band strap in place when buckle is applied. Manufactured from high tensile steel. Features machine threaded tensioning screw. One tool for all widths.



Cat No.	Description
#46-TOOL	BAND STRAP TENSIONING TOOL

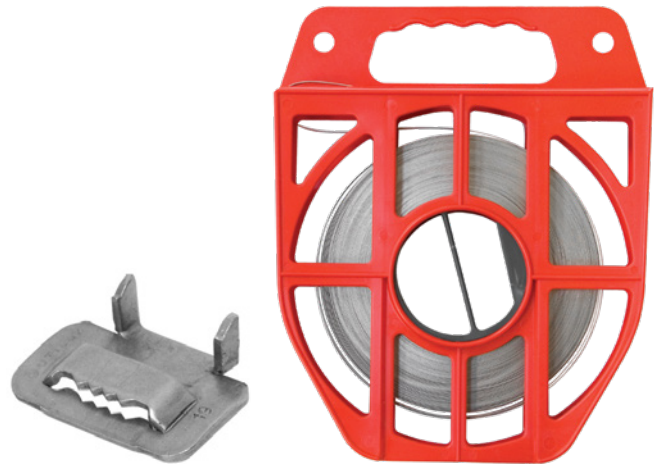
## STAINLESS STEEL BAND STRAP & BUCKLES

Utilux band straps and buckles are versatile, durable and easy to use. Made of stainless steel to minimise corrosion, there are four sizes available to cover a range of application.

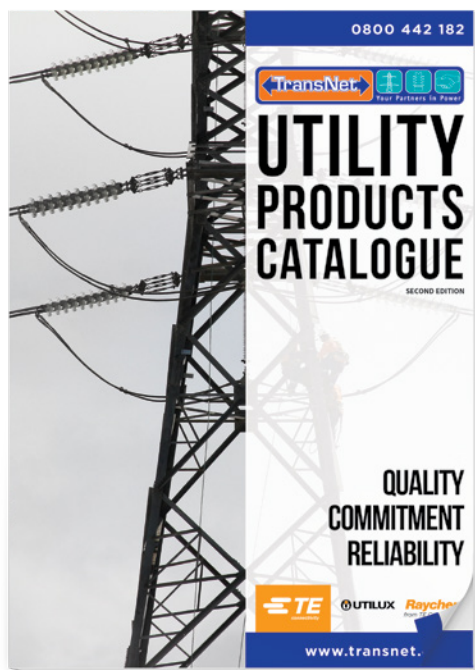
Strap is supplied in 30m dispensers and buckles in packs of 100.

### FEATURES

- Versatile
- Durable
- Easy to handle
- Cost effective
- Stainless steel minimising corrosion
- Width: 10, 12.7, 16, 19mm
- Supplied in dispensers of 30m



Cat No.	Type	Pack Size	Band Strap Width (mm)	Tooling
H3013M-30-1	BAND STRAP	30M	9.5	#46
H3001-100	BUCKLES	100	TO FIT 9.5MM	#46
H3016M-30-1	BAND STRAP	30M	12.7	#46
H3005-100	BUCKLES	100	TO FIT 12.7MM	#46
H3019M-30-1	BAND STRAP	30M	16	#46
H3007-100	BUCKLES	100	TO FIT 16MM	#46
H3022M-30-1	BAND STRAP	30M	19	#46
H3010-100	BUCKLES	100	TO FIT 19MM	#46



TransNet Utility Products Catalogue  
Second Edition available now.



# CABLE & WIRE STRIPPERS

## AUTOMATIC SELF-ADJUSTING WIRE STRIPPERS



Cat No.	Wire Size	Features
#118/1	0.2-6MM <sup>2</sup>	SELF ADJUSTING AUTO WIRE STRIPPER & WIRE CUTTER

Cat No.	Wire Size	Features
#90/1	0.13-6 MM <sup>2</sup>	LOW COST SELF ADJUSTING WIRE STRIPPER WITH BUILT IN CRIMPER & WIRE CUTTER & DEPTH GAUGE



### FEATURES

- Made from lightweight fibreglass reinforced polyamide
- Strips single, multiple, and fine wire
- Automatic self-adjusting blade adjustment
- Adjustable stripping guide for repetitive stripping
- Wire cutter

Cat No.	Capacity (mm <sup>2</sup> ) Stripper	Cutter	Features	Length (mm)
210695	0.2-6.0	UP TO 2.5	AUTOMATIC SELF ADJUSTING, WIRE CUTTER	170

### FEATURES

- Made from lightweight fibreglass reinforced polyamide
- Strips single, multiple, and fine wire
- Automatic self-adjusting blade adjustment
- Adjustable stripping guide for repetitive stripping
- Wire cutter
- Ergonomic 2-component handle design

Cat No.	Capacity (mm <sup>2</sup> ) Stripper	Cutter	Features	Length (mm)
210696	0.2-6.0	UP TO 2.5	AUTOMATIC SELF ADJUSTING, WIRE CUTTER, ERGONOMIC 2-COMPONENT HANDLE DESIGN	180

## AUTOMATIC WIRE STRIPPERS

These models feature robust metal body and comfort grip PVC handles. Damage free cable stripping. Also suitable for fibre optic cables.



Cat No.	Description	Capacity (mm <sup>2</sup> )	Length (mm)
210691	AUTOMATIC WIRE STRIPPER	0.5-2	165
210692	AUTOMATIC WIRE STRIPPER	1.0-4	165

## ADJUSTABLE CABLE STRIPPERS

Cable strippers for splitting the outer sheath and stripping conductors on round cables. Blades are titanium nitride coated for long life. These strippers feature a slip free 2-component polyamide handle.



200040



200042

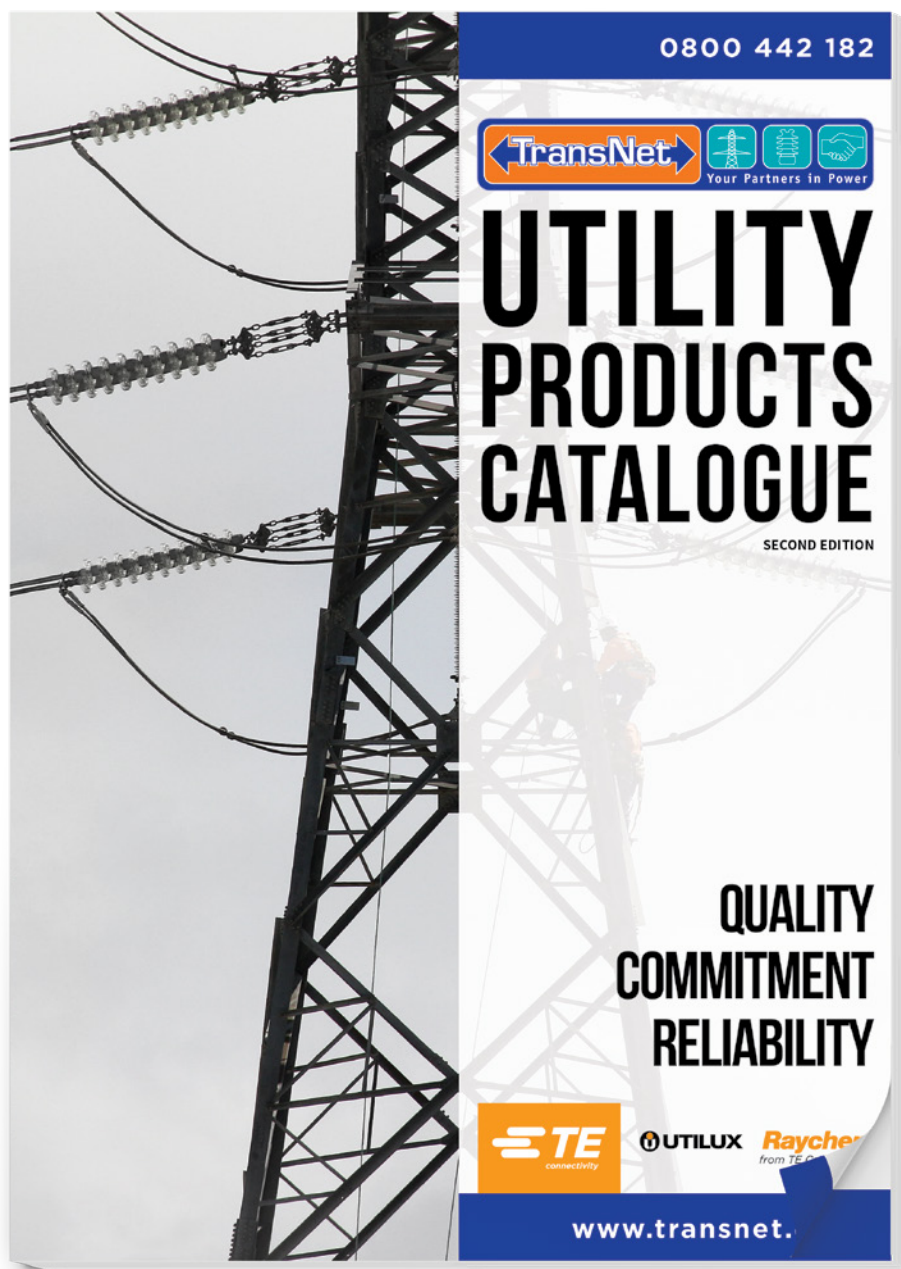
Cat No.	Capacity	Features	Length (mm)
200040	8 - 28MM DIA OD.	CABLE STRIPPER WITH ADJUSTABLE CUTTING DEPTH	132
200042	28 - 35MM DIA OD.	CABLE STRIPPER WITH ADJUSTABLE CUTTING DEPTH	150

### FEATURES

- Stripping Capacity: 4 - 70mm dia round cable. 167mm long handle
- Two blades: One for stripping the outer sheath and stripping conductors on round cables and the other blade is an end-on cable stripping knife system with automatic blade protection
- Five interchangeable stripping guide brackets for popular round cables
- Cable guides: 4 - 16mm, 8 - 28mm, 27 - 35mm, 35 - 50mm and 50 - 70mm
- Adjustable End Hook Blade: 4 levels of depth adjustment, 2.8, 3.4, 4.0, 4.6mm cutting depth
- Supplied with additional spare cutting blade and shockproof storage box
- Blades are titanium nitride coated for long life. Slip free 2-component polyamide handle



Cat No.	Features
201054	6PC DUAL BLADE CABLE STRIPPER PRO SET



TransNet Utility Products Catalogue  
Second Edition available now.

## GENERAL PURPOSE COMBINATION TOOLS

### #76B/1

Non-ratchet pliers for pre-insulated and un-insulated terminals. Includes wire cutting and stripping positions.

Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#76B/1	0.5-4.0	PRE-INSULATED, OVAL UN-INSULATED, INDENT	203	250



### #61/1

Non-ratchet pliers for open barrel, roll-in crimp type terminals such as H1972. Features a built in wire stripper and cutter.

Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#61/1	0.75-2.1	ROLL-IN FOR OPEN BARREL TERMINALS	210	230



### #147A/1

Non-ratchet pliers for micro and flag QC open barrel terminals. Features a built-in wire stripper and cutter.

Cat No.	Crimp Type	Length (mm)	Weight (g)
#147A/1	ROLL-IN FOR OPEN BARREL TERMINALS	210	230



## TERMINAL CRIMP TOOLS

### #102/1

Ratchet type tool for pre-insulated and supergrip terminals. The ratchet ensures a complete crimp every time. A must-have tool for every tradesman.

Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#102/1	0.5-5.5 RED, BLUE & YELLOW	OVAL ON CONDUCTOR/ DIAMOND ON INSULATION	230	550



### #102B/1

Low cost brass terminal crimper. The crimp achieved is a roll crimp, which supports the insulation and crimps the wire. Not suitable for flag terminals.

Cat No.	Range (mm <sup>2</sup> )	Length (mm)	Weight (g)
#102B/1	0.75-6	230	500







## #102U/1

Ratchet type tool for un-insulated terminals. The ratchet ensures a complete crimp every time. A must-have tool for every tradesman.

Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#102U/1	0.5-10	INDENT	230	550



## BOOTLACE CRIMP TOOLS

### #113/1

Non-ratchet pliers for bootlace ferrules. Simple and robust.

Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#113/1	0.5-2.5	INDENT	145	200



### #112/1

Low cost tool with a huge crimp range for bootlace ferrules. Ratchet control for crimp consistency, the ratchet is adjustable to compensate for tool wear.

Cat No.	Range (mm <sup>2</sup> )	Length (mm)	Weight (g)
#112/1	0.5-10	203	400



### #114/1

Ergonomically designed ratchet type tool for bootlace ferrules. The ratchet ensures a complete crimp every time.

Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#114/1	10-35	INDENT	240	650



## DIE-LESS BOOTLACE FERRULE CRIMPER

Features unique crimp action, which automatically crimps a range of terminal sizes. Insert the wire and ferrule, and the tool self-adjusts and crimps. Ratchet control for crimp consistency.

Cat No.	Range (mm <sup>2</sup> )
SABC6	0.25-6
SABC10	0.75-10
SABC16	4-16



## COPPER LUG & LINK CRIMP TOOLS

### #00/1

General purpose pliers for un-insulated Copper lugs and links (CG & CK series). Simple and robust. A must-have for every tradesman.



Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#00/1	0.5-10	INDENT	254	450

### #103/1

Ergonomically designed ratchet type tool for un-insulated Copper lugs and links (CG & CK series). The ratchet ensures a complete crimp every time.



Cat No.	Range (mm <sup>2</sup> )	Crimp Type	Length (mm)	Weight (g)
#103/1	0.5-16	INDENT	230	550

## HAND OPERATED CRIMP TOOLS

### #16B/1

Ratchet type tool for un-insulated Copper lugs (CG series). The long handles require less crimping effort.

- RANGE: 0.5 – 10mm<sup>2</sup>
- CRIMP TYPE: INDENT
- LENGTH: 250mm
- WEIGHT: 700g



Cat No.	Description
#16B/1	RATCHET TYPE TOOL 0.5-10MM <sup>2</sup>



## #24/1

Ratchet type tool for un-insulated Copper lugs and links (CG and CK series).

- RANGE: 6 – 25mm<sup>2</sup>
- CRIMP TYPE: INDENT
- LENGTH: 285mm
- WEIGHT: 550g



Cat No.	Description
#24/1	RATCHET TYPE TOOL 6-25MM <sup>2</sup>

## #21/1

Hand operated, mechanical lever tool for Copper lugs and links (CG and CK series). Features built in, selectable crimp die set for a range of lug and link sizes.

- RANGE: 6mm<sup>2</sup> – 50mm<sup>2</sup>
- CRIMP TYPE: HEXAGONAL
- LENGTH: 410mm
- WEIGHT: 1.4kg



Cat No.	Description
#21/1	HAND OPERATED MECHANICAL LEVER TOOL 6-50MM <sup>2</sup>

## #22/1

Hand operated, mechanical lever tool for Copper lugs and links (CG and CK series). Features built in, selectable crimp die set for a range of lug and link sizes.

- RANGE: 6mm<sup>2</sup> – 120mm<sup>2</sup>
- CRIMP TYPE: HEXAGONAL
- LENGTH: 670mm
- WEIGHT: 3.9kg



Cat No.	Description
#22/1	HAND OPERATED MECHANICAL LEVER TOOL 6-120MM <sup>2</sup>

## UTILUX MS-TELECOM SLEEVE CRIMP TOOL

Available in various crimp groove size combinations. The complete range is adjustable and robust. All models are supplied complete with adjusting key and “Go, No Go” gauge to ensure a perfect crimp every time.

- Designed for use with Utilux MS – Telecom sleeves

Cat No.	Crimp Groove Sizes (mm)
TY635794/1	6.35 & 7.94
TR794952	7.94 & 9.52
TR9521270	9.52 & 12.70



## CRIMPING DIES

Utilux crimping dies for Aluminium and Copper connectors are precision engineered from EN26 high tensile steel, oil hardened to 50-52 Rockwell C, ensuring long life and minimal die wear. Each hexagon die set is engraved with 'Utilux' on one of the die faces, and the die part number on the other,

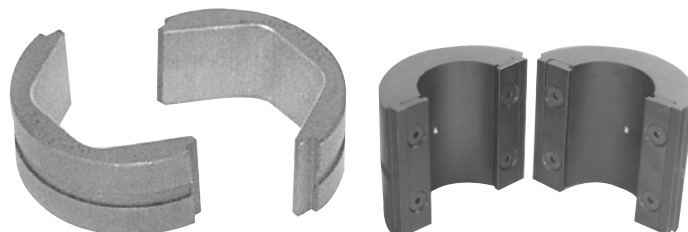
### DIE HOLDERS

- Available on request
- Special die holders are available that allow the use of '38' series dies in the #408 tool.

### THE RANGE OF DIES INCLUDES

- Hexagonal die sets for precision crimping of Copper and Aluminium connectors
- Nest and indent die sets for special Aluminium applications
- Special 'steel' dies for crimping steel sleeves

leaving an indent on the crimp for easy inspection and verification. The selection of the die type required depends on the connector to be crimped, and the tool to be used. Special size dies made to order.



## HEXAGONAL CRIMP DIES - COPPER

Cat No.	Copper Conductor Size (mm <sup>2</sup> )	Copper Die A/F (mm)
1#38-44CU	6	4.4
1#38-57CU	10	5.7
1#38-63CU	16	6.3
1#38-70CU	20	7.0
1#38-77CU	25	7.7
1#38-92CU	35	9.2
1#38-104CU	50	10.4
1#38-115CU	70	11.5
1#38-142CU	95	14.2
1#38-165CU	120	16.5
1#38-183CU	150	18.3
1#38-200CU	185	20.0
1#38-231CU	240	23.1
1#38-260CU	300	26.0



## HEXAGONAL CRIMP DIES - ALUMINIUM

Cat No.	Aluminium Conductor Size (mm <sup>2</sup> )	Aluminium Die A/F (mm)
1#38-90AL	6-35	9.0
1#38-132AL	50-70	13.2
1#38-173AL	95-120	17.3
1#38-220AL	150-185	22.0
1#38-284AL	240-300	28.4







## HEXAGONAL CRIMP DIES - ALUMINIUM OVERHEAD LINKS

Cat No.	To Crimp Link #	Aluminium Die A/F (mm)
HT-A2	2	9.6
HT-A3	3	12.40
HT-A4	4	13.75
HT-A5	5	17.90
HT-A6	6	22.00
HT-A7	7	25.40
HT-A8	8	28.20
HT-A9	9	32.20
HT-TRIDIE	TRIDIE	32.20



## HEXAGONAL CRIMP DIES - HALF HEX (FOR FLEXIBLE CABLES)

Cat No.	Hex Die	Flat Die	Conductor Size (mm <sup>2</sup> )
1#38-98HHEX17/1	1#38-98CU/1	1#38-FLAT17/1	16
1#38-122HHEX17/1	1#38-122CU/1		25
1#38-130HHEX17/1	1#38-130CU/1		35
1#38-153HHEX17/1	1#38-153CU/1		50
1#38-183HHEX14/1	1#38-183CU/1	1#38-FLAT14/1	70
1#38-220HHEX14/1	1#38-220CU/1		95
1#38-245HHEX14/1	1#38-245CU/1		120

Note: Flat dies are available individually. For anything larger than 120mm<sup>2</sup> please contact customer services.



## CRIMP DIES - 'C' CONNECTORS

Cat No.	Cable Range (mm <sup>2</sup> )
ZT20DIE/1	14-20
ZT60DIE/1	45-60
ZT190DIE/1	155-190
ZT288DIE/1	241-288
ZT365DIE/1	289-365



## HEXAGONAL CRIMP DIES - COPPER & ALUMINIUM

Cat No.	Conductor	Size (mm <sup>2</sup> )	Aluminium Die A/F (mm)
1#40-130CU	COPPER	70	13.0
1#40-142CU		95	14.2
1#40-165CU		120	16.5
1#40-185CU		150	18.5
1#40-200CU		185	20.0
1#40-231CU		240	23.1
1#40-260CU		300	26.0
1#40-281CU		400	28.1
1#40-310CU		500	31.0
1#40-370CU		630	37.0
1#40-432CU		800	43.2
1#40-480CU		1000	48.0
1#40-172AL	ALUMINIUM	95, 120	17.2
1#40-220AL		150, 185	22.0
1#40-283AL		240, 300	28.3
1#40-390AL		400, 500	39.0
1#40-432AL		630	43.2



## HYDRAULIC CRIMP TOOLS

### HYCP-4413

12T hand operated large head compression tool. Durable, lightweight fibreglass handles, automatic pressure conversion and operating motion, rotating head and two stage hydraulic system make this tool faster and easier to use. Comes complete with a sturdy carry case and accepts standard 12T shell dies.

- JAW SIZE: 44mm
- RANGE: Up to 400mm<sup>2</sup>
- LENGTH: 641mm
- WEIGHT: 7.6kg



Cat No.	Description
HYCP-4413	12T HAND OPERATED LARGE HEAD COMPRESSION TOOL

### 216622

12T battery operated large head compression tool. Pistol grip design and rotating head make crimping a breeze. Comes complete with 1 charger, 2 rechargeable battery, 1 carry strap in a sturdy plastic case. Different coloured LEDs show whether the crimp has been completed successfully or which error has occurred. Device also has 2 white LEDs designed to illuminate the working area. Accepts standard 12T shell dies.

- JAW SIZE: 42mm
- RANGE: Up to 400mm<sup>2</sup> Standard
- DIMENSIONS: 430mm × 340mm × 75mm
- WEIGHT: 13kg



Cat No.	Description
216622	12T BATTERY OPERATED LARGE HEAD CRIMP TOOL, 2 × BATTERIES



## HAUPA CHROME PLIERS

These Haupa pliers are made with Alloyed carbon steel, forged and annealed, for a high leverage, perfected cutting force. The handles are made from a 2-component non-slip, thermoplastic elastomer grip for greater hand protection and comfort.

### FEATURES

- Chrome plated head
- Induction hardened cutting edges
- Suitable for hard and soft wire

### COMBINATION PLIERS



210052



210054

Cat No.	Capacity (mm)		Description	Length (mm)
	Soft Wire	Hard Wire		
210052	4.0	2.0	COMBINATION PLIERS	165
210053	4.0	2.2	COMBINATION PLIERS	185
210054	4.2	2.5	COMBINATION PLIERS	205

### LONG NOSE PLIERS



210394



210396

Cat No.	Description	Length (mm)
210394	LONG NOSE PLIERS. SLENDER SERRATED JAW, NUT GRIP & WIRE CUTTER	170
210396	LONG NOSE PLIERS. SLENDER SERRATED JAW, NUT GRIP & WIRE CUTTER	200

### DIAGONAL CUTTING PLIERS



Cat No.	Capacity (mm)		Description	Length (mm)
	Soft Wire	Hard Wire		
210158	4.2	3.0	HIGH LEVERAGE DIAGONAL CUTTING PLIERS	200

### WATER PUMP PLIERS

Made from Chrome vanadium steel, forged and annealed. Curved profiled jaw to grip round, hex, flat, square stock etc. PVC dipped handles with push button quick adjustment.



210616



210584

Cat No.	Capacity (mm)	Features	Length (mm)
210616	UP TO 45MM	PUSH BUTTON QUICK ADJUSTMENT	170
210617	UP TO 52MM	PUSH BUTTON QUICK ADJUSTMENT	240
210618	UP TO 70MM	PUSH BUTTON QUICK ADJUSTMENT	300
210584	UP TO 52MM	SLIP JAW PLIER, 2-COMPONENT COMFORT GRIP HANDLE	240

## PRECISION PLIERS

### PRECISION DIAGONAL CUTTER



KP7742115

### PLASTIC CUTTING PLIERS



KP7742130

These diagonal cutting pliers are flush cut with a pointed head design for working in confined spaces. Featuring box joint hinges with mirror polished heads and 2-component handles with leaf springs.

Cat No.	Description	Capacity (mm)	
		Soft Wire	Medium Hard Wire
KP7742115	115MM DIAGONAL CUTTING PLIER	0.3-1.3 DIA.	0.8
KP7742130	130MM DIAGONAL CUTTING PLIER	0.3-1.6 DIA.	1.3

### MICROELECTRONIC SIDE CUTTER

#### FEATURES

- 21° flush cut
- 2-component soft grip handles
- Suitable for soft wires up to 1.3mm<sup>2</sup>



Cat No.	Description
211720	132MM MICROELECTRONIC SHEAR

### PLASTIC CUTTING PLIERS

#### FEATURES

- Full flush cut - for cutting plastic only
- Flush ground with relieved cutting face for flush cutting cable ties, plastic sprues etc.
- Spring loaded, PVC dipped handles



Cat No.	Description
MTC21	125MM DIAGONAL CUTTING PLIERS



## CHROME SCREWDRIVERS & BITS

### RATCHETING SCREWDRIVER SET

#### FEATURES

- 58 piece set
- Interchangeable driver bits
- 1/4" Hex flex head ratchet driver handle
- 25mm long screwdriver bits
- Handy storage case included



Cat No.	Description
104006	58PC RATCHET SCREWDRIVER SET

### PRECISION SCREWDRIVER SETS



104010

#### KIT CONTENTS

- 4 × slotted screwdrivers 1.6, 2.0, 2.4, 3.0mm
- 3 × Phillips screwdrivers 00, 0, 1
- Plastic storage case

Cat No.	Description
104010	7PC ELECTRONIC ESD SCREWDRIVER SET



104002

#### KIT CONTENTS

- 30 × bits – Slotted, Phillips, Pozidrive, Torx, Hex & Nut drivers
- Plastic storage case

Cat No.	Description
104002	34PC MINI SCREWDRIVER SET WITH INTERCHANGEABLE SCREWDRIVER BITS

## FILING & CUTTING

### FILE SETS



SV4733



NFS6

Cat No.	Description
SV4733	3PC 8" – 200MM FILE SET FLAT, 1/2 ROUND, ROUND
NFS6	6PC 160MM NEEDLE FILE SET, INCLUDING KNIFE, ROUND, HALF ROUND, SQUARE, TRIANGLE & FLAT FILES

### SCISSORS



Cat No.	Description
200155	SOFTGRIP SCISSOR 140MM, STAINLESS STEEL BLADES. COMPLETE WITH CABLE STRIPPING DEVICE

### SNIPS



MW6716S



G245-300

Cat No.	Description	Length (mm)
MW6716S	AVIATION SNIP, COMPOUND CUTTING ACTION. CUTS LEFT, RIGHT AND STRAIGHT	245
G245-300	TINMAN'S SNIPS	300

### CONDUIT CUTTERS



CC32



CC42

Cat No.	Description
CC32	32MM OD CONDUIT & PVC DUCT CUTTER WITH RATCHET ACTION. SUPPLIED WITH FLAT BED ATTACHMENT FOR CUTTING DUCT
CC42	42MM OD CONDUIT & PVC DUCT CUTTER WITH RATCHET ACTION. SUPPLIED WITH STAINLESS STEEL CUTTING BLADE



## HACKSAWS



200285



200304



TNHS

Cat No.	Description
200285	250MM PISTOL HANDLE JUNIOR HACKSAW. 150MM LONG BLADE
200304	LIGHTWEIGHT HIGH TENSION HACKSAW. D-HANDLE FRAME . 300MM BLADE LENGTH
TNHS	FULL FRAME HIGH TENSION HACKSAW. BOX SECTION FRAME
200288	150MM JUNIOR HACKSAW REPLACEMENT BLADES - 12PK
200310	300MM HACKSAW REPLACEMENT BLADES. HSS BI-METAL BLADE. 24TPI

## HANDSAW



Cat No.	Description
SV228	550MM X 8PT HARDPOINT HANDSAW. COMFORT GRIP HANDLE

## BOLT CUTTERS



Cat No.	Description	High Tensile Capacity (mm)
TNHHBC600	600MM HIGH LEVERAGE BOLT CUTTER	7.0
TNHHBC750	750MM HIGH LEVERAGE BOLT CUTTER	8.0
TNHHBC900	900MM HIGH LEVERAGE BOLT CUTTER	9.0
TNHHBC1050	1050MM HIGH LEVERAGE BOLT CUTTER	10.0

## DIGGING & DEMOLITION

### POST HOLE DIGGER & SPADES



PHD

#### FEATURES

- Heavy duty blades
- 1.2m long wooden handles
- 160mm spread
- Made in the USA

Cat No.	Description
PHD	HERCULES POST HOLE DIGGER



DSPADE

#### FEATURES

- Wooden D-handle
- Tapered blade design
- 405x165x105mm blade, 710mm long

Cat No.	Description
DSPADE	TUBULAR STEEL DRAINING SPADE



GSPADE

#### FEATURES

- Foot tread
- Wooden D-handle
- 190x290mm blade, 710mm long

Cat No.	Description
GSPADE	TUBULAR STEEL GARDEN SPADE





## SHOVELS

Fibreglass handles absorb impact and won't rot or splinter.



TW7110



TW7020



TW7120



TW7310



TW7410



TW7510

Cat No.	Description	Handle	Mouth Size (mm)	Blade Thickness (mm)
TW7110	D-HANDLE SQUARE MOUTH SPADE	FIBREGLASS	290 W × 325 L	2.0
TW7020	ROUND MOUTH LONG HANDLE SHOVEL	1300MM FIBREGLASS	290 W × 325 L	2.0
TW7120	SQUARE MOUTH LONG HANDLE SHOVEL	1300MM FIBREGLASS	270 W × 320 L	2.0
TW7310	POST HOLE LONG HANDLE SHOVEL	1300MM FIBREGLASS	190 W × 275 L	2.0
TW7410	POINTED POST HOLE SHOVEL	1300MM FIBREGLASS	190 W × 285 L	2.0
TW7510	TRENCHING SHOVEL, NARROW BLADE	1300MM FIBREGLASS	105 W × 310 L	2.0

## YARD BROOM



YARDB



## RAKE



RAKES

Cat No.	Description
YARDB	HARD BRISTLED YARD BROOM, COMPLETE WITH LONG HANDLE WOODEN HANDLE, 355MM WIDE

Cat No.	Description
RAKES	14T STEEL PRESSED RAKE, BRACED HEAD AND WOODEN HANDLE

## WRECKING & DIGGING BARS



NB375



WB24

Cat No.	Description
NB375	375MM NAIL BAR, CHISEL AND PRY BAR ENDS. IDEAL FOR LIFTING AND PRYING
WB24	24" 600MM WRECKING BAR. OCTAGONAL SECTION BAR WITH BENT CLAW AND BENT CHISEL END

## HEAVY DUTY DIGGING BAR



### FEATURES

- Point and chisel ends
- High carbon steel
- Heat treated for strength

Cat No.	Description
DB1800	HEAVY DUTY DIGGING BAR, 1750MM X 30MM HEX STOCK

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## GAS SETS

### STANDARD PROPANE GAS TORCH SETS



GASSETSTD

The basic Raychem gas torch set features a plastic composite single valve handle with high quality brass metal parts. Suitable for rapid installation of heat-shrinkable materials this set offers maximum burning efficiency and the best available balance of surface pre-heat. All system components are fully compatible.

#### CONTENTS

- FH-1630-S-HNZ handle
  - Spindle and valve give very exact & quick flame setting
  - Springloaded metal knob gives precise and stable setting for finest of flames
  - All metal parts made of high quality brass
- 5m long high pressure hose
  - Screw connections for regulator & handles
  - Connection threads: R 3/8", left
  - Internal diameter 4mm
- BN38 38mm nozzle
  - Flame diameter 38mm
  - Gas consumption 0.90kg/h



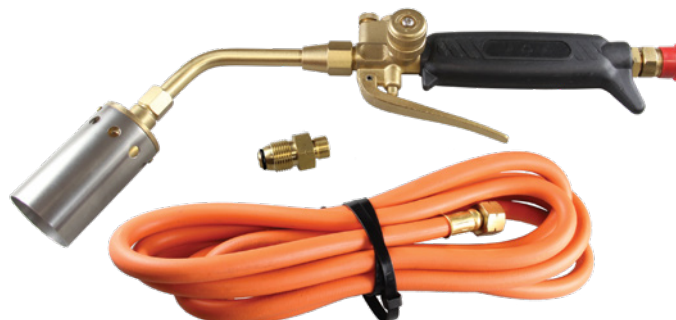
GASSETPIEZO

Featuring the patented Piezo electric ignition, universal handle, advanced design, and ergonomic appearance, the Promatic is a world-beating system for all possible heating tasks where efficiency and professional workmanship are the most important requirements.

#### CONTENTS

- Piezo handle
  - Operates with propane and butane gases
  - Gas flow when trigger pressed only
  - Nozzle connection: bayonet socket
- 5m long high pressure hose
  - Screw connections for regulator & handles
  - Connection threads: R 3/8", left
  - Internal diameter 4mm
- BN38 PIE 38mm nozzle
  - Flame diameter 38mm
  - Gas consumption 0.90kg/h

Cat No.	Description
GASSETSTD	GAS TORCH - BASIC SET INCLUDING HANDLE, HOSE, & NOZZLE
GASSETPIEZO	GAS TORCH - BASIC PROMATIC SET INCLUDING PIEZO HANDLE, HOSE, & NOZZLE



Cat No.	Description
XG-PH01-8A	PROPANE GAS TORCH COMPLETE WITH FITTINGS AND 3M HOSE

## PREMIUM PROPANE GAS TORCH SET

Featuring the patented Piezo electric ignition, universal handle, advanced design, and ergonomic appearance, the Promatic is a world-beating system for all possible heating tasks where efficiency and professional workmanship are the most important requirements.

### CONTENTS

- Piezo handle
  - Operates with propane & butane gases
  - Gas flow when trigger pressed only
  - Nozzle connection: bayonet socket
- 5m long high pressure hose
  - Screw connections for regulator & handles
  - Connection threads: R 3/8", left
  - Internal diameter 4mm
- Nozzles x 4
  - Flame diameters 18mm, 28mm, 38mm & 50mm
- Regulator x 1
- Cut off valve x 1
- Raychem carry case



Cat No.	Description
GASSETJOINTERPRO	PROMATIC JOINTERS GAS SET INCLUDING PIEZO HANDLE, HOSE, NOZZLES X4, REGULATOR, CUT OFF VALVE & CARRY CASE





## GAS ACCESSORIES



REGULATOR

### FEATURES

- Suitable for propane gas bottles from 5kg to 11kg
- Gas bottle connection
- W20 x 1/4" LH POL
- Gas flow: max 6 kg/h
- Constant pressure: 2 bar



TNFL3

### FEATURES

- Rotatable triple flint
- Spring tension arm to generate an even spark and flint wear

Cat No.	Description
REGULATOR	GAS SET REGULATOR
TNFL3	GAS FLINT STRIKER

## GAS BOTTLES



CYL4.0QC



CYL9.0QC

Cat No.	Description
CYL4.0QC	GAS BOTTLE 4KG - EMPTY
CYL9.0QC	GAS BOTTLE 9KG - EMPTY

## GENERAL OR MISCELLANEOUS TOOLS

### RATCHET ACTION CAULKING GUN

#### FEATURES

- Superior performance with precise sealant feed
- Capacity up to 425ml cartridges



Cat No.	Features
CG	RATCHET ACTION CAULKING GUN

### GREASE GUN

#### FEATURES

- Heavy duty lever action
- 150mm steel extension with 4 jaw coupler with ball valve
- Can be bulk filled or will take a 450g cartridge
- Develops 10,000PSI/690Bar



Cat No.	Description
GG	GREASE GUN

### RIVET PLIER KIT

#### FEATURES

- Long nose with interchangeable nozzles
- 2.4, 3, 4, & 5mm dia. for blind rivets, aluminium, copper or steel
- 100pc assorted aluminium rivets
- Storage case included



Cat No.	Features
210776	RIVET PLIER KIT

### LOCKING PLIERS



Cat No.	Description	Features	Length
TNVG7	LOCKING PLIER	CURVED JAW WITH WIRE CUTTER	7"/175MM
TNVG10			10"/250MM

### FOOTPRINT WRENCH



Cat No.	Description	Features	Length
FOOTY	FOOTPRINT THUMB-TURN WRENCH	THUMBTURN JAW ADJUSTMENT WITH AGGRESSIVE JAW PATTERN	9"/225MM



## CABLE PULLING DEVICE

### FEATURES

- Fitted with M5 thread & additional pilot pulling spring
- Low friction, highly elastic probe that won't break or bend
- Durable impact resistant plastic housing
- Breaking load 350kg



Cat No.	Description
143504	20M CABLE PULLING DEVICE

## WIRE BRUSHES



TNSC1802

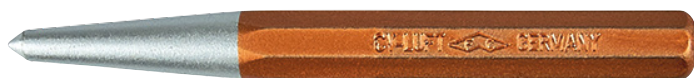


21422

Cat No.	Features
TNSC1802	5 ROW STEEL HAND BRUSH, CURVED WOODEN HANDLE.
21422	4 ROW STAINLESS STEEL WIRE BRUSH. COMFORT GRIP PLASTIC HANDLE. NZ MADE

## HAMMERS, PUNCHES & CHISELS

### PUNCHES



180120



TNACP

Cat No.	Description	Size
180120	CENTRE PUNCH, OCTAGONAL SHANK BODY	12 × 120MM
TNACP	AUTO CENTRE PUNCH, ADJUSTABLE TENSION AND NO HAMMER REQUIRED, BRASS BODY	17 × 145MM

## CHISELS



BCL



BCW

Cat No.	Description	Size
BCL	BOLSTER CHISEL WITH HAND GUARD	25 × 200MM
BCW	BOLSTER CHISEL WITH HAND GUARD	75 × 225MM

## SOFT FACED HAMMERS



180334



RM32

Cat No.	Description	Size
180334	32MM PLASTIC SOFT FACED HAMMER, NON- MARRING FACES, HICKORY HANDLE	12OZ
180346	32MM REPLACEMENT FACES FOR 180334	-
RM32	RUBBER Mallet - WOODEN HANDLE	32OZ

## BALL PEIN HAMMERS



Cat No.	Description	Size
180274	BALL PEIN HAMMER - WOODEN HANDLE	12OZ
BPH16	BALL PEIN HAMMER - WOODEN HANDLE	16OZ
BPH24	BALL PEIN HAMMER - WOODEN HANDLE	24OZ





## CLAW HAMMERS



Cat No.	Description	Size
180323	CLAW HAMMER, FIBREGLASS HANDLE WITH RUBBER GRIP	16OZ
TWACH20	CLAW HAMMER, FIBREGLASS HANDLE WITH RUBBER GRIP	20OZ

## CLUB HAMMERS



180302



TNCH4LB

Cat No.	Description	Size
180302	CLUB HAMMER WITH POLISHED FACES. HICKORY HANDLE	3LB
TNCH4LB	CLUB HAMMER WITH POLISHED FACES. 400MM LONG HICKORY HANDLE	4LB

## SLEDGEHAMMERS

### FEATURES

- Fibreglass handles absorb impact, won't splinter or rot
- Forged heads
- Handle lengths 850mm



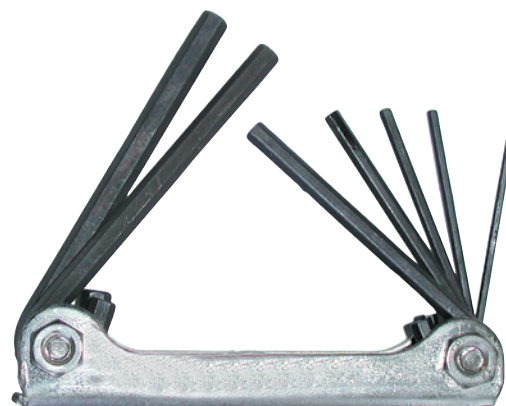
Cat No.	Description	Size
SH8	SLEDGEHAMMER WITH POLISHED FACES	8LB
SH10	SLEDGEHAMMER WITH POLISHED FACES	10LB
SH12	SLEDGEHAMMER WITH POLISHED FACES	12LB


# HEX, TORX, & CABINET KEYS

## HEX KEY SETS

### FEATURES

- 7 piece sets
- Fold out blades
- Metric and imperial keys available



Cat No.	Sizes	System	Type
100634	2.5, 3, 4, 5, 6, 8, 10MM	METRIC	
100636	3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8" AF	IMPERIAL	

## LONG SERIES BALL ENDED HEX KEY SETS

### FEATURES

- Supplied in plastic holders
- Metric and imperial keys available
- EK13222 made from alloy steel & made in USA




HEX-M



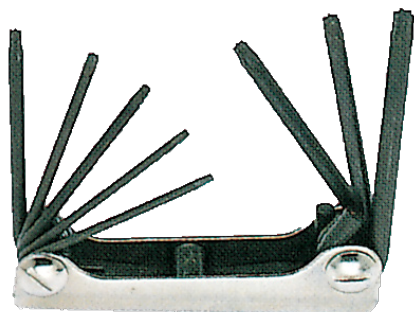
HEX-I



EK13222

Cat No.	Description	System	Type
HEX-M	9PC SET - 1.5, 2, 2.5, 3, 4, 5, 6, 8, AND 10MM KEYS	METRIC	
HEX-I	9PC SET - .050', 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"AF KEYS	IMPERIAL	
EK13222	9PC METRIC SET - 1.5MM - 10MM + 13PC IMPERIAL SET .050" - 3/8"AF	METRIC & IMPERIAL	

## TORX KEY SETS



### SET CONTAINS

- TX9, 10, 15, 20, 25, 27, 30, 40 blades

Cat No.	Description	Type
100943	8PC TORX FOLD OUT KEY SET	



### SET CONTAINS

- TX10, 15, 20, 25, 30, 40, 45, 50 keys
- Supplied in plastic holder

Cat No.	Description	Type
TNH10	8PC ANTITAMPER TORX KEY SET LONG SERIES	



### SET CONTAINS

- TX9, 10, 15, 20, 25, 27, 30, 40, 45, 50 keys
- Supplied in plastic holder

Cat No.	Description	Type
TNSK010T	10PC ANTITAMPER TORX KEY SET EXTRA LONG SERIES	

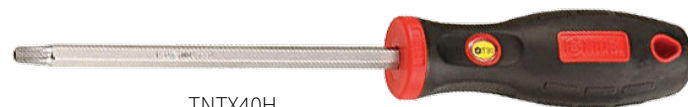
## TORX SCREWDRIVERS & DRIVER BITS



EPTORXSCREWDRIVER



TNT3340



TNTX40H



TNT3040

Cat No.	Description	Type
EPTORXSCREWDRIVER	ECOPILLAR LID T40 TORX SECURITY SCREW TOOL	
TNTX25H	TX25H ANTITAMPER SCREWDRIVER, HEX SHANK AND COMFORT GRIP HANDLE - 200MM	
TNTX30H	TX30H ANTITAMPER SCREWDRIVER, HEX SHANK AND COMFORT GRIP HANDLE - 225MM	
TNTX40H	TX40H ANTITAMPER SCREWDRIVER, HEX SHANK AND COMFORT GRIP HANDLE - 235MM	
TNTX50H	TX50H ANTITAMPER SCREWDRIVER, HEX SHANK AND COMFORT GRIP HANDLE - 235MM	
TNT3040	TX40H ANTITAMPER SCREWDRIVER BIT - 1/4"HEX × 25MM LONG	
TNT3340	TX40H ANTITAMPER SCREWDRIVER BIT - 1/4"HEX × 75MM LONG	

## CABINET KEYS



EPTS/SLOCKKEY

Stainless steel key for use on TUDS and ECOPillar enclosures for added security.

Cat No.	Description
EPTS/SLOCKKEY	STAINLESS STEEL TRIANGULAR LOCK KEY FOR ECOPILLAR & TUDS LOCK MK908-4



EPTOOL

Designed for use with a number of pillar locks including the ECOPillar locks and some used on other pillars and cabinets already in use around the country. Includes TX40 antitamper torx bit. The beauty of this tool is it means you don't need to carry four different tools, this one will do it all.

Cat No.	Description
EPTOOL	CABINET / PILLAR 4-WAY MULTI KEY

## CABINET KEY

### FEATURES

- Size: 72 x 72 mm
- Inside square 6 mm
- Inside square 7 - 8 mm
- Inside threesquare 7 - 8 mm
- Double size 3 - 5 mm

Cat No.	Description
110696	HAUPA SOCKET TYPE SPANNER, LIGHTWEIGHT METAL BODY WITH KEY CHAIN



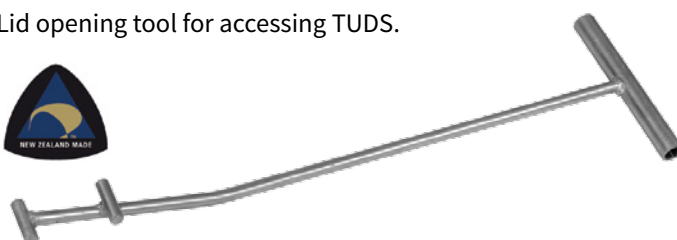
## ECOPILLAR LID LIFTER



Cat No.	Description
ECOPILLARLIDTOOL	ECOPILLAR LID, LEVER REMOVAL TOOL

## TUDS LIFTING TOOL

Lid opening tool for accessing TUDS.



Cat No.	Description
0-0361414-3	PIT LID LIFTER FOR TUDS325 & TUDS325L



## LED LIGHTS

### HEADLIGHTS & HAND LAMPS



TNPSH3

LED head light with tilting adjustable beam.

#### FEATURES

- High, medium, low modes
- IPX6 water resistant ABS housing
- 2Hz Safety SOS Flash Function
- Batteries included

Cat No.	Lumens	Run Time	Powered By
TNPSH3	155LM	4-50 HOURS	1 × AA



TNPSH4

LED head light with wide beam or floodlighting.

#### FEATURES

- Red LED for night vision
- Tilting head & waterproof
- Multi-mode
- 2Hz Safety SOS Flash Function
- Supplied with 3M adhesive helmet mount
- Batteries included

Cat No.	Lumens	Run Time	Powered By
TNPSH4	200LM WITH DIFFUSER	7 1/2-60 HOURS	3 × AAA



TNPSIL3R

LED mini inspection light.

#### FEATURES

- Impact resistant body
- Pocket clip/hanging hook & magnetic pad
- DC-USB rechargeable from 12/24V or USB power supply
- USB charge cord supplied

Cat No.	Lumens	Run Time	Powered By
TNPSIL3R	300LM FLOODLIGHT, 100LM TORCH HEAD	3-12 HOURS	2200MAH LI-ION RECHARGEABLE BATTERY

## TEMPORARY LIGHTS

### BATTERY POWERED LED FLOODLIGHTS

The perfect portable work light. Available in 20W and 50W this rechargeable battery powered LED floodlight with a sturdy stand is a must have for all tradesmen.

#### FEATURES

- Slim & compact design for ease of storage
- USB outlet to charge other devices
- 4-5 hour battery run time
- Two light level settings - 100% & 50%
- Bluetooth connection function to play music
- Rechargeable Li-ion battery
- 12V DC & 230V AC charger
- Optional magnetic base that clips onto the light



LEDPORT-MAGBASE



Cat No.	Base Mount	Lumens	Power	IP Rating	Charger
LEDPORT-MAGBASE	STAND	OPTIONAL MAGNETIC BASE			
LEDPORT-20W-BATT		1600	20W	IP54	12V DC/230V AC
LEDPORT-50W-BATT		3500	50W	IP54	12V DC/230V AC

### PORTABLE LIGHT STAND - 2X45W LEDS

This industrial light stand (ILS) is engineered to cater for the commercial user where durability is of key importance.

#### FEATURES

- Telescopic stand to offer a range of working heights, approximately 1250mm–2500mm
- Easy to assemble and put away, fits into small storage areas
- Long 12m lead
- Power source 230V AC
- Cool running temperature
- \*DC model available on special order

Cat No.	Lumens	Power	Supply Voltage
LEDILS-2500	6000	2 × 45W	230V AC





## PORTABLE LIGHT STAND - 400W LEDS

This light kit is the epitome of temporary light stands. With an air extendable hydraulic telescopic stand the light can be positioned up to 5m\* above the work site. All the components to run this light (AC and DC) are included in the kit.

### SPECIFICATIONS

- IP65 Rating
- 1.6m up to 5m\* when extended
- L×W×H when packed in case = 800 × 520 × 320mm
- Stand Weight = 17.85kg
- Packed in Case Weight = 32.85kg

### KIT CONTENTS

- 400W LED light fitting
- Air extendable light stand
- Bicycle track pump
- Battery leads
- 400W inverter
- Storage bag for stand
- Tough plastic carry case

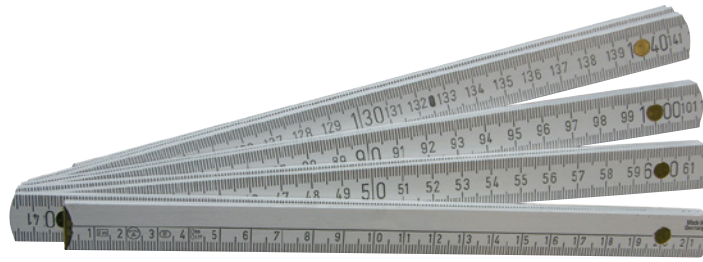
\*Height of stand only, not including lights



Cat No.	Lumens	Power	Supply Voltage
LEDILS-5M-200	21,000	200W	230V AC OR 12V DC
LEDILS-5M-400	42,000	400W	

## MEASURING & MARKING TOOLS

### FOLDING RULE



Cat No.	Features
240005	2M FIBRE GLASS FOLDING RULE, METRIC GRADUATIONS WITH LOCKING SPRING JOINTS

### TAPE MEASURES



240012



TWF8M



TWP832

Cat No.	Features	Size
240012	TAPE MEASURE. POCKET SIZED TAPE WITH MAGNETIC TIP	5M X 16MM WIDE
TWF8M	WIDE TAPE MEASURE. FLUORESCENT CASE, SUPPLIED WITH BELT CLIP & LANYARD	8M X 25MM WIDE
TWP832	TAPE MEASURE. RUBBERISED CASE, SUPPLIED WITH BELT CLIP	8M X 32MM WIDE

### MEASURING WHEELS

#### FEATURES

- 5 digit counter
- Rubber tyre
- Ideal for indoor or outdoor use



MWHEELC

MWHEEL

Cat No.	Description	Wheel Diameter	Handle
MWHEELC	COMPACT WALKING MEASURING WHEEL	100MM	430-1066MM TELESCOPIC
MWHEEL	WALKING MEASURING WHEEL	317MM	460-1066MM TELESCOPIC





## LEVELS



240041



TNPL600

Cat No.	Description	Features	Length
240041	LIGHTWEIGHT ALUMINIUM LEVEL	2 × VIAL, METRIC SCALE RULE, COMPACT DESIGN	300MM
TNPL600	POLYCAST LEVEL	3 × VIAL, NON-CONDUCTIVE FRAME, IMPACT RESISTANT	600MM

## SQUARES



FS56



FH22

Cat No.	Description	Features	Length
FS56	MINI SQUARE	CAST ZINC FRAME, WITH LEVEL AND SCRIBER	150MM
FH22	COMBINATION SQUARE	DIE-CAST FRAME, WITH LEVEL AND SCRIBER	300MM

## CHALK LINE



Cat No.	Description	Features	Length
CHALKLINE	CHALK LINE	LIGHTWEIGHT CAST MAGNESIUM BODY, SUPPLIED WITH 60G CHALK BAG	30M

## VERNIER CALIPERS



TNDV150



TNVC

Cat No.	Description	Features	Range
TNDV150	150MM DIAL VERNIER	STAINLESS STEEL, SUPPLIED IN STORAGE CASE	0"- 6"
TNVC	150MM DIGITAL VERNIER	STAINLESS STEEL, EASY READ DISPLAY, SUPPLIED IN STORAGE CASE	& 0 - 150MM

# MAKITA CORDED POWER TOOLS

## HEAT GUN

### FEATURES

- Variable speed and temperature
- Cool air stage for rapid cooling for nozzle changing or tool pickup
- Blower controlled by 3-speed operating switch
- Large setting wheel for adjusting temperature
- Ergonomic soft grip handle
- Dual air vents
- Suitable for any hot air application



Cat No.	Description	Capacity
MKHG6020	2,000W HEAT GUN	AIR TEMPERATURE: 50°-600°C AIR VOLUME - 150-500L/MIN
MKHG6020KIT	2,000W HEAT GUN KIT, INCLUDING 5 NOZZLES, 2 PACKS OF PLASTIC WELDING RODS, AND STORAGE CASE	

## D-HANDLE DRILL

### FEATURES

- 4x speed settings to suit various materials and applications
- High and low gears with 2 pre-set speeds make this ideal for hardworking applications
- Excellent for drilling into metals or hardwoods
- Lock-on button allows drill to be locked on at set speeds
- Industrial strength 13mm keyless chuck



Cat No.	Description	Capacity
MK6300-4	13MM D-HANDLE DRILL	STEEL - 13MM WOOD - 30MM NO LOAD SPEED: 650, 700, 1,250, 1,500RPM CONTINUOUS RATING INPUT - 650W

## HIGH TORQUE DRILL

### FEATURES

- High torque for heavy duty driving and drilling
- Triple reduction gearbox for maximum torque
- Aluminium gear housing for durability and longer tool life
- Large variable speed trigger with forward/reverse
- Lock-on lever allows the drill to be locked at maximum rpm with the flick of a switch
- Side handle swivels 360° for convenient operation
- Included accessories: Industrial Chuck, side handle, key and carry case



Cat No.	Description	Capacity
MKDP4002K	13MM HIGH TORQUE DRILL	STEEL - 13MM WOOD - 38MM NO LOAD SPEED: 0 - 600RPM MAX FASTENING TORQUE - 73NM CONTINUOUS RATING INPUT - 750W

## ROTARY HAMMER

### FEATURES

- High efficiency and unrivalled low level of vibration
- The level of vibration is further reduced by completely separating the machine holding section from the motor/transmission section
- Soft no load function automatically reduces the motor speed during idling to suppress the vibration of the

Cat No.	MKHR5212C
DESCRIPTION	52MM ROTARY HAMMER
SHANK	SDS MAX
CONCRETE	52MM/31MM
CONCRETE CORE DRILL	160MM/96MM
IMPACTS PER MINUTE	1,100-2,250IPM
NO-LOAD SPEED	150 - 310RPM
JOULES	19.1J
CONTINUOUS RATING INPUT	1,510W
NET WEIGHT	11.9KG

machine body

- New "Two on/off switches switchable in hammering mode"
- Easy-to-operate operation mode change lever
- Includes side handle, side grip, depth gauge, grease tube (Drill bit not included)



## DEMOLITION BREAKER

### FEATURES

- Suppression of motor speed during no-load - reduces vibration of tool body when idling, & decreases the amount of vibration to operator's hands
- AVT (Anti-Vibration Technology)

Cat No.	MKHM1317C
DESCRIPTION	DEMOLITION BREAKER
SHANK	30MM HEX
BLOWS PER MINUTE	730 - 1,450BPM
JOULES	33.8J
CONTINUOUS RATING INPUT	1,510W
NET WEIGHT	17.0KG

- Electronic Variable speed control
- LED service light that indicates when to replace carbon brush and or trouble with the electric circuit
- Includes bull point, side handle and storage case



## 840W ANGLE GRINDER

### FEATURES

- High performance 840 watt motor with enough power to handle all the jobs required of a small angle grinder
- Gear housing can be rotated to suit most cutting and grinding applications
- Small circumference barrel grip for easy handling
- Includes depressed centre grinding wheel, side handle grip, and lock nut wrench

Cat No.	MK9556NB
DESCRIPTION	840WATT ANGLE GRINDER
MAX. DIAMETER WHEEL	
DEPRESSED CENTRE	100MM
CUT OFF WHEELS	100MM
WIRE CUP BRUSH	75MM
WIRE BEVEL BRUSH	85MM
DIAMOND WHEEL	100MM
SPINDLE THREAD	M10 X 1.5MM
NO LOAD SPEED	11,000RPM
CONTINUOUS RATING INPUT	710W



## 1100W ANGLE GRINDER

### FEATURES

- Paddle switch operation , ideal for users wearing protective gloves
- Slim ergonomical design
- Heavy duty gearbox
- SJS system protects operator if tool is jammed in workpiece
- Includes depressed centre wheel, side handle grip, and lock nut wrench

Cat No.	MK9565P
DESCRIPTION	1,100WATT ANGLE GRINDER WITH PADDLE SWITCH
MAX. DIAMETER WHEEL	
DEPRESSED CENTRE	125MM
CUT OFF WHEELS	125MM
WIRE CUP BRUSH	90MM
DIAMOND WHEEL	125MM
SPINDLE THREAD	M14 X 2.0MM
NO LOAD SPEED	12,000RPM
CONTINUOUS RATING INPUT	1,100W





# MAKITA CORDLESS COMBO KITS

## MKDLX2176T 18V 2PC KIT

### KIT INCLUDES

- DHP481 13mm Brushless Hammer Drill Driver - max 125Nm torque
- DTD154 1/4" Hex Brushless Impact Driver - max 175Nm torque
- 2 x 5.0Ah Li-Ion batteries
- Rapid charger
- Carry case

Cat No.	Description
MKDLX2176T	18V 2PC BRUSHLESS HAMMER DRILL DRIVER AND IMPACT DRIVER KIT



## MKDLX2185T 18V 2PC KIT

### KIT INCLUDES

- DHP481 13mm Brushless Hammer Drill Driver - max 125Nm torque
- DTW285 1/2" drive Brushless Impact Wrench - max 280Nm torque
- 2 x 5.0Ah Li-Ion batteries
- Rapid charger
- Carry case

Cat No.	Description
MKDLX2185T	18V 2PC BRUSHLESS HAMMER DRILL DRIVER AND IMPACT WRENCH KIT



## MKDLX3072T 18V 3PC KIT

### KIT INCLUDES

- DHP481 13mm Brushless Hammer Drill Driver - max 125Nm torque
- DTW285XZ 1/2" drive Brushless Impact Wrench - max 280Nm torque
- DGA508 125mm Brushless Angle Grinder
- 2 x 5.0Ah Li-Ion batteries
- Rapid charger
- Carry case

Cat No.	Description
MKDLX3072T	18V 3PC BRUSHLESS JOB-SITE KIT



## MKDLX6063T 18V 6PC KIT

### KIT INCLUDES

- DHP481 13mm Brushless 13mm Hammer Drill Driver - max 125Nm torque
- DTD154 1/4" Hex Brushless Impact Driver - max 175Nm torque
- DHS680 165mm Brushless Circular Saw
- DGA504 125mm Brushless Angle Grinder
- DJR187 Brushless Reciprocating Saw
- DML802 LED Flashlight
- 2 x 5.0Ah Li-Ion batteries
- Rapid charger
- Carry case



Cat No.	Description
MKDLX6063T	18V 6PC BRUSHLESS JOB-SITE KIT

TransNet's fully functioning microgrid.

544 solar panels

150kW of renewable energy

30kW/130kWh smart storage system



# MAKITA CORDLESS CUTTING & GRINDING TOOLS

## BRUSHLESS RECIPROCATING SAW

### FEATURES

- Variable speed control
- Soft grip reduces vibration
- Adjustable front shoe for maximum blade use and tool-less blade changing
- Ideal for single handed use
- Toolless blade changing
- Battery overload protection

Cat No.	MKDJR187Z	MKDJR187RTE
DESCRIPTION	18V BRUSHLESS RECIPROCATING SAW	18V BRUSHLESS RECIPROCATING SAW KIT
BATTERY INCLUDED	NO	2 × 5.0AH LI-ION
RAPID CHARGER INCLUDED	NO	YES
STORAGE CASE INCLUDED	NO	YES
CAPACITY		
WOOD		255MM
PIPE		130MM
LENGTH OF STROKE		32MM
STROKES PER MIN.		0 - 3,000SPM



## CORDLESS BRUSHLESS CIRCULAR SAW

### FEATURES

- High performance Brushless DC motor
- Auto Speed function changes speed according to load condition
- Lightweight design with magnesium base, blade case and safety cover
- Electric brake and Twin Led work lights

Cat No.	MKDHS680Z
DESCRIPTION	18V 165MM BRUSHLESS CIRCULAR SAW
BATTERY INCLUDED	NO
MAX CUT AT 90°	57MM
MAX CUT AT 45°	41MM
NO LOAD SPEED	5,000RPM



## BRUSHLESS JIGSAW

### FEATURES

- Top D-handle for easy control
- 3x Orbital settings and variable speed for Optimum cutting control
- Powerful lightweight design

Cat No.	MKDJR182Z
DESCRIPTION	18V BRUSHLESS JIGSAW
BATTERY INCLUDED	NO
CAPACITY	
WOOD	135MM
STEEL	10MM
LENGTH OF STROKE	26MM
STROKES PER MIN.	800 - 3,500SPM



## CORDLESS MULTITOOL

### FEATURES

- Well balanced tool with variable speed control
- Tool-less blade changing clamp, for quick installation and replacement of blades
- 12 angle settings at every 30° from 0° to 360°

Cat No.	MKDTM51Z
DESCRIPTION	18V MULTITOOL
BATTERY INCLUDED	NO
OSCILLATIONS PER MIN.	6,000 - 20,000RPM
OSCILLATION	3.2°



## BRUSHLESS ANGLE GRINDER

### FEATURES

- High performance Brushless DC motor
- Paddle switch with soft start
- Automatic Torque Drive and electric brake
- Kick back detection - shuts tool off if jamming occurs

Cat No.	MKDGA508Z	MKDGA508RTE
DESCRIPTION	18V 125MM BRUSHLESS ANGLE GRINDER	18V 125MM BRUSHLESS ANGLE GRINDER KIT
BATTERY INCLUDED	NO	2 × 5.0AH LI-ION
RAPID CHARGER INCLUDED	NO	YES
STORAGE CASE INCLUDED	NO	YES
DEPRESSED CENTRE WHEEL	125MM	
CUT OFF DISC	125MM	
SANDING DISC	125MM	
NO LOAD SPEED	8,500RPM	





# MAKITA CORDLESS DRILLING & FASTENING TOOLS

## BRUSHLESS HAMMER DRILL DRIVER

### FEATURES

- All metal gear construction and single sleeve keyless chuck
- 21 stage torque settings
- Variable speed control
- Supplied with side handle and depth stop



Cat No.	MKDHP481Z	MKDHP481RTE
DESCRIPTION	18V 13MM BRUSHLESS HAMMER DRILL DRIVER	18V 13MM BRUSHLESS HAMMER DRILL DRIVER KIT
BATTERY INCLUDED	NO	2 × 5.0AH LI-ION
RAPID CHARGER INCLUDED	NO	YES
STORAGE CASE INCLUDED	NO	YES
CAPACITY		
STEEL	13MM	
WOOD	76MM	
CONCRETE	16MM	
IMPACTS PER MINUTE		
HI	0 - 31,500IPM	
LOW	0 - 8,250IPM	
NO LOAD SPEED		
HI	0 - 2,100RPM	
LOW	0 - 550RPM	
MAX. FASTENING TORQUE	115NM	
MAX. LOCK TORQUE	125NM	

## BRUSHLESS COMBINATION HAMMER DRILL

### FEATURES

- Efficient DC motor with 3 mode operation, hammer, hammer with rotation and rotation only
- Variable speed
- Fitted with safety clutch and quick change drill chuck



Cat No.	MKDHR243Z
DESCRIPTION	18V SDS PLUS BRUSHLESS COMBINATION HAMMER DRILL
BATTERY INCLUDED	NO
SHANK TYPE	SDS PLUS
CAPACITY	
CONCRETE	24MM
STEEL	13MM
WOOD	27MM
IMPACTS PER MINUTE	0 - 4,700IPM
NO LOAD SPEED	0 - 950RPM



## 1/2" DRIVE BRUSHLESS IMPACT WRENCH

### FEATURES

- Compact and powerful wrench with high torque design. Variable speed for precise fastening and electric brake for operator safety
- LED worklight and Phosphorescent bumper for operating in dark areas

Cat No.	MKDTW285Z	MKDTW285RTE
DESCRIPTION	18V BRUSHLESS IMPACT WRENCH	18V BRUSHLESS IMPACT WRENCH KIT
BATTERY INCLUDED	NO	2 × 5.0AH LI-ION
RAPID CHARGER INCLUDED	NO	YES
STORAGE CASE INCLUDED	NO	YES
SQ DRIVE	1/2"	
STANDARD BOLT	M10 - M20	
HIGH TENSILE BOLT	M10 - M16	
IMPACTS PER MINUTE		
HI	0 - 3,500IPM	
MED	0 - 2,600IPM	
LOW	0 - 1,800IPM	
NO LOAD SPEED	0 - 2,800RPM	



## 1/4" HEX BRUSHLESS IMPACT SCREWDRIVER

### FEATURES

- Compact and powerful screwdriver with high torque design
- Variable speed for precise fastening and electric brake for operator safety
- LED worklight and Phosphorescent bumper for operating in dark areas

Cat No.	MKDTD154Z
DESCRIPTION	18V 1/4" HEX BRUSHLESS IMPACT SCREWDRIVER
BATTERY INCLUDED	NO
MACHINE SCREW	M4 - M8
STANDARD BOLT	M5 - M16
HIGH TENSILE BOLT	M5 - M14
IMPACTS PER MINUTE	
HI	0 - 3,800IPM
MED	0 - 2,600IPM
LOW	0 - 1,100IPM
NO LOAD SPEED	0 - 3,600RPM
MAX. TORQUE	175NM





# MAKITA CORDLESS LED WORKLIGHTS

## RECHARGEABLE LED FLASHLIGHT

### FEATURES

- 12 position pivoting flashlight head
- 3.2W single LED gives 4000lx luminance
- Multi faceted reflector for bright illumination
- Compact size aluminium flashlight head
- Strap hook

Cat No.	Description	Specifications
MKDML802	18V RECHARGEABLE LED FLASHLIGHT	3.2W SINGLE LED RUN TIME - 13HRS CONTINUOUS USE WITH 3.0AH LI-ION BATTERY



## CORDLESS & 240V CORDED WORKLIGHT

### FEATURES

- 2-mode operation: delivers 750 lumens on High mode or 450 lumens on Low mode
- 360° Rotatable light flashlight
- 2 stage push button switch to select full or half brightness
- 20x 0.5w white-light LEDs for continuous bright illumination
- Convenient carrying handle can be used as hanging hook
- A/C cord storage hooks
- Up to 8.5 hours of continuous illumination with a 5.0Ah 18V

Cat No.	Description	Specifications
MKDML805	18V CORDLESS AND 240V CORDED WORKLIGHT	CONTINUOUS USE WITH A 5.0AH - HI 8.5HRS - LO 17HRS MULTI-VOLTAGE 14.4 -18V AND 240V



## TELESCOPIC WORKLIGHT STAND

Stand can accommodate a single or twin light set. LED Worklights not included.



Cat No.	Description	Stand Height (mm)
MKGM00001381	TELESCOPIC WORKLIGHT STAND	992 -1750

## 36V DUAL VOLTAGE WET/DRY VACUUM CLEANER

### FEATURES

- Powered by 2x18V Li-ion batteries in series (not included) or by a mains lead to AC socket
- Provides easy maneuverability anywhere you need cleaning
- Large on/off switch
- Dual battery fuel gauge

- Variable suction power control by dial
- Onboard pipe storage
- 5m power supply cord

### ACCESSORIES INCLUDED

- Plastic dust bags x 10
- Hose 38mm x 2.5m
- Straight pipe
- Bending pipe
- Nozzle
- Corner nozzle

Cat No.	Container Vol. Dust	Water	Continuous Rating Input	Max Sealed Suction	Peak Air Volume	Weight (kg)	Filter Type
MKDVC860LZ	8.0L	6.0L	320W	A/C 24kPa D/C 9kPa	A/C 3.6M <sup>3</sup> / MIN D/C 2.1M <sup>3</sup> /MIN	8.6	L



## 36V CORDLESS WET/DRY VACUUM CLEANER

### FEATURES

- Two 18V LXT Li-Ion and BL Motor batteries produce maximum airflow of 1.8 m<sup>3</sup> / min / maximum sealed suction of 10 kPa / 80W suction power
- Extreme Protection Technology (XPT) designed to improve resistance against dust and dripping under adverse conditions

- Provides up to 40 min of runtime using the BL1850B battery
- Variable suction power control by dial

### ACCESSORIES INCLUDED

- Poly dust bags x 10
- Hose
- Telescopic pipe
- Bent pipe
- New nozzle
- Corner nozzle

Cat No.	Container Vol. Dust	Water	Max Sealed Suction	Peak Air Volume	Weight (kg)	Filter Type
MKDVC862LZ	8.0L	6.0L	10kPa	1.8M <sup>3</sup> /MIN	7.1	L



# MAKITA CHARGERS & BATTERIES

## 14.4-18V RAPID CHARGERS



MKDC18RC



MKDC18RD

These chargers communicate with the individual cell in battery with a built in CPU and then control current, voltage, and temperature for both rapid and optimum charge. Therefore the battery has longer life as it can be charged in the best method and duration.

- Compatible with all LXT batteries: 14.4 - 18V

Cat No.	Description	Charge Times
MKDC18RC	14.4 - 18V RAPID CHARGER	BATTERY BL1850 5.0AH - 45MIN BATTERY BL1840 4.0AH - 36MIN BATTERY BL1830 3.0AH - 22MIN
MKDC18RD	14.4 - 18V TWO PORT RAPID CHARGER	

## 18V LI-ION BATTERIES

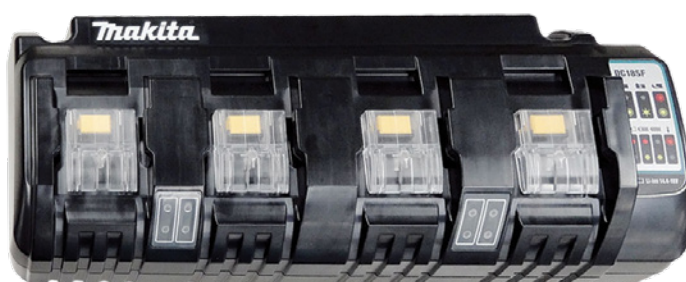
Cat No.	Description
MKBL1850B	18V 5.0AH LI-ION BATTERY, WITH LED CHARGE INDICATOR
MKBL1840B	18V 4.0AH LI-ION BATTERY, WITH LED CHARGE INDICATOR
MKBL1830B	18V 3.0AH LI-ION BATTERY



## 14.4-18V FOUR PORT RAPID CHARGER

This charger communicates with the individual cell in the battery with a built-in CPU, then controls current, voltage, and temperature for both rapid and optimum charge. This helps the battery maintain a longer life as it can be charged using the best method and duration.

Cat No.	Description
MKDC18SF	14.4-18V FOUR PORT RAPID CHARGER





POWER TOOL ACCESSORIES

40 PIECE IMPACT-X SCREWDRIVER BIT SET

S2 steel long life impact driver bits with a mix of 25mm and 50mm long driver bits. This set contains Phillips, Slotted, Square, Torx, Nut drivers and a magnetic bit holder.

FEATURES

- 40 piece impact rated set
- S2 steel
- 1/4" universal shank



Cat No.	Description	Type
MKA98332	40PC IMPACT-X SCREWDRIVER BIT SET	

32 PIECE SCREWDRIVER BIT SET

Convenient 32pc screwdriver bit set housed in a compact storage case.

FEATURES

- Set includes Phillips, Square, Torx Antitamper, and Hex bits
- 1/4" quick change but holder
- 1/2" drive socket adaptor



Cat No.	Description	Type
MKD65224	32PC SCREWDRIVER BIT SET	



## SCREWDRIVER BITS & BIT SETS



TWCP159

## KIT CONTENTS

- Phillips No. 1, No. 2, No. 3
- Square No. 1, No. 2, No. 3
- Pozidrive No. 1, No. 2
- Slotted 8mm
- Hex 5mm
- Plastic storage holder

Cat No.	Description
TWCP159	1/4" HEX 10 PC SET SCREWDRIVER BIT SET 50MM LONG

## KIT CONTENTS

- 1/4" socket driver
- 3/8" socket driver
- 1/2" socket driver



Cat No.	Description
SKTDRSET	3PC HEX SOCKET DRIVER SET

## CHROME ADAPTORS



TNCASU

TNCAR

Cat No.	Description
TNCASU	3/8" FEMALE X 1/2" DRIVE MALE ADAPTOR
TNCAR	1/2" FEMALE X 3/8" DRIVE MALE ADAPTOR



TWCP160

## KIT CONTENTS

- Phillips No.1, No.2, No.3
- Square No.1, No.2, No.3
- Pozidrive No.1, No.2
- Slotted 6mm and 10mm
- Plastic storage holder

Cat No.	Description
TWCP160	1/4" HEX 10 PC SET SCREWDRIVER BIT SET 100MM LONG

## IMPACT ADAPTORS



TNIASU

TNIAR

Cat No.	Description
TNIASU	3/8" FEMALE X 1/2 "DRIVE MALE ADAPTOR
TNIAR	1/2" FEMALE X 3/8" DRIVE MALE ADAPTOR

# IMPACT SOCKETS & ACCESSORIES

## IMPACT SOCKET SETS



1/2"

Cat No.	Features
IMPS14	1/2" DRIVE 14PC IMPACT SOCKET SET 10 - 27MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 26, 27MM. 6PT. SUPPLIED IN METAL STORAGE RACK

1/2"

1/2"



IMPSD10



IMPSD14

Cat No.	Features
IMPSD10	1/2" DRIVE 10PC DEEP IMPACT SOCKET SET 11 - 24MM 11, 12, 13, 14, 16, 17, 19, 21, 22, 24MM. 6PT. SUPPLIED IN METAL STORAGE CASE
IMPSD14	1/2" DRIVE 14PC DEEP IMPACT SOCKET SET 11 - 24MM 10, 12, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32MM. 6PT. SUPPLIED IN PLASTIC STORAGE CASE

## SOCKET ACCESSORIES

### FEATURES

- Push button quick release
- Comfort grip handle



RAT12



RAT12EXT

Cat No.	Description	Length
RAT12	1/2" DRIVE RATCHET	280MM
RAT12EXT	1/2" DRIVE RATCHET, TELESCOPIC HANDLE FOR EXTRA POWER	305-445MM EXTENDABLE

# CUTTING, DRILLING & FILING

## HOLESAW SETS


**HSS8C**

Set of 8 high speed steel bi-metal holesaws and arbors selected for New Zealand electricians requirements.

### FEATURES

- Holesaw Sizes: 16, 20, 25, 32mm -1.5/8" and 2" holesaws
- Supplied with two arbors
- Packed in plastic blow molded case
- High speed steel cutting edges with Cobalt
- Ideal for wood, plastic, Stainless steel alloys, nail-embedded wood etc.


**HSS8**

Set of 8 high speed steel bi-metal holesaws and arbors.

### FEATURES

- Holesaw Sizes: 16, 20, 25, 32, 40 and 51mm holesaws
- Supplied with two arbors
- Packed in plastic storage case
- High speed steel cutting edges with vari-tooth pitched cutting teeth
- Suitable for cutting steel, cast iron, non-ferrous materials, plastic, wood etc.


**HSS14**

Set of 14 high speed steel bi-metal holesaws and arbors.

### FEATURES

- Holesaw sizes: 19, 22, 25, 32, 35, 38, 44, 51, 57, 63 & 76mm
- Supplied with two arbors and adaptor plate
- Varied pitched teeth reduces vibration resulting in grater performance and accuracy
- Electron beam welded teeth for stronger longer lasting teeth
- Packed in plastic storage case
- Suitable for cutting steel, cast iron, non-ferrous materials, plastic, wood etc.

Cat No.	Description
HSS8C	8PC MASTER COBALT ELECTRICIANS HOLESAW SET
HSS8	8PC HSS ELECTRICIANS HOLESAW SET
HSS14	14PC HSS MAINTENANCE HOLESAW SET

## HSS DRILL SETS


**CASE25**

**TITAN25**

**SM3SB**

Cat No.	Description
CASE25	1.0MM - 13MM 25PC SET -SUPPLIED IN PLASTIC PACK
TITAN25	1.0MM - 13MM TITANIUM COATED 25PC SET - INDUSTRIAL GRADE SUPPLIED IN METAL CASE
SM3SB	1.0MM - 13MM VIPER PLUS - INDUSTRIAL GRADE. SPLIT POINT DRILLS. FOR MACHINE AND HAND HELD DRILLING IN A WIDE RANGE OF FERROUS & NON-FERROUS MATERIALS SUCH AS STEEL, ALUMINIUM, BRASS, WOOD & PLASTICS. A REDUCED SHANK ON LARGER SIZES SUITS 10MM POWER DRILL CHUCKS. SUPPLIED IN PLASTIC CASE

## HSS STEP DRILLS



Step Drills are designed for use in sheet metal, aluminium, plastic & fibre glass, ideal for sheet metal without pre-drilling. During drilling, the next step deburrs the previously drilled hole

### FEATURES

- Made from HSS, ideal for sheet metal without pre drilling
- Spiral flute for reduced vibration and greater control through steps
- Fixed drilling steps, incrementally increases hole size in a controlled manner
- Flat Shank three flats suits 3-jaw chuck
- Made from M2 High Speed Steel (HSS) offering the best combination of strength, heat & wear resistance

Cat No.	Description	Steps
SD412	4 - 12MM HSS STEP DRILL. 6MM SHANK	9
SD420	4 - 20MM HSS STEP DRILL. 8MM SHANK	8
SD430	4 - 30MM HSS STEP DRILL. 10MM SHANK	14
SD636	6 - 36MM HSS STEP DRILL. 12MM SHANK	12

## WOOD BORING BITS



SB5

### FEATURES

- 16, 19, 22, 25, and 32mm
- Four cutting edges cuts up to 5 times faster than standard spade bits
- Coarse screw point draws the bit into the work piece providing fast drilling in hard and soft woods
- Spur cutting edge scribes the circumference, reducing splintering for a smoother finish
- Hex shank for positive grip, preventing slippage in chuck
- Made from alloy steel

Cat No.	Description
SB5	5PC 4 FLUTE DRILL AUGER SET



SB6

5 times faster than standard spade bits. Combining a power chip-breaker and heavy duty shank to increase efficiency and battery life of your power tool, with clean cutting and minimal break out on exit. Designed for drilling in timber and light building materials.

### FEATURES

- 10, 12, 16, 19, 22 and 25mm supplied in vinyl wallet
- Heavy duty shank for maximum strength & durability and greater power transfer providing more holes per battery charge
- Hex shank for positive grip, preventing slippage in chuck
- Made from Carbon Steel
- Manganese Phosphate coating for highest hardness and superior corrosion and wear resistance

Cat No.	Description
SB6	6PC SPADE BIT SET





## AUGER BITS

### AUGER BITS, LEWIS TYPE

Cat No.	Length (mm)	Diameter (mm)
231500	235	6
231502	460	
231504	235	8
231506	460	
231508	235	10
231510	460	
231512	235	12
231514	460	
231516	235	14
231518	460	
231520	235	16
231522	460	
231523	155	18
231524	235	
231526	460	20
231528	235	
231530	460	



Cat No.	Length (mm)	Diameter (mm)
231531	96	22
SM6-22	205	
231533	155	
231534	460	24
231536	235	
231538	460	26
231540	235	
231542	460	28
231544	235	
231546	460	30
231548	235	
231550	460	32
231552	235	
231554	460	

## EARTH ROD RAMMERS

### RAMMER



Cat No.	Description
MKP63797	MAKITA SDS MAX ELECTRODE RAMMER

### EARTH ROD RAMMER



Cat No.	Description
GRDS625	GALAXY SDS+ 5/8" GROUND ROD DRIVER 13MM



# CHROME SOCKET SETS

## CONTENTS: (33 PIECES)

- 12 sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13 mm
- 1 reversible ratchet
- 2 extensions 50 and 100 mm
- 1 flexible extension
- 1 adapter 3/8 " x 1/4" extension for use as a T-handle
- 1 bit holder
- 1 universal joint
- 14 screwdriver bits: PH 1, 2 and 3, Hex 3, 4, 5, 6, 8, Tx 10, 15, 20, 25, 27, 30
- Supplied in plastic blow mold case

1/4"



Cat No.	Description
110674	1/4"DR 33PC METRIC SOCKET & DRIVER BIT SET

## CONTENTS (26 PIECES)

- 18 sockets 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 mm
- 1 reversible ratchet
- 3 extensions 20, 75 and 150 mm
- 1 adapter 1/2 " x 3/8" extension for use as a T-handle
- 2 Spark plug sockets for 16 - 21 mm
- 1 universal joint
- Supplied in plastic blow mold case

3/8"



Cat No.	Description
110676	3/8" DR 26PC METRIC SOCKET SET

## CONTENTS (25 PIECES)

- 20 sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32mm
- 1 reversible ratchet
- 2 extensions 125 mm and 250 mm lockable
- 1 universal joint
- 1 adapter 3/8" x 1/2" extension for use as a T-handle
- Supplied in plastic blow mold case

1/2"



Cat No.	Description
110677	1/2" DR 25PC METRIC SOCKET SET

## 1/4"

- 12 sockets from 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm
- 1 reversible ratchet
- 1 universal joint
- 1 adapter 3/8" x 1/4" extension to use as a T-handle
- 2 extensions 50mm and 150mm
- 1 spinner handle
- 12 screwdriver bits: PH1 and 2, Hex 3, 4, 5, 6mm, Slotted 5,5 - 7mm, Tx 20, 25, 27, 30
- Hex keys 1.25, 1.5, 2.0, 2.5, 3.0mm

1/4"



## 1/2"

- 13 sockets from 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32mm
- 1 reversible ratchet
- 1 adapter 3/8" x 1/2" extension for use as a T-handle
- 1 universal joint
- 2 extensions 75mm and 250mm
- 2 spark plug sockets
- Supplied in plastic blow mold case

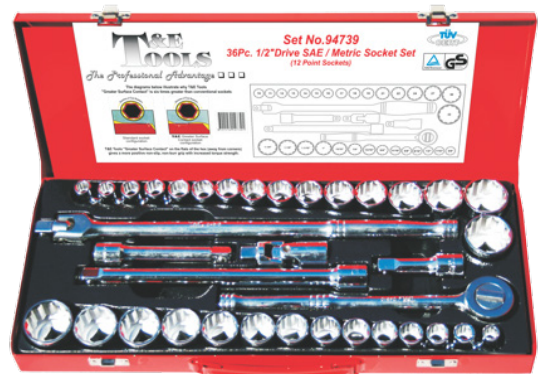
1/2"

Cat No.	Description
110678	1/4" DRIVE AND 1/2" DRIVE 53PC COMBINATION METRIC SOCKET SET

## CONTENTS

- 12 point double hex sockets
- Metric: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32mm
- SAE: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4"
- 75mm, 125mm and 250mm extensions
- Universal Joint
- 375mm Power Bar and Quick Release Ratchet
- Supplied In Metal Case

1/2"



Cat No.	Description
94739	1/2" DRIVE METRIC AND IMPERIAL SOCKET SET 36PC - 12 POINT SOCKETS

## CONTENTS

- 1/4" drive 39pc, socket range 4 - 13mm supplied in both std and deep sockets, plus accessories
- 1/2" drive 34pc, socket range 10 - 34mm, 3/8" - 1.3/16" plus accessories.
- 1/2" drive Impact sockets 4pc 17 - 24mm
- Double Ended Flex head wrenches 4pc 8 - 15mm
- Ring and Open End wrenches 13pc 7 - 19mm
- Supplied in plastic blow mold case

1/4"

1/2"

Cat No.	Description
TNSVS877	94PC 1/4" & 1/2" DR SOCKET AND WRENCH SET



# TOOL BAGS & STORAGE

## TOOL BAGS



TOOLBAG500



TNJKB224

Cat No.	Size	Pockets	Base	Features
TOOLBAG500	500MM	INTERNAL & EXTERNAL	STANDARD	MADE FROM LONG LASTING POLYESTER MATERIAL. SUPPLIED WITH SHOULDER STRAP
TNJKB224	600MM	10 X INTERNAL 8 X EXTERNAL	RUBBERISED	

## OPEN TOTE TOOL BAGS



TNJB081



TNJKB243

Cat No.	Size	Pockets	Base	Features
TNJKB081	290MM	14 X INTERNAL 16 X EXTERNAL	STANDARD	MADE FROM POLYESTER MATERIAL. SUPPLIED WITH STAINLESS STEEL PADDED HANDLE & WEBBING SHOULDER STRAP
TNJKB243	510MM	24 INTERNAL 21 EXTERNAL		



## STORAGE CONTAINERS



221131



TNEST1612RB

Cat No.	Features	Dimensions (mm)
221131	PLASTIC STORAGE BOX. 20 COMPARTMENTS. IDEAL FOR SCREWS, FASTENERS, ETC.	420W × 65H × 335D
TNEST1612RB	12 DRAWER TOP CHEST WITH DROP FRONT AND ROLLER BEARING SLIDES. FULL LENGTH RUNNERS ON ALL DRAWERS ENSURE FULL OPENING OF EACH DRAWER. HEAVY DUTY CARRYING HANDLES AND HIGH GLOSS UV PAINT FINISH. 42KG	660W × 500H × 400D

## TOOL BELTS



TOOLBELTSPARKY



TOOLBELTLINEY



TOOLBELTLINEYNP



TOOLBELTONLY

Cat No.	Description	Features
TOOLBELTSPARKY	TOOL POUCH FOR GENERAL ELECTRICIAN	NYLON BELT AND CLIP
TOOLBELTLINEY	LINEMAN TOOL POUCH	DEEP POCKETS FOR LARGER TOOLS, NYLON BELT AND CLIP
TOOLBELTLINEYNP	HEAVY DUTY LINEMAN TOOL POUCH	DEEP POCKETS FOR LARGER TOOLS, HEAVY LEATHER BELT WITH EXTRA STRONG, DOUBLE PRONG BELT BUCKLE
TOOLBELT(ONLY)	LEATHER BELT ONLY	EXTRA STRONG, DOUBLE PRONG BELT BUCKLE

## TOOL ROLL BAG



## TOOL APRON



Cat No.	Description	Features
TOOLROLLBAG1	EMPTY CABLE JOINTERS TOOL ROLL	26 POCKETS FOR EASY TOOL STORAGE & TOOL PROTECTION

Cat No.	Description
TOOLAPRON	TOOL APRON FOR USE IN BUCKET - HANGS ON SIDE OF BUCKET

## POLE BUCKETS



C417-0144-B



26018



26022

Cat No.	Description
C417-0144-B	POLE BUCKET BAG. MADE FROM HEAVY-DUTY CANVAS WITH PLASTIC BASE
26018	POLE BUCKET BAG. HEAVY DUTY CANVAS BAG WITH 15X INTERNAL POCKETS. ROPE HANDLE AND HEAVY DUTY HARDWARE. 350X150X250MM
26022	POLE BUCKET BAG. HEAVY DUTY CANVAS BAG WITH 2X EXTERNAL POCKETS. ROPE HANDLE AND HEAVY DUTY HARDWARE. 380X290MM



## RATCHET WRENCHES

### VDE INSULATED RATCHET WRENCH

- For use with all shear bolt connectors (IPCs and Fuse Carriers)
- 13mm and 17mm A/F sockets in one spanner
- Reversible ratchet
- Fits stainless steel nuts used in strain and suspension clamps
- Fixed sockets that can not be lost or dropped during installation
- 1000V insulated for added user safety
- 6 sided hex sockets protect integrity of plastic bolt heads



Cat No.	Description
IRW13/17	INSULATED RATCHET SPANNER 13 & 17MM SOCKETS

### RATCHET PODGER WRENCH

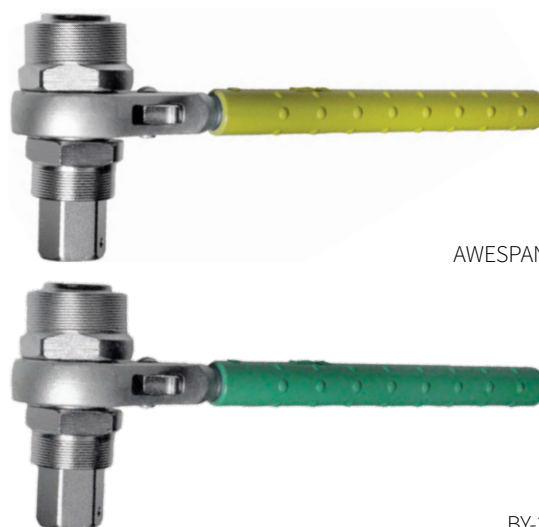


Cat No.	Description
RPS/1317	13MM & 17MM RATCHET PODGER WRENCH
RPS/1719	17MM & 19MM RATCHET PODGER WRENCH
RPS/1924	19MM & 24MM RATCHET PODGER WRENCH
RPS/2427	24MM & 27MM RATCHET PODGER WRENCH
RPS/2730	27MM & 30MM RATCHET PODGER WRENCH
RPS/3236	32MM & 36MM RATCHET PODGER WRENCH

## 4 WAY RATCHET WRENCHES

### FEATURES

- Two sizes on each side
- Larger sized sockets can extend when required
- Long bolt threads pass through centre of wrench
- Convenient for pole top work
- Plastic ergonomic non-slip handle
- Suits bolt diameters 10, 12, 16 and 20mm



AWESPAN

BY-3

Cat No.	Features
AWESPAN	4 WAY RATCHET WRENCH - 4 SOCKET SIZES IN ONE REVERSIBLE WRENCH - YELLOW
BY-3	4 WAY RATCHET WRENCH - 4 SOCKET SIZES IN ONE REVERSIBLE WRENCH - GREEN

# TORQUE WRENCHES

## HAUPA TORQUE WRENCHES



110607



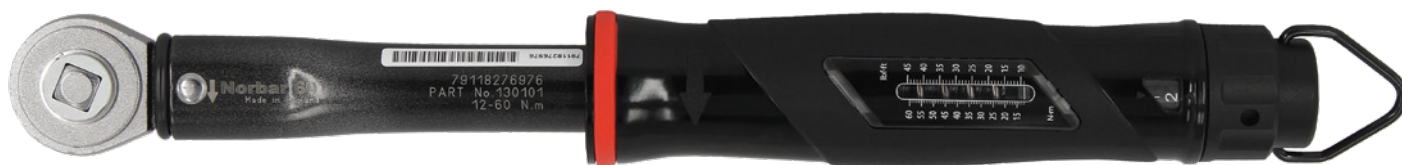
110609

### FEATURES

- Built-in reversible ratchet, accuracy +/- 3%
- Made from Chrome-Vanadium steel DIN-3122; ISO 6789
- Easy read display and lock mechanism
- Supplied with test certificate and plastic storage safe box

Cat No.	Drive Size	Features	Rating (Nm)	Length (mm)
110607	1/4"	REVERSIBLE RATCHET HEAD	5-25	300
110608	3/8"		21-119	395
110609	1/2"		42-210	512

## NORBAR PRECISION TORQUE WRENCHES



These Norbar Torque Wrenches use the NorTorque proven mechanism and offer a comfortable, robust single material handle which also contains an easy to set scale. Fine engineering ensures that the wrench adjustment is both fast and fingertip light meaning that you can do your job more efficiently. The sleek body tube finish was chosen for its robustness and minimal process impact on the environment.

Accurate to  $\pm 3\%$  of reading which meets and exceeds ISO6789

Torque wrenches supplied with test certificate and plastic storage safe box.

Cat No.	Drive Size	Features*	Rating (Nm)		Length (mm)
			Nm	lbf-ft	
TN130101	3/8"	PUSH THROUGH DRIVE, REVERSIBLE RATCHET HEAD	12-60	10-45	328
TN130103	1/2"		20-100	15-75	375

\*TN130101 supplied with step up adaptor 3/8" F - 1/2" M

TN130103 supplied with reducing adaptor 1/2" F - 3/8" M



## ADJUSTABLE CHROME TOOLS

### CHROME PLATED ADJUSTABLE WRENCHES

- Triple coated chrome finish (2 Ni + 1 Cr) for perfect chrome adherence and maximum rust resistance
- Irega - made in Spain



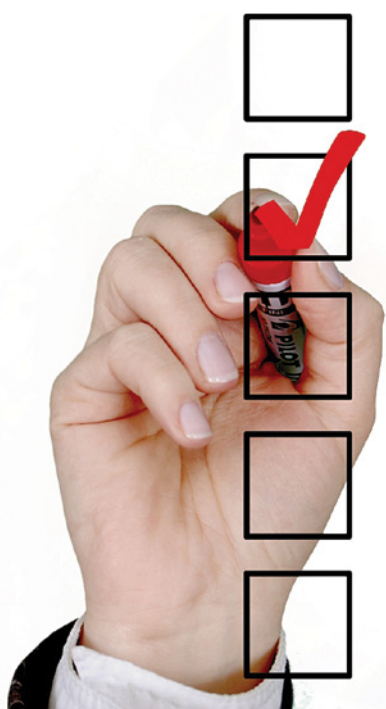
Cat No.	Description	Jaw Opening
IG7704	4" - 100MM ADJUSTABLE WRENCH	13MM
IG7706	6" - 150MM ADJUSTABLE WRENCH	19MM
IG7708	8" - 200MM ADJUSTABLE WRENCH	24MM
IG7710	10" - 250MM ADJUSTABLE WRENCH	29MM
IG7712	12" - 300MM ADJUSTABLE WRENCH	34MM

### COMFORT GRIP ADJUSTABLE WRENCHES

A unique adjustable wrench with a grooved gripping jaw for a firmer grip. Supplied with a comfort grip handle, increment marked scales and a satin finish.



Cat No.	Description	Gripping Range
110590	6" - 150MM ADJUSTABLE WRENCH	6-19MM
110592	8" - 200MM ADJUSTABLE WRENCH	9-24MM
110594	10" - 250MM ADJUSTABLE WRENCH	10-29MM
110596	12" - 300MM ADJUSTABLE WRENCH	10-34MM



Need your products supplied with test certificates? We can help.

# CHROME WRENCH SETS

## COMBINATION RATCHETING WRENCH SET

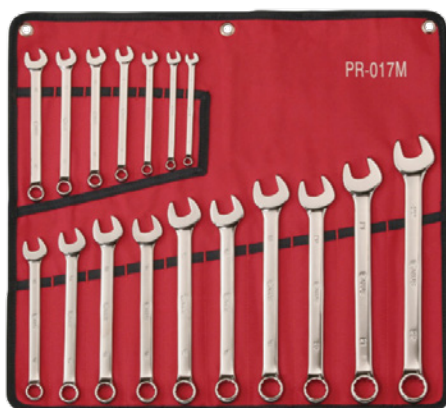
### FEATURES

- 72-tooth Ratchet ring and open end wrench set
- Sizes: 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19mm
- Chrome polish finish
- Supplied in handy tool roll



Cat No.	Description
TNGW7611M	11PC 8 - 19MM RATCHET RING AND OPEN END WRENCH SET

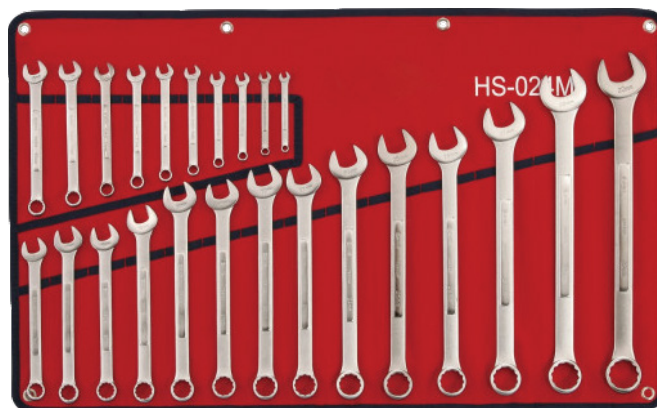
## RING & OPEN END WRENCH SETS



TNPR017M

### FEATURES

- Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22mm
- Full polish chrome finish
- Supplied in heavy duty tool roll



TNHS024M

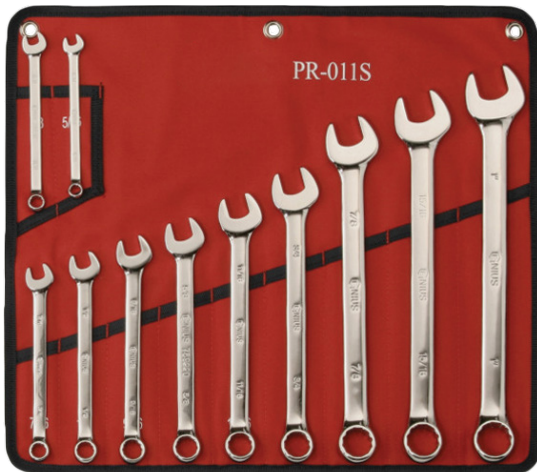
### FEATURES

- Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32mm
- Satin chrome finish
- Supplied in heavy duty tool roll

Cat No.	Description
TNPR017M	17PC ROE METRIC WRENCH SET 6MM - 22MM
TNHS024M	24PC ROE METRIC WRENCH SET 6MM - 32MM



## RING & OPEN END WRENCH SETS



### FEATURES

- Sizes: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", 1"
- Full polish chrome finish
- Supplied in heavy duty tool roll

### FEATURES

- Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4"
- Satin chrome finish
- Supplied in heavy duty tool roll

Cat No.	Description
TNPR011S	11PC ROE IMPERIAL WRENCH SET 5/16" - 1" AF
TNHS016S	16PC ROE IMPERIAL WRENCH SET 1/4" - 1.1/4" AF

We're doing our bit with TransNet Sustainability Initiatives

- ISO 14001 Accreditation
- ISO 14064-1 Accreditation
- Carbon Managed



## JUMPERS

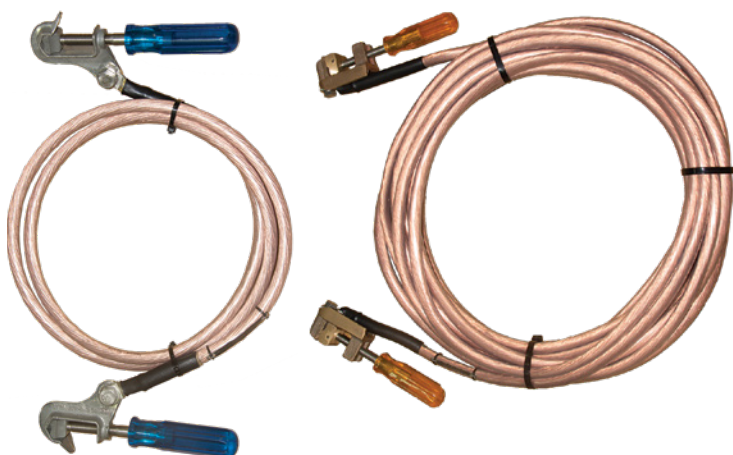
### LV JUMPERS - CUSTOM MADE

WHEN ORDERING PLEASE SPECIFY:

- Conductor Size
- Jumper Lead Length

\*Made to order, choice of clamp, conductor size and length

<b>CONDUCTOR SIZES</b>	35mm <sup>2</sup>
	50mm <sup>2</sup>
	70mm <sup>2</sup>
	95mm <sup>2</sup>
<b>LENGTH</b>	0.5m increments
<b>CLAMP ACCOMMODATES</b>	4-19mm OD (Blue handle)
	0-27mm OD (Yellow handle)



### LV JUMPER CABLE - CLEAR SHEATH

Extra flexible electrolytic copper cable, with 750V insulated protection made of crystal clear PVC, for visual inspection of the copper filaments, suitable for grounding equipment and terminals.

Cat No.	Size (mm <sup>2</sup> )	ISC Cap. (Symmetric KA) 30 Cycles (0.5X)
CTC-35	35	10
CTC-50	50	15
CTC-70	70	20
CTC-95	95	30



### LV JUMPER CLAMPS

Perfect for LV Jumper leads or Truck earths, these clamps are easy to use and robust to offer a long service life.

Cat No.	Description
BPL12-TIN	S/DRIVER CLAMP (BLUE) JAW OPENING 5-19MM OD
SC-P101559-02	S/DRIVER CLAMP (YELLOW) JAW OPENING 0-27MM O.D., STRAIN RELIEF FITS CABLE 25-35MM <sup>2</sup>



## INSULATED MV JUMPERS

Temporary Jumper Sets are used for bypassing work areas where equipment is under repair, the line is being upgraded and for making temporary or other emergency repairs. Pre-assembled for popular distribution system voltages, continuous current ratings for sets range from 200-400 amperes.

Insulation is Ethylene-propylene (EPR) and exceeds requirements of ICEA-NEMA standard S-68-516. Jumper Clamps feature high impact polyethylene handles with wide handguard flange.

**NOTE:** Adequate PPE must be worn when installing or removing jumper clamps.



FLV211179+3M OF 3641

C601-0271

Cat No.	Description	Length (m)
C601-0271	AB CHANCE 33KV, 200A JUMPERS	3.6
FLV211179+3M OF 3641	15KV TRANSFORMER JUMPER 200A	3

## TEMPORARY EARTH SETS

### TEMPORARY LV EARTH SETS

- Flexible Copper Conductor with a clear sheath for ease of visual inspections
- Screwdriver handle clamps mean no tools are required for installation
- Reusable, these jumpers are for temporary use and can be used over and over again
- Strain relief applied to connection point for longevity of unit
- Designed for low voltage applications only
- Clear centre cluster for visual inspection of connection integrity
- Available with 35mm<sup>2</sup>, 50mm<sup>2</sup> or 70mm<sup>2</sup> conductor

Custom earth sets available, please contact us with your requirements.



Cat No.	Number of Leads with Handles	Length of Leads	Feature
LVE/SET6X2M35MM2LEAD	6	2M	
LVE/SET35MM1.5M10M	5	4 × 1.5M, 1 × 10M	
JUMPSETLV5WAY2MTR	5	2M	COMES IN CARRY BAG
LVE/SET35MM1.5M5M	5	4 × 1.5M, 1 × 5M	
LVE/SET35MM2M	4	2M	
LVE/SET35MM5X1.5/10M	6	5 × 1.5M, 1 × 10M	



## TEMPORARY 11/33KV EARTH SETS

Temporary earth sets with attached earth stick for visual confirmation of earth set installation. These earths are a well known and extensively used design here in New Zealand.

The set is made up of the following;

- 3 x 3m leads attached to fully insulated line clamp hotsticks
- 1 x 9m lead from cluster to ground with ground clamp
- 1 x 1m lead from cluster to pole with ground clamp to bond pole metal work
- 1 x heavy duty storage bag
- 1 x 1m earth stake

- 1 x Acrylic cluster cover for easy fast inspection of connections

### FEATURES

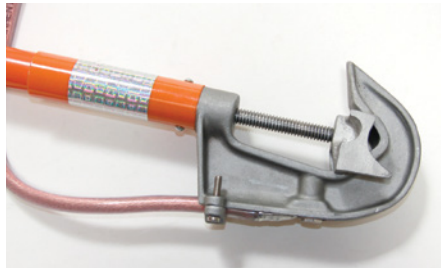
- Reflector at the top of each stick for night time visual check
- Factory test report supplied with every set
- Unique serial number for traceability
- Inspected and tested to IEC 61230 standard

### ALSO AVAILABLE

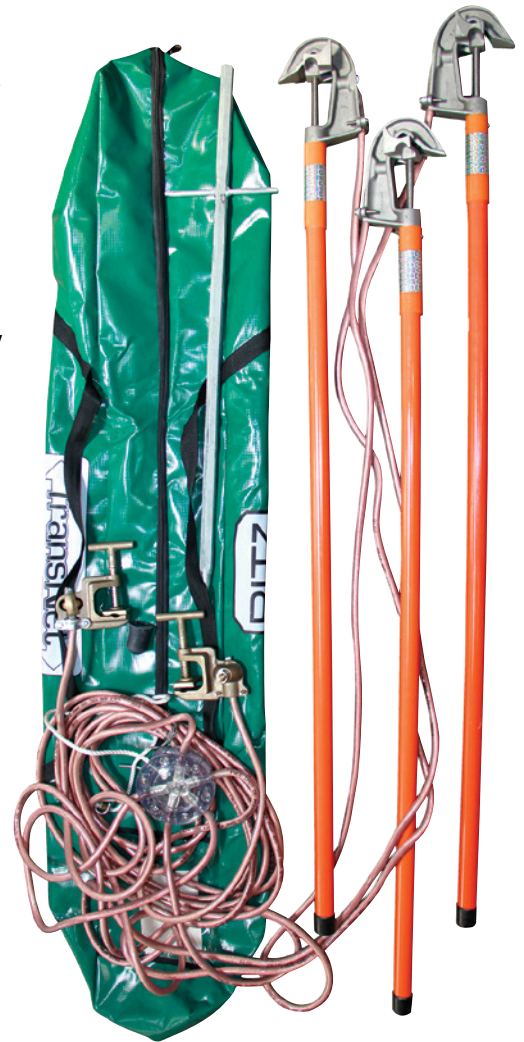
- Longer 2 piece sticks
- 50mm<sup>2</sup> conductor for higher fault current applications



Clear cluster



Reflective tape



Extendable Hotsticks

Cat No.	Description
CAR/ST-NZ-HG14880	RITZ PORTABLE EARTH SET, 35MM <sup>2</sup>
CAR/ST-NZ-HG14880-5	RITZ PORTABLE EARTH SET, 50MM <sup>2</sup>
TN11-33KV/SET	RITZ PORTABLE EARTH SET, 35MM <sup>2</sup> , 2 PIECE STICKS



## TEMPORARY 11/33KV EARTH SETS - SNAP ON CLAMP

Temporary earth sets with “snap on clamps” are available with a separate earth lead or with the earth looped into the set.

These spring loaded clamps make it extremely fast and easy to install the earths on overhead lines, the operator simply sets the preloaded jaw of each clamp and mounts them onto the application plate which is connected to a hotstick. Once the clamps are mounted to the application plate they are lifted above the conductor and pulled back down over it to snap into place.

These clamps are equally easy to remove, simply pull each clamp from the conductor with the clamp removal tool specifically

designed for use with these clamps.

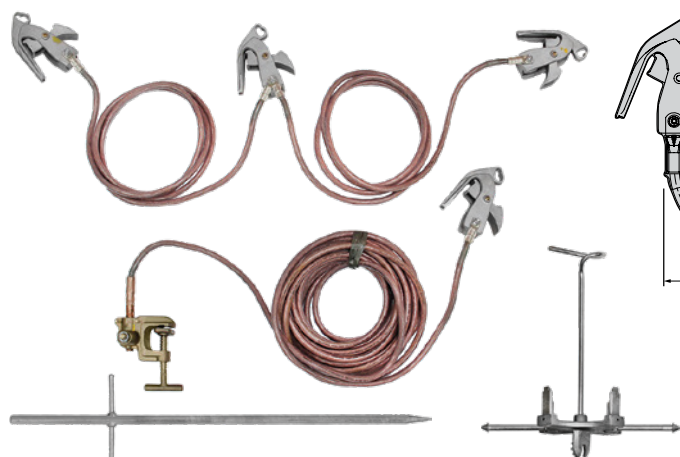
A three phase set with separate earth lead helps to reduce the amount of weight being lifted into the air while the looped shorting and earth set offers the convenience of everything already being connected (this is ideal for urban applications).

### ACCESSORIES

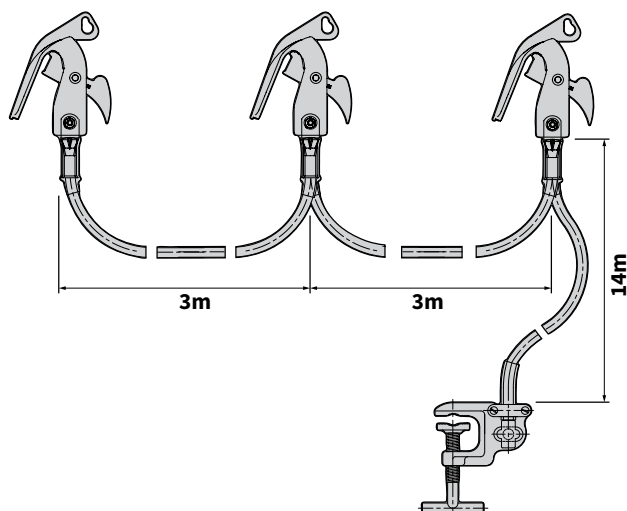
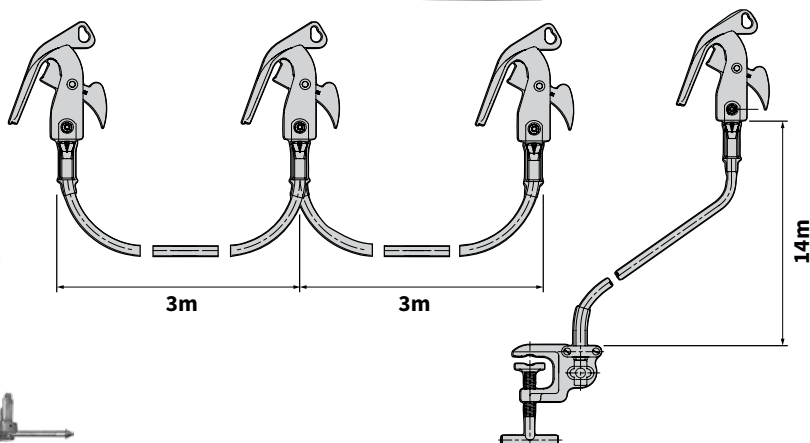
- Application platform – to attach snap on clamps to overhead lines, comes with universal hotstick attachment
- Clamp removal tool – to remove snap on clamps from overhead lines, comes with universal hotstick attachment



ATR-C-01400



ATR-C-01401



Cat No.	Description
ATR-C-01400	RITZ SNAP CLAMP PORTABLE EARTH SET WITH SEPARATE GROUND LEAD, 35MM <sup>2</sup> CU
ATR-C-01401	RITZ PORTABLE SNAP CLAMP EARTH SET WITH COMBINED GROUND LEAD, 35MM <sup>2</sup> CU
ATR13628-1	RITZ SNAP CLAMP
ATR1442-1	RITZ SNAP CLAMP REMOVAL TOOL
ATR04694-1	RITZ ALUMINIUM UNIVERSAL CLUSTER FOR INSTALLING & REMOVING GROUND CLAMPS

# LOAD LIFTING TOOLS & ACCESSORIES

## WIRE GRIPS

Used to maintain temporary tension on cables until they can be permanently terminated. These grips are to be used for pulling lines up to tension only, and are not to be used as anchors. To select the correct wire grip simply determine the type of wire or cable to be tensioned, the size of that wire or cable and the maximum safe load required, all of this information is outlined in the table.

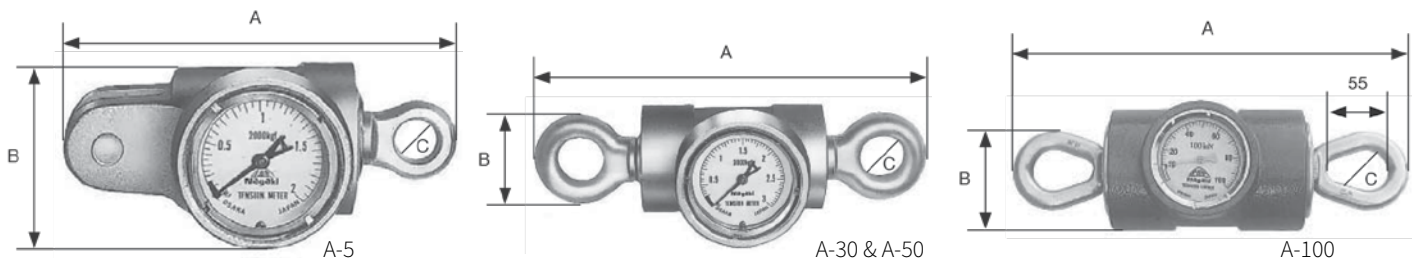
The grips have different jaw contours based on the type of wire or cable they are designed to be used on. The jaw length and contour determined ensures the least amount of damage or deformation of the cable or wire.



Cat No.	Description	Type of Conductor	Eye Size	Safe Load	Conductor Dia Range (mm)	Weight (kg)
TN500G	MINI-GRIP	STEEL ROD, BARBED WIRE & MESSENGER WIRE	STANDARD	0.5T	1-10	0.3
TNABC	TNABC-GRIP	AERIAL BUNDLED CONDUCTOR	LARGE	0.85T	4 × 35 – 4 × 95	3
TNSD-L-1000C	SD-L-GRIP	STEEL ROD, COPPER CABLE & MESSENGER WIRE			2.6-15	0.6
MESSEN-L-GRIP	MESSEN-L-GRIP	COPPER CABLE & MESSENGER WIRE	LARGE	1.0T	4-12	0.7
TNS-1000CL	1TON-L-GRIP	BARE COPPER CABLE, COVERED CONDUCTOR & MESSENGER WIRE			4-22	1.1
TNS-2000CL	2TON-L-GRIP	BARE COPPER CABLE, COVERED CONDUCTOR & MESSENGER WIRE			4-22	1.3
TN2000MAL	AL-MIDDLE-GRIP	BARE ALUMINIUM & BARE COPPER CABLE			5-25	1.8
TN2000MCL	MIDDLE-L-GRIP	COPPER CABLE, COVERED CONDUCTOR & MESSENGER WIRE	LARGE	2.0T	5-25	1.8
TN2000LAL	AL-LARGE-GRIP	BARE ALUMINIUM & BARE COPPER CABLE			16-32	2
TN2000LCL	LARGE-L-GRIP	COPPER CABLE & COVERED CONDUCTOR			16-32	2.1

## TENSION METERS

Used for measurement of tension and load when building and re-sagging lines. Small, strong and lightweight — Nagaki Tension Meters are available in a range of sizes and strengths.



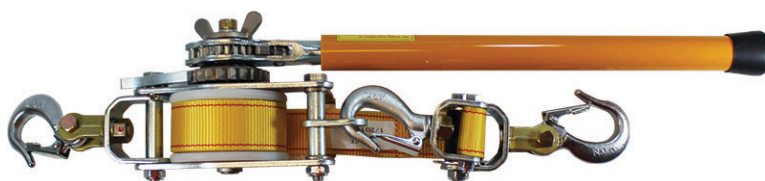
Cat No.	Description	Graduation	Dimensions (mm)			Weight (kg)
			A	B	C	
A-5	500 KG	100N (10KG)	110	65	16	0.7
A-30	3.0 TON	500N (50KG)	150	80	28	2
A-50	5.0 TON	1KN (100KG)	260	95	28	3
A-100	10 TON	2KN (200KG)	360	100	38	7

## STRAP HOISTS

Perfect for tasks such as pulling slack wire, tensioning cables, tightening guy wires or placing transformers etc, these units feature a nylon strap.



1702-20N



N1500P-EX



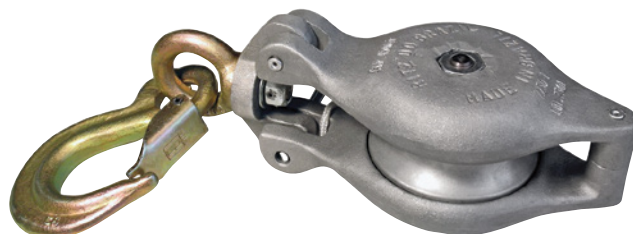
LUGALL 2-A

Cat No.	Description
2-A	LUGALL STRAP HOIST 1TON
2-B	LUGALL STRAP (SHOTGUN) HOIST 1-1.5TON
3-A	LUGALL STRAP HOIST 1.5TON
N-1500P	STRAP HOIST 1.5TON, LENGTH 470-1940MM
N-1500P-EX	STRAP HOIST 1.5TON, LENGTH 500-2000/3500MM
1702-20N	KLEIN HOWE WIRE TOOL (NYLON STRAP)

## SNATCH BLOCKS

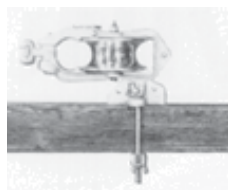
With a 5/8" diameter, 16mm O.D. rope capacity and weighing just 1.2kg, these versatile units are a must have.

Cat No.	Description
2230-1	RITZ SNATCH BLOCK, RATED WORK LOAD 1250LB

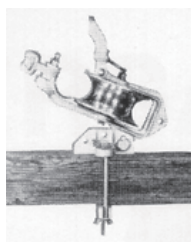


# STRINGING ROLLERS

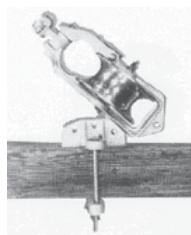
## UNIVERSAL STRINGING ROLLER



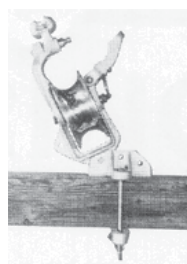
90 deg.



67.5 deg.



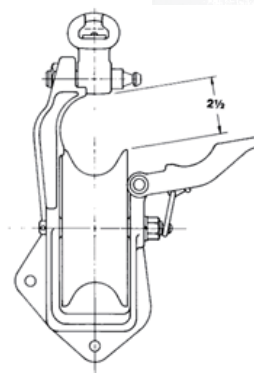
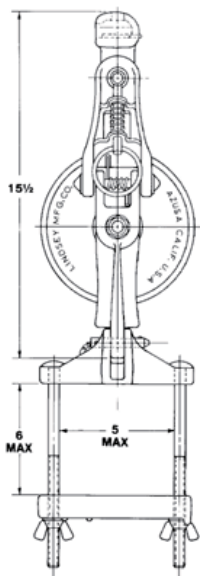
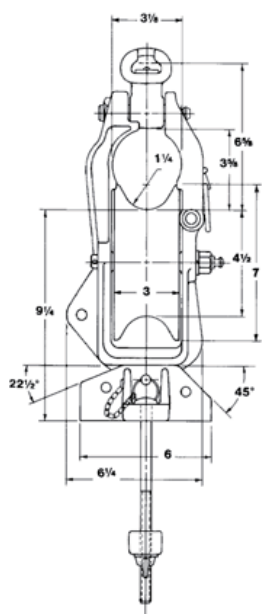
45 deg.



22.5 deg.



TNCSR5930

Keeper Locked  
Open Position

TNCSR5900

Cat No.	Maximum Diameter of Conductor or Splice (mm)	Safe Working Load Suspended or Mounted (kN)	Combined Roller Weight (kg)
TNCSR5930	45	11	6
TNCSR5900	45	11	6

# CHAIN TENSIONERS

## CHAIN TENSIONER - RICKY

### FEATURES

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



Cat No.	Load Ton	Diameter of Chain (mm)	Contraction Length (mm)	Stretch Length (mm)	Lift Length (mm)	Handle Length (mm)	Weight (kg)
RICKY-2	0.75T	5	300	1800	1500	230	4
RICKY-3	1.5T	5	350	1850	1500	230	5





# LIVE LINE ROPE

## HY-DEE BRAIT ROPE

Hy-Dee is an 8-strand bi-polymer rope with extraordinary dielectric properties. The rope is nubby which provides excellent grip, and treated with a proprietary chemical mixture Yale calls Aralube-dielectric.



This treatment is the key to Hy-Dee Brait's wet dielectric performance and allows us to make the highest dielectric strength rope commercially available. Easy to splice with a tucking procedure or by the quick splice method illustrated.

Hy-Dee Brait complies to ASTM F1701-12 which calls for a maximum leakage of 250 micro-amperes at any time during the wet test. Electrodes are 1 foot apart, shielded and the test is conducted at 50KV-AC.

This product is 100% lot tested for dielectric conformance.

Cat No.	Size (inch)	Roll Length (ft)
3/8HYDEE	3/8	380
63071	9/16	600
7112932R	1/2	600
7112940R	5/8	600
7112948R	3/4	985



Have you got your copy of the  
TransNet Safety Catalogue?

## HOTSTICKS & ACCESSORIES

RITZGLAS insulated hot sticks are available in many forms, they are made to the highest quality and offer effective protection for operators working on energised systems.

### TRIANGULAR TELESCOPIC STICKS

The RITZGLAS Triangular Telescopic Hotstick was designed to make work with overhead electrical systems faster and easier for the operator. The standard aluminium universal head means it can accommodate standard fittings.

- Triangular shape requires no twisting to lock each section
- Each VTT Hot stick comes with a rubber ring and seal to secure the end fitting for storage and transportation

- Also available with metric measuring markers, useful for vertical span measurements (specify M when ordering)
- Modular system enables the operator to use only the number of sections required for each job. All sections are available separately in order to replace damaged sections of a stick
- Assembled with epoxy-resin reinforced fibreglass poles, the VTT range complies with ASTM F-1826/99 and IEC 62193/03

Cat No.	Description
VTT-2	STANDARD TELEPOLE 1.42-2.58M
VTT-3	STANDARD TELEPOLE 1.49-3.8M
VTT-4	STANDARD TELEPOLE 1.52-5.00M
VTT-5	STANDARD TELEPOLE 1.57-6.42M
VTT-6	STANDARD TELEPOLE 1.64-7.77M
VTT-7	STANDARD TELEPOLE 1.68-9.14M
VTT-8	STANDARD TELEPOLE 1.72-10.5M
VTT-9	STANDARD TELEPOLE 1.76-12.05M



### MEASURING TRIANGULAR TELESCOPIC STICKS

Cat No.	Description
VTT-1/4M	MEASURING TELEPOLE 1.54-5.10M
VTT-1/7M	MEASURING TELEPOLE 1.68-9.14M
VTT-1/8M	MEASURING TELEPOLE 1.72-10.5M
VTT-1/9M	MEASURING TELEPOLE 1.76-12.05M



### TRIANGULAR TELESCOPIC STICK SPARE PARTS

Standard Stick Section	Measuring Stick Section				Description
	VTT-1/4M	VTT-1/7M	VTT-1/8M	VTT-1/9M	
VT-1	VT1M-4	VT1M-7	VT1M-8	VT1M-9	1ST SECTION
VT-2	VT2M-4	VT2M-7	VT2M-8	VT2M-9	2ND SECTION
VT-3	VT3M-4	VT3M-7	VT3M-8	VT3M-9	3RD SECTION
VT-4	VT4M-4	VT4M-7	VT4M-8	VT4M-9	4TH SECTION
VT-5	-	VT5M-7	VT5M-8	VT5M-9	5TH SECTION
VT-6	-	VT6M-7	VT6M-8	VT6M-9	6TH SECTION
VT-7	-	VT7M-7	VT7M-8	VT7M-9	7TH SECTION
VT-8	-	-	VT8M-8	VT8M-9	8TH SECTION
VT-9	-	-	-	VT9M-9	9TH SECTION





## GRIP ALL CLAMPSTICKS

Made from RITZGLAS, Grip All Clampsticks are the most versatile tool in a line workers hands. The Grip all stick puts an easy-to-control finger on an insulated pole. Primarily designed for installing hot-line and grounding clamps, it proves useful in many other applications with various end fittings.

Commonly called a 'shotgun' the operating mechanism incorporates a sliding hand grip that opens the hook to grasp a clamp eye screw and retract it into the tool head. A thumb latch then must be depressed to release the locked hand grip so it can open the hook.

Cat No.	Description
C403-0291	STANDARD GRIPALL STICK 1.35M
C403-0292	GRIPALL STICK 1-1/4 × 6` 5-1/2
C403-0293	GRIPALL STICK 2.58M



## UNIVERSAL STICKS

The RITZGLAS Universal Sticks (also known as Sectional sticks) are made up of foam filled unicellular Polyurethane, dielectrically tested to 100kV/ft according to ASTM F711. In order to make handling, storage and transportation more practical, the Sectional Hotstick is made up of standardised sectional elements which

are interchangeable and attached with quick spring-action locking pins.

- The total length can be increased or reduced by adding or removing sections thus altering the working voltage class
- 38mm OD handle and middle sections, 32mm OD top section

Cat No.	No. of Pieces	Max Length (m)
VMR-15	1	1.25
VMR-30	2	2.70
VMR-45	3	3.95
VMR-70	4	5.20
VMR-90	5	6.45



## UNIVERSAL STICK SPARE PARTS

Cat No.	Description
VMR-I	INTERMEDIARY SECTION POLE
VMR/L-I	INTERMEDIARY SECTION POLE
VMR-P	BASE SECTION POLE
VMR/L-P	BOTTOM SECTION POLE
VMR-S	END ELEMENT STICK
VMR/L-S	LIGHT END ELEMENT STICK



## HOTSTICK STORAGE BAGS

Cat No.	Type of Stick	To Fit Stick
SLT-2/3	SINGLE PIECE STICKS	VTT-2 & VTT-3
SLT-4/5		VTT-4 & VTT-5
SLT-6/7		VTT-6 & VTT-7
SLT-8/9		VTT-8 & VTT-9
SLD-15/B	MULTI PIECE STICKS	VMR-15
SLD-30/B		VMR-30
SLD-45/B		VMR-45
SLD-70/B		VMR-70



SLT - Single piece sticks



SLD - Multi piece sticks

## CLEANING, REPAIR & MAINTENANCE

### HOTSTICK REPAIR KITS

Repair damage to hotstick surfaces to ensure integrity of dielectric strength and insulation capabilities. These repair and reglossing kits offer protection to the surface of the hotstick to seal them from contaminants.

Cat No.	Description
H1917	AB CHANCE BOND PATCHING KIT
C400-2364	AB CHANCE MOISTURE EATER II, 1GAL
RT400-0803	RITZ GLOSS RESTORER KIT



H1917



C400-2364

### LIVE LINE CLEANERS

In order to keep live line gloving equipment in the best working condition it is important to keep it clean. These products will remove dirt and contaminants without damaging the integrity of the equipment.

Cat No.	Description
S4	LIQUID RUBBER CLEANER, 1GAL
C400-2365	AB CHANCE EPOXIGLASS CLEANING KIT
S-1	DISPOSABLE SILICONE WIPING CLOTH
M1904	AB CHANCE REUSEABLE SILICONE WIPING CLOTH



S-1



M1904



C400-2365



S4





## HOTSTICK TOOL ACCESSORIES

All Tools listed in this section have the universal head for perfect connection to universal hot sticks. These tools have been selected because of the work they enable Linemen to do when working with the Hotstick method. Each tool is

designed to do a specific task even when angles and working positions present a challenge.

There are many more universal tools available on request, please contact customer service for details.

### TNHSFP

Pigtail hand & hotstick disconnect head.

Cat No.	Weight (kg)	Details
TNHSFP	0.03	UV STABILISED STURDY PLASTIC FUSE PULLER WITH PIGTAIL HEAD. HAND OR HOTSTICK OPERATED



### DUALPULLER

Disconnect head, dual fitting.

Cat No.	Weight (kg)	Details
DUALPULLER	0.13	SERVICE FUSE AND DDO DISCONNECT IN ONE



### M4455-9

Ritz disconnect tool for DDO

Cat No.	Weight (kg)	Details
M4455-9	0.06	USED FOR OPERATING SWITCHES, OPENING ENCLOSED CUTOUTS ETC.



### M4455-71

AB Chance disconnect head.

Cat No.	Weight (kg)	Details
M4455-71	0.09	POINTED DISCONNECT USED TO OPERATE CERTAIN TYPES OF DISCONNECT SWITCH



## FC-P101770-01

Tool for extracting fuse base from NZI ceramic pole fuse

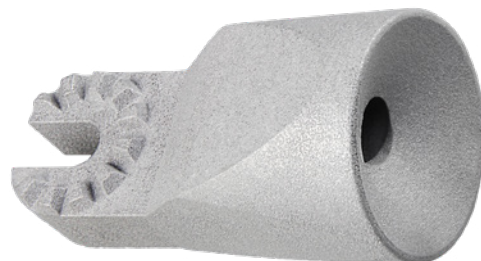
Cat No.	Weight (kg)	Details
FC-P101770-01	0.87	USED TO REMOVE AND REPLACE THE FUSE BASE IN A K293 FUSE SWITCH DISCONNECT



## K293-TOOL

Tool for extracting fuse base from K293 FSD unit

Cat No.	Weight (kg)	Details
K293-TOOL	0.12	USED TO REMOVE AND REPLACE THE FUSE BASE IN A K293 FUSE SWITCH DISCONNECT



## M4455-26A

Ritz fine tooth pruning saw.

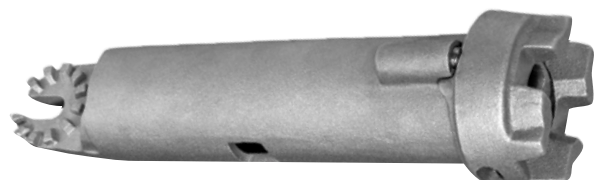
Cat No.	Weight (kg)	Details
M4455-26A	0.36	USED FOR CUTTING TREES THAT ARE CLOSE TO ENERGISED LINES



## M4455-29/B

Ritz clamp stick head with plastisol covered jaws.

Cat No.	Weight (kg)	Details
M4455-29/B	0.3	152MM UNIVERSAL CLAMP STICK HEAD, FOR INSTALLATION AND REMOVAL OF EYESCROW GROUNDING CLAMPS ON ENERGISED OR DE-ENERGISED SYSTEMS



## M4455-77

Ritz HRC fuse puller 2.7-38mm O.D.

Cat No.	Weight (kg)	Details
M4455-77	0.97	USED TO INSTALL OR REMOVE FUSES FROM 13-38MM OD WHILST LINES ARE ENERGISED. FULLY ADJUSTABLE AND ABLE TO BE PRESET WITHOUT LOCKING SO IT WILL ALIGN WITH THE FUSE DURING THE PULLING OPERATION



## M4455-92

Ritz conductor cleaning brush with adaptor.

Cat No.	Weight (kg)	Details
M4455-92	0.53	64MM DIAMETER SEMI-TUBULAR SHAPE CONDUCTOR CLEANING BRUSH WITH SWIVEL HEAD AND UNIVERSAL FITTING ALLOW LINEMEN TO CLEAN THE ENTIRE CIRCUMFERENCE OF THE ENERGIZED CONDUCTOR



## TNGPSSA

Adaptor for Go-Pro camera mounting case.

Cat No.	Weight (kg)	Details
TNGPSSA	0.06	USED TO ASSESS ASSETS FOR MAINTENANCE OR UNDER FAULT CONDITIONS TO DOCUMENT DAMAGE ETC



## TNMG4/32

Diameter measuring gauge 4-32mm O.D.

Cat No.	Weight (kg)	Details
TNMG4/32	0.09	USED TO IDENTIFY AND ACCURATELY MEASURE OVERHEAD CONDUCTORS



## ABC TOOLS

### ABC INSTALLATION PULLEY

- Maximum load is 250kg
- Provides clear working space for field staff
- No lifting of cables required, simply pull them through the pulley and terminate into suspension clamp



Cat No.	Description
PO	INSTALLATION PULLEY UP TO 250KG, 4C 25 – 4C 150MM <sup>2</sup>

### ABC PULLING SOCK

- Nylon stranding, Alloy ferrule and soft eye
- For use on 4 x 95mm<sup>2</sup> ABC
- Grip length is approximately 800mm
- Maximum pull is approximately 25kN



Cat No.	Description
LV495	PULLING SOCK 4C 95MM <sup>2</sup> ABC

### SWIVEL

- For use with pulling socks to eliminate twist
- 1.5T safe working load
- Length 125mm
- Diameter 40mm



Cat No.	Description
SWIVEL	1.5T SWIVEL



## ABC WIRE GRIP

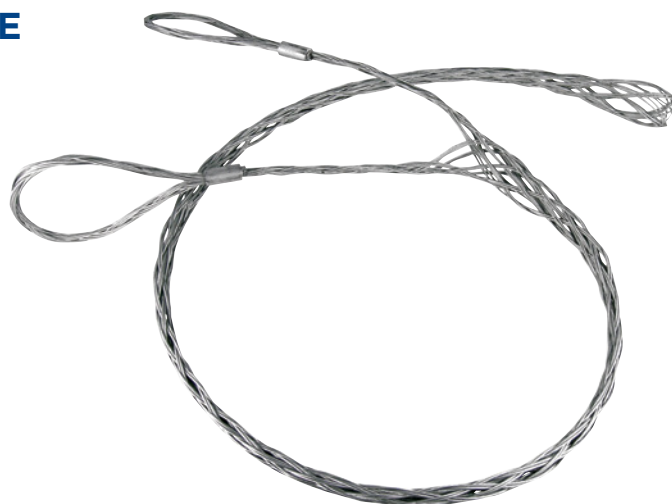
- Jaw size 190mm
- Minimum cable size 4x35mm<sup>2</sup>
- Maximum cable size 4x95mm<sup>2</sup>
- Weight 3kg



Cat No.	Jaw Length (mm)	Min Cable Diameter (mm <sup>2</sup> )	Max Cable Diameter (mm <sup>2</sup> )	Weight (kg)
TNABC-GRIP	190	4 × 35	4 × 95	3

## HV ABC STRINGING EQUIPMENT

### CABLE PULLING SOCKS - DOUBLE EYE



Cat No.	To Fit 11kV HV ABC (mm <sup>2</sup> )
TNHV335-NMS-11	35
TNHV350-NMS-11	50
TNHV370-NMS-11	70
TNHV395-NMS-11	95
TNHV3120-NMS-11	120
TNHV3185-NMS-11	185



### CABLE PULLING SOCKS - SINGLE EYE

Cat No.	To Fit Catenary HV ABC
TNHV-C1010	19/2.00 SC/GZ
TNHV-C1012	7/4.75 AAAC
TNHV-C1014	19/3.50 AAAC

## LADDERS

### BRATTS TIMBER LADDERS

Bratts have been making ladders since 1895 and are suppliers of non-conductive access equipment to all major electricity company in the UK, Bratts also supply telecom and gas utilities, chemical, oil, rail, aviation, construction and similar industries worldwide. Bratts are well known as a quality manufacturer of BS1129 Class 1 Kitemark Timber and BS EN131 Kitemark Glassfibre ladders, stepladders and specialist access

products for industrial use. Bratts also supply a large range of safety equipment and BS2037 Class 1 Kitemarked Aluminium ladders and stepladders.

Bratts can make access equipment to your specification, quote for repairs, run certified training courses and offer advice and run maintenance routines. They are still maintaining timber ladders they supplied to the electric supply industry over 25 years ago!



#### ACCESSORIES

- Suction Feet
- Octopus Feet
- Serrated R/Blk Feet
- Rubber Block for WC Ladder
- Bows
- Web Bow
- GF/Bow
- B/Bow
- Fixed Bow
- V/Bow
- A/Bow
- Clam Cleat & Rope
- Engraving up to 10 Characters



Auto clutch, Rope op & Octopus feet



Cleat and Rope



Web Pole Bow

Manufactured from Douglas Fir stiles with Ash rungs housed full section, glued and pinned into blind holes at 250 mm centres. Tie rods are fitted at intervals or every rung if required. All ladders marked with an asterisk are reinforced with steel wire or non-conductive materials for use where there are Electrical Hazards. All British Standard Extending Ladders and Three Section Ladders over 3.00m closed length should be rope operated. All metal fittings are rust-proofed. Varnished Finished.

#### TWO SECTION TIMBER LADDER, CLASS 1

Cat No.	Size Closed		Size Extended		Approx. Weight
HHD08	2.36M	7' 9"	4.14M	13' 7"	15.0 KG
HHD09	2.67M	8' 9"	4.80M	15' 0"	17.0 KG
HHD10	3.00M	9' 10"	5.41M	17' 9"	18.0 KG
HHD11	3.28M	10' 9"	5.79M	19' 0"	21.0 KG
HHD12	3.63M	11' 10"	6.68M	21' 11"	24.0 KG
HHD14	4.19M	13' 9"	7.70M	25' 3"	29.0 KG
HHD16	4.75M	15' 7"	8.71M	28' 7"	34.0 KG
*HHD18	5.41M	17' 9"	9.98M	32' 9"	43.0 KG
*HHD20	6.00M	19' 8"	11.0M	36' 1"	52.0 KG

**Note:** Add 'T' to codes for tie rods each rung

**Note:** Add 'R' to code for rope operation

#### THREE SECTION TIMBER LADDER, CLASS 1

Cat No.	Size Closed		Size Extended		Approx. Weight
HDT08	2.36M	7' 19"	5.41M	17' 9"	28.0KG
HDT10	3.00M	9' 10"	7.70M	25' 3"	30.0KG
*HDT12R	3.63M	11' 10"	9.22M	30' 3"	38.0KG
*HDT14R	4.19M	13' 9"	10.M	36' 1"	47.0KG
*HDT16R	4.75M	15' 7"	12.80M	42' 0"	70.0KG
*HDT18R	5.41M	17' 9"	14.30M	46' 11"	90.0KG
*HDT20R	6.00M	19' 8"	15.82M	51' 11"	101.0KG

**Note:** Add 'T' to codes for tie rods each rung

**Note:** Add 'R' to code for rope operation



## POP'N'WORK TENTS

Pop'N'Work tents provide a safe and comfortable work environment to increase productivity and reduce weather related delays. Made from a lightweight, UV protective polyester that is water repellent and flame resistant to CPAI-84 standards. Pitched roof provides extra headroom and structural strength to hang tools & lights.

### FEATURES

- Sizes from 4' x 4' up to 12' x 10'
- Two year guarantee on the frame
- Set up in seconds
- No loose parts
- Lightweight and durable
- Convenient - POP'N'WORK Quick-Pack, tent rolls up into carrying case, no separate bag
- Exclusive POP'N'WORK unified frame made with cold rolled steel and fibreglass is virtually unbreakable
- Tie downs for windy weather
- One or two door options
- Screen windows with flap
- Vent ports
- Floor available
- Beyond just adding a logo we can engineer a tent to your specific application

### Type - AERIAL BUCKET TENTS

Supplied With Fibreglass Non-conductive Dielectric Frames

### Type - FX TENTS

Include X frame on back wall for added stability. Frames made from cold rolled steel and fibreglass, virtually unbreakable frames. Hi-vis covers, flame retardant, UV treated and water repellent.

### Type - GS TENTS

Include two full side wall tension frames for added stability. Frames made from cold rolled steel and fibreglass, virtually unbreakable frames. Hi-vis covers, flame retardant, UV treated and water repellent. SIP models feature split rear ground strut

**NOTE:** Customise your Pop'n'Work tent by adding your logo, for more information and costs associated with this option please contact our customer service team.



Cat No.	Imperial Size D x W (ft)	Metric Size D x W (m)	Type	Height (m)	Details
4800D	4 x 4	1.2 x 1.2	AERIAL BUCKET TENT	-	CANOPY WITH WINDOW, DETACHABLE CURTAIN WALLS C/W FRAME AND MOUNTING BRACKETS
4800DC	4 x 4	1.2 x 1.2		-	CANOPY WITH WINDOW, C/W FRAME AND MOUNTING BRACKETS
4800DP	4 x 4	1.2 x 1.2		-	CANOPY WITH WINDOW, FIXED CURTAIN WALLS C/W FRAME AND MOUNTING BRACKETS
4800DS	4 x 4	1.2 x 1.2		-	CANOPY C/W FRAME AND MOUNTING BRACKETS
GS-4411A	4 x 4	1.2 x 1.2	GROUND TENT	2.0-1.8	'A' SHAPE FRONT DOOR
GS4412	4 x 4	1.2 x 1.2		2.0-1.8	ROLL UP FRONT DOOR
GS4423	4 x 4	1.2 x 1.2		2.0-1.8	ROLL UP FRONT DOOR & 'A' SHAPE REAR DOOR
GS-4423SIP	4 x 4	1.2 x 1.2		2.0-1.8	ROLL UP FRONT & 'A' SHAPE REAR DOORS, SPLIT REAR GROUND STRUT
GS4423VT	4 x 4	1.2 x 1.2	VERSA TENT	1.8-1.5	SLOPED ROOF, ROLL UP FRONT & 'A' SHAPE REAR DOORS
PEDPAL2	4 x 5	1.2 x 1.6	COMPACT TENT	1.6	SINGLE 'A' SHAPE FRONT DOOR
GS-6411A	6 x 4	1.8 x 1.2	GROUND TENT	2.0-1.8	'A' SHAPE FRONT DOOR
GS-6423SIP	6 x 4	1.8 x 1.2	GROUND TENT	2.0-1.8	ROLL UP FRONT & 'A' SHAPE REAR DOORS, SPLIT REAR GROUND STRUT
GS-6523VT-F	6 x 5	1.8 x 1.6	VERSA TENT	2.0-1.8	SLOPED ROOF, ROLL UP FRONT & 'A' SHAPE REAR DOORS
GS-6611A	6 x 6	1.8 x 1.8	GROUND TENT	2.0-1.8	'A' SHAPE FRONT DOOR
GS6623CV	6 x 6	1.8 x 1.8	GROUND COVER ONLY	-	FULL WIDTH ROLL UP DOOR & SLIT DOOR
GS-6623SIP	6 x 6	1.8 x 1.8	GROUND TENT	2.0-1.8	ROLL UP FRONT & 'A' SHAPE REAR DOORS, SPLIT REAR GROUND STRUT
GS-8623	8 x 6	2.4 x 1.8		2.3-1.8	ROLL UP FRONT & 'A' SHAPE REAR DOORS
GS-8723VT-F	8 x 7	2.4 x 2.1	VERSA TENT	2.3-2.0	SLOPED ROOF, ROLL UP FRONT & 'A' SHAPE REAR DOORS
GS-8811A	8 x 8	2.4 x 2.4	GROUND TENT	2.3-1.8	ROLL UP FRONT DOOR
GS-8823SIP	8 x 8	2.4 x 2.4		2.3-1.8	ROLL UP FRONT & 'A' SHAPE REAR DOORS, SPLIT REAR GROUND STRUT
GS10823	10 x 8	3.0 x 2.4		2.6-2.0	ROLL UP FRONT & 'A' SHAPE REAR DOORS
FX101011	10 x 10	3.0 x 3.0		2.6-2.3	'A' SHAPE FRONT DOOR
FX121023	12 x 10	3.6 x 3.0		2.6-2.3	ROLL UP FRONT & 'A' SHAPE REAR DOORS
GS-16822HDD	16 x 8	4.8 x 2.4		2.6-2.1	2 x ROLL UP ZIPPER DOORS & SIDE VELCRO OPENING FLAP
SA48	-	-	SUCTION CUPS	-	2PC SET SUCTION CUPS W/WEBBING TENSIONING STRAPS

# POP'N'WORK POP UP WORK SHELTERS

## POP'N'WORK UMBRELLAS

Pop'N'Work Umbrellas have heavy duty frames that can withstand strong winds.

### FEATURES

- Eight panel umbrella with a two piece pointed pole
- 25 degree tilt pole versions available
- Standard colour is yellow, other colours available on special order
- 10 oz Yellow vinyl laminate fabric
- Flame retardant to meet CPAI-84 requirements
- UV treated, waterproof and rot resistant
- Two piece Aluminium pole with Steel spreaders and ribs



Cat No.	Size	Type
5484MS	54" x 54"	SQUARE FOUR PANEL UMBRELLA, WITH SEALED SEAMS. COMPLETE WITH TWO PIECE TILTING POLE AND STORAGE BAG
8492M	84" DIA	OCTAGONAL EIGHT PANEL UMBRELLA, WITH SEALED SEAMS. COMPLETE WITH TWO PIECE TILTING POLE AND STORAGE BAG
UCCS	84" DIA	UMBRELLA AND KOOL KLAMP SYSTEM, 8492M UMBRELLA, TWO PIECE TILTING POLE WITH FOUR HEAVY DUTY SUCTION CLAMPS AND STORAGE BAG
STN2-SD	40" x 40"	LIGHTWEIGHT UMBRELLA STAND, FOLD-UP LEGS. 1M x 1M OPEN BASE
STN1-HD	24" x 43" (44" x 81" EXTENDED)	HEAVY DUTY UMBRELLA STAND WITH EXPANDABLE BASE TO 44" x 81"

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## RESCUE KIT

### LOW VOLTAGE RESCUE KIT

In order to maintain a safe work environment we must take all necessary precautions to deal with an emergency should one occur. One of the easiest precautions to make for people working in the electricity industry is to have an LV rescue kit on site in situations where electric shock could occur.

For ease of identification this LV Rescue Kit is supplied in a heavy duty yellow bag, it is clearly labelled and there is a contents list printed on the inside flap of the bag. This list helps ensure the kit is complete and if it's found to be incomplete it is easy to determine what is missing so it can be restocked.

Designed for use in emergencies around LV electrical systems. It is perfect for all staff tasked with working on live LV electrical systems whatever the location.

#### FEATURES

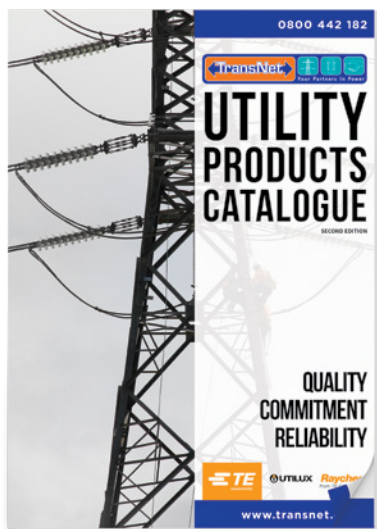
- High quality rescue kit, complies with all relevant standards
- Essential for anyone working on live electricity and live poles
- Suitable for anyone at risk of electric shock including emergency services

#### KIT CONTAINS

- Electrosoft 1000V Electrical Gloves Size 10
- First Aid Booklet
- Multi Trauma Dressing
- 'Isolate Here' Sign
- LV Rescue Hook
- Eveready 2D Brilliant Beam Torch VAL2D
- Fire Blanket 1.2m x 1.8m AS/ NZS 3504 Approved
- Heavy duty yellow storage bag



Cat No.	Description
LVRESCUEKIT	RESCUE KIT FOR WORK ON LOW VOLTAGE SWITCHBOARDS ETC.



TransNet Utility Products Catalogue  
Second Edition available now.



## CLAMP METERS

### MD9272 LEAKAGE CLAMP TRMS METER WITH POWER FUNCTIONS

#### KEY FEATURES

- Jaw size 28 mm
- Shielded Jaw for noisy environments
- Intelligent loss analysis detect loss & allow determining possible reasons for current loss.
- Measures current or voltage harmonic components & percentage value of a harmonic up to the 19th
- Dual display allows readings to be

displayed along with Total Harmonic Distortion (THD) or Power Factor (PF)

- Peak value of waveform or crest factor can be displayed.

- MAX/MIN/HOLD mode display

#### MEASURING FUNCTIONS

- TRMS AC, DC voltage measurement
- TRMS AC current measurement
- Frequency measurement
- Power parameters measurement

Cat No.	Description
MD9272	LEAKAGE CLAMP TRMS METER WITH POWER FUNCTIONS, CAT IV 300V/CAT III 600V



### MD9226 TRMS CURRENT CLAMP METER

#### KEY FEATURES

- Auto-ranging
- LCD display with backlight, 3-5/6 digit, 6000 count
- Automatic, non-contact detection of electromagnetic fields to locate and trace live conductors
- Data hold function
- MIN/MAX/AVG function
- Peak value
- Relative zero
- 35 mm jaw opening

- CAT IV / 300 V, CAT III / 600 V overvoltage categories

#### MEASURING FUNCTIONS

- DC and TRMS AC voltage up to 600 V
- DC and TRMS AC current measurement up to 600 A
- Resistance measurement
- Acoustic continuity test
- Diode test
- Frequency measurement
- Capacitance measurement

Cat No.	Description
MD9226	METREL AC/DC CLAMP, TRMS UP TO 600A, CAT IV 300V



### MD9250 INDUSTRIAL TRMS AC/DC CLAMP METER

#### KEY FEATURES

- Auto-ranging
- Large 55mm jaw opening
- LCD display with backlight
- True RMS
- High current 2000A DC & AC
- Lo-Z AutoCheck® mode provides low (ramp-up) input impedance
- AC/DC voltage or resistance auto-detection

- Transient protection in case of lightning strike or switching surge up to 12 kV.
- Relative zero mode
- PC Link to download test results
- Fast 5ms Crest-MAX mode to capture in-rush currents.
- Temperature up to 1000 °C and 1832 °F.
- Data hold function
- CAT IV / 1000 V overvoltage protection

Cat No.	Description
MD9250	METREL INDUSTRIAL TRMS AC/DC CLAMP METER, CAT IV 1000V



## MULTIMETERS

### MD9070 INSULATION/CONTINUITY DIGITAL MULTIMETER

#### KEY FEATURES

- TRMS for accurate readings of sinusoidal and non-sinusoidal signals
- PI/DAR feature
- VFD feature makes the instrument capable of measuring the true values in accordance with frequency
- Auto-ranging
- Relative zero for comparing the difference between signals or removing background noise
- MAX/MIN/AVG function
- Data Hold feature freezes the display for later view
- Backlight for working in dark conditions

#### MEASURING FUNCTIONS

- TRMS measurement
- Insulation resistance measurement, up to 1kV
- Earth continuity measurement with 200mA
- Resistance measurement
- Diode test
- Mains supply frequency measurement

#### APPLICATIONS

- Insulation and earth continuity tester for preventive maintenance
- High level industrial testing
- High level electronic fault finding
- Field servicing
- Heavy duty electrical testing

Cat No.	Description
MD9070	INSULATION/CONTINUITY DIGITAL MULTIMETER CAT IV 600V/CAT III 1000V



### MD9060 DIGITAL MULTIMETER

#### KEY FEATURES

- One of the most accurate multimeters with a large bandwidth and very high resolution
- Equipped with a built-in VFD feature, making it capable of measuring the true values in accordance with frequency
- Large 2-line 500,000 counts LCD display
- Fast data acquisition and transfer (via optical interface)
- TRMS current and voltage measurement
- Conductance measurement
- Wide range of extra features, including data hold, memory, min / max, average, differential, peak, peak / peak

with extra fast 1ms response time, auto power off, frequency filter, reset and relative function

#### MEASURING FUNCTIONS

- TRMS AC, DC voltage measurement
- TRMS AC, DC current measurement
- Capacitance measurement
- Resistance measurement
- Diode test
- Mains supply frequency measurement
- Frequency of digital signals measurement
- Continuity test (acoustic signaling)
- Conductance measurement
- Temperature measurement

Cat No.	Description
MD9060	DIGITAL MULTIMETER, CAT IV 1000V



# CONTACT VOLTAGE DETECTORS

## 2xxHVD CAPACITIVE HIGH VOLTAGE DETECTOR

### FEATURES

- Automatic and manual activation
- Indoor/outdoor use, in all weather
- Rugged, reinforced nylon molded casing
- Shock, drop and vibration resistant
- Low battery detection
- Supplied with a cleaning kit
- Visual indication shows armed unit
- Visual and audible indication when voltage is detected
- Approximate weight: 550g (with battery)
- Compatible with all hot sticks

- Auto off (if no voltage detected)
- Comes in handy storage/carry case
- Built-in proving and self-test circuit
- High bright color-coded LEDs
- Uses standard 9V battery (included)
- Interchangeable contact electrode
- 11kV System voltage
- Customised threshold on demand
- IP65, waterproof design

**NOTE:** The internal proofing circuit does not test the contact electrode and the protection devices.



Cat No.	System Voltage (kV)	Threshold Set Within Range (kV)	Threshold (kV)
212HVD	4/15	1.9–2.1	2
213HVD	11	1.65–4.4	3.02
214HVD	33	4.95–13.2	9.07
215HVD	66	11–13	12
216HVD	132	11–13	12
217HVD	11/33	3.3–4.95	4.12
218HVD	44/132	11–13	12
219HVD	66/132	11–13	12
220HVD	6.6/132	2–3	2.5
221HVD	11/132	4.4–6.6	5
222HVD	11/44	4.4–5	4.75
223HVD	33/132	11–13	12
224HVD	44	6.6–17.6	12
225HVD	USER DEFINED	USER DEFINED	USER'S SPEC.
226HVD	12/36KV	5.0–6.0	5.4

**Note:** Not all models are available ex stock, please contact us for details.



## NON-CONTACT VOLTAGE DETECTORS

### TNLVD-17 NON-CONTACT ADJUSTABLE VOLT STICK

Designed for non-contact voltage detection. Sensitivity adjustable with a handy thumb wheel. For use on power wiring, lighting, thermostats and other low voltage circuits. A bright LED & audible alarm sound when voltage is present & an LED shows battery level.

#### MEASURING FEATURES

- EN61010-1 CAT IV 1000V
- Frequency 50–500Hz
- Voltage detection 50V–1000V AC
- Indication LED and Tone
- Humidity <80% RH, Altitude 2000m Max



Cat No.	Description
TNLVD-17	ADJUSTABLE NON-CONTACT VOLT STICK, CAT IV 1000V

### TNLVD-15 NON-CONTACT VOLT STICK

Designed for non-contact voltage detection, can be used to find a break in a wire. Bright LED and audible alarm sound when voltage is present. Handy flash light function & On/Off switch for long battery life.

- Voltage detection 50V–1000V AC
- Frequency 50–500Hz
- Indication LED and Tone
- Operating Conditions temperature 0°C, Humidity Less than 80% R.H, Altitude 2000m Max



#### MEASURING FEATURES

- EN 61010-1 CAT III 600V, EN 61323-1

Cat No.	Description
TNLVD-15	NON-CONTACT VOLT STICK, CAT III 600V

### MD106 NON-CONTACT VOLTAGE DETECTOR

The MD106 is a basic non-contact voltage tester with optical and acoustical indicators. It can detect live-voltage wires in splices, cable plugs, cable drums, sockets, switches and junction boxes. In contrast to inductive measurements, no flow of current is required.

#### MEASURING FEATURES

- Optical and acoustical indication
- 90 V ... 1000 V AC measurement range
- Optical and acoustical indication
- CAT IV / 1000 V overvoltage protection



Cat No.	Description
MD106	METREL NON CONTACT VOLTAGE DETECTOR

### MD116 PREMIUM NON-CONTACT VOLTAGE DETECTOR

The MD116 is a non-contact voltage tester with optical, acoustical and vibrating indicators. It can detect live-voltage wires in splices, cable plugs, cable drums, sockets, switches and junction boxes. Automatic self-test after power up. Can switch between low and high sensitivity (12 / 90 V AC) and has an integrated LED flashlight for working in dark conditions.

In contrast to inductive measurements, no flow of current is required.

#### MEASURING FEATURES

- High performance LED flashlight
- Optical, acoustical & vibrating alert
- 12 V ... 1000 V AC measurement range
- CAT IV / 1000 V overvoltage protection



Cat No.	Description
MD116	METREL NON CONTACT VOLTAGE DETECTOR

## TN288SVD PERSONAL SAFETY VOLTAGE DETECTOR

The TN288SVD consists of an internal pickup AC sensor plate, a test (oscillator) and diagnostic circuit, an adjustable threshold comparator, a sound annunciator (buzzer), a visual indicator (ultra-bright LED) and a 9V battery, all enclosed in a robust "beeper" style case.

The enclosure features a built-in clip enabling the unit to be attached to the user's outer garments or belt.

- Dimensions: 114(L) × 67(W) × 27(D)mm
- Weight: Approx. 152g (battery included)
- Power supply: 9V(6F22) × 1

### FEATURES

- AC Voltage detection: 240V ~ 50kV
- Weatherproof
- Easy-to-wear on body or belt
- Ultra-bright LED indication
- High pitch sound indication
- Self-test & diagnostic circuitry
- Friendly priority alert reporting
- High impact type casing
- Meets EN 61326-1



Cat No.	Description
TN288SVD	PERSONAL SAFETY VOLTAGE DETECTOR

## TN277NZHP NON-CONTACT VOLTAGE DETECTOR

The TN277NZHP is ideal for checking the presence of AC high voltages and AC low voltages in cables, wall outlets, fuses etc. It is suitable for industrial, utility and mine safety applications.

### KEY FEATURES

- 2 ranges for selection: LOW 50V~1.5kV; HIGH 1.5kV~132kV

- Power consumption
  - Off : Less than 5uA
  - Low voltage detection mode: <40mA
  - High voltage detection mode: <40mA
- Circuit test function
- Optional accessory: VTT range Telescopic hot stick or VMR range standard Hot stick



Cat No.	Description
TN277NZHP	NON-CONTACT 50V-132KV TESTER LED & SOUND INDICATOR



## TIC 300 AMPROBE NON-CONTACT VOLTAGE TESTER

Rugged and reliable for utility, industrial, heavy manufacturing and mine safety applications, the Amprobe TIC 300 PRO with VolTect™ detects voltages in low, medium and high voltage applications with bright visual and loud audible alerts.

### KEY FEATURES

- Utility tool for checking transmission lines, power distribution equipment, down power lines, fuses, and load break connectors
- Lower voltage setting for checking voltage presence in breaker panels, breakers, power outlets and wiring
- Verifies presence of Voltage from 30 VAC to 122,000 VAC (122kV)
- Non-contact AC voltage detection
- Visual and audible voltage indication
- Self-test verifies that tester works properly
- Ergonomic design with a convenient handle
- Drop-proof to 6-FT
- Use with Hot Stick for voltages higher than 1500 VAC
- Comes with instruction manual and handy carry case

Cat No.	Description
TIC-300PRO	AMPROBE HV VOLTAGE DETECTOR 30V–122KV



## TN275NZHP HV NON-CONTACT VOLTAGE DETECTOR

The TN275NZHP is a high voltage proximity detector. It has nine voltage detection settings from 240V AC to 275kV AC. The unit has an internal pickup sensor plate, a sensitivity selector, a visual and an audible annunciator. With the TN275NZHP, physical contact with electrical conductors is not necessary when testing for live lines. This tester works by proximity.

### KEY FEATURES

- Sealed by 'O' Rings
- 9 voltage settings: 240V, 3.3kV, 6.6kV, 11kV, 22kV, 33kV, 66kV, 110kV & 220kV
- High bright LEDs visual indication
- Sound indication
- Easy to prove method
- Self test selection
- Use 3 x 1.5V "C" batteries
- High impact nylon casing
- Non-contact work by proximity
- Universal hotstick fitting
- Lightweight, robust and compact
- Detect low voltage on any systems
- Easy access to batteries
- Meets EN61000-3-2, EN61000-3-3, EN61326-1, EN55011, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

Cat No.	Description
TN275NZHP	HIGH VOLTAGE DETECTOR 240V–220KV
TN275NZHPHANDLE	REPLACEMENT HANDLE FOR TN275NZHP



TN275NZHPHANDLE TN275NZHP

## PROVING DEVICE FOR VOLTAGE TESTERS

Used to test that your Voltage Detection Device (VDD) is working as it is intended and give the peace of mind that workers safety is taken care of. This proving device uses basic 12 V DC input and converts it to 230 V AC. When you adjust your VDD to detect this voltage it allows you to make a positive test and prove your VDD is actually working. A simple, cost effective and easy to use device.

### KEY FEATURES

- Plugs into your vehicles lighter socket & outputs 230V
- Has USB ports & can be used for charging devices aswell
- Includes lighter socket/ Alligator clip adaptor for attachment direct to battery

Cat No.	Description
TNPD	VDD PROVING DEVICE



## CONTINUITY TESTERS

### M630G MULTIFUNCTION CONTINUITY TESTER

#### KEY FEATURES

- 1m lead between test probes
- Voltage & Continuity tester with Phase, Polarity & Phase Sequence Testing
- Fully automated measuring sequence – auto on when voltage detected, auto off after 30sec of inactivity
- Measured value storage – displayed value can be locked on screen
- Self test and battery monitoring – checks all display elements & signal is generated if battery needs to be replaced

- Rugged housing – impact resistant, dust proof, IP65
- High safety levels – series resistors integrated into both test probes

#### MEASUREMENT FUNCTIONS

- Voltage 24-1000V AC/1500V DC
- Resistance & Continuity
- Phase
- Polarity
- Phase Sequence



Cat No.	Description
M630G	VOLTAGE & CONTINUITY TESTER WITH PHASE, POLARITY & PHASE SEQUENCING, 1M LEAD, CAT IV/600V

### M611E DUSPOL CONTINUITY TESTER

#### KEY FEATURES

- Direct display without activating a push button – high-resistance test
- Load connection via push button – low-resistance test
- Continuity test via buzzer and LED and/or LCD
- Vibration alert in tester handle
- Illumination of measuring point
- Rugged housing with rubberised grip

- Impact resistant, dust-tight and splashing water protected housing (IP65)
- Safety always and everywhere

#### MEASUREMENT FEATURES

- Single pole phase test
- Continuity test
- Voltage indicator
- Polarity test



Cat No.	Description
M611E	DUSPOL®, 2 POLE VOLTAGE TESTER, CAT IV 600V/CAT III 1000V



## VOLTAGE TESTERS

### PROFI LEDPLUS II VOLTAGE TESTER

This two-pole voltage tester is characterised by user friendly handling, robust and safe construction, and meets all the requirements of a specialist user. Thanks to the highest safety level, CAT IV 1000 V, it is also suitable for measurements on hybrid and electrical vehicles as well as photovoltaic systems.

#### KEY FEATURES

- CAT IV 1000V
- 2-pole test
- Practical one-handed operation
- Robust, safe construction format
- Tests without finger contact
- Display on voltages even without battery
- Load switchable

- Indication of direction of field rotation
- Single pole phase indication
- Test prod protection
- Measuring point lightning
- Batteries included
- 5 year guarantee

#### MEASUREMENT FUNCTIONS

- Display: Optical, LEDs
- Measuring range: Automatic
- Over-voltage category: CAT IV 1,000 V
- Resistance test range: 0-200 kOhm
- Dimensions: 300 x 75 x 20 mm
- Weight: 270 g
- Colour: Red/black
- Voltage range: 6-1000V
- Resistance indication: Optical/acoustic

Cat No.	Description
103824	LED VOLTAGE TESTER CAT IV 1000V



### PROFI LCDPLUS II VOLTAGE TESTER

The "Profi LCDplus II" is the new top model in our tried and tested professional series. The innovative two-pole voltage tester is characterised by a wide performance spectrum and practical one-handed operation. It enables testing without finger contact and, thanks to the high CAT IV 1000V safety level, is suitable with immediate effect for taking measurements on hybrid and electrical vehicles as well as for photovoltaic systems.

#### KEY FEATURES

- CAT IV 1000V
- 2-pole test
- Voltage display up to 1000 V AC and 1400 V DC
- Large, illuminated LCD
- Resistance measurement up to 1999  $\Omega$
- Frequency display up to 1000Hz

- Data hold
- Indication of direction of field rotation
- Background lighting LC-indication
- Measuring point lightning
- Single pole phase indication
- Load switchable
- Test prod protection
- Batteries included
- 5 year guarantee

#### MEASUREMENT FEATURES

- Display: Optical, LCD
- Measuring range: Automatic
- Over-voltage category: CAT IV 1,000 V
- Dimensions: 300 x 75 x 20 mm
- Weight: 270 g
- Colour: Red/black
- Voltage range: 3-1000 V AC (TRMS/ RMS) 4-1400 V DC
- Resistance indication: Optical/acoustic

Cat No.	Description
103826	LCD VOLTAGE TESTER CAT IV 1000V



## EARTH TESTING

### MI3123 SMARTEC EARTH / CLAMP

MI 3123 for testing earthing resistance, main earthing of objects, resistance of individual earthing rods in large systems, lightning systems, determination of soil resistivity, designing of earthing systems.

#### MEASURING FUNCTIONS

- Supports all types of earthing resistance measurements:
  - Standard earth resistance with spikes
  - Selective earth resistance test with one current clamp (optional)
  - Selective (contactless) earth resistance with two current clamps (optional)
  - Specific earth resistance measurement
- Leakage current tests with current clamps (optional)

- Load current tests with current clamps (optional)
- High accuracy, very high immunity against external noise
- Preprogrammed limits
- PASS/FAIL evaluation of result
- Bright GREEN/RED result indicators
- Suited for testing on CAT IV installations
- Magnetic holder (hands-free operation)
- Built in battery charger
- Two level memory structure for saving test results and parameters
- Basic downloading with EuroLink PRO PC SW package, compatible with EuroLink PRO Plus PCSW package
- USB and RS232 ports



Cat No.	Description
MI3123	SMARTEC EARTH / CLAMP

### MI3290 EARTH ANALYSER

#### KEY FEATURES

- Can perform all types of earth measurements with a single instrument
- Wide measurement frequency band (DC, 40 Hz - 5 kHz)
- Earth measurements on pylons with protective earth cable connected
- Measurement on mono & 4-leg towers
- A variety of measuring clamps: from iron clamps to flex clamps with 10m length
- HF-Earth resistance measurement (acc. to IEEE Std 81)
- Sweep mode Z(f) on screen
- 3.4" colour LCD touch screen display
- Floating Mains (90-260 V AC) or battery
- IP65 case closed, IP54 case open
- Multiple self-check methods
- DC resistance measurements (2 & 4 wire)
- Impulse impedance measurement for simulating lightning strike

#### MEASURING FUNCTIONS

- Earth Resistance 2,3,4 -wire
- Selective Earth Resist. (1 x clamp)
- Earth Resistance (2 x iron clamps)
- Specific Earth Resist. (Wenner and Schlumberger method)
- Earth Potential
- HF-Earth Resistance (25 kHz, acc. to IEEE\_Std 81)
- Earth Resistance of mono pylons with 10m flex clamp, multi leg pylons with up to four 5m flex clamps
- Current measurement (Iron, flex clamps)
- Low Ohm measurement 200 mA (EN 51667-4)
- Impulse Earth measurement 10/350  $\mu$ s
- PC SW for measurement pre & post processing
- Table/graphical view, storing & printing



Cat No.	Description
MI3290	MI3290 EARTH ANALYSER



## MARTL78 50M GREEN R2 CONTINUITY WIRE

This handy carry case reel contains a high quality continuity cable for earth testing. The cable can be easily retracted by winding it up much like a hose reel.

### KEY FEATURES

- 50m Green continuity cable
- Handy Reel
- Retractable tidy cable
- Easy to use
- Quick connectors

Cat No.	Description
MARTL78	50MTR GREEN R2 CONTINUITY WIRE ON A REEL



## IET15M INDEPENDENT EARTH TESTER REEL & SPIKE

Designed to attach to any voltage tester this reel and spike boasts 15m of lead and a sturdy spike to easily pierce even the hardest ground.

Simple to use, the Independent Earth Tester Reel and Spike has a connection point on the end of the lead to simply poke the tester probe into. The beauty of this set up is if your tester or lead fail you

can easily replace them without having to replace the entire unit.

### KEY FEATURES

- 15m lead
- Sturdy spike
- Connector on lead for voltage tester probe
- Tester sold separately

Cat No.	Description
IET15M	15M LEAD, REEL & SPIKE FOR INDEPENDENT EARTH TESTING



## S-2026 EARTH LEAD TEST SET

### KEY FEATURES

- 3 Wire Earth Test Set with 20m leads
- Comes in handy soft carry bag
- For use with all Metrel Earth Testers

Cat No.	Description
S-2026	EARTH TEST LEAD SET, 20M LEADS



## S-2027 EARTH LEAD TEST SET

### KEY FEATURES

- 3 Wire Earth Test Set with 50m leads
- Comes in handy soft carry bag
- For use with all Metrel Earth Testers

Cat No.	Description
S-2027	EARTH TEST LEAD SET, 50M LEADS



## MULTIFUNCTION TESTERS

### MI3122 SMARTEC Z LINE-LOOP/RCD

For verification, maintenance & periodic testing of electrical installations; evaluation of protective measures in LV-installations, troubleshooting on live installations.

### MEASURING FUNCTIONS

- Loop impedance / prospective fault current
- Line impedance / prospective short-circuit current
- Built-in fuse characteristics for quick evaluation of measuring results
- RCD tests (trip out time, contact voltage, ramp test, Autotest)
- Testing on 1- and 3-phase systems
- Phase sequence test
- Metal test button detects touch voltage
- High accuracy non tripping loop test for RCD protected circuits
- Pre-programmed limits
- PASS/FAIL evaluation of result
- Bright GREEN/RED indicators provides visual evaluation of results
- Suited for testing on CAT IV installations
- Magnetic holder (hands-free operation)
- Built-in battery charger
- Two level memory structure for saving of test results and parameters
- Basic downloading with EuroLink PRO PC SW package, compatible with EuroLink PRO Plus PCSW package
- USB and RS232 ports
- Robust and ergonomic design

Cat No.	Description
MI3122	SMARTEC Z LINE-LOOP / RCD





## MZC-20E SHORT CIRCUIT LOOP IMPEDANCE METER, IP67

Designed for fitters and measurement technicians performing services in residential buildings, office blocks, manufacturing plants and any facilities possessing a low voltage electrical system.

### MEASURING FUNCTIONS

- Short circuit resistance
- Short circuit current
- Short circuit loop Impedance
- Voltage Measurement

### FEATURES

- Power supply LR6 alkaline batteries or NiMH rechargeable AA batteries (4 pcs.)
- Dimensions 220x98x58 mm
- Instrument weight incl. batteries 509g

- Storage temperature -20...+70°C, working temperature -10...+50°C
- Humidity 20...80%
- Reference temperature  $+23 \pm 2^\circ\text{C}$
- Reference humidity 40...60%
- Altitude < 2000m
- Auto-OFF time max. 900 sec.
- Number of Z measurement (for rechargeable batteries) >5000 (2 measurement/minute)
- Display LCD segment
- Quality standard developed, designed and manufactured acc. to ISO 9001
- Compliant with the requirements of IEC 61557
- Complies with PN-EN 61326-1:2006 and EN 61326-2-2:2006



Cat No.	Description
MZC-20E	SONEL SHORT CIRCUIT LOOP IMPEDANCE METER, IP67

## A1143 EURO Z290A LOOP IMPEDANCE TESTER

Professional portable high current impedance tester. It performs high precision line and high precision fault loop impedance measurements in environments up to CAT IV / 310 V.

### KEY FEATURES

- Independence: instrument is designed to work independently or in conjunction with: MI 2086 Eurotest 61557, MI 3101 EurotestAT, MI 3105 EurotestXA and MI 3321 MultiServicerXA
- Range widening: adapts the instruments to read from 0.1 mΩ up to 19.99 Ω
- Multi-system testing: works on both

single phase and 3-phase systems (110 V to 440 V)

- IPSC and IPFC calculation: IPSC and IPFC readings calculated up to 400 kA
- Comfortable carrying: all the accessories are put in the strong, rugged, durable case of the instrument
- LCD: Built-in LCD for standalone measurements

### MEASURING FUNCTIONS

- High precision line impedance
- High precision fault loop impedance
- Contact voltage



Cat No.	Description
A1143	EURO Z290A LOOP IMPEDANCE TESTER

## MI3100S EUROTESTEASI MULTIFUNCTION INSTALLATION TESTER

### KEY FEATURES

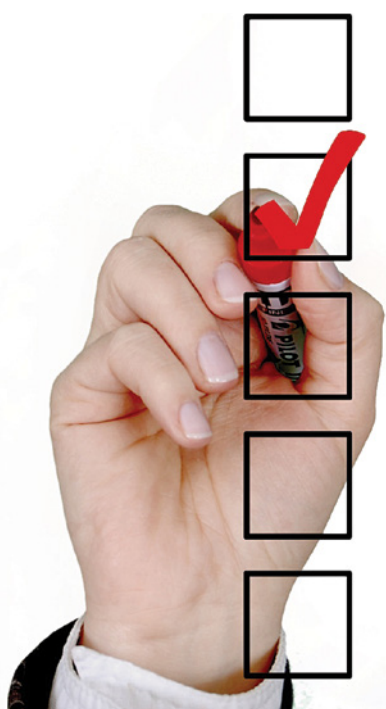
- Built-in help screens for referencing onsite
- Built-in fuse tables for automatic evaluation of the line/loop impedance result
- Monitoring of all 3 voltages in real-time
- Automatic polarity reversal on continuity test
- Loop impedance test without tripping RCD
- Built-in charger and rechargeable batteries as standard accessory
- Automated RCD testing procedure

### MEASURING FUNCTIONS

- Insulation resistance with DC voltage from 50 V to 1000 V
- Continuity of PE conductors with 200 mA test current with polarity change
- Continuity of PE conductors with 7 mA test current without RCD tripping
- Line impedance
- Loop impedance
- Loop impedance with Trip Lock RCD
- TRMS voltage and frequency
- Phase sequence
- RCD testing (general & selective, AC, A, F)
- Earth resistance (3-wire method)



Cat No.	Description
MI3100S	EUROTESTEASI MULTIFUNCTION TESTER
MI3100SE	EUROTESTEASI MULTIFUNCTION TESTER WITH MEMORY & PC SOFTWARE
MI3102BT	EUROTESTXE MULTIFUNCTION TESTER WITH MEMORY, PC SOFTWARE & BLUETOOTH



Need your products supplied with test certificates? We can help.

## MI3155 EUROTTEST XD MULTIFUNCTION INSTALLATION TESTER

### MEASURING FUNCTIONS

- 4-wire Live Transformer Impedance
- 2 & 3-wire line impedance (L-L, L-N)
- 1 / 3phase TRMS voltage and frequency
- Line, loop and RCD at 16 ... 400 Hz
- Phase sequence
- Power & THD (up to the 12th harmonic)
- RCD testing
- Earth resistance (3-wire & 2-clamps)
- First fault leakage current (ISFL)
- Testing of Insulation Monitoring Devices
- Machine mode support
- Hi-precision Short Circuit Current evaluation with Calculated Hot factor
- 3-wire test of PE (RPE function)
- Autotest insulation function between L-N, N-PE and L-PE (R ISO ALL function)
- 4 wire continuity test
- Insulation resistance with DC voltage 50 V to 2500 V and PI, DAR calculation
- Varistor test
- Continuity of PE conductors with 200 mA DC test current with polarity change
- Continuity of PE conductors with 7 mA test current without RCD tripping
- 2 & 3 wire loop impedance (L-PE) with Trip Lock RCD function
- Touch voltage / Contact voltage with external P/S probe
- Optional Extras
  - Illumination
  - High resolution Loop impedance (mΩ)
  - EVSE (Electrical Vehicle Supply Equipment) support
  - Determining location of cables
  - QR and/or barcode scanner support
  - Specific earth resistance with Ro-adaptor
  - TRMS leakage load currents



MI3155

### KEY FEATURES

- Programmable AUTO SEQUENCES\*
- Predefined profile dependent AUTO SEQUENCES
- Predefined Automatic tests: Auto TT (U, Zln, Zs, Uc); Auto TN/RCD (U, Zln, Zs, Rpe); Auto TN (U, Zln, Zlpe, Rpe); Auto IT (U, Zln, Isc, Isfl, IMD)
- Functional inspections
- Visual inspections
- Custom inspections (visual and functional)
- EVSE AUTO SEQUENCES & function inspections
- Machine functional & visual inspections
- Built-in help screens & fuse tables
- Auto polarity reversal on continuity test
- Automated RCD & Impedance testing
- Measurement filtering
- Built-in charger & rechargeable batteries
- BT communication with PC & Android devices via built-in BT
- PC SW Metrel ES Manager (structure & report creation, data up/download)\*
- Optional aMESM Android app (structure & report creation, data up/download)\*\*



MI3152ST



MI3152EU

\* Available with MESM PRO licence  
\*\* Available with EU Set

Cat No.	Description
MI3155ST	EUROTTEST XD MULTIFUNCTION INSTALLATION TESTER STANDARD SET WITH BASIC SOFTWARE
MI3155EU	EUROTTEST XD MULTIFUNCTION INSTALLATION TESTER, EURO SET WITH CURRENT CLAMPS & PRO SOFTWARE



## PORTABLE APPLIANCE TESTERS

### TRANSDelta KITS

With both battery and mains power, this multifunctional instrument is intended to perform measurements for testing the electrical safety of portable electrical equipment. This model has the added bonus of being Bluetooth enabled.

#### KEY FEATURES

- Graphic LCD with resolution of 128 x 64 dots, with backlight
- Support for optional aPAT android application
- Bluetooth communication via aPAT android application with printer, barcode scanner and PC
- Easy read graphic display
- Large green and red lights for additional PASS / FAIL indication
- Large data flash memory for storing test results & parameters (approx. 1500)
- Built-in real time clock
- QR coding for quick test code selection & device identification under test
- Programmable PASS/FAIL limits
- Fully compatible with Metrel PATLink PRO PC software package included
- Optional PC SW PATLink PRO Plus software
- Portable and lightweight design
- Can operate from mains power or rechargeable batteries

#### MEASURING FUNCTIONS

- Functional and visual inspection
- Earth bond resistance
- Insulation resistance; Insulation resistance of isolated accessible conductive parts
- Substitute leakage current; Substitute leakage current of isolated accessible conductive parts
- Differential leakage current test
- Touch leakage test
- PRCD test
- Power test
- IEC cord polarity test
- TRMS voltage meter



TRANSDelta4-ZBATT



TRANSDelta4-ZTAB



TRANSDelta4-Z

Cat No.	Description
MI3309BT	MI3309BT DELTA GT TESTER ONLY
TRANSDelta4-Z	MI3309BT DELTA GT TESTER WITH PRINTER AND PC SOFTWARE
TRANSDelta4-ZTAB	MI3309BT DELTA GT WITH ZEBRA PRINTER, PC SOFTWARE, BLUETOOTH DONGLE & ANDROID TABLET
TRANSDelta4-ZBATT	MI3309BT DELTA GT WITH ZEBRA PRINTER, ZEBRA BATTERY PACK WITH CHARGER, PC SOFTWARE, BLUETOOTH DONGLE & ANDROID TABLET IN HARD CASE



## POWER QUALITY ANALYSERS

### MI2892 POWER MASTER POWER QUALITY ANALYSER

#### KEY FEATURES

- 4 voltage & 4 current channels
- Automatic Smart Clamp detection and Smart Clamp range selection
- Compliance with power quality standard IEC 61000-4-30 Class A
- Complete power quality analysis according to EN 50160
- 8GB memory supplied (can add SD card)
- Colour-coded input terminals terminal labels to suit your application region
- Intuitive main menu and large icons makes it very easy to navigate & configure
- Powerful PC SW PowerView3 enables downloading, view, analysis of recorded data and professional report creation
- Flexible clamps included in standard set

#### MEASURING FUNCTIONS

- Voltage: TRMS, peak, crest factor

- Current: TRMS, peak, crest factor
- Power (active, reactive, apparent)
- Measurements fully IEEE 1459 compliant (active, nonactive, fundamental, harmonic, load unbalance)
- Unbalance, flicker measurement
- **Harmonic & interharmonic analysis up to 50th harmonics, THD measurement**
- Energy (active, reactive, generated, consumed)
- Capture/recording of power supply events
- Inrush currents monitoring & recording
- **Waveform/inrush displaying, snapshot & recording**
- **Transients recording**
- Power quality analysis as per EN 50160
- Recording up to 7 adjustable alarms
- Temperature measurement
- Power factor  $\cos \phi$



Cat No.	Description
MI2892	3 PHASE POWER QUALITY ANALYSER

### MI2885 POWER MASTER POWER QUALITY ANALYSER

#### KEY FEATURES

- 4-voltage & 4-current channels
- Automatic Smart Clamp detection and Smart Clamp range selection
- Compliance with power quality standard IEC 61000-4-30 Class S
- Complete power quality analysis according to EN 50160
- Supplied with 8GB memory (SD card up to 32GB)
- Colour-coded input terminals & terminal labels to suit your application region
- Intuitive main menu & large icons makes it very easy to navigate and configure
- Powerful PC SW PowerView3 enables downloading, view, analysis of recorded data and professional report creation
- Flexible clamps included in the Euro set
- Remote communication via Ethernet (GPS clock synchronization - optional)

#### MEASURING FUNCTIONS

- TRMS Voltage & Current, peak, crest factor (4-channel)
- Power (active, reactive, apparent)
- Measurements fully compliant with IEEE 1459 (active, non active, fundamental, harmonic, load unbalance)
- Unbalance, flicker measurement
- **Harmonic & interharmonic analysis up to 50th harmonics, THD measurement**
- Energy (active, reactive, generated, consumed)
- Capture/recording of power supply events
- Inrush currents monitoring & recording
- **Waveform/inrush displaying, snapshot & recording**
- Power quality analysis as per EN 50160
- Recording up to 7 adjustable alarms
- Temperature measurement
- Power factor  $\cos \phi$



Cat No.	Description
MI2885	MASTER Q4 POWER QUALITY ANALYSER

## HV INSULATION TESTERS

### MI3202 GIGAOHM 5KV INSULATION TESTER

MI3202 offers a quick and accurate reading of insulation resistance. The large segment LCD screen with backlight offers easy reading of results. The analogue/digital display with analogue graph has a range of up to 1 TΩ for insulation resistance and 600 V for voltage measurements.

#### MEASURING FUNCTIONS

- Quick setting - Quick & Easy test voltage selection

- Faster testing - 5 mA current source for quick charging of capacitive loads
- Safe - High CAT IV, 600 V voltage protection
- Easy to read - Large, bright LCD display with backlight
- Effective testing - High quality instrument, shielded test leads & accessories (included in the standard set)



Cat No.	Description
MI3202	GIGAOHM 5KV INSULATION TESTER, CAT IV 600V

### MIC-10 & MIC-30 SONEL INSULATION RESISTANCE TESTERS, IP67

#### KEY FEATURES

- Insulation resistance measurement: MIC-10 – up to 10 GΩ, MIC-30 – up to 100 GΩ
- Test voltage selection: 50, 100, 250, 500, and 1000 V; MIC-30 enables 10 V adjustment increase
- Measurements using the 2 and 3 wire method
- The MIC-30 enables tests using an adapter put in a power socket (automatic measurement of all measurement combinations) and identification of leakage current
- Automatic discharge of the capacity of a tested object upon completion of the insulation resistance tests
- Direct measurement or one or two absorption coefficients (MIC-30)
- Storage of pre-set values of voltage and time T1, T2, and T3 (MIC-30)
- Measurement of direct and alternating

current voltage

- Measurement of capacity of the tested object
- Acoustic determination of five-second intervals during insulation resistance tests
- Continuity of protective connections & equipotential bonding with a  $\geq 200$  mA (in compliance with the PN-EN 61557-4 standard)
- Measurement of resistance with low current with acoustic & optical signalling
- Resistance to interferences
- IP67 protection rating of the housing according to the PN-EN 60529
- CAT IV / 600V according to PN-EN 61010-1 standard (III 1000 V)
- Operating temperatures -10°C to +50°C
- Extensive memory (10 banks, 99 cells each)
- Automatic switch-off when not in use



MIC-10



MIC-30

Cat No.	Description
MIC-10	INSULATION RESISTANCE METER, IP67, CAT IV 600V/CAT III 1000V
MIC-30	INSULATION RESISTANCE METER, IP67, WITH LEAKAGE CURRENT, CAT IV 600V/CAT III 1000V

## MI3210 TERAOHM XA 10KV INSULATION TESTER

### KEY FEATURES

- Insulation resistance up to 20 TΩ
- Adjustable test voltage (50 V...10 kV) 50 V and 100 V step
- Programmable timer
- Capacitance measurement
- Charging rate for capacitive load < 3 s / μF at 10 kV
- Automatic discharge of test object after completion of measurement
- Guard terminal
- High voltage breakdown detection
- Custom defined tests
- Auto adjustment function
- Results in numerical & graphical form
- PC software HVLink PRO – downloading & analysing of results & report printing
- Isolated RS232 & USB communication ports, BT interface
- High EM interferences protection: Input AC current noise rejection (1 mA∞600 V) and additional averaging of the result (5, 10, 30, 60)
- Mains & rechargeable battery power supply

### MEASURING FUNCTIONS

- Insulation Measurement
- Diagnostic Test (PI, DAR, DD)
- Step Voltage Test
- Withstanding Voltage Test (DC) up to 10kV
- Voltage & frequency measurement up to 550 V TRMS



Cat No.	Description
MI3210	TERAOHM XA 10KV INSULATION TESTER, CAT IV 600V

## MICROOHM TESTERS

### MI3252 MICROOHM 100A

MI 3252 MicroOhm 100A is a portable low resistance ohmmeter used to measure low contact resistances of breakers and switches, busbars using test current from 100 mA to 100 A.

### FEATURES

- Safe: sustain external voltages in case of wrong connection, protection level (CAT IV, 50 V); automatically detects continuity in current circuit
- Single and continuous measuring mode
- Portable: rugged carrying case with a handle and lightweight design
- High protection degree: IP64
- Accurate: 1 nΩ best resolution with 0.25% accuracy
- Custom limits: the limits can be set for

PASS or FAIL evaluation of test result

- Measurements with 100 A for up to 10 mins on internal battery only
- Memory: built-in memory enables storage of up to 1000 test results
- Downloadable: downloads test results via RS232 or USB cable directly with software

### MEASURING FUNCTIONS

- Resistance measurement: wide measuring range (1 nΩ ... 20 Ω) adjustable test current (100 mA ... 100 A)
- Voltage drop measurement
- Bar graph: on screen resistance bar graph



Cat No.	Description
MI3252	MICRO OHM 100A TESTER
MI3250	MICRO OHM 10A TESTER
MI3242	MICRO OHM 2A TESTER



# PHASE TESTERS

## TN895PR NON CONTACT PHASE ROTATION METER

Safety is always a priority in electrical work environments. With its non-contact clips, the TN895PR has been designed to ensure greater safety for its users. Eliminating any electrical or short circuit accidents caused by accidental contact between two metal points.

### KEY FEATURES

- Non-contact detector clips
- Dual functions: Open phase and phase sequence detection
- LED display lights with buzzer indicator
- Designed for checking a wider range of 3-phase power source from 75V to 1000V AC
- Brightness button feature for better visibility
- Magnetic mounting feature
- CATIV 600V



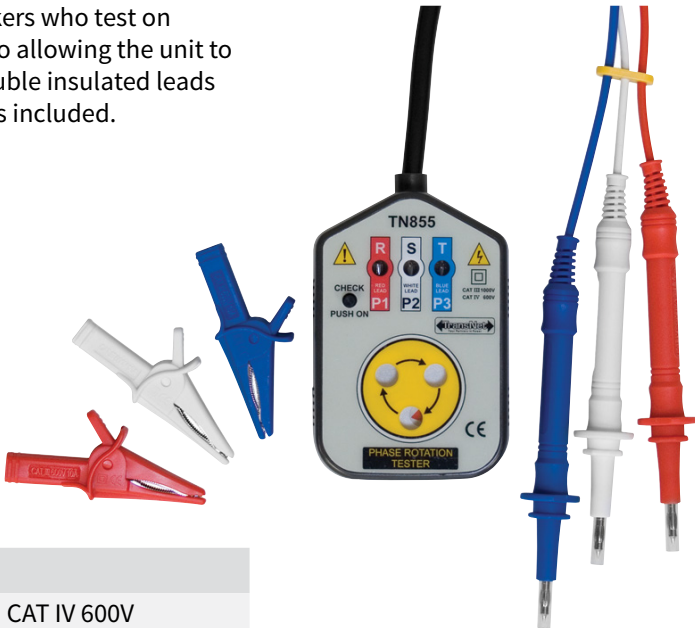
Cat No.	Description
TN895PR	NON-CONTACT PHASE ROTATION METER

## TN855 PHASE ROTATION METER

Comes with fused leads to offer overload protection to line workers who test on overhead LV lines. The leads are supplied at lengths conducive to allowing the unit to be connected across overhead LV lines to make the test. The double insulated leads are connected to shrouded probe with removable crocodile clips included.

### KEY FEATURES

- CAT IV 600V
- Lightweight
- Push button activation
- Heavy duty fused leads with HRC fuses
- Input Voltage 200-600V AC
- Frequency 50-60Hz
- 3x5amp HRC fuses



Cat No.	Description
TN855	PHASE ROTATION METER – FUSED LEADS, CAT IV 600V





## CABLE LOCATORS

### MARFD650 DIGITAL FUSE FINDER KIT

#### KEY FEATURES

- Identifies poorly labelled fuses and breakers without the need to power down each circuit to identify the one you need to work on
- Enhanced capabilities so it can also be used on light fittings or other points in a circuit in addition to 13A sockets
- The receiver has both fast manual mode and auto threshold mode set by a single sweep over the board
- Receiver will work with multiple transmitters and can also be used as a non-contact voltage indicator
- Kit includes a twin lead set with crocodile clips (TL83), IEC mains lead (EX332) and a soft carry case
- Receiver = CAT IV/600V, Transmitter = CAT III/300V
- Temperature Range: -10°C to 40°C at max 60% RH
- Earth Leakage: Nil
- Mains Supply: 230V, 30 - 70Hz
- Power Consumption: 1W approx.
- Overvoltage: CAT III 300V
- Protection Class: IP20
- Dimensions 65 x 65 x 46mm, Weight 60g



Cat No.	Description
MARFD650	DIGITAL FUSE FINDER KIT



## SYMBOLS

#00/1	42
1/2" DRIVE SOCKETS	17
4 WAY RATCHET WRENCHES	93
#16B/1	42
#21/1	43
#22/1	43
#24/1	43
#61/1	40
#76B/1	40
#102/1	40
#102B/1	40
#102U/1	41
#103/1	42
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#113/1	41
#114/1	41
#147A/1	40
1000V VDE — SEE INSULATED TOOLS	

## A

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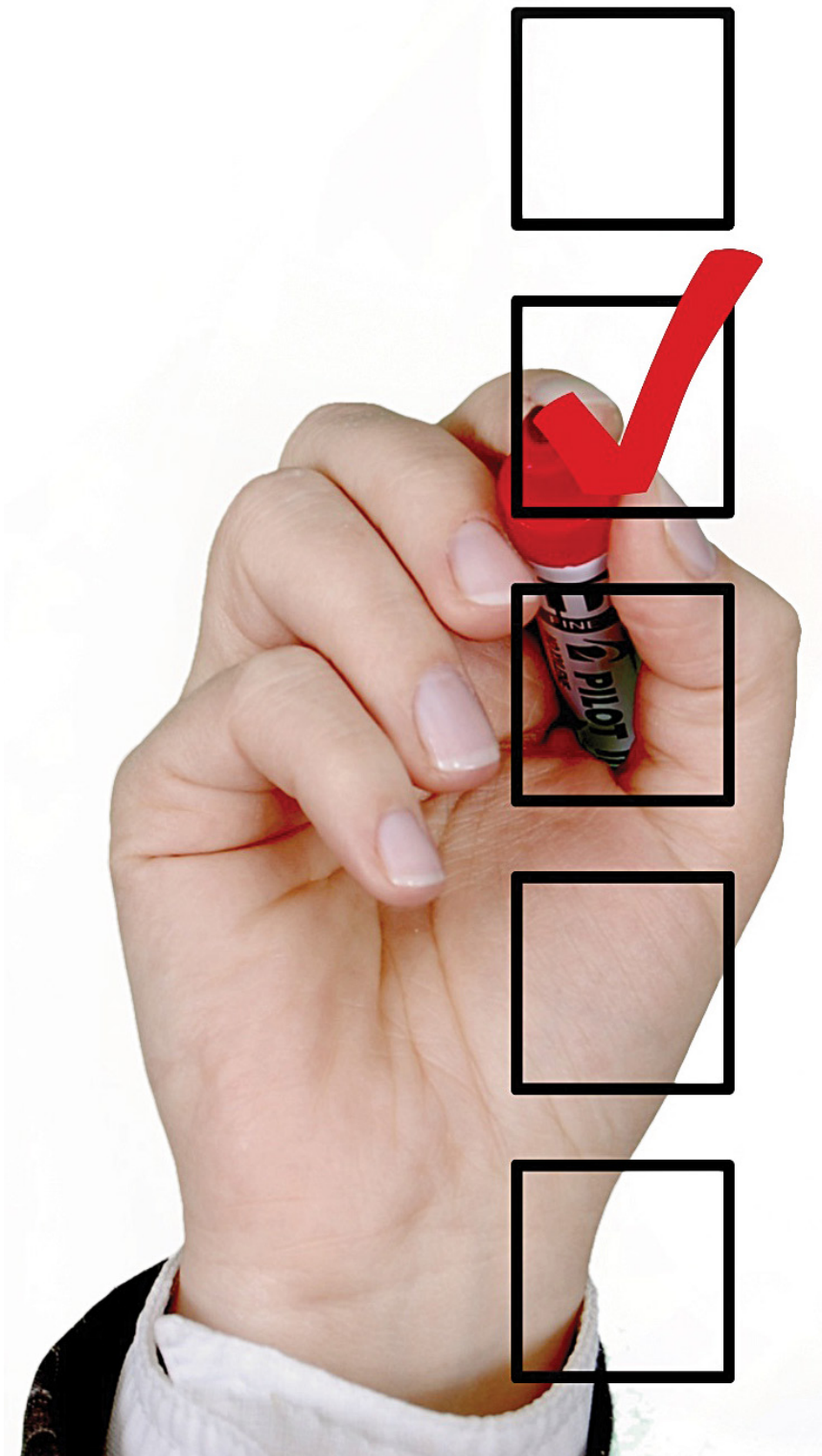
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