

## Tools & Test Equipment



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# Tools and Test Equipment

## Hand Tools

### Screwdrivers

#### SCREWDRIVERS - FLAT BLADE SUNFLAG

Chrome Vanadium Hardened. Sold individually with SOFT rubber handle for easy grip. Premium grade professional tool. Japan Sunflag Supplied but brand may differ depending on stock available.

Shaft	Diam.	Code
10cm	6.0mm	HT680



PLEASE NOTE: VESSEL BRAND MAY BE SUPPLIED DEPENDING ON STOCK

#### SCREWDRIVERS - PHILLIPS HEAD SUNFLAG

Chrome Vanadium Hardened. Sold individually with SOFT rubber handle for easy grip. Premium grade professional tool. Japan Sunflag Supplied but brand may differ depending on stock available.

Shaft	POINT	Code
7.5cm	6.0mm,1	HT650
10cm	6.5mm,2	HT655



PLEASE NOTE: VESSEL BRAND MAY BE SUPPLIED DEPENDING ON STOCK

#### SCREWDRIVERS - PHILLIPS HEAD LONG SHAFT SUNFLAG

Length	Shaft	POINT	Code
295mm	200mm	#2	HT2200



#### SCREWDRIVER KIT - SUNFLAG

5 Piece kit in a vinyl pouch. Chrome-vanadium hardened. Comfortable cushion rubber grip for non-slip, greater torque & control with less fatigue. Highest Quality. Made in Japan. Shaft lengths may vary slightly.

Shaft	Code
100mm Phillips #1	
100mm Phillips #2	
150mm Phillips #2	
75mm Blade 5.5mm	
100mm Blade 6.0mm	

Code  
HT5600



SOFT-GRIP

#### SCREWDRIVERS - ELECTRICAL INSULATED CAT-III

##### DVE IEC60900:2004 PREMIUM GRADE PROFESSIONAL SET

High Quality 1000V insulated Phillips / Blade screw driver set Bright CAT-III Red in colour. Insulated shaft protection Ideal for electrical applications. Large easy-grip comfortable rubber double molded handle. Packaged in a hand plastic tool casing for portable storage. Phillips (x3) #0 #1 #2  
Blade (x4) 3.5 4.0 5.5 6.5mm

Code  
HT78017

BLADE	PHILLIPS
Size:	Size:
1.2x6.5x150	PH2x100
1.0.5x125	PH1x80
0.8x4x100	PH0x60
0.6x3.5x75	



300x205x55mm

#### SCREWDRIVERS - ELECTRICAL INSULATED 1000V

Contains 4 blade type & 3 Phillips type drivers. 1000V fully insulated. Various shaft lengths and tip sizes. Chrome-vanadium steel for extended wear. Also contains a neon 100V - 500V AC tester.

Code  
HT550





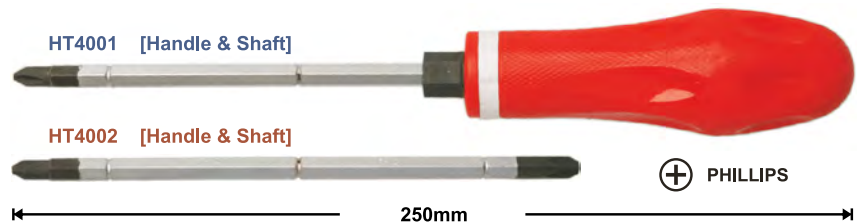
## SCREWDRIVER - PHILLIPS REVERSIBLE

### TWO SIZES [DOUBLE] IN-ONE DRIVER

Long-Life Chrome Vanadium Hardened tipped.  
Reverse the 1/4" HEX shaft to change tip size.  
Two common Phillips Cross-Blade available.  
Easy-Grip handle with one flip shaft each.

Length	POINT	Code
25cm	#1 & #2	HT4001
25cm	#2 & #3	HT4002

Order one to receive one handle and one shaft. Compatible with HT1101, etc.



## SCREWDRIVER KIT - 20 PIECES

### HANDLE WITH FLIP-SHAFTS IN A CASE

Supplied with one handle and 10x double ended shafts. Two locking positions for SHORT or LONG SHAFT positions.  
Large easy grip double molded handle comfortably rubberized.  
Simply choose the shaft with the appropriate vanadium hardened tip, insert into the handle and lock into place at the desired shaft length.  
Torx / Pozi / Hex / Phillips / Blade screwdriver tips.  
Packaged in a hand plastic tool casing for portable storage.

Code  
HT1101



## SCREWDRIVER KIT - 42 PIECES

### 42 PIECE SCREW DRIVER SET

8 Pieces of common sized hand grip screw drivers with comfort grip rubber 7 Pieces of jeweller sized thumb drivers of blade and phillips head tips. 12 Piece (x2) double sided HEX bits with comfort-grip rubber handle driver. Bonus flexible HEX bit extension arm for hard to reach screws, etc.  
Packaged in a hand plastic tool casing for portable storage.  
Includes Blade, Phillips, HEX, Pozi and Torx drives Handy, heavy-duty Transport case 400x270x60mm

Code  
GSD306



## SCREWDRIVER KIT - 7 PIECE

### TAIWAN 75-150MM

Chrome vanadium.  
Magnetised.  
Tempered hardened tips.  
Double moulded handles.  
Soft rubber easy-grip.  
Blade 3x75, 5x75, 6x100mm  
Phillips Head PH0/75mm  
PH1/75mm, PH2/100mm,  
PH2/150mm.

Code  
STD-7256

MADE IN TAIWAN



## MAGNETISER & DEMAGNETISER

This tool allows user to magnetise or demagnetise your screwdrivers instantly. The two slots are large enough to fit most screwdrivers. Compact, easy to fit in your tool box.  
Size: 53 x 47 x 28mm.

Code  
HT163104



## SAFETY TEST SCREWDRIVER

### ELECTRICIAN BLADE - INSULATED

Blade screw driver is the correct size for common screw connectors.  
Neon Indicator Illuminates when 240Vac voltage present.

Code  
HT500



## CONTACT/NON-CONTACT TYPE TESTER

Blade screw driver is the correct size for common screw connectors.  
Active circuitry (LR4 battery) senses voltages 70Vac to 600Vac.

Code  
MS18



## LOW VOLTAGE LED TEST LIGHT

Simple LED Battery indicator for 6V to 24 Vdc.  
2M grounding cable with banana plug & crocodile clip.

Code  
TL023LED







# Tools and Test Equipment

## □ Screwdrivers Micro

### MICRO SCREWDRIVER SET - PHILLIPS HEAD

6 piece Phillips head  
Metal handle and tip.

0-4,  
0-3,  
0-2,  
0,  
1-2,  
1-1

Code  
HT410



### MICRO SCREWDRIVER SET - 6 PIECE

6 piece Swivel tops  
Flat Plastic Handle. Metal Tips.  
Blade: 1.2, 1.8, 2.4, 2.9mm  
Phillips: O, 1

Code  
HT420



### MICRO SCREWDRIVER SET - 6 PIECE

#### BLADE & CROSS-HEAD

Deluxe heavy-duty made  
Soft rubber comfort grip  
Twist thumb swivel back  
105mm long shaft driver  
Heavy-duty storage case  
Cross-Head 00, 0, 1.  
Blade 2.4, 1.8, 1.4mm.

Code  
STD711



### MICRO SCREWDRIVER SET - TORX®

#### STAR DRIVER HEAD

Deluxe heavy-duty made Soft rubber  
comfort grip Twist thumb swivel back  
105mm long shaft driver Heavy-duty  
storage case Star head (Like Torx®)  
T5, T6, T7, T8, T9, T10

Code  
STD712



### MICRO SCREWDRIVER SET - 15 PIECE

#### COMBINES BLADE PHILLIPS HEAD TORX®

Deluxe heavy-duty 100mm Kit contains  
15 drivers Cross-Head 00, 0, 1. Blade 2.4,  
1.8, 1.4mm Star head (Like Torx®) T5, T6,  
T7, T8, T9, T10 Hex H1.5, H2.0, H2.5mm.

Code  
STD713



### ALIGNMENT DRIVERS - CERAMIC TIP

#### ESD Safe Long-Life tips

Zirconium fine ceramic tips  
are durable, non-conductive,  
anti-static and anti-magnetic.

Description	Code
0.4x0.9mm TIP	HT409
0.4x1.3mm TIP	HT413
0.4x1.8mm TIP	HT418
Phillips #0	DA88



### 5 PIECE ALIGNMENT TOOL KIT

Driver for adjusting the ferrite  
core and pre-set knobs.  
Made with polyacetal for high  
insulation and wear resistance.  
Made in Japan.

Code  
HT2016



### ALIGNMENT DRIVERS - ADJUSTMENT SET

#### 10 PIECES SPECIAL TIPS

A set of ten piece hand tools 115mm  
Assorted tips for alignment & adjust  
Made from ABS Non-inductive  
Made in Taiwan

Code  
1PKA001



### ALIGNMENT DRIVER - LONG REACH

Plastic body for insulation with a  
metal tip for extra strength. Ideal  
for alignment and adjustments.

Code  
HT525



### SCREWDRIVER KIT - LONG REACH

Consists of 3 Phillips head  
& 3 blade type screwdrivers.  
An extra long shaft allows  
you to reach difficult screws.

Code  
HT535







## □ Screwdrivers Special Tip

### SCREWDRIVERS - TRI WING

Chrome Vanadium Hardened tips  
Premium professional grade tool  
Full length driver (shaft)  
Vessel Japan.

Size	Shaft	Diam.	Code
TW3	15cm	4.8mm	HTW3
TW4	15cm	6.4mm	HTW4
TW5	15cm	6.4mm	HTW5



### SCREWDRIVERS - TORX®

Sold individually. Premium grade quality tool. 100mm long shaft.  
Handle styles may change depending on stock.

Size	Diam.	Code
T5	1.4mm	HT5H
T6	1.8mm	HT6H
T7	2.0mm	HT7H



### ECONOMY T6 DRIVER 125mm total length.

Size	Diam.	Code
T6	1.8mm	HT1006
T8	3.0mm	HT601

### SCREWDRIVERS - TORX® TAMPER PROOF

Sold individually. **10cm** long shaft

Size	Diam.	Code
T8	2.25mm	HT8H
T9	2.50mm	HT9H
T10	2.70mm	HT10H
T15	3.25mm	HT15H
T20	3.80mm	HT20H
T25	4.40mm	HT25H
T27	5.00mm	HT27H
T30	5.50mm	HT30H



### SCREWDRIVERS - TORX® TAMPER PROOF - LONG SHAFT

Chrome Vanadium Hardened. Sold individually. **20cm** long shaft

Size	Diam.	Code
T10	2.70mm	HT10HLG
T15	3.25mm	HT15HLG
T20	3.80mm	HT20HLG
T25	4.40mm	HT25HLG
T30	5.50mm	HT30HLG



### SCREWDRIVERS - TORX® TAMPER PROOF 7 PIECE

High Quality Large easy grip double molded handles with comfortable rubberized handle, Chrome-Vanadium with hardened tips for long life. Can be used for special security Torx screws and standard Torx® screws Packaged in a hand plastic tool casing for portable storage. Contains sizes: T10, T15, T20, T25, T27, T30, T40

Code  
HT78007B



### TORX® / TORX PLUS HEX DRIVER SET

#### 300mm INTERCHANGEABLE

7pcs Screwdriver set with double ended interchangeable 300mm blades.  
One end Torx® (Sec) (6 sided), other end Torx Plus® . (Sec) (5 sided).  
Sizes T10 | T15 | T20 | T27 | T30 | T40.

Code  
HT9342





# Tools and Test Equipment

## MINI DRIVERS TORX

T5 1.4mm Torx® type drivers

Size	Diam.	Made	Code
T5	1.4mm	Economy	HT4502



## MINI DRIVER TRI-POINT

### SUNFLAG JAPAN 3mmØ

Suit Nintendo-Wii Nokia and others.  
Security driver Professional grade  
Made in Japan tool Sunflag 17-C

Code  
HT888



## MINI DRIVER TRI-POINT

### JIA FA 1.8mmØ

Tri-Point 0.6 Screwdriver for iPhone repair.  
Premium grade tool for precision and durability.  
Aluminium handle. Toughened tool tip.

Code  
HT9024



## MINI-DRIVER SET - 28 BITS

Compact, high quality, comfortable, metal  
thumb-driver kit with jeweller driver bits  
Includes some extra security driver bits  
and a carry case.

Phillips #000 #00 #0 #1 #2  
Blade 1.5 1.7 2.0 3.0 4.0mm  
HEX HN3 3.5 4 4.5 5 5.5 6  
Triangle, Tri-Bit, and Torx (x8)

Code  
GTK2130



## MICRO-DRIVERS KIT 21 PIECE

Compact case includes  
Deluxe soft grip 100mm  
120mm extension shaft  
Exchangeable tips Inc:  
Blade, cross-head, hex,  
and star-drive (Torx®)  
Bonus Small magnifier.

Code  
STD6110



## MICRO-DRIVERS KIT 33 PIECE

Compact case includes  
Deluxe soft grip 100mm  
120mm extension shaft  
150mm flexible shaft  
Exchangeable tips Inc:  
Blade, cross-head, hex,  
and star-drive (Torx®).

Code  
STD6133



## MICRO-DRIVERS KIT 27 PIECE

Compact case includes Deluxe soft grip  
120mm 105mm extension shaft and a  
flexible shaft Exchangeable tips Inc: Blade,  
cross-head, hex, star-drive and sockets.

Code  
STD5820



## PRECISION SCREWDRIVER SET RATCHET

### 11 CHANGEABLE TIPS

Deluxe comfort grip. Internal  
storage of tips. Push-button  
to open chamber. Ratchet  
head mechanism. Package  
includes 11 tips: Phillips: #00,  
#0, #1, Slotted: 2, 2.5, 3mm  
and Torx: T6, T7, T8, T9,  
T10. 150x25mmØ in size.

Code  
STD-6511



## SCREW DRIVER 58 PIECES BIT SET

### TOOLS FOR TODAY'S ELECTRONIC DEVICES

SD-9828 is a complete screwdriver  
set includes the essential bits for  
opening smartphones, tablets,  
notebooks, electronic device cases  
and most branded video games such  
as Apple, HTC, Samsung, Sony,  
Microsoft, Nintendo, Sega and more.

Code  
SD-9828





## Phone Repair Tools

### SMARTPHONE REPAIR TOOL KIT 51 PIECE

#### IPHONE & OTHERS

Mobile Phone disassembly tool kit in a wallet tool case. Includes 80mm Aluminium Driver, Plastic Pry Tools and Paddle ABS, Suction Pad, 115mm Extension Bit Holder, Magnetic Parts Mat, Tweezer, Metal Spudger and a comprehensive range of assorted bits, all neatly encased in a zip-up wallet.

Code

KM-2015



### PHONE DISASSEMBLY TOOL KIT 41 PIECE

#### FOR REPAIRING NOTEBOOK, SMARTPHONE & TABLETS ETC.

This 41 piece repair tool kit has many useful tools for you to repair your computer, smartphone, Apple iPhone, tablets, gaming consoles and other type of electronics devices. This tool kit features 30 pieces assorted bits, 2x plastic prying tools, guitar pick shape opening tool, suction vacuum opener for phone screens, SIM card ejector pin tool, metal spudger, anti-static spudger, 2x tweezers, easy grip screwdriver handle and extension bits holder. All the components are included in a lockable and hangable plastic case.

Code

STE-502



### PHONE DISASSEMBLY TOOL KIT 17 PIECE

#### FOR REPAIRING APPLE PRODUCTS OR OTHER DEVICES

17 in 1 Tool Kit is a professional, portable and complete kit. Perfect fit for Apple products, also allows opening of many other devices as well without any damage. Made in Taiwan.

Code

SD-9314



### PHONE DISASSEMBLY TOOL KIT 23 PIECE

#### IPHONE & OTHERS

Mobile Phone disassembly tool kit. Includes bits and screw driver plus plastic opening tools.

Code

KM-2082C



### 6 PIECES IPHONE OPENING TOOL SET - PROSKIT

This 6 pieces iPhone opening tool set is perfect fit for Apple iPhone repair without damaging the phone. It has a 5 point P2 screwdriver, a #000 Phillips screwdriver, 2x POM opening levers, a prying paddle and a 36mmØ suction cup.

Code

PK-9110



### PHONE DISASSEMBLY TOOL KIT 7 PIECE

#### IPHONE & OTHERS

Mobile Phone disassembly tool kit. Includes micro T4 Torx and phillips screw drivers and plastic opening tools.

Code

HT9022



### PHONE DISASSEMBLY TOOL KIT 4 PIECE

- Spudger Tool (120mm) - Metal
- Point-Blade Solder Aid Tools (155mm) - Nylon
- Spudger Solder Aid Tools (140mm) - Nylon
- Fork-Blade Solder Aid Tools (172mm) - Nylon

Code

MS-3176







# Tools and Test Equipment

## Hex Drivers

### 1/4" HEX DRIVER APEX USA

Quality construction by Apex® USA from chrome vanadium steel and HDPE chemical resistant handle for a tough and reliable tool. Non-magnetic tip holder suits all 6mm Hex tips.

Code  
HT1500P



MADE IN USA



### SOCKET DRIVER

#### DEEP NUT DRIVER 8mm & 10mm

Long throat for nut on thread affixing. Premium grade Japan SUN-FLAG. Rubber Grip.

Size	Code
8.0mm	HT808
10.0mm	HT810



### 1/4" HEX DRIVER WITH RUBBER GRIP

#### WITH MAGNETIC TEMPERED TIP

Standard sized hex screwdriver. 1/4" in size. Durable construction with anti-slip rubber handle.

Code  
HT1024



### 1/4" HEX DUAL WRENCH DRIVER SET

Two bit holders which allows it to be used as a wrench or as a driver. Includes 1.5mm 2.0mm 2.5mm 3.0mm 4.0mm hex bits, #00 #1 #2 Phillips head bits, and 4.5mm, 6mm flat head bits. Knurled Cushioned Grip.

Code  
DR-07



### 1/4" HEX TIP KIT - 23 PIECE

The 23 piece mini ratchet socket and screwdriver bit set includes a right angled ratchet wrench with a 1/4" dual drive head and 1/4" screwdriver bit holder, 6x 1/4" drive sockets (5, 6, 7, 8, 9, 10mm) and 16x Chromium-vanadium steel screwdriver bits (Phillips 0, 1, 2, 3; Slotted 3mm, 4mm, 5mm, 6mm; Pozidriv 1, 2; Torx 15, 20 and Hexagonal head 3, 4, 5, 6).

Code  
HT06523



MAGNETIZED TIP

### 1/4" HEX STUBBY DRIVER SUN-FLAG

Low-profile solution. Suits any 1/4" bits. Includes a double ended blade & cross-head bit. Suits No.1, 2, 3. Premium triple molded. Handy Cup-Screw slot.

Code  
HTD96

MADE IN JAPAN

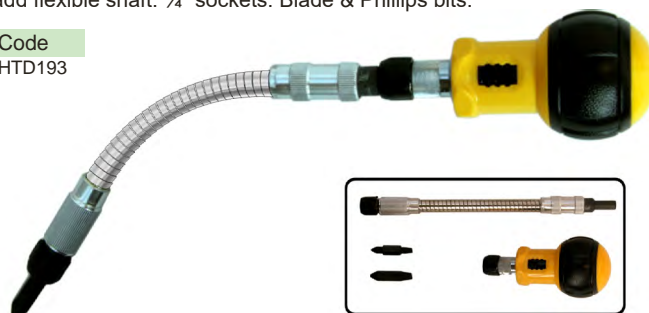


### 1/4" HEX WITH FLEXIBLE SHAFT - SUNFLAG

#### RATCHET DRIVE - DETACHABLE SHAFT

Tool solution for awkward spaces. Stubby ratchet screwdriver mode, add flexible shaft. 1/4" sockets. Blade & Phillips bits.

Code  
HTD193



### FLEXIBLE SHAFT SCREWDRIVERS KIT

#### 1/4" SQUARE TIP TO 1/4" HEX SOCKET

130mm Heavy-duty shaft will bend up to 90°. 240mm over-all length. Easy grip handle. 1/4" square tip for socket sets, etc. 1/4" hex socket adaptor. Kit includes 10 bits.

Code  
HT01812



### 1/4" HEX TIP KIT - 62 PIECE

Heavy-duty ratchet driver Precision tool. Comfort grip. with a collection of 59 tips Including standard driver tips and security tamper-proof bits butterfly, snake-eye, torx®, etc. Magnetic drill adaptor socket.

Code  
ST26092





## □ Screwdrivers Cordless

### RECHARGEABLE CORDLESS SCREWDRIVER 2Nm

#### REQUIRES USB CHARGER (MICRO USB CABLE INCLUDED)

This powerful cordless electric screwdriver features 3.6V 800 mA Li-ion battery, capable of 40 minute of usage. It is recharged through a micro USB port (Requires USB charger). This screwdriver offers exceptionable powerful torque at 2Nm and rotational speed of up to 280 RPM. It has forward and reverse buttons, built-in LED for working in the dark, 6.35mm quick released chuck and includes a PH2 screw driver bit. Dimensions: 140x37mmØ

Code  
GTT171



### RECHARGEABLE CORDLESS SCREWDRIVER PEN

#### REQUIRES USB CHARGER (MICRO USB CABLE INCLUDED)

This compact rechargeable electric cordless screwdriver is ideal for technicians, and other professionals who are assembling or repairing phones, watches, laptops, drones, and more. It has a lightweight and slim aluminium anodised body and tactile switches enable you to easily toggle between clockwise and counter-clockwise using your thumb or fingers. The integrated LEDs will turn on when you press the switch. The screwdriver is powered by 3.7V Lithium battery and can be recharged from a USB power source using the supplied USB lead (Charger not included). A tool magnetiser/demagnetiser is included to enable the bits to hold onto the screws, and it also includes 55 screwdriver bits, and handy carry case. Dimensions: 180x15mmØ

Code  
GTT151



### RECHARGEABLE CORDLESS SCREWDRIVER 5Nm

#### REQUIRES USB CHARGER (USB-C CABLE INCLUDED)

This handy cordless rechargeable electric screwdriver features 3.6V 2000 mA Li-ion Battery. It is rechargeable through a USB-C port (Requires USB charger). This screwdriver offers exceptionable powerful torque at up to 5Nm. It has a switch to change from clockwise to anti-clockwise rotation. It also includes built-in LEDs for working in the dark, and a 12 piece 1/4" screwdriver bit set. Dimensions: 133x114x37mm

Code  
GTT153



## □ Tool Torch

### TOOL TORCH

#### ATTACHES TO HAND TOOLS

Hands free illumination  
Small single super bright LED torch on an adjustable magnetic base for attachment to a screw driver, spanner or any metal surface.

Code  
TML1



### 1/4" HEX SCREWDRIVER & TORCH

Features 6 Superbright LEDs  
6 Bits included in handle cap.  
Flathead 1/4", 3/32" & 1.5mm  
Phillips #0, #1, #2.  
3x AAA batteries included.

Code  
XT038





# Tools and Test Equipment

## Hex Bits

### MAGNETIC DRILL BIT ADAPTOR

Allows quick connection of 1/4" Hex bits with drills. Magnetized. Tradesman grade. 76mm long.

Code  
HTCM40



### SCREWDRIVER BITS 2x EXTENDED SHAFT

Made with hardened steel and engineered to withstand high impacts, speed and torque for maximum life and turning force. The magnetic bits make it easy to hold. Forged precision fit tips prevent stripping and provide maximum grip.

Size	Length	QTY	Code
#2	50mm	2 pieces	HT02578
#2	75mm	2 pieces	HT02579
#2	100mm	2 pieces	HT02580
#2	150mm	2 pieces	HT02584



### PHILLIPS 1/4" HEX TIPS

Size	Code
#2	HEX402
#3	HEX403

PREMIUM GRADE HARDENED STEEL  
LONG LIFE TIPS OFFICIAL PATENTS

### POZI-DRIVE 1/4" HEX TIPS

Size	Code
#2	HEX442
#3	HEX443

PREMIUM GRADE HARDENED STEEL  
LONG LIFE TIPS OFFICIAL PATENTS

### PHILLIPS PIN-HEAD 1/4" HEX TIPS

Size	Code
#2	HEX482
#3	HEX483

PREMIUM GRADE HARDENED STEEL  
LONG LIFE TIPS OFFICIAL PATENTS

### 1/4" HEX TIP KIT - 11 PIECE

Professionals Choice Special automotive kit. Very low wear and tear long lasting material. Pocket size and very Light weight. Kits Includes T10, T15, T20, T25, T27, T30, T40, T45, T50, One 1/4" square drive x 1/4" hex socket adaptor and one 1/4" hex drive, 60 mm long bit holder.

Code  
DA9728



### 1/4" HEX TIP KIT - LONG SHAFT - 32 PIECE

#### INCLUDES SECURITY BITS

Excellent selection of 1/4" HEX Bits for use with Cordless drills, etc.. Economical. Made in China Inc. many security bits Torx, Tri-wing, Pin-Head, etc.

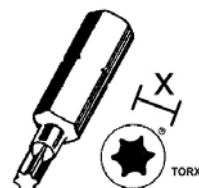
Code  
HT2551



### TORX 1/4" HEX TIPS

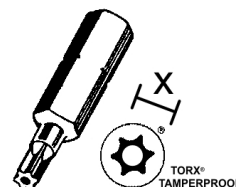
Premium grade hardened steel  
long life tips official patents.

Size	Diam.	Code
#3	0.9mm	HEX803
#5	1.3mm	HEX805
#6	1.5mm	HEX806



### TORX TAMPER PROOF 1/4" HEX TIPS

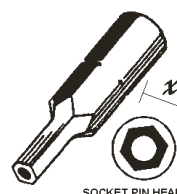
Size	Diam.	Code
#7	1.7mm	HEX807
#8	2.0mm	HEX808
#9	2.2mm	HEX809
#10	2.5mm	HEX810
#15	3.0mm	HEX815
#20	3.6mm	HEX820
#25	4.0mm	HEX825
#27	4.3mm	HEX827
#30	4.8mm	HEX830



### SOCKET PIN HEAD 1/4" HEX TIPS (Metric)

Size	Code
2.5mm	HEX625
3mm	HEX630
4mm	HEX640
5mm	HEX650

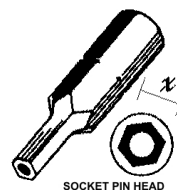
Premium grade hardened steel  
long life tips official patents.



### SOCKET PIN HEAD 1/4" HEX TIPS (Imperial)

Size	Code
3/32", 2.3mm	HEX633
1/8", 3.1mm	HEX618
5/32"	HEX653

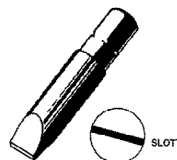
Premium grade hardened steel  
long life tips official patents.



### BLADE 1/4" HEX TIPS

Size	Diam.	Code
4F / 5R	6.2x.85mm	HEX204
10F / 12R	6.2x1.3mm	HEX210

Premium grade hardened steel  
long life tips official patents.



### SNAKE EYE 1/4" HEX TIPS

Size	Gap	Code
#4	1.5mm	HEX704
#6	2.0mm	HEX706
#8	2.5mm	HEX708
#10	3.3mm	HEX710
#12	4.0mm	HEX712
#14	4.5mm	HEX714



### TRI-WING 1/4" HEX TIPS

Size	Diam.	Code
W1	4.7mm	HEX301
W2	4.7mm	HEX302
W3	4.7mm	HEX303
W4	6.3mm	HEX304



### 1/4" HEX TIP KIT - 100 PIECE

Ultimate kit of a full assortment of 1/4" hex bits adaptable for hex-drivers or electric drill & socket wrench. All popular screwdriver bits including security drives, etc. Plus magnetic bit holder, socket driver extensions, and hex to square adaptor.

Code  
HT2038







## □ Mini-Spanner & Mini-Socket

### UNIVERSAL TOOL SET 20 PIECE

#### ONE-DRIVER MULTI-BIT

Flat (blade) and nut drivers as well as hex keys and open wrenches in a case. Inserts into common handle (twist lock).

Blades: 1.5, 2.5, 3.5 mm

Cross: No.0, 1 & AWI

HEX: 1.5, 2.0, 2.5mm

Nut: 4.0, 4.5, 5.0, 5.5, 6.0 mm

Code

HT440



### NUT DRIVER SET

5 piece nut driver Metric HEX Socket set

Sizes

3.0mm,

3.5mm,

4.0mm,

4.5mm,

5.0mm

Code

HT430



### MICRO SCREWDRIVER SET 16 PIECE

16 piece Phillips, flat head and socket screwdrivers.

Screwdrivers included:

6 Flathead: 1mm to 3.8mm

4 Phillips: 0, 1

3 Allen key: 1.5mm to 2.5mm

3 Hex socket: 3mm to 5mm

Code

HT416



### NUT DRIVER & POWER SCREW DRIVER ADAPTORS

This kit includes 3x 48mm long impact magnetic nut drivers (H1/4", H5/16", H3/8") and 2x 50mm long Hex socket adaptors (1/4" and 3/8"). Hex Quick change shank.

Code

HT02904



## □ VCR Repair

### ALIGNMENT TOOLS

For adjusting VCR audio/control heads, tape guide path and other transport mechanism parts.

Code

HT36

HT87

HT89



### VCR VIDEO HEAD EXTRACTOR

Adjustable to suit many brands.

Code

HT800



## □ Allen Key

### ALLEN KEYS MINI-KIT

#### EXTRA SMALL > 0.7mm

Miniature keys not usually found in standard sized kits. These unique keys are required for guide posts, heads, motor pulleys, etc.

Kit includes 7 pieces

0.7, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0mm.

Code

HV70



### HEX KEY SET - METRIC

#### 8X ALLEN KEY SET

8x steel allen keys

Metric value HEX

1.5, 2.0, 2.5, 3.0

3.5, 4, 5 and 6mm

Code

HT7542



#### 3MM ALLEN KEY SINGLE

As supplied in some of our kits, etc.

Code

HT6306



### HEX KEY SET - METRIC

#### 7X FOLD-UP KIT

Metal handle with

7x steel allen keys

Metric value HEX

1.5, 2.0, 2.5, 3, 4,

5 and 6mm

Code

HT6371



### HEX KEY SET - IMPERIAL

#### 8X ALLEN KEY SET

8x steel allen keys

Imperial value HEX 1/16",

5/64", 1/8", 3/32", 5/32",

3/16", 7/32" and 1/4" Heat

treated long life

Code

HT7540



### HEX KEY SET - IMPERIAL

#### 9X FOLD-UP KIT

Metal handle with 8x steel

allen keys Imperial value

HEX Size 0.05" to 3/16"

Code

HT6292



### HEX KEY SETS 36 PIECE - IMPERIAL & METRIC

This 36 piece Hex Key Set is made from Chrome Vanadium Steel. Hardened and powder coated. Includes 18 metric Sizes and 18 SAE Sizes in versatile long/short arm design.

- 9x Long Arm SAE: 1/16", 5/64", 3/32", 1/8", 9/64", 5/32", 3/16", 1/4", 5/16"
- 9x Short Arm SAE: 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 5/32", 3/16", 7/32"
- 9x Long Arm Metric: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 4.5mm, 5mm, 6mm, 8mm
- 9x Short Arm Metric: 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 5mm, 5.5mm

Code

HT7543





# Tools and Test Equipment

## □ Tweezers

### TWEEZERS - ANTISTATIC ESD

Poly carbonate non-twisting plastic Precision tweezers suitable for electrostatic electronics too. Chemical and heat resistant (+220C).



#### SHARP NOSE

Code  
HTJ207



#### ROUND NOSE

Code  
HTJ203



#### 3MM NOSE

Code  
HTJ205



#### 7MM NOSE

Code  
HTJ206



#### 12MM NOSE

Code  
HTJ202



### TWEEZERS - STAINLESS STEEL

Selected professional tool. Surgical quality tools, Anti-acid, Anti-Magnetic, Non-Corrosive. Polished. Non-slip. Long Life. Won't distort. HRC40 hardness. Premium medical grade.

#### 110mm FINE TIP STRAIGHT

Code  
TW-ST10



#### 125mm SUPER FINE TIP STRAIGHT

Code  
TW-AASA



#### 135mm FINE TIP STRAIGHT

Code  
TW-ST12



#### 140mm FINE TIP STRAIGHT

Code  
TW-ST11



#### 140mm SUPER FINE TIP STRAIGHT

Code  
TW-SSSA



#### 120mm FLAT TIP

Code  
TW-34SA



#### 110mm SUPER FINE TIP STRAIGHT

Code  
TW-ST14



#### 115mm SUPER FINE TIP STRAIGHT

Code  
TW-5SA



#### 125mm SUPER FINE TIP STRAIGHT

Code  
TW-2SA



#### 120mm SUPER FINE TIP CURVED

Code  
TW-7SA



#### 120mm FINE TIP CURVED

Code  
TW-ST15



#### 115mm FLAT & ROUND

Code  
TW-ST13



#### 120mm FLAT & ROUND

Code  
TW-2ASA



## □ Files & Scribes

### HAND ASSIST TOOLS

A collection of assorted hand tools Scribes, hooks, blades, brushes, etc. designed to assist technicians in repair and servicing.

Code  
SA10



### MINI NEEDLE FILES SET

#### MINI FILE KIT

Five assorted 140mm different tip profiles: Round, square, flat. Insulated handles. High tensile steel Suit hobby work Close & fine detail.

Code  
NF140



### MEDIUM NEEDLE FILES SET

#### 6 PIECES 190mm

Excellent selection of useful sizes & shapes. Medium hand tool sized Rubber grip handles Medium/Fine grit files Convenient storage case Handles have hook holes

Code  
HT2500



### ENGINEER SCRIBER

#### HIGH-TENSILE STEEL

All metal hand tool for scribing many surfaces Sharpened point ends One straight, other bent 175mm total length Non-slip grip

Code  
HT1824

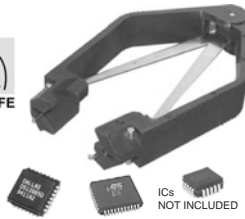




## Remover Tools

### PLCC IC EXTRACTOR

For those delicate ICs with pins on all sides. This extractor first hooks under the diagonal corners then pulls upward evenly, removing the package without damage.



Code  
CY850

### IC TOOL SET ESD

Consists of three insertion tools and one extraction tool for static free handling of sensitive IC's

Code  
ICT4



### IC EXTRACTOR TOOL

The simple to use IC extractor features a thumbwheel that allows you to maintain the extractor's grip firmly on the IC. Extract IC in one single operation.

Code  
HT609D



### PEARL CATCHER PARTS PICKER

For removing small screws and other parts from hard to get at places. Spring loaded. Non-conductive body. Approx. 100mm long.

Type Code  
Plastic PU6



### FUSE REMOVER

Remove and insert fuses with ease. Compatible with most fuse sizes.

Code  
FRT3



### FUSE & RELAY REMOVER

#### 10" COMPONENT GRIP

Box joint adjustable 9mm/35mm (Parallel) Grips components for safe and controlled extraction of items Excellent for tightly packed PCBs, etc.

Code  
YF-6254



### SNAP RING PLIERS SET (155mm)

#### WITH REPLACEABLE 45° / 90° / 180° TIPS

This 155mm snap ring plier is suitable for internal and external circlips with an effective range of 10 to 50mm. It includes four interchangeable tips (2x 180°, 1x 90° and 1x 45°) to suit different applications. Excellent durability and comfort to use.

Code  
HT-249



## Bags

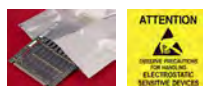
### FARADAY ANTI-STATIC BAGS

#### STATIC SHIELDING - STATIC DISSIPATIVE - 100 BAGS PER PACK

Industry standard tinted static bags. Metalised and 40% transparent. Heat sealable. Non-tear polycarbonate. Creates a Faraday cage envelope to protect contents from static fields. Order one to receive a bag of 100.



Size	Pack of	Code
100x150mm	100	ASB46
150x200mm	100	ASB68
200x300mm	100	ASB812
250x350mm	100	ASB1014
300x400mm	100	ASB1216
375x450mm	100	ASB1518



### PRESS-TO-RESEAL PLASTIC BAGS

Clear plastic with write-on label. Resealable lip. Order One To Receive A Bag Of One Hundred.

#### 250x140mm Large

Pack of Code  
100 PB2514

#### 170x100mm Medium

Pack of Code  
100 PB1710

#### 120x80mm Small

Pack of Code  
100 PB128

#### 120x80mm Anti-Static

Pack of Code  
100 ASB128







# Tools and Test Equipment

## Knives

### RETRACTABLE KNIFE - MINI

#### PLASTIC BODY 140mm

Lockable pocket size.  
With Snap Off Blade.

Code  
HT310



### RETRACTABLE KNIFE - HEAVY DUTY

#### 175mm HANDLE WITH SNAP-OFF TYPE BLADE

Large heavy duty retractable knife. Smart blade locking design that allows you to push the blade up and then lock it in one motion. Spare blades can be stored in the handle. Rubber grip for better handling. Includes 3 blades in total.

Code  
HT8039



#### 5 PACK OF BLADES

Code  
HT8065

### RETRACTABLE KNIFE BOX CUTTER

Zinc alloy Metal body. Retractable blade locks  
Blade storage in handle Hand comfort 140mm long

Code  
HT8003



#### 10 PACK OF BLADES

Code  
HT8066

### RETRACTABLE TRIMMING KNIFE WITH HOLSTER

Heavy duty retractable trimming knife with holster  
for handy access and 5 spare blades included.  
The holster can be clipped on to your belt.  
Dimensions: 175x55x23mm

Code  
HT8008



### GYPROCK SAW

Made in Japan with 2 blades. Each blade has two faces of differing gauge teeth for plasterboard, metal or wood. Retractable. Tipped sharp for piercing. Blade one is cut Away (Push) Other blade is Cut Toward (Pull).

Code  
HT300



#### REPLACEMENT BLADES

Type	Code
PULL	BLD301
PUSH	BLD302



## Saws

### HACKSAW CLOSE-QUARTER

#### 12" BLADE HANDLE

Metal handle holds a 300mm hacksaw blade for close-quarter work.

Code  
HT7963



#### 300mm REPLACEMENT BLADE

24tpi Suit metals, alloys, plastics.

Code  
FH1224



### HACKSAW DELUXE FULL SIZE

#### 12" BLADE SOFT-GRIP

Metal handle locks blade  
90° or 45° cutting angle

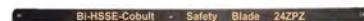
Code  
HT2103



#### 300mm REPLACEMENT BLADE

24tpi Bi-HSSE-Cobalt Germany\*  
Suit metals, alloys, plastics.

Code  
FH1224



**RUBBER-GRIP  
LOW-FATIGUE**

\*Supply may vary. Same specifications.

### HACKSAW MINI SIZE

#### 6" BLADE SOFT-GRIP

Professional hand tool Metal handle  
locks blade 360° at any cutting angle

Code  
H2107



#### 150mm BLADES X10

32tpi High-Carbon Steel for  
Soft metals, alloys, plastics

Code  
FT0632

\*Supply may vary.  
Same specifications.

### 150MM GYPROCK SAW

Professional General-purpose saw for cutting  
wallboard, sheetrock, gypsum board, etc.  
Long pointed blade for plunge-type cuts and  
closer-quarter work. 150mm blade length.  
Blade made of Hardened Steel.  
Comfortable ergonomic grip.

Code  
HT22097





## □ Crimpers Compression

### COMPRESSION CRIMP KIT

#### RG6 PLUG TOOL CASE

This kit includes three tools for custom building cables for cable TV, satellite, communication equipment. Heavy duty tools for reliable service. Round cable cutter for coax cable. Universal stripping tool for cutting, and trimming to correct portions. Adjustable for assorted coax cables. Compression plug crimping tool. Kit includes 6 RG6 "F" crimp plugs. Suits RG7, RG11, RG59, RG6 & QUAD

Code  
HT6923



### COMPRESSION CRIMP TOOL "F"

#### 20.3mm SUIT "F" ONLY

"F" Types ONLY.  
eg. F333 & F334 plugs. See  
Cables & Connectors Section.  
RG59 & RG6 Cables  
Suit Dual, Triple or Quad  
shielded coax. Compress  
distance 20.3mm +/-0.15mm  
All metal tool Easy action.

Code  
HTH518A



### COMPRESSION CRIMP TOOL

#### UNIVERSAL F/BNC/RCA

Quick adaptor change for different  
plugs. See Cables & Connectors  
Section. RG59 & RG6 Cables  
Suit Dual, Triple or Quad shielded  
coax. Compress distance is Trim  
adjustable (locks) All metal hand  
tool Easy action.

Code  
HT509



### COMPRESSION CRIMP TOOL

#### PROFESSIONAL UNIVERSAL

Fully adjustable with adaptors  
for crimping any of the plugs  
in our range (Section Cable &  
Connectors). Adjustable crimp  
length. Professional quality.  
Tension adjustable. Suit Dual,  
Triple or Quad shielded coax.

Code  
HTH510B



### F CONNECTOR INSTALLATION TOOL

#### CABLE ASSIST

One end to enlarge space  
between shield and  
insulation for RG59, the  
other RG6. Another end to  
lock "F" connector allows  
hold so as to assemble

Code  
HT224D



### CONICAL COMPRESSION TOOL

#### WATERPROOF CONICAL 'F' COMPRESSION

Heavy duty construction and is designed to apply the correct amount  
of pressure so as to obtain a perfect result. Waterproof connection.  
Maintains originality of coax cable. Professional finished appearance.

Code  
HT507



Suitable for the conical 'F' connectors (F507).  
F507 Sold Separate.

#### RG6 QUAD "F"

Code  
F507

### CRIMPING TOOL - SUITS RG6 DOUBLE BUBBLE

#### FOXTEL® APPROVED F31149

The BC85191 RG6 Conical crimper tool is design to compress  
BC80490 DB6U-L Connectors. Foxtel Approved. (F31149)

Foxtel Code  
F31149 BC85191



#### PLUGS TO SUIT: "F" RG6 DOUBLE BUBBLE - FOXTEL® APPROVED

Foxtel Code  
F30712 BC80490



### COMPRESSION TOOL FOXTEL® APPROVED

#### FOXTEL® APPROVED F30973

- Compact, durable design and construction for long-lasting tool.
- Enhanced leverage for easier activation.
- Compatible with RG59 & RG6 PCT TRS series connectors.
- Locking mechanism for convenient storage.
- Automatically aligns cable.
- Full 360 degrees compression surface.

Foxtel Code  
F30973 TCTRHC



### COMPRESSION TOOL FOXTEL® APPROVED

This premium quality compression tool is suitable  
to use on Foxtel® PCT Type connectors.

Foxtel Code  
F30718 TCA10CT



#### "F" COMPRESSION - APPROVED PCT-TRSF-6L FOXTEL F30574

Foxtel Approved F30574 PTC Type compression connector for all  
Foxtel Approved RG6 cables including Triple and Quad shielded,  
flooded, etc. See Cable Section for Foxtel Coax. Brass construction.

Cable Code  
RG6-Quad APFTRSF6L

#### RIGHT ANGLE FOXTEL RG6-QUAD

Foxtel Code  
F30719 APFTRSF6L-RA







# Tools and Test Equipment

## Vice

### PANAVERSE JR

#### A THIRD HAND!

Workbench assistant.  
Made in the USA.  
Cast Iron base.  
Reinforced fibre plastic  
fingers Jaws open 73mm.  
Ball joint lock pivots &  
rotates Base bolts down  
"A helping hand"

Code  
PV201



### CIRCUIT BOARD CLAMPING KIT

This handy tool allows you to hold various sizes of PC boards when soldering. Spring tension and screw lock. Fingers extend to a maximum of 200mm. Adjustable base for length and angles. It is light weight, and easy to use.

Code  
ZD-11E



## Miscellaneous

### NIBBLING TOOL

#### PUNCH CUTTER

Cuts up to 18AWG ~1.2mm  
soft steel and aluminium, etc.  
Drill a 9.5mm hole Insert head  
and squeeze handles  
5mm Square punch.

Code  
HT204



### CAULKING GUN

#### RATCHET GUN FOR CAULK & SEALANTS

Standard friction type Dripless. All metal. 5:1 thrust ratio.  
Smooth ratchet Suit standard ~8" Caulking cartridges

Code  
HT816



### COMPACT 4" CAULKING GUN - SILIGUN

#### COMPACT, LIGHTWEIGHT AND DRIP-FREE CAULK GUN

- Heavy duty caulk gun made of strong, but lightweight ABS plastic - easy to hold
- Only 4" in length, easy to fit into a toolbox and gives user flexibility to work in tight spaces
- Takes seconds to load and seconds to remove.
- Ensures a clean job due to its drip free technology
- 12:1 high thrust ratio delivers a thick adhesive flow, and dispenses caulk more efficiently

Code  
URS001



## IDC Punch-Down

### IDC PUNCH DOWN TOOL

Disposable type tool for IDC cable insertion. Quick n' easy saves time!

Type Code  
Krone® HT-IDC1



### IDC PUNCH DOWN TOOL & WIRE STRIPPER

#### NON-BRANDED

Krone® type punch-down  
wire insertion tool with  
wire stripper handle.

Code  
HT-IDC4



### IDC PUNCH DOWN TOOL - IMPACT TYPE PRO

Spring-loaded punch down tool for seating wire terminal blocks.  
Simply push down and the spring-loaded mechanism kicks down for a secure connection. Wire puller and trimmer.

Type Code  
Krone® HT-364BKR  
110/88 HT-364BR



### IDC PUNCH DOWN TOOL - PROFESSIONAL

Crimps and clips in one action.  
Compatible with the standard "Krone" type. Quality constructed.

Code  
HT-IDC2



### IDC PUNCH DOWN TOOL & WIRE STRIPPER

#### MADE IN TAIWAN

Krone® type punch-down wire  
insertion tool with wire stripper  
handle. Premium quality.

Type Code  
Krone® HT318



### IDC PUNCH DOWN TOOL - IMPACT TYPE

Type Code  
110/88 HT-314B







## Modular Crimpers

### CRIMPING TOOL - MODULAR - JACKSON

#### WITH STRIPPER/CUTTER

Low fatigue hand grip  
Wire stripper & cutter  
Premium quality tool  
Suit RJ45 RJ11 RJ12,  
4, 6, 8 pin.

Type	Code
4 / 6 / 8 Pin	HT345RA



### CRIMPING TOOL - MODULAR ETHERNET

#### TELEPHONE TO ETHERNET PLUGS

Professional crimping tool. All metal construction with stripping blades & spring load lever action.

Type	Code
4 Pin	OT245
4 & 6 Pin	OT250
8 Pin	OT256



### CRIMPING TOOL - EZ THROUGH TYPE

#### SUITS NEW EZ MODULAR CRIMP PLUGS

This ratchet crimping tool is designed to cut, strip and terminate extended copper wires with precision from EZ-Through range of Crimp Plugs.

- Crimping size:
- 8P8C/RJ45
- 6P6C/6P4C/6P2C RJ11/RJ12

Code
HT346



### CRIMPING TOOL - MODULAR WITH CABLE TESTER

#### CABLE TESTERS CLIP-OUT OF THE HANDLES

This crimping tool with in-built cable tester provides a simple way for the user to crimp and test their cable with the same tool. The crimper tool is suitable for RJ45, RJ12 and RJ11 plugs. The compact detachable tester can easily test for wiring continuity, opens, shorts, etc. Send and receive modules detach from the handles.

Type	Code
4P/6P/8P	CT82001



### CRIMPING TOOL - IDC RIBBON CONNECTORS

Assembles ribbon cable into ribbon connectors.  
Suit IDC Crimp plugs.

Code
HT214



### CRIMPING TOOL - MODULAR CAT5/6

#### RJ45 + RJ11 RJ12

Professional crimping tool. All metal construction with stripping blades & spring load lever action. Connectors Section for crimp plugs.

Code
OT258



### CRIMPING TOOL - MODULAR - HEAVY DUTY

All metal RATCHET tool. Professional lever action. Low fatigue hand grip. Single action stripper. Cut & strip to length 6mm / 12mm UTP / STP. Premium quality tool.

Type	Code
4P/6P/8P/10P	DL3460R

Type	Code
4P/6P/8P	DL-3468R



### CRIMPING TOOL - MODULAR WITH CABLE TESTER

#### RJ45 + RJ11 RJ12 6 & 8 PIN

Professional crimping tool. All metal construction with rubber handle. It includes a cable tester on the handle with a snap-in module for testing Cat3, Cat5 or Cat6 UTP and STP cables. It also has a wire stripper and cutter, 6P and 8P crimper. The tester requires 4x LR44 batteries (Sold separately).

Code
HT3761



## Miscellaneous

### CABLE TIE GUN

Tightens cable ties with trigger action. Then twist to cut-off excess cable tie end

Code
HT381



### CRIMPING TOOL - D-SUB CLOSED BARREL

#### CRIMPS INDIVIDUAL PINS

This product is designed for closed barrel D-SUB connectors used with RS-232 interface connectors. Suitable for wires 0.50-4.0 mm².

Code
CP-463



### STAINLESS STEEL CABLE TIE TENSIONING TOOL

#### HEAVY DUTY

- Cable Tie range of 3.8mm to 12mm
- Has a convenient side entry with adjustable tightening tension
- Includes Automatic cut off for nice clean cuts
- Takes up to 55kg of tension pressure for use with 60 to 250kg tension rated cable ties

Code
HT382





# Tools and Test Equipment

## □ Crimpers

### CRIMPING TOOL - RG

**RG178, RG179, RG180, RG187 & RG316**

Crimps outer and most inner.  
Replaceable jaws.

Code  
HT336T1

#### REPLACEMENT JAW

Code  
JAW336T1



### CRIMPING TOOL - BNC/TNC/SMA/F/N

**F, N, BNC, UHF, SMA & ST, SC**

Popular HEX Crimp ratchet From 1.07mm to 4.52mm HEX  
Suits coax and optic cable also "Belden® 8218" crimp  
Replaceable jaws.

Code  
HT336J

#### REPLACEMENT JAW

Code  
JAW336J



### CRIMPING TOOL - RG174

**RG174 SMA/SMB**

Special SMA/SMB version Pin and Outer collar  
crimp 0.187 / 0.178 / 0.151 & 0.128" Shallow crimp  
for 0.068 & 0.042" 1.07, 1.72, 3.25, 3.50, 3.85mm  
4.52 and 4.75mm HEX Crimp

Code  
DL801V

#### REPLACEMENT JAW

Code  
JAW801V



### CRIMPING TOOL - RG58/59/62/140

**RG58, RG59, RG62 & RG140**

Sizes 6.48mm (.255"), 5.41mm (.213"),  
3.50mm (.137"), 2.54mm (.100"),  
1.72mm (.068"), 1.10mm (.043")

Code  
DL801G

#### REPLACEMENT JAW

Code  
JAW801G



Plus fibre-optic crimp tool!

### CRIMPING TOOL - RG8/11/58/59/62/213

**RG58, RG59, RG62, RG8, RG11 & RG213**

Heavy duty. Crimps outer only.  
Replaceable jaws.

Code  
HT336D2

#### REPLACEMENT JAW

Code  
JAW336D2



### UNIVERSAL CRIMP TOOL FRAME ONLY

**8.7" WITH RATCHET**

Universal ratchet crimping frame only. High quality made of carbon  
steel and hardened with black oxide finished. Suits most of the  
interchangeable jaws JAW336 series.

Code  
HT336FM

Note: No jaws supplied.



### CRIMPING TOOL - BNC/TNC/F

**GENERAL PURPOSE CRIMP TOOL**

Heavy Duty ratchet tool. Suits the more  
popular crimp 5.4 & 6.5mm RG58U  
RG59U BNC TNC "F".

Code  
HT336A

#### REPLACEMENT JAW

Code  
JAW336A



### CRIMPING TOOL - RG59/62/174

**RG59, RG62 and RG174.**

Crimp sizes 1.07mm(.042"),  
1.73mm(.068"), 4.52mm(.178"),  
6.48mm(.255"), 7.06mm(.278").

Code  
HT336G4

#### REPLACEMENT JAW

Code  
JAW336G4



### CRIMPING TOOL - RG6/55/59/62

**RG58, RG59, RG62 & RG6**

Heavy duty construction tool designed to apply  
the correct amount of pressure so as to obtain  
a perfect result. Replaceable jaws.

Code  
HT336C

#### REPLACEMENT JAW

Code  
JAW336C



### CRIMPING TOOL - RG6/59

**RG59 and RG6**

Heavy duty construction and is designed to apply  
the correct amount of pressure so as to obtain  
a perfect result. Replaceable jaws.

Code  
HT336C2

#### REPLACEMENT JAW

Code  
JAW336C2



### CRIMPING TOOL - RG6/59

**RG59 & RG6**

HEX Crimp with 3 large sizes Heavy duty  
construction tool correct amount of pressure to  
obtain a perfect result 8.90mm / 8.13mm /  
6.48mm, 0.350" / 0.320" / 0.255"

Code  
DL801F

#### REPLACEMENT JAW

Code  
JAW801F



### CRIMPING TOOL - RG8/9/11/174/2163/316

Pin and Outer collar crimp  
0.075 / 0.100 / 0.128 / 0.425"  
1.9mm / 2.54 / 3.25 / 10.9mm  
Suit RG8, RG9, RG11, RG174,  
RG213, RG316, BLDEN9913

Code  
DL801K

#### REPLACEMENT JAW

Code  
JAW801K







## CRIMPING TOOL - RG6/59

### RG59, RG6, etc.

Our parts eg.; F322, F325, P545 P541, S521, etc. Strong construction for these larger cable crimping. Easy double-action lever, low fatigue. HEX 1 8mm(0.322")  
HEX 2 9mm(0.359")

Code  
HT106H



## CRIMPING TOOL - BNC/TNC/SMA/F/N

### F N BNC TNC UHF SMA etc.

Professional Ratchet type. 2.54mm & 9.12mm & 12.06mm. Suit RG59, RG6, RG11 Cable. Adjustable ratchet adjust. 225mm long. Double lever.

Code  
HTH116M



## CRIMP TOOL - FERRULE SQUARE

### 10-26 AWG WIRE FERRULE SQUARE CRIMP TOOL - PROSKIT

Self-adjustable crimping tool ideal for crimping 0.25 - 6.0mm<sup>2</sup> insulated and non-insulated wire ferrules. It provides high crimping force with low hand power for ease of use.

Code  
CP462G



## CRIMPING TOOL - MICRO CONNECTOR 1.25-2.5mm

### CURL-CRIMP NON-INSULATED AWG32 TO AWG20

Suits Non-Insulated terminals Curl Crimp 1.25mm to 2.5mm pitch connectors & pins. AWG32 to AWG20 Cable. Comfortable soft handle oil-resistant elastomer (TPR) Coiled spring jaws with locking latch. Length 175mm Made in Japan

Code  
PA09



## CRIMPING TOOL - MICRO CONNECTOR 2.5 - 5.0mm

### CURL-CRIMP NON-INSULATED AWG28 TO AWG18

Suits Non-Insulated terminals Curl Crimp 2.5 to 5mm pitch connectors & pins. AWG28 to AWG18 Cable. Comfortable soft handle oil resistant elastomer (TPR) Coiled spring jaws with locking latch. S55C material. 135g compact body for fatigue-free work.

Code  
PA-20



## CRIMPING TOOL - INSULATED TERMINALS

This combined multi-purpose tool will crimp non-solder type insulated terminals. Ideal for every tool box. Screw cutter, stripper, crimper all-in-one.

Code  
OT400



### TERMINAL KIT

300 Pieces of Plug Terminals (No tool)

Code  
TMK300

## CRIMPING TOOL - INSULATED TERMINALS

### PROFESSIONAL VERSION

This combined multi-purpose tool will crimp non-solder type insulated QD terminals. Heavy-duty, non-twist hand tool. Screw cutter, stripper, crimper all-in-one.

Code  
HTS502

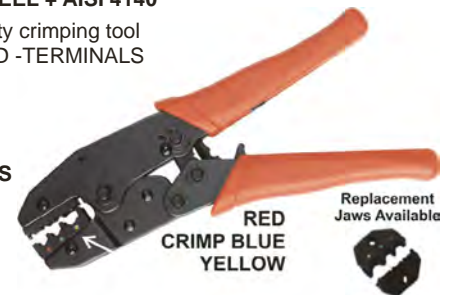


## CRIMPING TOOL - INSULATED TERMINALS HT236H

### MIDDLE CARBON STEEL + AISI 4140

Ratchet type heavy-duty crimping tool for popular INSULATED -TERMINALS

Code  
HT236H



### REPLACEMENT JAWS

Code  
JAW236H

## CRIMPING TOOL - INTERLOCKING SOLDERLESS

### CURL-IN TYPE CRIMP HEAD

Non-insulated terminals This tool Curl-Crimps for use with Split-Crimp ends AWG20-18, AWG16-14, AWG12-10

Code  
HT236C

### REPLACEMENT JAW

Code  
JAW236C



## CRIMPING TOOL - INTERLOCKING SOLDERLESS

### HEAVY-DUTY CRUSH CRIMP HEAD

Suitable for Non-insulated terminals. AWG 20-18, 16-14, 12-10, 8. DIN 1.2, 2.5, 6, 10 mm<sup>2</sup> JIS 1.25, 2.0, 5.5, 8 mm<sup>2</sup>

Code  
HT236N







# Tools and Test Equipment

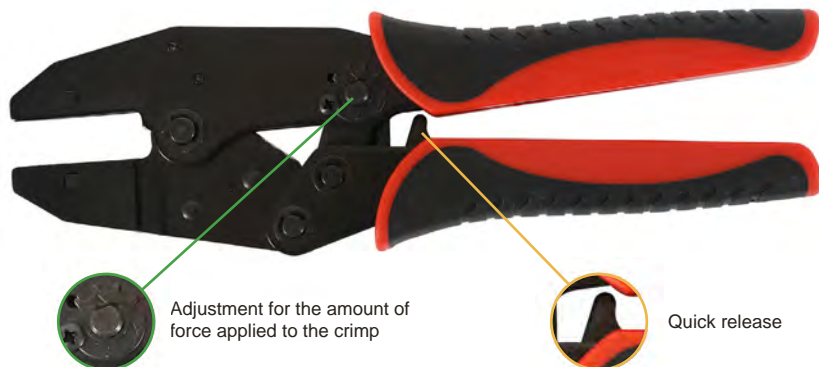
## □ Crimpers - Universal Type

### CRIMPING TOOL - JAW12J QUICK CHANGE TYPE

#### CARRY JUST THE ONE HAND TOOL AND SWAP-OUT MULTIPLE CRIMPING DIES

The quick change ratchet crimper frame allows users to simply change the die to handle different set sizes of terminals. There are many dies to suit the HT-JBI ratchet crimper frame, all sold separate for you to choose. The quick change jaw design requires no other tools to change the jaws. Just slide in and self locks. With a simple ratchet action, crimping terminals and wire is fast and easy. It has an adjustment wheel to manually change the tightness before self releasing, or use the quick release lever to free the crimper jaw straight away. The hand tool features ergonomically designed steel frame handles with contoured rubber grips to make the tool easy to use all day long. Storage case available.

- Quick change jaw design allows you to change the jaw to handle different set sizes of terminals.
- Up to 37 different sets of jaws available for different applications (sold separately).
- Reliable ratchet mechanism long-life hand tool.
- Ergonomic, cushioned TPR, anti-slip handles.
- Adjustment for setting the desired crimping force.
- Self releasing action or manual release lever
- 220mm long, Low fatigue left or right handed
- JAW12J Type Jaw Dies are all sold separate



Code  
HT-JBI

#### CASE TO SUIT

Storage case to suit Quick Change ratchet crimper frame and 5 dies.  
Size: 282x195x50mm

Code  
CAS-K05



Note: Crimper frame and dies sold separately



#### JAW FOR INSULATED TERMINALS

JAW12JA Series							
Function	Insulated terminal	Heat shrink butt connector	Fully insulated quick disconnect	Miniature insulated terminal	Insulated flag terminal	Closed end connector & heat shrink terminal	Insulated flag terminal
AWG	22~18 / 16~14 / 12~10 AWG	22~18 / 16~14 / 12~10 / 8 AWG	22~18 / 16~14 / 12~10 AWG	26~22 / 24~18 / 22~16 AWG	22~18 / 16~14 AWG	22~16 / 16~14 / 12~10 AWG	12~10 AWG
Code	JAW12JA	JAW12JA1	JAW12JA2	JAW12JA3	JAW12JA4	JAW12JA5	JAW12JA6
Examples							

#### JAW FOR NON-INSULATING TERMINALS

JAW12JB Series		
Function	Non-insulated terminal	Non-insulated terminal
AWG	20~16 / 16~14 / 12~10 / 8 AWG	6 / 4 AWG
Code	JAW12JB	JAW12JB1
Examples		

#### JAW FOR OPEN BARREL TERMINALS

JAW12JC Series				
Function	Open barrel terminal (0.5-6mm <sup>2</sup> )	Open barrel terminal (0.1-1mm <sup>2</sup> )	Open barrel terminal & D-SUB, V3.5 (2.5-10mm <sup>2</sup> )	Spark plug connector
AWG	20~18 / 16~14 / 12~10 AWG	26~24 / 24~22 / 22~18 AWG	14 / 22 / 8-6 AWG	17 AWG
Code	JAW12JC	JAW12JC1	JAW12JH	JAW12JH1
Examples				



## JAW FOR RF CONNECTOR

JAW12JE Series							
Function	RG type coaxial cable connector	RG type coaxial cable connector	RG type coaxial cable connector	RG type coaxial cable connector	RG type coaxial cable connector	RG type coaxial cable connector	RG type coaxial cable connector
mm	6.48 / 5.41 / 2.54 / 1.72 / 8.23 mm	6.48 / 4.75 / 1.72 / 5.41 mm	6.5 / 8.1 / 1.72 / 5.41 mm	1.09 / 1.72 / 2.54 / 3.48 / 5.41 / 6.48 mm	2.54 / 3.25 / 10.9 mm	1.07 / 1.72 / 1.98 / 3.25 / 3.84 / 4.52 mm	2.54 / 5.41 / 8.1 / 9.14 mm
Code	JAW12JE	JAW12JE1	JAW12JE2	JAW12JE3	JAW12JE4	JAW12JE5	JAW12JE6
Examples							

## JAW FOR WATERPROOF TERMINALS

JAW12JH Series				
Function	Superseal 1.5 type terminal (0.35-1.5mm <sup>2</sup> )	Superseal 1.5 type terminal (0.75-1mm <sup>2</sup> )	Weather pack terminal (0.35-0.8mm <sup>2</sup> )	Weather pack terminal (1-3mm <sup>2</sup> )
AWG	22-20 / 16 AWG	18 / 17 AWG	22 / 20-18 AWG	16-14 / 12 AWG
Code	JAW12JH2	JAW12JH3	JAW12JH6	JAW12JH7
Examples				

## JAW FOR TE TIMER CONTACT

JAW12JL Series		
Function	JPT receptacle contact	JPT & MCP flat contact
AWG	24-13 AWG	20-14 AWG
Code	JAW12JL	JAW12JL1
Examples		

## JAW FOR DEUTSCH CONTACTS

JAW12JK Series							
Function	Deutsch contact (DTP)	Deutsch contact (DTP)	Deutsch contact (DT)	Deutsch contact (DT)	Deutsch contact (DM)	Deutsch contact (DT)	Deutsch contact (Quad indent) (DTP/DT/DTM)
AWG	14 / 12 AWG	10 / 12 / 12 AWG	18 / 16 / 14 AWG	20 / 18 / 16 AWG	20 / 18 / 16 AWG	16 / 14 / 12 AWG	20 / 16 / 12 AWG
Code	JAW12JK1	JAW12JK2	JAW12JK3	JAW12JK4	JAW12JK5	JAW12JK6	JAW12JKQ8
Examples							

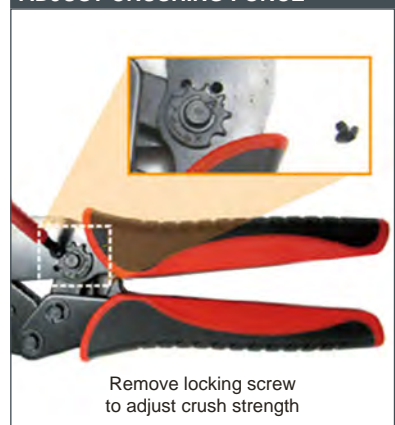
## JAW FOR CORD END TERMINAL

JAW12JD Series			
Function	Cord end terminal (0.5-4mm <sup>2</sup> )	Cord end terminal (6-16mm <sup>2</sup> )	Cord end terminal (25-35mm <sup>2</sup> )
AWG	20 / 18 / 17 / 16 / 14 / 12 AWG	10 / 8 / 6 AWG	4 / 2 AWG
Code	JAW12JD	JAW12JF	JAW12JF1
Examples			

## SOLAR CONNECTOR

JAW12JI Series	
Function	MC4 solar connector
AWG	14 / 12 / 10 AWG
Code	JAW12JI2
Examples	

## ADJUST CRUSHING FORCE





# Tools and Test Equipment

## □ Cable Strippers

### WIRE STRIPPER - PULL

#### SELF-ADJUSTING

Designed for easy wire stripping. The alloy steel can strip all types of cable from AWG 10-26 gauge (0.15 -6.0mm), and the wire guide ensures the correct length is stripped time and time

Code  
KY665T



### WIRE STRIPPER - SIDE

#### SINGLE ACTION AUTO

Several Gauge slots. Insert cable into correct slot and squeeze the handle.

24-12AWG [0.5-2.0mm]

Code  
KUS4A



20-10AWG [1.0-3.2mm]

Code  
KUS4

### WIRE STRIPPER - BEAK

#### SINGLE ACTION AUTO

Suit cable 0.5-6.0mm Grips and strips in one hand grip press Adjustable pressure. Adjustable cable stop Suit bell wire, CAT5 Telephone, etc..

Code  
GTA002



### CABLE STRIPPER & SPLITTING TOOL

#### CAN CUT DOWN THE LENGTH OF THE CABLE

Swivel blade is suitable for stripping circular cables around the cable jacket or along the jacket to split the cable open.

Suits cable 8-22mm.

Depth adjustable.

Code  
CT82123



### MODULAR CRIMPING AND STRIPPING TOOLKIT

#### CABLE TESTER SUIT RJ11 & RJ45 MODULAR CONNECTORS

This crimping and stripping toolkit consists of a 4 pieces crimping and stripping set, a cable tester and 10x RJ11 and 10x RJ45 modular connectors. The tool set includes a crimper, a impact punch down tool, a Krone type punch-down wire insertion tool and a wire stripper. This excellent value tool set is stored inside a handy carry case.

Code  
CT82155



### COAXIAL CABLE STRIPPER HT377

Suits most crimp plugs  
Adjustable blade depth

Suits RG6 (5C2V)  
RG58 (3C2V)  
RG59 (4C2V)

Code  
HT377



### COAXIAL CABLE STRIPPER TAIWAN

RG6, 58, 59, 174

Suit RG6 (5C2V),  
RG58 (3C2V),  
RG59 (4C2V),  
RG174

Code HT332



### COAXIAL CABLE STRIPPER HT322

Thumb ring action with blade depth trim and positioning.

Suits Code  
RG-58, 59, 6 HT-322  
RG-8, 11, 213 HT-322S



### UNIVERSAL CABLE STRIPPER

Patented device for stripping the covers off todays modern cable styles, eg. STP/UTP 4P/6P/8P Speaker, Coax, etc.

Code  
HTS501A



### UNIVERSAL CABLE STRIPPER

For stripping round cable, stranded wire, multi-conductor cable and irregular out shape cable from 22AWG up to 9.5mmØ

Code  
CT82071



### UNIVERSAL CABLE STRIPPER - NETWORKER

Suitable for coaxial cable RG59, RG6, RG7 and RG11, round networking cable, and flat telephone cable.

Code  
CT82080







## Cutters

### MICRO NIPPER 115mm SWISS

#### PROFESSIONAL SIDE CUTTER

Made in Switzerland by Erem® for Precision and long life. 115mm Soft Grip Small oval head Full-flush action. The Best available.

Size	Code
115mm	HT522N



### SIDE CUTTER 125mm

#### MICRO NIPPER CHINA

Excellent General purpose electronics and hobbyist cutting nippers. Economy. With insulated handles and spring return.

Size	Code
125mm	HT206



### MICRO NIPPERS 90mm TAIWAN

#### SIDE CUTTER STAINLESS STEEL 8mm BLADE

Extra compact micro-nippers with quality stainless steel blade. Soft handle grip. Spring return. Made in Taiwan. Blister hanger packaged.

- General purpose cutting
- Can cut plastic <3.0mmØ
- Cut soft copper <1.2mmØ
- Please don't cut hardened metals

Code
HT1972



### SIDE CUTTER 125mm

#### MICRO NIPPER TAIWAN

Excellent General purpose electronics and hobbyist cutting nippers. Taiwan. With insulated handles and spring return.

Size	Code
125mm	HT109



### SIDE CUTTER 115mm - NANYE GUNDAM

#### SK-5 STEEL MATERIAL

- SK-5 steel. 50 HRC.
- Excellent edge sharpness.
- Light weight only 50g
- Compact and easy to handle.
- Comfortable grip reduces the fatigue.
- Popular hobbyist nipper flush cutter.

Size	Code
115mm	MN-1702



### SIDE CUTTER 125mm PLATO

#### MICRO-SHEAR 170 FLUSH CUTTER

Superior high quality cutters with flush sheering action for low fatigue and a close flush cut. Spring return.

Size	Code
125mm	HTA170



### SIDE CUTTER 115mm - NANYE GUNDAM

#### SK-5 STEEL MATERIAL

50HRC blade hardness. Ø1.0mm soft wire & copper wire cutting capability. Excellent edge sharpness and Comfortable PVC grip reduces the operator's fatigue and increases productivity. Compact and easy to handle. Light weight only 50g. High frequency wave heat treatment for blades, No acidification treatment.

Code
MN-170



### SIDE CUTTER 150mm SCOPE

#### HEAVY DUTY 2178 FLUSH CUTTER

Extra-Hardened Machined Tempered Steel Cutters Long life blades for larger cable work. Spring return lever Large cushion grip Premium grade tool Long life. Sure action. Wire 1.5mmØ

Size	Code
150mm	HT178



### SIDE CUTTER 125mm

#### CHROMIUM-VANADIUM STEEL

Ø1.8mm soft wire and Ø2.6mm copper wire cutting capacity. Cutting blades are high frequency induction heated, which ensures good cutting ability and longer life. Double Cutting Edges Design prevents overlapping in cutting. Diagonal cutting pliers.

Code
XK-125J



### SIDE CUTTER 150mm

#### HEAVY DUTY DIAGONAL CUTTING PLIERS

2.0mmØ soft wire and 3.2mmØ copper wire cutting capacity. Cutting blades are high frequency induction heated. Double Cutting Edges Design prevents overlapping in cutting.

Size	Code
150mm	SK-150





# Tools and Test Equipment

## Cutters

### SIDE CUTTER 115mm JAPAN

Extra small cutters  
Premium grade S58C  
Optimum designed for  
electronic applications.  
With insulated handles  
and spring return.  
Copper 1.0mmØ  
Strand 1.6mmØ

#### MICRO NIPPER ENGINEER

Size Code  
115mm NS04

ENGINEER®  
MADE IN JAPAN



### SIDE CUTTER 150mm JAPAN

#### WIRE CUTTER - ENGINEER

Extra strong cutters  
Premium grade S55C  
Extra hardness HRC 58±4  
Cuts steel wire to 2mmØ  
Sharp and durable cutting  
for precision wiring work

Size Code  
150mm NK16

ENGINEER®  
MADE IN JAPAN



### SIDE CUTTER 125mm JAPAN

#### NIPPER JAPAN ENGINEER

Premium grade tools  
Optimum designed for  
electronic applications.  
With insulated handles  
and spring return.

Size Code  
125mm NS03

ENGINEER®  
MADE IN JAPAN

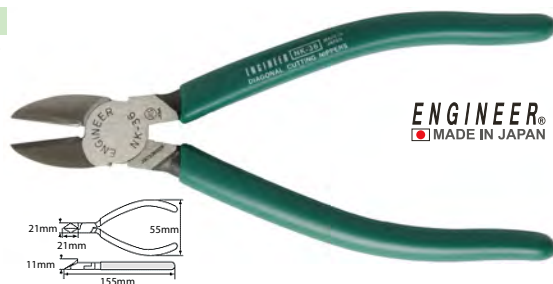


### SIDE CUTTER 150mm JAPAN

#### HEAVY DUTY - ENGINEER

Diagonal Nippers are a high quality heavy duty cutting tool capable  
of cutting both steel wire 2mm in diameter and copper wire 3.2mm in  
diameter. Made in Japan from S58C Steel. 50mm long.

Code  
NK-36



### SIDE CUTTER 125mm ENGINEER

#### 0.6mm SUPER-FINE MICROCUTTER SEQUENTIAL BLADES

Allows operation in places where components density is very high.  
Especially suitable for flat ICs with pins in 0.5 mm pitch. Characterised  
by elongated thin blades, specially shaped arms and less weight.  
Handles are fitted with  
dual mold sleeves with  
soft antislid top layer.  
Blackened surfaces.  
Fitted with return spring.

Size Code  
125mm NZ12

ENGINEER®  
MADE IN JAPAN



### SIDE CUTTER 160mm JAPAN

#### SLANT EDGE - ENGINEER

Slant edge cutting Nippers are a high quality heavy duty cutting tool  
capable of cutting steel wire Ø1.4mm, copper wire Ø2.6mm and  
Ø2mm of stranded. Made in Japan from S58C Steel. 159mm long.

Code  
NN-56



#### WITH Ø1.2 & Ø1.6mm STRIPPING HOLES

Code  
NN-46



### SIDE CUTTER 125mm REVERSE ENGINEER

#### REVERSE BLADE 0.6mm SUPER-FINE MICROCUTTER

Allows operation in places where components density is very high.  
Especially suitable for flat ICs with pins in 0.5 mm pitch. Characterised  
by elongated thin blades, specially shaped arms and less weight.  
Handles are fitted with  
bi-component plastic  
sleeves with soft antislid  
top layer. Blackened  
surfaces. Fitted with  
return spring.

Code  
NZ13

ENGINEER®  
MADE IN JAPAN



### CUTTER SCISSORS 170mm JAPAN

#### 2-IN-1 CUTTING BLADE - ENGINEER

Serious scissors. Stainless Steel material (SUS6A) with a HRC  
of 54±2. Ability to cut through copper braided wires, Copper wires  
(Ø1.5mm) Kevlar, Cabtyre cord, Cotton insulated cord, Aluminium  
sheet(0.5mm) & plastic sheet (1.0mm).

Code  
PH50





## Cutters

### SAFETY SIDE CUTTER 125mm XURON USA

#### MICRO-SHEAR 170-II

Premium grade tool cutter with flush scissor action for low fatigue and a close flush cut. Spring return. Safety wire catch. Made in USA

#### WITH CATCHER

Size	Code
125mm	HT1175



### SAFETY SIDE CUTTER 125mm XURON USA

#### MICRO-SHEAR 9200

Durable Alloy Steel Super heavy duty Micro-Shear cutters with lead retainer. Low fatigue cutting with ultra-durability. Soft non-slip grip. Cut 14AWG copper Length 125mm Blade 9mm

Size	Code
125mm	HT9200



**9200**  
XURON CORP.  
Heavy Duty

### COAX CUTTERS 160mm - HEAVY DUTY

#### DESIGNED FOR RG58, RG59 AND RG6 CABLE

Large cutter designed to be used on cable with a steel centre conductor. Patented rivet provides extra durability. High leverage design. Long 20mm jaws. Made with hardened carbon steel, and insulated handles for easy handling.

Size	Code
160mm	HT-C206D



### CUTTERS DIAGONAL 200mm HEAVY DUTY

#### CRESCENT 10"

Large cutters for heavy cutting of cable, etc. High leverage design. Long 20mm jaws. Hardened/Toughened. Insulated handles.

Size	Code
200mm	HT5428I



### SAFETY SIDE CUTTER 125mm XURON USA

#### USA MADE 170-II

Micro-Shear® US Pat 3774301 "Blade by-pass Shear cutting". Xuro-rubber grip. Drop forged and computer cut. Cut 20AWG copper Length 130mm Blade 9mm

Size	Code
125mm	HT1702



### CABLE CUTTERS 240mm HEAVY DUTY

#### T&E 10"

Large cutters for heavy cutting of cable, etc. High leverage design. Hooked 30mm jaws. Hardened/Toughened. Insulated handles.

Size	Code
240mm	HT338



### SIDE CUTTER 150mm XURON USA

#### MAXI-SHEAR HEAVY-DUTY 2175

Tough shear action cutter for general electronic applications like cutting Harnesses & cables, etc. Xuro-rubber grip handles. Low fatigue design for longer working use. Cut 14AWG copper Length 150mm Blade 12mm

Size	Code
150mm	HT2175



### CONDUIT CUTTER 42mmØ

Double lever action. Heat treated cutting blade for cutting PVC pipes, water hoses and pipes made of synthetic resin. Maximum 42mm outside diameter cut.

Size	Code
42mm	CPC42







# Tools and Test Equipment

## □ Pliers

### 100mm MICRO-PLIERS STAINLESS STEEL

#### MADE IN TAIWAN

Precision pliers made from stainless steel. Spring return. Rubber grip handles. 100mm.

Type	Code
Flat Nose	HT1971
Round Nose	HT1973
Micro Nose	HT1974
Micro Bent	HT1975



### 115mm TWEEZER NOSE PLIER - JAPAN

Flat 1mm Tip with spring return. Premium tool designed for electronic applications Insulated handle. No serration (flat).

Size	Code
115mm	PS04

**ENGINEER®**  
MADE IN JAPAN



### 125mm LONG NOSE PLIERS

Hobby & electronic use. Hardened steel polished. Serrated multi-grip teeth tip and nut grab pliers. Double mold rugged handles with non-slip soft grips. Wire cutting blades. Excellent value.

Size	Code
125mm	HT202



### 125mm LONG NOSE PLIERS

#### S55C MATERIAL

Superior quality high-carbon steel (S55C) material with Ø1.0mm hard wire and Ø1.8mm soft wire cutting capacity. High frequency wave heat treatment. PVC grip for maximum comfort.

Size	Code
125mm	ZJ-125



### 125mm NEEDLE NOSE PLIERS - JAPAN

Premium tool designed for electronic applications Insulated handle Non-slip grip Serrated teeth Cutting nipper

Size	Code
125mm	HT305

**ENGINEER®**  
MADE IN JAPAN



### 150mm LONG NOSE PLIERS

#### HIGH CARBON STEEL

Superior quality high-carbon steel (S55C) material with Ø1.2mm hard wire and Ø2.0mm soft wire cutting capacity. High frequency wave heat treatment. PVC grip for maximum comfort.

Size	Code
150mm	ZJ-316



### 150mm LONG NOSE PLIERS - JAPAN

**ENGINEER®**  
MADE IN JAPAN

Premium tool designed for electronic applications Insulated handle Non-slip grip. Serrated teeth Cutting nipper. Heavy duty

Size	Code
150mm	HT306



### 130mm TWEEZER NOSE PLIERS XURON

Precision, ergonomic, durable hand tool. Strong carbon steel extra thin profile. Length 129mm Nose 20mm

#### SMOOTH JAW TYPE

Size	Code
129mm	HT485

#### SERRATED JAW TYPE

Size	Code
129mm	HT486



### 150mm TWEEZER NOSE PLIERS SCOPE

Long narrow reach. Serrated jaws are Strengthened to resist crossover. Spring return. Cushion grip. Light in weight, strong in quality. Premium grade Professional tool.

Size	Code
150mm	HT378



### 115mm MINI-PLIERS GENERAL PURPOSE

#### MINI BULL NOSE PLIERS

Hobby & electronic use. Hardened steel polished Serrated multi-grip teeth tip and nut grab pliers. Double molded handles. Non-slip soft grips. Wire cutting blades. Spring return.

Size	Code
117mm	HT213





## Spanners & Hammers

### 160mm PLIERS GENERAL PURPOSE

#### DOUBLE MOLD HEAVY DUTY

Hobby "Bull Nose" Pliers  
Hardened steel polished  
Serrated multi-grip teeth tip  
and nut grab pliers. Double  
molded handles. Non-slip  
soft grips. Wire cutting  
blades. Excellent value



Size Code  
160mm HT215

### 205mm PLIERS ELECTRICIAN 1KV AS/NZS4056

#### 8" GRIP/CUT INSULATED 1KV CABAC

Large "Bull Nose" Pliers  
Drop-forged vanadium steel  
Serrated multi-grip teeth tip  
and nut grab pliers. Double  
molded handles. 1000V  
Insulated. Non-slip soft  
grips. Wire cutting blades.  
IEC60900, AS/NZS4056.



Size Code  
205mm HVEP205B

### MULTIGRIPS

Classic adjustable jaw multi-grip pliers.  
High strength chromium with soft grip  
double molded 250mm handles.  
Grip nuts, bolts and pipe up to 50mm.  
Attach the Soft-Grip plastic add-ons to  
the jaws for a non-scratch hold.



Code  
HT15213

### NUT REMOVER PLIERS

#### REMOVE DAMAGED SCREWS!

This unique plier will grip  
with its elaborate vertical &  
horizontal serrated jaw and  
remove Engineer Japan



Length Code  
150mm PZ55  
175mm PZ56

**ENGINEER®**  
MADE IN JAPAN

### CLAW HAMMER

#### 14" 20oz

Extra-strengthened.  
Carbon steel head  
drop-forged with  
Poly-fibre mast.  
Rubber grip handle  
345mm total length  
560g (½Kg) weight  
Extra long life  
Minimal vibration  
With hook hole.



Code  
PA05000

### CLAW HAMMER STUBBY

#### 6" 10oz

Short handle hammer Solves  
awkward nails Magnetic head  
holds nail initially too! Extra-  
strengthened Carbon steel head  
drop-forged with Rubber grip  
handle 155mm total length 280g  
(¼Kg) weight



Code  
PA05308

### POP-RIVET GUN

#### 4 RIVET NOZZLES

Kit comprises hand tool 260mm  
suit 4 sizes and bonus 60 piece kit  
of various sized rivets

Code  
PA26448

#### POP-RIVETS

4x10mm Rivets  
Receive 100 pieces

Code  
BRVT410



### SPRING CLAMP PEG SET 10 PIECE

This 10 pack spring clamp set is ideal for DIY  
carpentry, hobbies and crafts. It includes 6x 89mm  
long clamp with a 45mm jaw, 2x 110mm clamp with  
a 50mm jaw and 2x 150mm clamp with a 65mm jaw.  
Made with strong and lightweight Nylon construction  
with pads to protect most finishes and surfaces.

Code  
HT11635



## Wrench

### ADJUSTABLE WRENCH 6"

#### 20MM SPANNER

High-Carbon Steel Precision tool.  
Doped soft grip. Adjustable to 20mm.  
150mm long compact.

Code  
STP710



MADE IN TAIWAN

### ADJUSTABLE WRENCH 8"

#### STANDARD SIZED 30mm

The jaw is adjustable 30mm  
Drop forged chromium steel  
Rust resistant chrome finish  
Thumb screw for adjustment  
Total length is 205mm (8")  
Comfort "Grip-Well" handle

Code  
HT17187







# Tools and Test Equipment

## □ Fibre Optic Tools

### PORTABLE LC FIBRE OPTICAL FAULT TESTER

#### 1mW TESTS FIBRE LENGTH UP TO 5KM

Designed to find breakpoint, poor connection, dead zone, bending or cracking and End-to-End visual fibre identification in a network. Visual 650nm Red 1mW. 2.5mm to 1.25mm adaptor.

Code  
OPTO1021



### HIGH PRECISION OPTICAL FIBRE CLEAVER

#### FOR PRODUCING PERFECT FLAT FIBRE END FACE

Fibre optic cleaver is used to cut the fibreglass for fusion splicing, also ideal for preparing fibre for pre-polished connectors to make a good end face, and it is very important in the fibre splicing process, usually it works together with the fusion splicer to meet the end needs.

- Designed for excellent portability, this fibre optic cleaver is well-shaped and in sound quality.
- This high precision fibre optic cleaver is professional designed in structures, its 16-position blade provides approximately 48,000 cleaves with angle of about 90 degrees.
- high precision fibre optic cleaver is ideal for fusion splicing standard 125/250um & 125/900um fibres and preparing fibre for various pre-polished connectors.
- It utilises an automatic anvil drop for fewer required steps and better cleave consistency.

Code  
OPTO506



## □ Tools Sets

### ELECTRONIC TOOL WALLET - SOLDERING

#### 25 PIECE REPAIR KIT

An excellent variety of common electronic repair tools for the technician Soldering/De-Soldering, Screw drivers, Cutters, all manner of handy items. Zip-Case 285x195x50mm

Code  
GTK030B



### ELECTRONIC TOOL WALLET - 12 PIECE

#### 12 PIECE REPAIR KIT

An excellent variety of common electronic repair tools for the technician Cross, Blade, Nut drivers IC Extractor, tweezers, etc. Great kit for Computer techs' Zip-Up case.

Code  
GTK-012



### ELECTRONIC TOOL WALLET - 23 PIECE

#### 23 PIECE REPAIR KIT

An excellent variety of common electronic repair tools for the technician Multi Tip driver w/ Torx IC Extractor, tweezers, Cutters, needle nose, etc. Handy little Zip-Up case.

Code  
GTK026







## □ Socket Sets

### SOCKET & WRENCH SET 29 PIECE

#### HIGH-QUALITY MINI-SET 6" RATCHET

Brushed-finish Chrome-Vanadium steel 150mm ratchet and 150mm hand driver. Tommy-bar, extension bit & uni-elbow 12 Piece metric socket 4mm to 13mm 12 Piece bit set. HEX, Phillips, etc. Packaged in a hand plastic tool casing.

Code  
GTK231



**AUTOMOTIVE SECTION 09**  
More Vehicle  
Components

## □ Automotive

### RADIO SERVICE TOOL KIT

#### REMOVAL TOOLS

Unique hand tools required to remove todays car audio items Includes the 5 TORX bits GM Code retriever Chrysler radio remover Ford radio remover clips Antenna multi-wrench packaged in a tool box.

Code  
HTJ5800

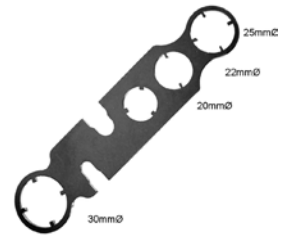


### ANTENNA WRENCH

#### STAMPED STEEL MULTI

Fits many of todays car antennas for removal. 20mm to 30mm.

Code  
HTJ5700



### FORD RADIO REMOVAL TOOLS

#### TWIN BULLET CLASPS

As required for removing the radio from the dash.

Code  
HTJ5755



### AUTOMOTIVE REFITTING TOOL KIT

This auto refitting toolset consists of 12 pieces well design tool for refitting of car panels for GPS, stereo, radio and DVD installation.

Code  
REM000



## □ Cable Puller Lasso

### CABLE LASSO

Cable Lasso is an Australian designed solution for retrieving wires in wall cavities. It achieves this by creating a trap for the string line to enter and be captured by the cable lasso. Using the cable lasso gives the installer a larger capture zone in the wall cavity. It is common that cablers tend to prefer to use two workers, one for dropping a string line down the cavity and another to grab the string wire. But only one cabler is required with the cable lasso. Saves labour and time. The Cable lasso works with double brick, brick veneer and internal plasterboard walls.

- Cuts labour in half. Only one installer required
- Highest success rate of any tool on the market
- Can be used on all wall cavities that have a vertical pathway for a string line
- Can be used for vertical and horizontal switches and power points
- Can go around vertical wall joists inside wall
- Designed to screw directly to the standard clip on wall bracket
- No need to disconnect wires from existing power points and switches
- Gives the installer a larger capture area (approx 300mm wide or more).
- Eliminates the need for external conduit and ducting
- Very fast operation from start to finish

Code  
CAB-LAS





# Tools and Test Equipment

## □ Cable Puller

### PUSH-PULL RODS [CMS]

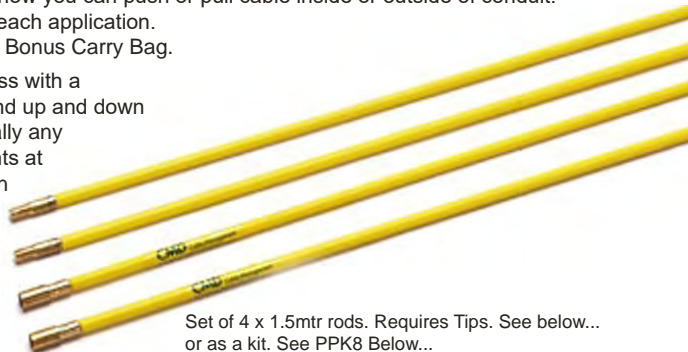
#### PREMIUM PROFESSIONAL GRADE - FOUR 1500MM RODS

- \* Fibreglass rods with thick polypropylene coating attach together by screw thread. Dismantle for easy storage & transportation.
- \* Ideal for running multi-purpose cable behind walls, up through crawl spaces and under floors Perfect for every hard to reach place.
- \* Non metal/non-conductive bright yellow polypropylene coated rods protect delicate wires and to protect user from lethal wires.
- \* Faster and easier than old fashioned electrical fish for running cable, now you can push or pull cable inside or outside of conduit.
- \* Easily connected rods offer controlled flexibility of length required for each application.
- \* Supplied WITHOUT TIPS (Sold Separately) or Purchase as a Kit with Bonus Carry Bag.

These 6mm diameter flexible rods are made of non conductive fibreglass with a polypropylene coating, and are flexible enough to go around corners and up and down walls through small openings, yet are strong enough to withstand virtually any test you may put them to. Each length is fitted with threaded attachments at each end. Connect as few or as many rods together as needed to attain whatever length necessary. CMS Push Pull Rods are sold as a set of 4 x 1.5mtr rods These rods replace the old fashioned electrical fish formerly used for running and retrieving cable. Push Pull Rods are equally useful to push or pull cable inside or outside conduit. Requires hooks listed below...

#### Set of 4 Push-Pull Rods

Code  
PPP6A



Set of 4 x 1.5mtr rods. Requires Tips. See below...  
or as a kit. See PPK8 Below...

#### FOUR RODS AND FOUR TIPS KIT

Includes set of 4 x Push Pull Rods,  
1 x Grabit Hook, 1 x Standard hook  
1 x Magnet Locator (Rare Earth),  
1 x Pulling Eye, and 1 x Convenient Carry Bag.

Code  
PPK8



**PPK8 KIT**  
**ROD + 4 TIPS & BAG**  
Parts Available Separately.

### PUSH-PULL RODS [CMS] ACCESSORIES

#### PPG6 GRABIT HOOK

The Grabit hook is self-directional with a floating head which seeks out the target wires and pulls them together for easy retrieval. The serrated hook face pursues, grabs and holds inaccessible loose wires.

Code  
PPG6

#### PPM6 MAGNET LOCATOR

Very powerful magnet locator, so strong it even picks up tools!

Code  
PPM6

#### PPE6 PULLING EYE

Code  
PPE6

#### PPH6 STANDARD HOOK

Code  
PPH6

#### PPB6 BULLET TIP

Code  
PPB6

#### PPF6 PULLING EYE

with 75mm Flexible Extension

Code  
PPF6

#### PPA6 HOOK WIRE

The 'Hook Wire' seeks out the target wires and pulls them together for easy retrieval. The serrated hook face & curved nose pursues, grabs and holds inaccessible loose wires.

Code  
PPA6

#### PPU6 UNIVERSAL TIP

This product is to be used when pulling cables (such as fibre) that you would like to spin or rotate in conduit or ceilings. Rotates 360° so wires can spin while being pulled.

Code  
PPU6

#### PPFM MAGNET WITH 75MM FLEXIBLE EXTENSION

Code  
PPFM

#### PPC6 CARRY BAG

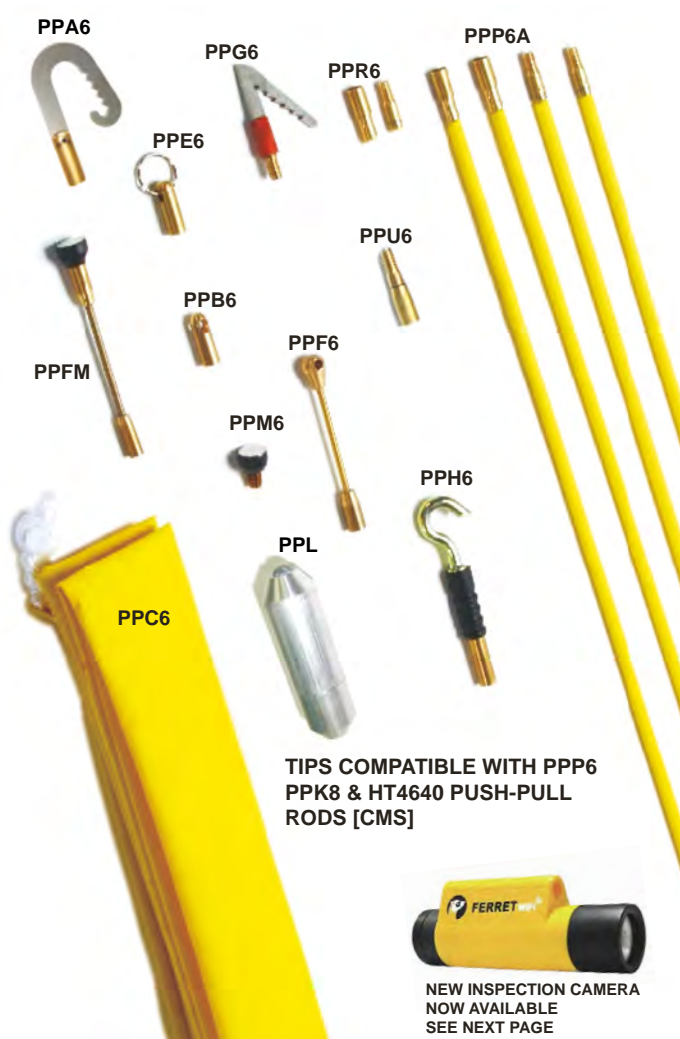
Strong yellow nylon.

Code  
PPC6

#### PPR6 REPLACEMENT TIP KIT

Spare parts for repairing broken end tips to the fibre-glass rods. Includes 1x male 1x female + glue

Code  
PPR6



**TIPS COMPATIBLE WITH PPP6  
PPK8 & HT4640 PUSH-PULL  
RODS [CMS]**



**NEW INSPECTION CAMERA  
NOW AVAILABLE  
SEE NEXT PAGE**





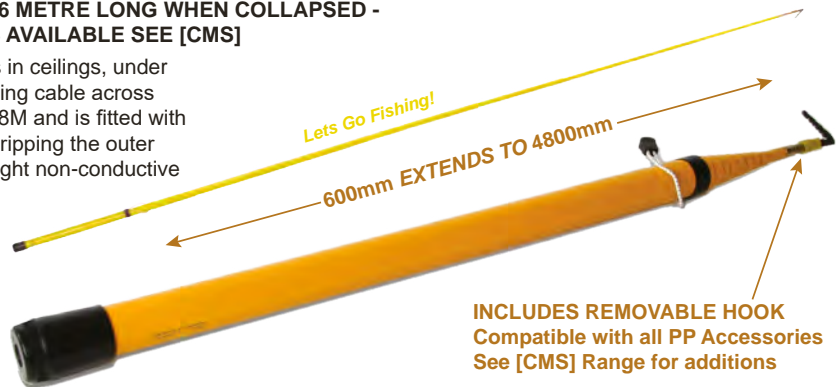
## □ Cable Puller [CMS] Series - *Continued...*

### TELESCOPING PULLING POLE [CMS]

**4.8 METRES FULLY EXTENDED BUT ONLY 0.6 METRE LONG WHEN COLLAPSED - INCLUDES 1X HOOK - MORE ATTACHMENTS AVAILABLE SEE [CMS]**

For use in long spans and in hard to reach areas in ceilings, under floors and crawl spaces. Ideal for use when running cable across suspended ceilings. Extends from 0.6M out to 4.8M and is fitted with a unique flexible hook end which is suitable for gripping the outer cable sheath securely. Constructed from lightweight non-conductive fibreglass material. Overall weight is just 2Kgs!

Length	Code
4.8 Metres	HT-4640



**INCLUDES REMOVABLE HOOK**  
Compatible with all PP Accessories  
See [CMS] Range for additions

### FERRET PRO® INSPECTION CAMERA KIT

The Ferret Pro, designed and engineered by Ferret Tools, is a professional and durable next generation inspection tool designed and engineered with award winning features to provide easier, faster & safer visual inspections. Includes App controlled variable focus lens and super fast charge. If you need to locate and pull in cable or need to get your eyes on something out of reach, then Ferret Pro is the perfect tool. Ideal tool for electricians and other trades.

- Built in WiFi hotspot, wireless and rechargeable
- Provides a high resolution live stream with a wireless range up to 15m
- IP67 dust-proof & waterproof
- Easy to use, intuitive Free Ferret App allows

Code
CABCFWF50B



Kit includes: Padded EVA case, Ferret Pro camera, flexible gooseneck, short rod, strong hook and magnet, right angle adaptor, thread adaptors, USB-C charge cable, spare O rings & instruction manual. Phone not included.

## □ Cable Puller

### 10M CABLE PULLER KIT

#### TEN 1M FIBREGLASS RODS + AGLET/HOOK/RING KIT

Easily connected rods offer controlled flexibility of length required for each application.

Length	Code
10 Metres	PPK13



Note: Accessories and extra Rods are not sold separately. This kit is not compatible with other push/pull kits.

### FISH TAPE REEL 15M

#### 15M FIBREGLASS

Professional grade tool non-scratch Fibreglass cord 280Kg load, 330Kg break. Windup reel saves tangle Non-conductive safety 5.2mmØ Oblong shape easy control smooth coat "Rattle-Snake" leader metal spring aglet. Fluorescent coloured. for easy viewing OPT Taiwan

Case	Length	Code
300mmØ	15 Metres	FTP15



### FISH TAPE 30M

#### SINGLE FIBREGLASS

Large reel professional. 2/3rd tube storage. Non-conductive safety. Single 5.6mm diameter. Smooth movement cable. High 250Kg capacity. "Rattle-Snake" leader.

Length	Code
30 Metres	FTP30

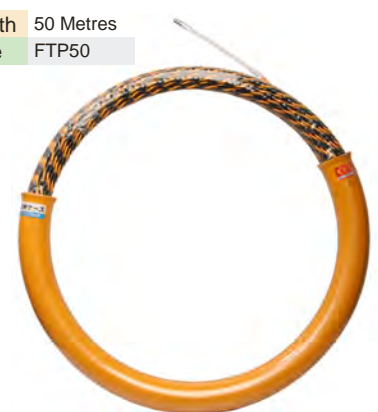


### FISH TAPE 50M

#### TRIPLE FIBREGLASS

Large reel professional. 2/3rd tube storage 660mmØ Non-conductive safety High visibility orange and black contrasted. Three composite cables forms one super strength 7mm diameter cord with High 500Kg capacity. "Rattle-Snake" leader, metal aglets OPT Taiwan quality.

Length	Code
50 Metres	FTP50







# Tools and Test Equipment

## StorageTek - Carry Cases

### STORAGETEK - PREMIUM ABS CASES

StorageTek ABS Cases, Frames & Cabinets are professional storage and transportation system suitable for installation in vehicles or workshops. Designed specifically for Electricians, Plumbers, Data Cable installers, Mechanics, and many others in business, the office, workshop or at home.



StorageTek ABS Cases offer features and benefits over the competition and are also compatible with Rolacase® and other leading brands. StorageTek cases fit into other popular cabinets and frames and theirs can fit into StorageTek cabinets and frames for universal compatibility.

**Too Many Products To List here!**  
**StorageTek Catalogue is Online**  
**Search our website for StorageTek**



**Please Note: A lead-time of 1 to 4 days is required. Pre-order to pick up from our Sydney Showroom. Due to size, delivery may incur additional costs.**

**4 Day Lead Time is Required - Please pre-order.**  
**Due to size, delivery may incur additional costs.**

## Rock-N-Roller Carts

### RocknRoller® MULTI-CARTS UNIVERSAL TROLLEYS

**ROCKNROLLER® MULTI-CARTS ARE THE WORLD'S MOST INNOVATIVE TRANSFORMABLE UTILITY CARTS**

Rock-N-Roller® Multi-Cart® is the leading innovator and manufacturer of uniquely transformable utility carts. Each Multi-Cart model transforms into 8 different configurations, replacing the need for multiple carts for different uses. Multi-Carts® are designed for efficiency and reduce time and effort moving gear or equipment by 50% or more. Rock-N-Roller® Multi-Carts® are used by musicians, major TV networks, news crews, sports teams, Fortune 500 companies, material handlers, tradesmen and more.

- Instantly transform into 8 different shapes replacing 8 different cart types
- Huge load capacity but folds small for storage
- Featured in college engineering textbooks for outstanding design
- Lightweight, rugged and ergonomically efficient
- Designed to work with vehicles, planes & trains
- Winner of Accessory Of The Year Awards
- Reduces time and effort moving equipment by 50%
- Designed for professionals where speed and efficiency are crucial
- Numerous accessories available, Shelves, Bags, and spare parts
- Award-winning patented design
- Lightweight with rugged steel frame
- No removable pins to lose
- Caster brakes assist loading on inclines
- Tough, eco-friendly textured powdercoat finish
- Non-skid frame bed surface resists load slippage
- Expandable frame adjusts to load size and shape
- Foldable sides rotate & lock into place via release cables
- R-Trac wheels feature pneumatic-like ride, light weight, low rolling resistance and no air loss (and available as a spare part)
- Stairclimbers ease loads over stairs and curbs

•See online for our range...



**ROCKNROLLER®**



**MULTI-CART®**





## Storage Bins Parts

### STORAGETEK STORAGE BIN - TYPE 1

Produced in tough and durable Polypropylene. Angled front provides easy picking access. Stackable and Nestable. Replaceable name plate holder. Various colour options available.

Dimensions	Colour	Code
90x112x51mm	Blue	SB1-BL
90x112x51mm	Red	SB1-RD
90x112x51mm	Yellow	SB1-YL



Stackable



Nested



### STORAGETEK STORAGE BIN - TYPE 2

Produced in tough and durable Polypropylene. Angled front provides easy picking access. Stackable and Nestable. Replaceable name plate holder. Various colour options available.

Dimensions	Colour	Code
105x162x76mm	Blue	SB2-BL
105x162x76mm	Red	SB2-RD
105x162x76mm	Yellow	SB2-YL



### STORAGETEK STORAGE BIN - TYPE 3

Produced in tough and durable Polypropylene. Angled front provides easy picking access. Stackable and Nestable. Replaceable name plate holder. Various colour options available.

Dimensions	Colour	Code
138x116x125mm	Blue	SB3-BL
138x116x125mm	Red	SB3-RD
138x116x125mm	Yellow	SB3-YL



### STORAGETEK STORAGE BIN - TYPE 4

Produced in tough and durable Polypropylene. Angled front provides easy picking access. Stackable and Nestable. Replaceable name plate holder. Various colour options available.

Dimensions	Colour	Code
205x176x168mm	Blue	SB4-BL
205x176x168mm	Red	SB4-RD
205x176x168mm	Yellow	SB4-YL



#### COMPARTMENT DIVIDER FOR TYPE 4

Colour	Blue
Size	255x155mm
Suits	Type 4 & 6
Code	SRTB46D



Sold separate



Label Window



Wall Hanger

### STORAGETEK STORAGE BIN - TYPE 5

Produced in tough and durable Polypropylene. Angled front provides easy picking access. Stackable and Nestable. Replaceable name plate holder. Various colour options available.

Dimensions	Colour	Code
205x330x168mm	Blue	SB5-BL
205x330x168mm	Red	SB5-RD
205x330x168mm	Yellow	SB5-YL

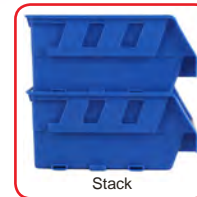


#### COMPATIBLE DIVIDER FOR TYPE 5

Colour	Blue
Size	310x155mm
Suits	Type 5
Code	SRTB5D



Sold Separate



Stack



Nested

### STORAGETEK STORAGE BIN - TYPE 6

Produced in tough and durable Polypropylene. Angled front provides easy picking access. Stackable and Nestable. Replaceable name plate holder. Various colour options available.

Dimensions	Colour	Code
410x276x168mm	Blue	SB6-BL
410x276x168mm	Red	SB6-RD
410x276x168mm	Yellow	SB6-YL



#### COMPATIBLE DIVIDER FOR TYPE 6

Colour	Blue
Size	255x155mm
Suits	Type 4 & 6
Code	STB46D



### STORAGETEK LOUVERED PANEL

Countersunk holes at 3 row intervals. Ensures greater security and non flexing of panel. Increases load capacity.

Dimensions	Code
457x457x13.2mm	SLPSS
457x914x13.2mm	SLPSM
457x1829x13.2mm	SLPSL
914x457x13.2mm	SLPWS
914x914x13.2mm	SLPWM
914x1829x13.2mm	SLPWL



SLPSS  
Bins not included







# Tools and Test Equipment

## □ Tackle Boxes

### TACKLE BOX COMPONENT TRAY #7

#### 7 COMPARTMENTS

175x145x35mm  
Plastic tray storage  
bin for holding  
small items.

Code  
PSC1003



### TACKLE BOX COMPONENT TRAY #17

#### 17 COMPARTMENTS

275x180x40mm  
Plastic tray storage  
bin for holding  
small items.

Code  
PSC1005



### TACKLE BOX COMPONENT TRAY #32

#### 32 COMPARTMENTS

290x220x75mm  
Double sided.  
With removable walls.  
2 Lids. Carry handle.

Code  
PSC1006



### 950 SCREW KIT

#### 950 SCREWS IN A CASE

Tackle box with popular self drilling  
wood & metal self-tap screws.  
Bugle, Button, Pan and Washer  
Head type screws. 950 pieces.

Code  
SCR950



### RUGGED CARRY CASE IPX7 WATER RESISTANT

#### POLYPROPYLENE HEAVY-DUTY O-RING SEALED

Keep your valuable equipment safe from water, dust and knocks!  
Easy-cutting customisable foams inside. You can cut out the shape  
that suits your equipment and protects it from any unexpected drops or  
bumps. Pressure relief valve allows for gradual pressure equalization.

- Water resistant IPX7 sealed case
- Made from tough polypropylene
- Impact resistant & Crushproof
- Dust proof & corrosion resistance
- Temperature Rating -20° to 80°
- Powerclaw™ latching system\*
- Soft grip foldable handle\*
- 100% Stainless steel hardware
- High performance seal gasket
- Adjustable pressure release valve

Size	Size Inside	Colour	Code
211x167x90mm	180x120x60mm	Black	PPC-07BK
211x167x90mm	180x120x60mm	Yellow	PPC-07YL
246x175x77mm	235x145x62mm	Black	PPC-08BK
246x175x77mm	235x145x62mm	Yellow	PPC-08YL
420x327x172mm	382x269x158mm	Black	PPC-13BK
420x327x172mm	382x269x158mm	Yellow	PPC-13YL
430x380x154mm	395x320x117mm	Black	PPC-16BK
430x380x154mm	395x320x117mm	Yellow	PPC-16YL
515x415x158mm	485x355x145mm	Black	PPC-21BK
520x425x160mm	485x355x140mm	Yellow	PPC-21YL
560x355x290mm	510x290x240mm	Black	PPTC-26BK
560x355x290mm	510x290x240mm	Yellow	PPTC-26YL
625x420x340mm	581x360x298mm	Black	PPTC-28BK
625x420x340mm	581x360x298mm	Yellow	PPTC-28YL

Size is external

### TOOL BOX

#### 19" WITH TRAY

480x230x210mm Plastic.  
lockable. Internal tray

Code  
TC1007



Tools Not Included.

### ATTACHE TOOL CASE

Tough aluminium case. Professional type  
like photographers, etc.  
Black with silver knock panels & edges.  
Removable dividers. Adjustable dividers.  
Suits meters, etc. Removable lid pouch  
that suits hand tools.  
458 x 350 x 140mm

Code  
AT458



### 24 COMPARTMENTS ORGANISER STEEL CABINET

#### WITH 24 PLASTIC COMPARTMENTS

The 24 drawers cabinet is suitable for  
sorting small parts and other items.  
It can be hung on a wall or stand on  
a desktop. Made with tough steel  
structure anodised painted. Includes  
30x labels and 25x removable  
dividers to fit inside the drawers.

- Keep items organised and easy to find.
- Cabinet dimensions: 648x445x222mm
- Drawer dimensions: 114x60x210mm

Code  
A7-324



See our website for further details.





## Measurement

### TAPE MEASURES

#### LOCKING METAL TAPE

Drop resistant design Belt clip & Hand strap Dampened retraction Left/Right handed Hold buttons and a Locking button

Length	Code
3M	HT6940
5M	HT6941
8M	HT6942



#### STAINLESS STEEL RULER

Premium stainless steel Markings in Imperial & Metric on the flip-side

##### 150mm STAINLESS

Code  
HT6990

##### 300mm STAINLESS

Code  
HT6991



### MULTI-SQUARE & LEVEL

#### 8" ADJUSTABLE ANGLE

180mm stainless steel rule  
Rule is Metric & Imperial  
Adjustable protractor angle  
head with wing-nut locking and  
three spirit levels 0°/45°/90°

Code  
MO10



### COMBINATION SQUARE & LEVEL

#### 12" ALL METAL WITH 45°

300mm metal rule with slide Accurate 45° and 90°  
angles Spirit level built-in Suit metal & wood work  
Excellent mitre joints, etc. Adjustable slide with lock  
All metal quality made for long life and accuracy  
Professional tool Rule is Metric & Imperial.

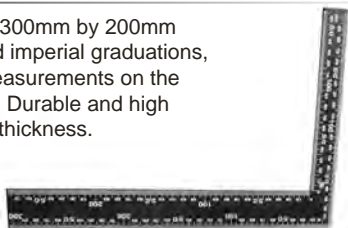
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MO12



### 300x200MM STEEL SQUARE

This steel square measures 300mm by 200mm  
and includes both metric and imperial graduations,  
making it easy to convert measurements on the  
go. Heavy duty coated steel. Durable and high  
visibility printing. 2.15mm in thickness.

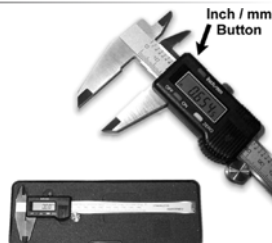
Code  
SQ3020



### ELECTRONIC CALIPERS

Precision electronic Measurement  
instrument 0.01mm to 75.00mm  
or 155.00mm LED Display shows  
metric or imperial Thumb guide  
adjust Tension adjuster Internal /  
External and Step-Depth.

Length	Code
75mm	CLP109
155mm	CLP111



### LASER DISTANCE MEASUREMENT METER

This smart laser distance measurement meter is  
distance, calculate area, volume, change units,  
perform Pythagorean Theorem calculations,  
and add or subtract measurements. Support  
measuring range 0.1 to 40 metres and stores the  
maximum of 20 measurements. 120x55x26mm.  
2x AAA batteries and carry case included.

Code  
GSM-340



### BULLS EYE SURFACE LEVEL

#### FLAT SPIRIT LEVEL

Temporary or permanent Shows level in  
2x planes Base diameter is 45mm

Code  
HT6451



#### ORTOFON SPIRIT LEVEL

Deluxe Turntable Type Base diameter  
is 40mm. As used on plinths, etc.

Code  
PCT230



### LEVEL MEASURING TOOL

Key ring leveller is a great solution for level problems.  
Very handy, Small size, Unbreakable material and Light  
weight. Multipurpose more useful due to small size.  
Size: 40x15x15mm

Code  
TL-KC01



### TRIPLE SPIRIT LEVEL 9"

#### WITH MAGNETIC STRIP ON ONE SIDE

Made with tough ABS plastic. Bottom edge  
has a magnetic strip for holding to iron/steel  
surfaces and saves you the trouble of  
having to be held by hand. It has 3 high  
visible vials for level, plumb and 45°.

Code  
HT90216



### TRIPLE SPIRIT LEVEL 12"

#### ALUMINIUM 300MM

Made of tough Aluminium  
Unbreakable spirit levels Painted  
industrial yellow Bottom edge  
polished flat Three spirit levels  
for Level, plumb and 45°  
Quality build tool

Code  
HT90210



### POWERPOINT TEMPLATE STANDARD

#### STANDARD SERIES PLATE

50x90mm

Code  
PPM643



#### SLIMLINE SERIES PLATE

55x80mm

Code  
PPM460



### LASER DISTANCE MEASURING TOOL

The laser distance measuring tool is used for  
measuring any distance from the unit. It can take  
continuous measurement, add and subtract new  
measurements. It can also be set to calculate area and  
volume. Simple to operate. Available in 50M and 100M  
models. 2x AAA batteries and carry case included.

Distance	Code
Up to 50M	CT8130-50
Up to 100M	CT8130-100





# Tools and Test Equipment

## □ Lighting & Torches

### LED MAGNIFYING DESK/FLOOR LAMP ADJUSTABLE BRIGHTNESS & COLOUR

#### ADJUSTABLE POLE & GOOSENECK STAND

This LED magnifying lamp is used to see small details whether it is for reading, sewing, crafting, or working with small electronic devices, etc. LED fixture that stays cool, even for long hours of use. Adjustable colour temperature and brightness make this lamp suitable for a wide range of applications customised to suit the operator with touch buttons on the lamp head, including on/off. Adjustable gooseneck can be mounted directly to the included solid metal base on a desk or the metal clamp. You can also use the included extendable pole to mount the magnifier to the solid metal base on the floor.

- 3x Diopter Magnifying (175% or 1.75x)
- Glass Scratch-resistant Lens 145x10mm
- 60x LED illuminated for 10W 600lm brightness
- Capacitance-touch controls on the head unit
- Power I/O and Adjustable colour temperature
- Change brightness of cool, Change brightness of warm
- 50mm Metal gooseneck adjustable neck
- Includes weighted desk stand and desk clamp
- Height extension pole adjustable from 55 to 85mm

Code  
IMG6029



### LED SPOTLIGHT CORDLESS GOOSENECK - PRO

#### MAGNETIC BASE OR DESK CLAMP - BATTERY OPERATED

Goose Neck to Focus bright, clear light exactly where it's needed, and being battery operated, anywhere it's needed! With a powerful magnetic base, a clamping metal sub-base and a flexible Gooseneck, this 14 LED-bulb lamp anchors down on power tools, workbenches and more, then bends and flexes its way into perfect position while staying out of your way. Great for delicate cuts, precise drilling, under the bonnet, in the field or whenever you need to brighten up your view. Requires 3x AAA batteries.

- **THREE INTERCHANGEABLE LAMPS:** Three lamp options are fully interchangeable with each other.
- **1/ LED LAMP:** Included in the kit is a 35mm diameter Spotlight Head with 14 LEDs for excellent work space illumination.
- **2/ FOCUS BEAM:** A super high brightness single LED bulb with adjustable lens for focusing the light beam to precision viewing.
- **3/ MAGNIFIER LAMP:** Magnifying lens 110mm coated glass surrounded with 18 LEDs. Five times (5x) magnification.
- **DESK CLAMP:** Bracket is great for adding light to operations on wooden tables, drill presses, and benchtops, magnet base clips to this bracket.
- **BATTERY OR MAINS:** Includes power pack for 240Vac mains operation. Includes 3x AAA batteries for portable solution, use of LEDs provide excellent battery life.

Code  
IMG6429

- Light Modes;
- High beam white
- Low beam white
- Continuous red
- Flashing red





## □ Magnifiers

### MAGNIFYING LAMP DIMMABLE & COLOUR

#### 3X MAGNIFIER LENS ILLUMINATED WITH TOUCH CONTROL

This 3x magnification lamp with protective cover has a large clear glass lens which brings hard-to-see small fine details back into sharp and clear focus. The head can be rotated and angle adjusted with the spring counter weighted articulated 2x 400mm arms that hold into position hands-free. Adjustable colour temperature and brightness make this lamp suitable for a larger range of applications customised to best suit the operator in quick convenience with touch buttons on the lamp head, including on/off. LEDs offer the advantage of the longest life with constant brightness and no heat! A quality product intended for long service. 9W 510lm.

#### IMG6021 FEATURES

- Professional laboratory grade magnifier 5" (127mm) glass lens with 3 diopter magnification.
- Heavy duty hidden springs in the arm allows for easy manoeuvring
- The magnifier lens is surrounded by 60 LEDs for 9W 510lm.
- Capacitance touch panel on the head for lamp control and power.
- Adjustable LED colour temp' (3500K-6500K) Warm to Cool white.
- Adjustable luminosity with LED brightness control.
- Change the light to suit the environment and item being viewed.
- Supplied with a heavy duty clamp to be attached to a desk.
- Optional desk stand and trolley stand is available.
- 20V 600mA mains power supply is included.

Code  
IMG6021



### BASES TO SUIT IMG6021

#### OPTIONAL TROLLEY STAND

Four caster-wheel trolley stand 600mm tall. Base only. Suitable for the 6021 Series LED magnifying lamp.

Code  
IMG04

#### OPTIONAL DESKTOP BASE

Weighted base for a non-scratch desk-top. Base only. Suitable for the 6021 Series LED magnifying lamp.

Code  
IMG01



### MAGNIFYING LAMP PRO DESK-CLAMP

#### 5 DIOPTER 150MM LENS

Professional laboratory grade magnifier and lamp assembly. Work bench edge clamp base. Excellent construction and superior adjustability unit with 3 articulation joints. Heavy duty, hidden springs, easy to manoeuvre assistance. Glass lens surrounded by 52 bright LED light for 10W 780lm illumination and vision. Includes clamp base.

Arm 400mm x2  
Code IMG6016LED-16



### MAGNIFYING LAMP DESKTOP LED IMG2012

#### 90MM LENS 5X

Compact desk-top lamp with magnification as used for meticulous detailed work 90mm magnifying lens with a 5 diopter scratch resistant lens surrounded by 32x Super bright LEDs for 6W 480lm illumination. Adjustable angle mast 400mm max Ball-In-Socket head joint. 240Vac. Weighted base.

Code  
IMG2012B-LED







# Tools and Test Equipment

## □ Magnifiers

### 50mm ILLUMINATED MAGNIFIER

Lens is NOT Acrylic but proper coated glass! Illuminated. Ideal for component identification, etc. Requires 2 x 'AA' batteries. Glass Lens 3.5X

Code  
IMG50



#### REPLACEMENT GLOBE

Code  
653-3SB

### 75mm ILLUMINATED MAGNIFIER

Large, easy grip handle. Easy to clean, scratch resistant glass lens. Suitable for reading and component ID, etc. Illuminated. 2 x 'AA' Req'

Code  
IMG75



#### REPLACEMENT GLOBE

Code  
653-3SB

### 110mm HANDS-FREE MAGNIFIER

Hangs around your neck so your hands are free to work. Ideal for intricate work, reading, etc. Quality Construction, large coated glass lens. Easy to clean, Scratch resistant. Clip-on illuminator included for optional assisted viewing. Requires 2 x AA' batteries.

Code  
IMG110



### HANDS-FREE HEADSET MAGNIFIER

Cushioned headband Reduce eye strain Worn with/without your eye-glasses. Light weight, comfortable. 2.0x Medium Magnification lenses included. Interchangeable lens. Flips up out of the way. Acrylic no-scratch lens. Made USA www.mageyes.com

Code  
IMG384



### MAG-EYES LENS ONLY

Upgrade your magnification. Original USA made MagEyes. Optical quality acrylic. Suit IMG384 MagEyes.

#### 2.25x MEDIUM STRONG MAG'

Code  
IMG255

#### 2.75 STRONGEST MAG'

Code  
IMG257

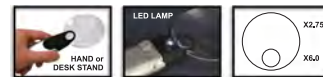


### HANDHELD MAGNIFIER

#### WITH LED LIGHT

Expanding handle for desk top free-standing folding adjustable

Length 200mm  
Lens 90mm  
Mag. Main 2.75x  
Small 6.00x  
Code IMG8090



### MAGNIFIER WITH LED AND DESK STAND

#### WITH LED LIGHT

Metal goose-neck adjustable with stable weighted stand Built-in LED lighting.

Neck 150mm  
Lens 110mm  
Mag. Main 2.0x  
Mini 4.0x  
Code IMG4110-DT



### CLAMP MOUNT MAGNIFIER WITH LED

#### WITH LED LIGHT

Metal goose-neck adjustable with desk clamp 40mm max. Built-in LED lighting.

Neck 150mm  
Length 110mm  
Mag. Main 2.0x  
Mini 4.0x  
Code IMG4110-CL



### HELPING HANDS 65MM

Hold tiny objects and magnify them for precision work. 6 Ball Joints for all angles. 65mm 2x Magnifying glass. Heavy cast-iron base. Alligator spring clips. Locks to any angle.

Code  
HTA65



### HELPING HANDS 90MM

Sturdy Heavy-Duty design Assists with holding objects and magnifies for precision work Fully adjustable angles Heavy cast-iron base with sponge or parts holder tray 90mm 2x Magnifying 2x Alligator clips

Code  
HTA90



### HELPING HANDS 90MM WITH SOLDERING STAND

This helping hand holder has two alligator clips and a 90mmØ magnifier with LED lighting to help you get a better view while working on small parts. It also includes a heavy cast metal base, soldering iron stand, and cleaning sponge. The LED light requires 3x AAA batteries to operate

Code  
IMG90





## □ Head Lamp Mining Torches

### HEAD TORCH 10W - RECHARGEABLE CREE LED

#### WITH 240V AC LI-ION BATTERY CHARGING

- Featuring the bright and long life CREE XML-T6 LED
- Producing up to 600 Lumens of cool white light
- Can be tilted by 100°. IP66. Beam range up to 300M.
- Elastic straps are adjustable to fit different users, helmets, etc.
- 3 operation modes including full or half brightness, plus strobe.
- Super High Lumen Output with a beam range up to 300 Metres.
- Included 2x rechargeable Li-Ion batteries 18650 (3200mAh 3.7V).

Lumens	Colour	Beam length	Code
600Lm	Cool White	200M-300M	LED471



### LED HEAD LAMP - TOMCAT

1W super bright LED Up to 80 lumens. Adjustable elastic strap for comfortable fitting. Tilttable up to 45°. 4 lighting modes including High beam, low beam, red and strobe. Head strap. Dimensions: 60x45x35mm. Includes 3x AAA batteries.

Code  
XT050



### LED HEAD LAMP - TECHLIGHT

This multi-function head torch with adjustable head band includes a 3 watt white LED and 2 high brightness red LEDs. The ratchet in the headband tilts the light to where you need it. Use the power button to toggle between four light modes.

- Up to 80 Lumens output
- 3x AAA batteries
- Batteries not included
- 60x45x35mm

Code  
SNHDS



## □ Mirror

### DENTIST MIRROR

"Say Ahh!"  
Excellent assistant for inspecting components, etc. in hard-to-reach places. Plastic.  
20mm mirror.  
150mm handle.  
135° angled.

Code  
HT922

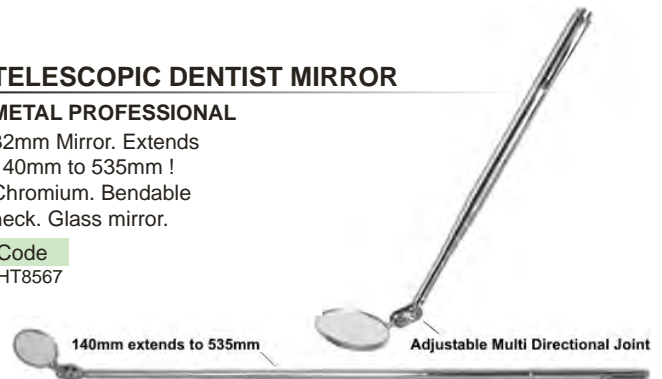


### TELESCOPIC DENTIST MIRROR

#### METAL PROFESSIONAL

32mm Mirror. Extends 140mm to 535mm !  
Chromium. Bendable neck. Glass mirror.

Code  
HT8567

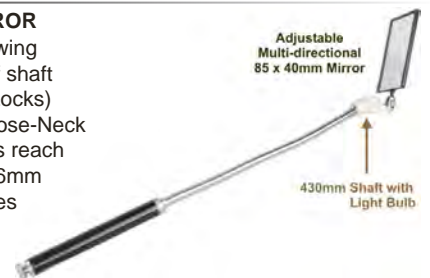


### INSPECTION MIRROR ILLUMINATED

#### LARGE 40x80mm MIRROR

Larger tool for better viewing  
Includes Lamp on end of shaft  
Any angle neck adjust (Locks)  
Bendable Aluminium Goose-Neck  
Full 430mm long extends reach  
Silver/Glass mirror 41x86mm  
Requires "AA" x2 batteries

Code  
HT8575



### FLEXIBLE GOOSE-NECK LED LIGHT

#### WITH MAGNETIC BASE & TIP

This handy LED features super bright, energy saving LED and a 400mm flexible stay-put shaft with magnets at the tip and base of the light. The magnetic base is suitable for mounting on metal surfaces

Code  
HT8898



## □ Automotive

### 12V WORK LIGHT FLURO

#### 12V FLURO TUBE 13W

Bright fluorescent double folded lamp with hook for under bonnet, camp sites, etc. 12Vdc. 1A. Includes 3.0M cable to accessories 12V plug. 370mm Long.

Code  
TT1104



### 3W LED WORK LAMP - CAMELION

#### BATTERY LED SUPER BRIGHT

The 3W Camelion LED energy saving work lamps can provide powerful lighting at 200lm. It has a strong magnet Button and 360 foldable Swivel Hook which allows for hands free work in many places, its rugged ABS casing design is not only durable but also comfortable to use. 3x AA batteries are included.

Code  
CAT5240N



### RECHARGEABLE WORK LIGHT

#### MAGNETIC BASE WITH BALL ANGLE

5W rechargeable COB LED work light, 300 lumens. Rechargeable 18650 type 1800mAh Li-ion battery, requires USB charger (Not included). Bright white, red and flashing red. Brightness is adjustable. Includes a hanger hook and a magnetic base. 375x38mmØ 300lm

Code  
RS60N





# Tools and Test Equipment

## Hot Glue Gun & Glues

### HOT GLUE GUN 30W

This simple to use mini glue gun is suitable for use with toys, models, decorations, furniture, woodwork, cardboard, etc. Simply plug the power cable to the 240Vac mains and then use the trigger to control glue feed. Requires 7mm diameter glue sticks. 2 supplied.

Code  
MGG10



### HOT GLUE GUN 60W

This fantastic hot melt glue gun is ideal for a wide variety of bonding jobs including the following: toys, models, furniture, wood, metal, electronic kits, PCB components, seals and much more. Easy to operate, simply put the glue stick into the gun, switch on and let it heat up for 5-8 minutes. 60W power. Suits glue sticks with diameter: 10.8mm - 12mmØ.

Code  
GG60W



### HOT GLUE GUN - CORDLESS

#### USES 7MM GLUE STICKS

Cordless, requires 4x AA batteries. LED light. Uses 7mmØ glue sticks (3 included).

Code  
GK-368



### GLUE STICKS 7mm

#### 10cm x 7mm GLUE STICKS

Pack of	Dimensions	Code
6	100x7mm	NGGS6
50	100x7mm	NGGS50



### GLUE STICKS 12mm

These glue sticks are 12mm in diameter. Suitable for standard glue guns.

Pack of	Dimensions	Code
6	100x12mmØ	GGGS10
10	300x12mmØ	GGGS103

## Blow Torches

### MICRO-JET POCKET FLAME

#### USES A COMMON LIGHTER

Piezo Electronic Ignition system with safety locking switch (MJ-300). Powered by a refillable A7L2 Gas Cartridge or readily available disposable lighters. Flame temperature up to 1300°C(2400°F) Windproof flame and waterproof ignition make the MICRO-JET™ ideal for camping and outdoor use. Compact size allows the unit to fit easily into any first aid/survival kit or tool kit. Cartridge Included. 25x65x110mm

Code  
MJ-300



Supplied empty (so can fly)

#### GAS CARTRIDGE

Looks like a common lighter but is actually a REFILLABLE cartridge Replacement (Included with MJ-330)

Code  
A7L2

### GAS FLAMELESS HEAT GUN

#### USES A COMMON LIGHTER

Designed to provide flameless heating, not a direct flame, for reducing heatshrink insulation without burning it. Once started, the tip generates instant heat regulated at the correct temp for reducing heatshrink tubing (650C). Powered by a refillable gas cartridge, and with trigger-actuated piezo starter, it makes heatshrinking a breeze! Includes a refillable gas cartridge suitable for 20 minutes operation.

Code  
MJ600



Supplied empty (so can fly)

#### GAS CARTRIDGE

Looks like a common lighter but is actually a REFILLABLE cartridge Replacement (Included with MJ600)

Code  
A7L2

### PRO-TORCH SERIES BUTANE TORCH

#### EASY REFILL WITH ANY BRAND OF BUTANE GAS

- Electronics, Chef or craft work, etc.
- State of the art waterproof Piezo Electronic ignition system.
- Up to 35 minutes use on each filling.
- Wind-resistant flame at up to 1300°C.
- Child-resistant ignition for safety.
- Compact size with ergonomic grip.
- Adjustable air flow control valve.
- 25ml Refill with any brand of butane gas.
- Patented adjustable flame length device.

Code  
PT-110



Supplied empty (so can fly)

### 200g BUTANE GAS REFILL

200g butane gas refill for gas soldering irons. Weller brand. Only available for in store pick up customers.

Code  
WBR200

PICK UP ONLY







## □ Soldering

### □ Soldering Irons - Hand Iron

#### 25 WATT SOLDERING IRON SCOPE

240 VAC with long life plated tips for electronic soldering at around 380°C Stainless steel barrel. Impact resistant handle.



Size	Code
25W	MH25

#### REPLACEMENT TIPS

Type	Code
TIPS	MH25ZF
TIPS	MH25SF
TIPS	MH25DF
TIPS	MH25DFB



#### 80 WATT SOLDERING IRON

##### DURABLE CONSTRUCTION

80W soldering iron with black plastic handle. Long life tip. Mica heater. 3 pin SAA power plug.

Watt	Code
80W	PRT180



#### SOLDERING IRON TIP

Description	Code
Conical	SIT181
Chisel	SIT182
45° Straight Hoof	SIT183
Conical Sharp	SIT184



#### 40 WATT SOLDERING IRON SCOPE

240 VAC with longer plated tips for sustained heating at around 380°C Stainless steel barrel. Impact resistant.



Size	Code
40W	MH40

#### REPLACEMENT TIPS

Type	Code
TIPS	MH40ZF
TIPS	MH40SF
TIPS	MH40DF
TIPS	MH40DFB



#### 80 WATT COOPER TOOLS SOLDERING IRON

High power for those temperature hungry jobs. Special Price! Includes two tips: Blunt conical (pen) & Flat wedge (Screw driver)

Size	Code
80W	SI-N80D



**Bonus Wedge Tip**

#### 25 / 30 / 40 WATT SOLDERING IRONS

##### DOUBLE-MOLDED COMFORT GRIP

Excellent economical solution for general purpose soldering. 240Vac. Cool grip handle. Stainless steel barrel. Select wattage heat:

Watt	Code
25W	PRT-125
30W	PRT-130
40W	PRT-140



#### REPLACEMENT TIPS

Type	Size	Code
Round	1.5mm	TIP-15
Sharp	0.5mm	TIP-05
Ellipse	3.0mm	TIP-30
Wedge	2.0mm	TIP-20



#### 150W SOLDERING IRON 12V DC - SUPERSCOPE

The heavy duty 12V 150W Superscope soldering iron features a 6M long lead and connect to two battery clips, which allows you to operate directly off a car or truck battery, making it ideal for automotive applications. The powerful soldering iron only takes 2-3 seconds to heat up. It includes 3 other spare tips to suit different applications.

Code
SI150





# Tools and Test Equipment

## □ Soldering Irons - Hand Iron

### 20 WATT SOLDERING IRON HAKKO

High quality Light Weight (40g) Suitable for all general applications Ideal Hobby Iron or spare in the tool box, etc.



Size Code  
20W HK500

#### REPLACEMENT TIP

Code  
500-BB3



### 60 WATT SOLDERING IRON HAKKO

Size Code  
60W HK503



#### REPLACEMENT TIP

Code  
503-BB6



### HAKKO FX600 HAND-HELD IRON - VARIABLE °C

**Super Fast Thermal Recovery!  
Professional Hand Held Soldering Iron**

Adjustable temperature range 200-500°C. Best suited for soldering of IC/LED and PWB. Includes T18-B standard Tip.

Code  
FX600

#### REPLACEMENT TIP

Replacement tips selectable from more than 30 types. See manual or website for further details. Original supplied is:

Code  
T18-B

#### HAKKO STAND & SPONGE

Hakko stand to suit.

Code  
ST633

Tips are available, see manual or please enquire.



It's for you  
**HAKKO**

## □ Soldering Irons - 12V & Battery

### HAKKO FX901 BATTERY SOLDERING IRON

Easy-to-carry battery-powered soldering iron powered by AA alkaline batteries. Cordless design makes this iron very handy to use virtually anywhere. Recommended for hobby handicrafts such as stationary models and radio-controlled models. Requires 4x AA batteries (not included).

Code  
FX-901

#### REPLACEMENT TIP

Suits FX901

Type	Code
Conical	T11-B
Wedge 4mm	T11-D4



### 12V / 35W SOLDERING IRON - ACCESSORIES PLUG

12 Volt DC soldering iron, 35 Watt with 4M cord to Accessories plug. Ideal for in-field work on the car or boat, etc.

Code  
SI35

#### REPLACEMENT TIP FOR SI35

Size Code  
4mm SIT35



### BATTERY SOLDERING IRON

#### RAPID HEAT-UP HIGHLY EFFICIENT TIP USES "AA" BATTERY

A lightweight and compact 8W battery powered soldering iron for use in areas where mains power is not conveniently available. Operates on 3 "AA" size alkaline batteries (not supplied). Size: 197x37x21mm. Two models are available with wedge tip or with Conical tip. Continuous run time of up to 1 hour with Alkaline batteries. Heats up only in 15 seconds. Cools down in only 30 seconds.

Type	Code
Conical Tip	SI8-CON



#### REPLACEMENT TIPS

Type	Code
Wedge Tip	SIT8WED
Conical Tip	SIT8CON



### SOLDERING IRON USB POWERED 8W

This fully functioning USB powered soldering iron is compact portable and heats up rapidly, with fast recovery. 5V 2A 480°C

- Rapid heat up time in less than 15 seconds, cool down 30 seconds
- Auto sleep mode to save power and prolong lifetime of heater
- Low power consumption 8W and high temperature range to 480°C
- Metal touch switch control provides fast heating response
- Power indicator to avoid accidental burns

Code  
SI-168U



#### USB POWER SUPPLY

5V 2.1A output.

Volts	Current	Code
5V	2.4A	BAC1003-WH



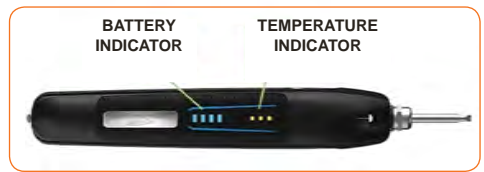


## RECHARGEABLE CORDLESS SOLDERING IRON - SOLDER MASTER

Solder Master ESM-50WL cordless soldering iron is powered by a rechargeable 14.4V 3.45Ah 50Wh Lithium Ion battery. It provides up to 160 minutes of run time on high mode or 270 minutes on low mode. And lasting up to one month with professional use. It has 3 user selectable temperature settings: Low (6W/380°C), Mid (9.5W/420°C), High (13W/500°C). It supports a boost function to increase tip heat for 20 secs when needed before dropping back to set temperature. And moreover, it takes just 10 seconds to get up to set temperature. Great for professional or handyman use. This professional kit includes ESM-50WL (50Wh) solder iron, 2 x Interchangeable 4mm tips, Silicon tip cover, Lead free solder pen (15g), 240VAC charger, 12VDC vehicle charger and Protective carry case. Designed and engineered in Australia. Dimensions: 235x38x52mm

- LED guide light
- Temperature control (LO / MID / HI)
- Mode button
- Battery level (SoC) indicator
- Interchangeable soldering tip
- Solder On/Off button
- Direct plug-in charge port
- Protective silicon tip cover

Code  
ESM-50WL



## CORDLESS SOLDERING IRON & MULTIFUNCTION HEATING TOOL

### 50 WATT WITH BUILT-IN RECHARGEABLE LITHIUM BATTERY USB CHARGING

This rechargeable, cordless, multi-function heating tool can be fitted with a variety of tips. The kit comes with 3 interchangeable tips. This includes a 30W long-life 4mm cone shaped soldering iron tip and a 50W high-temperature 6mm cone shaped soldering iron tip plus a radiant heat-shrink tip. To expand the extensive uses this tool has to offer, there are additional soldering tips, pyrography wood burning tips, hot knife, plastic cutter, and styrofoam cutter tips are available for purchase separately. This cordless tool is powered by a rechargeable Li-ion battery. It is convenient to recharge using a USB charger (not included). No more butane gas refilling. It can heat up to 316°C in only 10 seconds. It takes about 3.5 hours to fully recharge for ~45 minutes of continuous operation. Ideal for field technicians, auto electricians, or the handy mans toolbox. Quality made professional grade tool. Body is 28mmØ x 160mm + Tip.

Code  
SI50HSK



**RECHARGEABLE  
BATTERY**  
Requires USB  
Charger 2.1A



This kit includes a storage case, main heating tool body with two cone shaped soldering tips, a heat radiator tip with focusing sleeve for heat shrink and a Micro-USB charging cable (Charger not included). 200 pieces of 45mm long, Red, Blue, Yellow and Black heatshrinks. Assorted diameters of 2.2mm, 3.5mm, 4.5mm, 7mm.

### OPTIONAL TIPS FOR SI50HSK

Description	Code
Soldering tip 12W cone type	SIT501
Soldering tip 30W cone type	SIT503
Soldering tip 30W chisel type	SIT504
Soldering tip 30W fine point type	SIT505
Hot knife tip 30W	SIT507
Styrofoam cutter tip 20W	SIT509
Styrofoam sculpture tip 12W	SIT510
Wood burning tip 9W universal type	SIT515
Wood burning tip 9W cone type	SIT516
Soldering tip 30W sharp type	SIT519
Plastic cutter tip 12W	SIT520
Soldering tip 50W cone type	SIT524
Soldering tip 50W chisel type	SIT525
Radiator tip 30W for Heat shrink	SIT526



SOLDERING IRON TIPS



WOOD BURNING TIPS  
PYROGRAPHY



HEAT SHRINK TIP  
PLASTIC CUTTER



STYROFOAM CUTTER  
HOT KNIFE





# Tools and Test Equipment

## □ Soldering Irons - Gas

### WELLER WSTA-6 PYRO-PEN POCKET IRON

Don't be caught without an iron again!  
Truly compact, fits in your shirt pocket!  
Quality product that  
Solders & Hot-blows.  
Spare parts available.

**Code**  
WSTA6

#### TIPS TO SUIT

Description	Code
Taper 1mm	WPT01



### WELLER WPA-2 PYRO-PEN SOLDERING IRON

Runs up to 3Hrs on one fill of lighter fluid. Lightweight. Comfortable.  
Metal storage box. **Piezo Ignition.**  
Includes Soldering & Hot-Blow tips. Spare parts available.

**Code**  
WPA2

#### TIPS TO SUIT WPA2

Description	Code
Taper 1mm	WPT1
Chisel 2mm	WPT2
Spade 2mm	WPT3



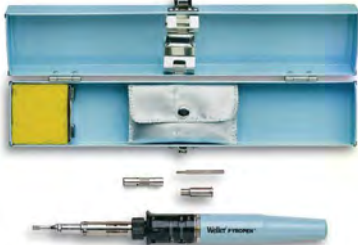
### WELLER WSTA-3 PYRO-PEN SOLDERING IRON

Professional service tool. This iron is identical to the WPA2 butane iron with solder & hot-blow but with a controllable **Flame-torch** instead of the piezo ignition.

**Code**  
WSTA3

#### TIPS TO SUIT WSTA3

Description	Code
Taper 1mm	WPT1
Chisel 2mm	WPT2
Spade 2mm	WPT3



### GAS SOLDERING IRON WP4 - WELLER

#### LARGE 530°C IRON WITH PIEZO IGNITION

Easy-to-handle, requires no power cord or batteries and is electrically completely neutral.  
With a gas container capacity of 63ml, it can be recharged in seconds from a butane can.  
Designed for high temp applications. Temperature range for soldering tip: 300-530°C, Hot air nozzles: 700°C, Butane torch: 1300°C  
Package includes self-igniting gas soldering iron, 12mm to 1.5mm dia. tapered pyramid soldering tip (72-01-07), hot air nozzle (72-01-52), heat shrink attachment (72-01-55) and a spanner.  
Made in Japan.

**Code**  
WP4



**Weller®**

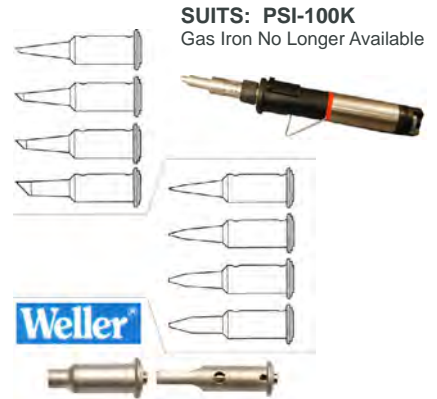
### WELLER PSI-100K TIPS

#### SINGLE FLAT

Size	Code
1.0mm	PSI-1
2.4mm	PSI-2
3.2mm	PSI-3
4.8mm	PSI-4

#### DOUBLE FLAT

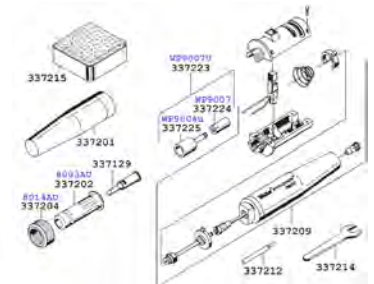
Size	Code
1.0mm	PSI-5
2.4mm*	PSI-6
3.2mm	PSI-7
4.8mm*	PSI-8
Blower*	PSI9
Knife*	PSI-10



### WELLER WPA-2 PARTS

Description	Code
Ejector Only	WP9007
Ejector Unit	WP9007U
Burner (New)	WP9004U
Burner (Older)	WPA-B
Tip Housing	8003AU
Housing Nut	8014AU

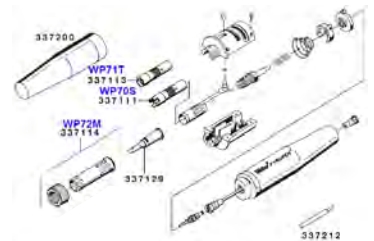
WPA-B  
As used in older models



### WELLER WSTA-3 PARTS

Description	Code
Torch Ejector	WP71T
Solder Ejector	WP70S
Tip Housing	WP72M

**Weller®**



### PORTASOL 125W BUTANE SOLDER IRON & BLOWER

#### KIT INCLUDES CASE & TIPS

Self igniting. ESD safe.  
Safety shut-off. Fuel window. Stainless steel.  
Adjustable temp. Solder & Blow. 4 Tips included.  
Carry Case holder

**Code**  
SP1K



### IRODA 70W BUTANE SOLDER IRON & BLOWER

#### KIT INCLUDES BUTANE IRON TIPS BLOWER & CASE

The kit comprises the IRODA Gas Soldering Iron supplied in a handy carry case with a range of tips and accessories including safety stand, cleaning sponge, solder dispenser, blow torch, hot air blower and hot knife cutter.

**Code**  
PRO70KIT

#### BUTANE IRON & SOLDERING TIP ONLY

**Code**  
PRO70





## □ Soldering Irons - Weller

### WELLER 70W DIGITAL SOLDERING STATION

#### DIGITAL TEMPERATURE CONTROLLED & ADJUSTABLE

This Weller 70 Watt soldering station is 40% more powerful than the well-proven WES/D51 stations and features an easy-to-read LCD screen with three push buttons to provide variable temperature control, a front power switch and intuitive navigation features. The included 70 Watt soldering iron is lightweight with an ergonomic foam grip and an interchangeable, iron-plated, copper ET series tip, included with an iron stand and cleaning sponge. The unit is completely ESD safe. The improved power station allows the iron to heat up faster and provides a faster recovery time 100°C to 450°C ( $\pm 6^\circ\text{C}$ ). If you are looking for a high-quality soldering iron for easy professional soldering jobs, PCBs, electronic kits, or educational purposes, the Weller WE1010 is an excellent yet economical soldering choice. ET series tips (ETA supplied).

**Weller®**

Size	Code
70W	WE1010



Note: The ET Series tips made by Weller will work with the WE1010, Includes 1x ETA soldering tip. See datasheet for more tip and spare parts options.

## □ Soldering Irons - Tips & Parts

### WELLER TIPS TO SUIT EC WESD WE STATIONS

Weller Stations: EC1000, EC1001, EC1002, EC2000, EC2001, DS1003, WEC-P, WEC-24, WES51D, WESD51D, WE1010, etc.

#### ETA - WEDGE 1.6mm



#### ETP - CONICAL 0.8mm



#### ETO - SHARP 0.8mm



#### TETS - SHARPER 0.4mm



**Weller®**

#### WE1010 PENCIL IRON

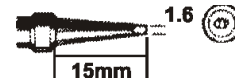
Description	Code
WEP70 SOLDERING IRON	WEP70



Description	Code
WEP70 TIP RETAINER	WEP70TR

### WELLER WT201 WT-CPT-D

#### PTA - WEDGE 1.6



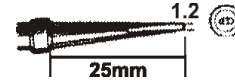
Temp.	Code
371°C	V10-700
427°C	V10-800

#### PTH - WEDGE 0.8



Temp.	Code
371°C	V16-700
427°C	V16-800

#### PTK - LONG 1.2



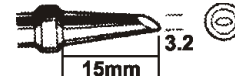
Temp.	Code
371°C	V17-700
427°C	V17-800

#### PTP - CONICAL 0.8



Temp.	Code
371°C	V20-700
427°C	V20-800

#### PTCC - WEDGE 3.2



Temp.	Code
371°C	V23-700
427°C	V23-800

#### PTO - Long Conical 0.8



Temp.	Code
371°C	V26-700
427°C	V26-800

### WELLER STATION

WT-CP,  
WT-CPL,  
WT-CPN,  
WT-CPS,  
WT-CPT,  
WT-CPT-D  
WT-CPZ,  
etc., TC-P1  
& TC-P12.



### WELLER SPONGE

Sponge Only Suit  
Weller Iron Stand

Code
TC205



### WELLER PLUG & RECEPTACLE

Code
TC369A



### BARREL-NUT SUIT TC201

Code
BA60



### WELLER SOLDERING IRON PARTS

For part listings,  
be sure to keep  
the units manual!

More parts are available.....  
Weller stock a large range Can be ordered  
in with short delay. Please enquire.





# Tools and Test Equipment

## □ Soldering Irons - Scope

### SCOPE MINISCOPE SOLDERING IRON

Light weight Pencil iron for push button instant heat with adjustable temp' whilst soldering. 200-500°C. 10-70 Watt. For light to medium duty Precision soldering. Classic press for instant heat soldering.

**Requires PSU10**

Code  
SI85



### SCOPE POWER SUPPLY

Code  
PSU10



### SCOPE MINISCOPE & SUPERSCOPE SPARE PARTS

Description	Code
10x SuperScope tips, 6.4mm, 1A	SS1A
10x SuperScope tips, 3.2mm, 1B	SS1B
10x SuperScope heater elements.	SS3
3x SuperScope tips, (1A x2, 1B) + 2x Heater elements	05PS
1x SuperScope barrel	SS02
1x Ceramic Bead SuperScope	SS05



Description	Code
10x MiniScope tips, 6.4mm, 1A	MS21A
10x MiniScope tips, 2.5mm, 1B	MS21B
MiniScope Barrel	MS22D
10x MiniScope heater elements.	MS23
1X Ceramic Bead MiniScope	MS25
Miniscope Push Rod Assembly	MS26A
Kit 2x Elements & Tips 1A, 2x 21	05PM
Locking Nut to suit SI75	SS18
Pushrod Assembly Superscope	SS06
Pushrod Assembly Superscope	SS06A
Superscope cable	SS08

### SCOPE TIPS ETC PX PH TC

Iron	Type	Code
Complete	OEM	ETC30W8



Iron	Type	Code
ETC60W/8	S	DF0.4/23
ETC30W2	H	DF1.6/504
PX10	H	DF2.0/2D
ETC30W2	H	DF2.0/505
TC60		DF32
PH20, MH25		DF3475
ETC60W9	H	DF5.0/10
PX10	H	DF5.0/5K
TC60		DF64
PH20, MH25		SF2475
PH20, MH25		SF4475
PX10	H	SF5.0/11
ETC30W/8	S	ZF0.8/59
PH20, MH25		ZF0475
		ZF0.4/503
		ZF0.6/SB
		ZF0.8/502

Superseded Soldering Irons still require replacement tips! Here are the tips we have stock of. If you require a tip not listed, please enquire.



Type "H" = Hollow  
Type "S" = Solid

ETC60W/8 is for ETC60W & ETC60W8



### SCOPE SUPERSCOPE SOLDERING IRON

#### SUPERSCOPE FAST POWERFUL LOW VOLTAGE

Adjust heat instantly whilst soldering. 200-500°C 20-100 Watt. For medium to heavy duty soldering. **Requires PSU10**

Code  
SI75



### SCOPE POWER SUPPLY

3.3 volts high current.  
Code  
PSU10



### SUPERSCOPE HEATER ELEMENT

#### SUPER-SCOPE

10 pcs

Code  
SS3



#### SUPERSCOPE 3.2mm

Conical  
10 pcs.

Code  
SS1B



#### SUPERSCOPE 6.4mm

Chisel

10 pcs.

Code  
SS1A



### MINI-SCOPE HEATER ELEMENT

#### MINI-SCOPE

10 pcs

Code  
MS23



#### MINI-SCOPE 2.5mm

Conical  
10 pcs.

Code  
MS21B



#### MINI-SCOPE 6.4mm

Chisel

10 pcs

Code  
MS21A



### SCOPE - ZERO FLAT

Size	Code
4mm	MH25ZF
5mm	MH40ZF



### SCOPE - SINGLE FLAT

Size	Code
4mm	MH25SF
5mm	MH40SF



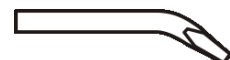
### SCOPE - DOUBLE FLAT

Size	Code
4mm	MH25DF
5mm	MH40DF



### SCOPE - BENT

Size	Code
4mm	MH25DFB
5mm	MH40DFB



MORE AVAILABLE - PLEASE ENQUIRE





## □ Soldering Irons - Station

### ELECTRONIC TEMPERATURE CONTROLLED SOLDERING STATION ESD

ESD Soldering Station with a Dual LCD Digital Display. Is the perfect station in assembly, prototype and service environments where close temperature control is important. Two-line LCD readout simultaneously displays tip temperature and set point in degrees Celsius or Fahrenheit. Set temperature in 1° steps. with quick jump keys for 200°/300°/400°C. LCD icons illustrate "Heat On" when iron is active, and "Wait" status. With iron, holder and sponge. Stand is detachable.

Power supply voltage 220V-240Vac

Electronic iron Power: 48 watt 24V

Electro-Static Discharge Safe

Regulating scope temperature. 150°C - 450°C

Temperature display 2x LCD display

Display precision 5%

Base + Stand: 210x125x135mm

Colour Code

Black PRT-237BK

White PRT-237WH

ESD  
SAFE

#### REPLACEMENT IRON

Colour Code

Black SI237-BK

White SI237-WH

#### REPLACEMENT TIPS

Type Size Code

Round\* 1.5mm TIP237-16

Sharp 0.5mm TIP237-26

Ellipse 2.0mm TIP237-36

Wedge 3.0mm TIP237-46

\*Iron supplied with TIP937-16

#### BARREL

Code

BRL-237

#### HEATER

Code

HTR-237

#### SPONGE

Size Code

57x37mm SPG-237

### HOBBYIST SOLDERING STATION

#### 48W VARIABLE TEMPERATURE CONTROLLED

- Adjustable temperature 48W soldering station
- Compact base station with cleaner sponge
- Safety guard iron holder built-in stand
- Rotary temperature control setting
- Includes a 1.5mm tip, more available
- On/off switch with power on indicator light
- Integral tip cleaner, with included cleaning sponge
- Variable temperature control range from 100C to 450C.

Code  
ZD99



#### ZD99 REPLACEMENT TIPS

Size Code

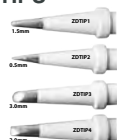
1.5mm ZDTIP1

0.5mm ZDTIP2

3.0mm ZDTIP3

2.0mm ZDTIP4

\*Iron supplied with ZDTIP1



### HOT AIR REWORK STATION 300W

SMD rework is a challenging task, but this rework station helps you get it done. With 300W of adjustable power and a selection of nozzle diameters, it allows you the precision and flexibility required to get it done. By using hot air rather than a soldering iron, you provide a more uniform heat transfer and can melt all solder pads at once, providing a method to remove the chip safely and effectively. You can then clean up the PCB, and use soldering paste (not included) to solder your new chip in place. Temperature selection is done via the digital display and push buttons, while air flow is controlled via the rotary dial. The base unit features an integrated dock for the blower to keep it from burning anything, which also puts it into automatic sleep mode. Lift the blower and it will quickly come back to temperature.

- Temperature display on a compact base unit
- Adjustable temperature programmed
- Variable Air Flow by control dial
- Blower type, interchangeable 21mm tips
- Dimensions: 160.0x113x123mm
- Heater Power Rating : 300W
- Automatic Sleep Function
- Temperature range from 100°C to 500°C
- Suitable for SOIC, CHIP, QFP, PLCC, BGA & more

Code  
PRT-890



21mmØ



Includes 3 tips  
5mm 8mm 12mm





# Tools and Test Equipment

## □ Soldering Irons - Hakko

### HAKKO FX888D SOLDERING STATION

#### ESD LEAD-FREE WITH PRESETS

The Hakko FX888D-23BY is an ESD-safe digital soldering station with selectable preset temperatures and digital calibration.

- ESD-safe
- Compact unit; takes up little space on the workbench
- Soldering iron has a thin grip for easier use
- Ceramic heating element
- Rapid 30 second heat-up
- Fast thermal recovery
- Celsius and Fahrenheit temperature display
- User selectable preset temperatures
- Unit offers password protection
- Low temperature alarm provides process control

Iron power 65W / 26V

Temperature presets: 5

Temperature: 50° - 480°C

Temperature stability: ±1°C

Includes Station power unit & iron

Supplied with a T18-B solder tip

Iron holder, Cleaning sponge, Wire sponge.

Code  
FX888D

Includes T18-D16 Tip

More Tips Available

Hot Tweezer Available



### HAKKO FX950 SOLDERING STATION - ANALOGUE SET

#### COMPATIBLE WITH T12 SERIES SOLDERING TIPS

Analog type temperature set with Lock key. The excellent thermal recovery allows setting lower preset temperatures. It is also useful for lead-free soldering which requires higher melting temperatures. The composite tip is a ceramic soldering tip with integrated heating element and sensor. Despite its highly compact design, the tip offers superior thermal responsivity and greatly improved thermal recovery. 85 variations of HAKKO tips are available for various types of soldering from IC modifications to soldering of power sections. With Iron holder, Control card, Heat resistant pad and Power cord.

Code  
FX950

#### REQUIRES TIP !

Choose a T12 type below...

REQUIRES T12 TIP



### HAKKO FX951 SOLDERING STATION - DIGITAL SET

#### ESD SAFE DIGITAL TEMPERATURE CONTROL & COMPOSITE TIP IRON

Digital soldering station ideally suited to lead free soldering processes. Advanced technology. Vertical bench space saving design. Modern styling. Features programmable functions including power saving sleep settings to greatly extend the irons tip life. The stand detects iron placement and will stop energising the iron after the set sleep period of 1 to 30 min. T12 Series of composite tips are soldering tip, heater & thermal sensor all in the one compact design. This greatly improves thermal recovery Coupled to a powerful 70W source ensures superior performance.

Code  
FX951

**NO TIP SUPPLIED** - See Listing Below...  
[ eg. 0.2B T12-B ] or [www.hakko.com](http://www.hakko.com)

REQUIRES T12 TIP



### HAKKO FX950 & FX951 TIPS T12

Genuine Hakko Active tips Suits:

FM-202 FM-2028  
FM-203 FX-950  
FM-204 FX-951  
FM-206 FX952  
FM-207

Size	Code
0.2mmØ Composite Tip	T12-B
0.5mmØ Composite Tip	T12-B2
1.2mmØ Composite Tip	T12-D12







## HAKKO FM-2032 PRECISION MICRO SOLDERING IRON AND STAND

The FM-2032 micro soldering iron extends precision micro soldering capabilities to a variety of HAKKO soldering and rework systems. Ideal for micro-soldering applications, the slender, lightweight hand-piece has a tip-to-grip distance optimized for operator dexterity under microscopes and magnifiers while preserving the control one expects when working with 0201 components and smaller.

The new T30 Series composite micro tips have geometries engineered for optimal heat transfer and the ability to reach into some of the tightest spots on a board.

For use with the Hakko FX-951, FM-203, and FM-206 soldering systems. (Not Included)

- Thin, burn resistant iron cord
- The shape of the iron and tips (sold separately) are optimised for working under a magnifier
- Allows tips to be change quickly
- Cool running grip even when operating at 450°C for extended periods
- Includes iron holder, heat resistant pad and connecting cable
- Compatible with Hakko high end soldering stations;
- FM-203, FM-206 and FX-951.
- ESD Safe by design

Code  
FM-2032

REQUIRES MICRO TIP

COMPATIBLE WITH THE FOLLOWING SOLDERING STATIONS:



FM-203



FM-206



FX-951

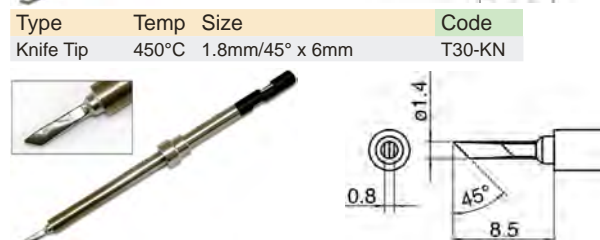
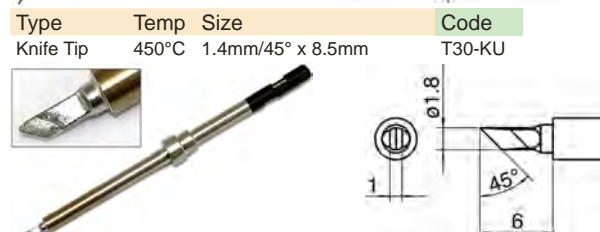
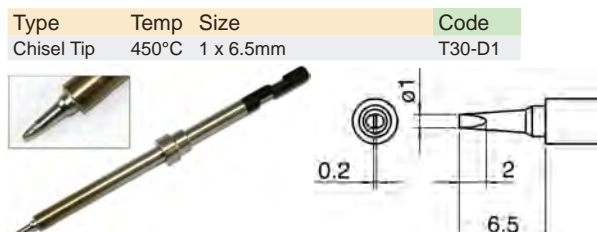
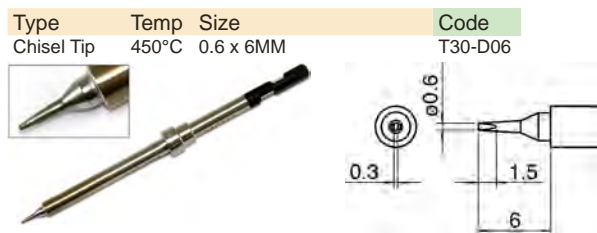
LEAD  
FREE

ESD  
SAFE

RoHS

**HAKKO**

### TIPS FOR TM-2032 MICRO SOLDERING IRON (REQUIRED)





## HAKKO FR-810 HOT AIR STATION

### UP TO 600°C AND 115L/MIN WITH PROGRAMMABLE REFLOW PROFILES

The new, compact and lightweight FR-810 Hot Air Rework Station features a quiet, self-contained turbine air supply, capable of delivering approximately 115L/min (free flowing). The new heating element design improves durability, provides a top end temperature of 600°C and eliminates the quartz glass insulator tube. New N51 Series Quick Change nozzles allows for tool-free installation and removal, and the integrated holder provides automatic safety cool down when the hand-piece is not in use.

- Easy to read digital display for both temperature and air level
- Slender handpiece with integrated Start/Stop button
- The ability to store up to 5 user programmable presets for temperature, airflow and time
- New Preset Chain feature that allows the operator to link up to 5 presets to run in sequence, simulating a 5-heating zone reflow profile for SMD components
- Auto Power-Off
- Additional new, single jet nozzles with larger sizes
- A quick-change adaptor for compatibility with existing Hakko nozzles
- Password Lockout to prevent unauthorized setup changes
- ESD safe by design
- Base unit has B5048 Handpiece holder (not shown)
- Includes: Heat resistant pad and B5056 pickup tool
- Requires N51 nozzles (Not supplied)

Code  
FR810

REQUIRES NOZZLE



No Tips are supplied. Requires N51 nozzles.



### HAKKO FR-810 HOT AIR NOZZLES N51

Type	Code
2.5mmØ ID	N51-01
4mmØ ID	N51-02
5.5mmØ ID	N51-03
7mmØ ID	N51-04
1.5x 3mm 45° tilted	N51-05



## HAKKO FX-301 SOLDERING POT

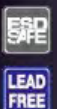
### DIGITAL TEMPERATURE SET WITH PRESETS & TIMER

Hakko's FX-301 Digital Solder Pot is the perfect solution for dip soldering, tinning the ends of wire leads, and re-tinning solder iron tips. This digital model features four different heating programs and convenient timer which is especially useful where reliable control of solder temperature is essential.

Code  
FX301

### FEATURES

Four heating programs for optimum temperatures to suit most solder types Sn-Pb (Tin/Lead), Sn-Ag-Cu (Tin/Silver/Copper), Sn-Cu (Tin/Copper) Sn (Tin) Microprocessor Temperature controllable with digital temperature display High performance Ceramic heating element with two sized pots available Pot size included 50mm<sup>2</sup>. Additional pots and 75mm<sup>2</sup> pots are optional extras Suits terminal treatment of wires, removal of electronic components, etc. Convenient programmable timer function helps keep tabs on how long the solder has been in use making it easy to judge when to replace the pot New improved performance tool gives excellent thermal recovery Displays °C or °F. ESD Safe. 400°C to 840°C Max







## HAKKO FR-301 REWORK/DESOLDERING TOOL

The Hakko FR-301 is the direct replacement for the FR-300. It features an improved temperature recovery time for greater efficiency, as well as an added guard to reduce solder clogging. The FR-301 also uses N61 nozzles, and includes one N61-08 tip. Includes convenient carry case, tip spanner, simple stand, and spare filters.



- Use of high thermal efficiency N61 series nozzles
- A wide range of nozzles and shapes for secure desoldering
- Reduction of solder clogging by improved heating core
- Easy filter maintenance
- Safe and easy nozzle change with the nozzle wrench

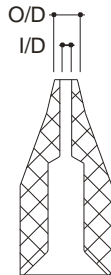
Code  
FR-301

INCLUDES N61-08 TIP



### FX-301 REPLACEMENT TIPS

I/D	O/D	Code
0.6mmØ	1.5mmØ	N61-01
0.8mmØ	1.5mmØ	N61-02
1.0mmØ	1.6mmØ	N61-03
0.8mmØ	1.8mmØ	N61-04
1.0mmØ	2.0mmØ	N61-05
1.3mmØ	2.3mmØ	N61-06
0.8mmØ	2.3mmØ	N61-07
1.0mmØ	2.5mmØ	N61-08
1.3mmØ	3.0mmØ	N61-09
1.6mmØ	3.0mmØ	N61-10
0.8mmØ	2.1mmØ	N61-11
1.0mmØ	2.3mmØ	N61-12
1.3mmØ	2.6mmØ	N61-13
1.6mmØ	3.0mmØ	N61-14
1.0/3.0mmØ	2.8/4.8mmØ	N61-15
1.0/4.0mmØ	2.8/5.8mmØ	N61-16



### FR-301 ACCESSORIES

Description	OEM	Code
Iron holder w/ cleaning sponge	C1100	HC1100
Tip Cleaner	599B	H599B-02
Silicone Grease for O-Rings		A1028
Cleaning Pin 0.8mm		B1086
Cleaning Pin 1.3mm		B1088
Cleaning Pin 1.6mm		B1089
Cleaning Drill 0.8mm		B1302
Cleaning Drill 1.0mm		B1303
Cleaning Drill 1.3mm		B1304
Cleaning Drill 1.6mm		B1305
Cleaning Pin 2.0-2.3mm		B2875
Tip Cleaning Paste Lead-Free		FS100
Flux 10g		



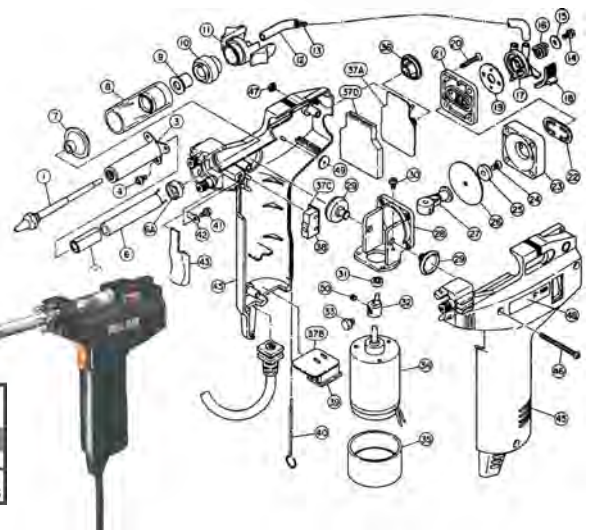
## SC7000Z PARTS - MOTOR ACTUATED DESOLDERING PISTOL

### SC7000Z TIPS, ACCESSORIES & SPARE PARTS

Description	DIAG	Code
Cleaning Pin	40	5000-51
Pipe setter	7	5000A-7
Heater holder	3	70-03-00
Heater Sleeve	5	700500
Heater protector	6A	70-06-10
Heater assembly	6	70-06-50
Filter Cartridge(5pcs)	8	700800
Rear Seal	10	70-10-00
Rear Pipe Setter	11	70-11-00
Set Valve	22	70-22-00
Isolation Rubber		70-29-00
Power PCB	37b	70-37-51
Cleaning Pin Set	51	70-51-00
Housing	45	72-45-00
Tip assembly 1.0mm	1	SIT100
Tip assembly 1.5mm	1	SIT150
Tip assembly 0.8mm	1	SIT80
Stand to suit	-	ST800
5000-52 SC5000 CASES L/R		5000-52
H/I.C. SC7000		70-37-02
Tube Sil.		70-12-00
Lever		70-18-00

SC7000Z is now discontinued. Tips and parts are available while stocks last. Please refer to the manual for details.

Replacement Tips						
DIAG	SPCL	STAMP	I/D	O/D	I/O	Len
SC-01-01	0.8mm	0.8	0.8	2.5	7.0	10.0
SC-01-02	0.8mm	0.8	0.8	2.5	7.0	10.0
SC-01-03	0.8mm	0.8	0.8	2.5	7.0	10.0
SC-01-04	1.0mm	1.0	1.0	2.5	7.0	10.0
SC-01-05	1.0mm	1.0	1.0	2.5	7.0	10.0
SC-01-06	1.0mm	1.0	1.0	2.5	7.0	10.0
SC-01-07	1.0mm	1.0	1.0	2.5	7.0	10.0
SC-01-08	1.0mm	1.0	1.0	2.5	7.0	10.0
SC-01-09	1.0mm	1.0	1.0	2.5	7.0	10.0
SC-01-10	1.0mm	1.0	1.0	2.5	7.0	10.0





# Tools and Test Equipment

## □ Soldering Irons - Hakko

### HAKKO FX888 PARTS & ACCESSORIES

REMEMBER: HOLD ON TO YOUR MANUAL!

[http://www.hakko.com/english/products/hakko\\_fx888.html](http://www.hakko.com/english/products/hakko_fx888.html)

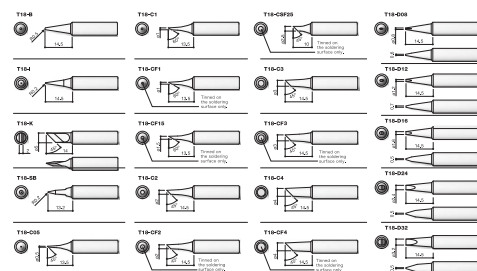


#### REFER TO MANUAL FOR DETAILS

Description	Code
65W Pencil	FX8801-01
Iron Holder	FH800-01BY
Cleaning Sponge	A1559
Cleaning Wire	A1561
Rubber Cleaner	B3474
Heating element	A1560
Tip Enclosure	B3469
Nut	B1785
Nipple 907 / 907-ESD / 913.	B2022
Screwdriver	B3466

#### Tips

Code	Code
T18-B	T18-CSF25
T18-I	T18-C3
T18-K	T18-CF3
T18-SB	T18-C4
T18-C05	T18-CF4
T18-C1	T18-D08
T18-CF1	T18-D12
T18-CF15	T18-D16
T18-C2	T18-D24
T18-CF2	T18-D32



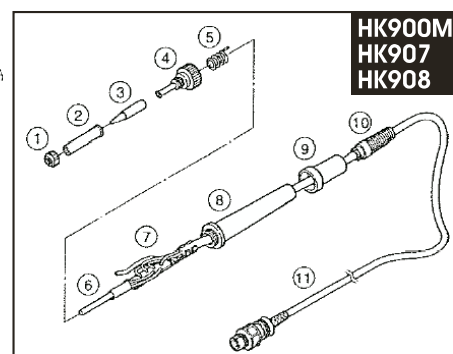
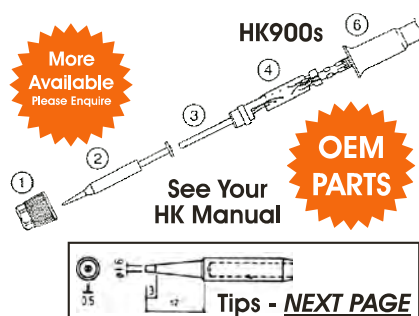
### HAKKO 936 SOLDERING STATION SPARE PARTS

#### MINI IRON HK900S & ESD

Description	Code
Heater Element	900S-H
Nut	900S-006

#### REPLACEMENT HK900M, HK907 & ESD

Description	Code
A1321 Heater Element 701, 702B, 928, 937, 951, 952, 953, 958, 959	A1321
Nipple 907 / 907-ESD / 913.	B2022
Tip Enclosure 900M / 907 / 913.	B1786
Nut 900M / 907 / 913 / 980 / 981.	B1784
Nipple 900M	B1920
907 936 Handle & grip (only)	B2023



ALL PARTS AVAILABLE! [www.wescomponents.com/datasheets/hakko/](http://www.wescomponents.com/datasheets/hakko/)

#### LARGE IRON HK908 & ESD

Description	Code
A1321 Heater Element 701, 702B, 928, 937, 951, 952, 953, 958, 959	A1321
Cleaning Sponge	A1042

### HAKKO 950 & FX8804-02 SMD HOT TWEEZER ACCESSORIES

#### HOLDER CLIP FOR FX8804 TWEEZER HAKKO B3666

Code
B3666

#### FX8804 DESK STAND

Code
FH800-04BY

#### REPLACEMENT TIPS (2 Supplied)

Size	Code
2.0x1.0	A1378
1.0x1.0	A1379
8.0x1.0	A1380
10.0x1.0	A1381
13.0x1.0	A1382
18.0x1.0	A1383
20.0x1.0	A1384
25.0x1.0	A1385

#### REPLACEMENT HEATING ELEMENT

Description	Code
One Supplied	A1377

#### SMD HOT TWEEZER FX8804-02

Supplied without required power station.

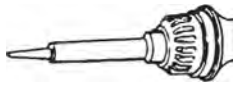
Code
FX8804-02





## HAKKO ORIGINAL TIPS

Please refer to your instruction manual for more tips available.



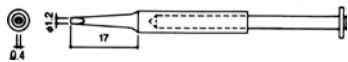
## HAKKO TO SUIT

HK900S Mini-Iron  
HK900M eq. HK907  
HK900L eq. HK908  
If not listed, Please Enquire



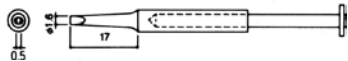
## HAKKO 900S TINY CHISEL

Code  
900S-T-1.2D



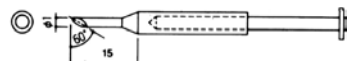
## HAKKO 900S SMALL CHISEL

Code  
900S-T-1.6D



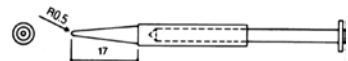
## HAKKO 900S TINY BEVEL

Code  
900S-T-1C



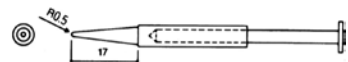
## HAKKO 900S SMALL BEVEL

Code  
900S-T-2C



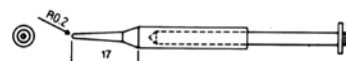
## HAKKO 900S BLUNT CONICAL

Code  
900S-T-B



## HAKKO 900S SHARP CONICAL

Code  
900S-T-I



## HAKKO 900S HEATER 50W

Code  
900S-H



## HAKKO 900M HEATER 50W

Code  
A1321

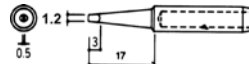


## HAKKO PARTS AVAILABLE

Please retain your manual!  
Please refer to your original Spare parts diagrams as found in your HAKKO Instruction manual.

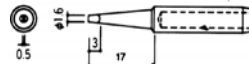
## HAKKO 900M SMALL CHISEL

Code  
900M-T-1.2D



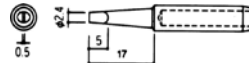
## HAKKO 900M SMALL CHISEL

Code  
900M-T-1.6D



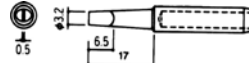
## HAKKO 900M MEDIUM CHISEL

Code  
900M-T-2.4D



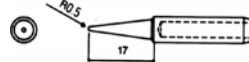
## HAKKO 900M LARGE CHISEL

Code  
900M-T-3.2D



## HAKKO 900M BLUNT CONICAL

Code  
900M-T-B



## HAKKO 900M LONG CONICAL

Code  
900M-T-LB



## HAKKO 900M SHARP CONICAL

Code  
900M-T-I



## HAKKO 900M TINY BEVEL

Code  
900M-T-1C



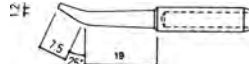
## HAKKO 900M CHISEL SPECIAL

Code  
900M-T-K



## HAKKO 900M BENT SPECIAL

Code  
900M-T-H



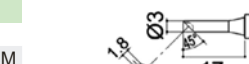
## HAKKO 900M BEVEL (X=Size)

Size	Code
2mm	900M-T-2C
3mm	900M-T-3C
4mm	900M-T-4C



## HAKKO 900M CHISEL CONICAL

Size	Code
3.0mm	900MT3CM
3.4mm	900MT3.4CM



## HAKKO 900M SMD BARREL

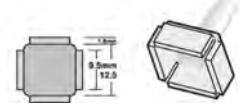
Required for the SMD tips listed below.

Code  
900M-1000 NLA



## HAKKO PLCC/MP 9x9mm SMD

Code  
924-T-1002  
Req' 900M-1000



## HAKKO PLCC/MP 12x12mm

Code  
924-T-1003  
Req' 900M-1000



## HAKKO PLCC/MP 13x13mm

Code  
924-T-1004  
Req' 900M-1000



## HAKKO PLCC/MP 14x14mm

Code  
924-T-1005  
Req' 900M-1000



## HAKKO PLCC/MP 20x14

Code  
924-T-1006  
Req' 900M-1000



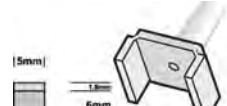
## HAKKO PLCC/MP 17x17

Code  
924-T-1007



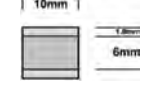
## HAKKO DIP/DIL 6mm SMD

Code  
924-T-1010  
Req' 900M-1000



## HAKKO DIP/DIL 6mm

Code  
924-T-1011  
Req' 900M-1000



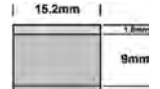
## HAKKO DIP/DIL 7mm

Code  
924-T-1012  
Req' 900M-1000



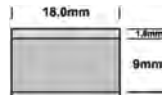
## HAKKO DIP/DIL 9mm

Code  
924-T-1013  
Req' 900M-1000



## HAKKO DIP/DIL 9mm

Code  
924-T-1014  
Req' 900M-1000







# Tools and Test Equipment

## □ Soldering Tools & Accessories

### SOLDERING IRON STAND

Metal Base & Spring.  
Standard Iron Size.

Code  
HTA5

HTA5 Sponge

Code  
SPG3455



### SOLDERING IRON STAND

Heavy cast iron base.  
Standard Iron Size.

Code  
HTA10

HTA10 Sponge

Code  
SPG5052



### SOLDERING STAND WITH CLEANING BALL

The soldering stand will hold your soldering iron perfectly. And the brass sponge will clean your soldering iron tips while keeping it dry.

Code  
HT1509



### SOLDER STAND WITH SOLDERING IRON HOLDER

Soldering iron stand with holder  
With solder feeder that can hold up to 900g roll of soldering wire  
A special sponge for tip cleaning

Code  
HT1508



### REPLACEMENT SPONGE

Code  
SPG3455

### SOLDER HOLDERS

#### SOLDER STAND + IRON HOLDER

Code  
HT1508

#### SOLDER REEL STAND

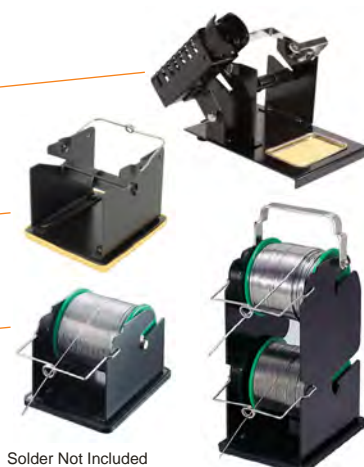
Code  
HT1504

#### HAKKO OEM REEL

Code  
HK611-1

#### HAKKO REEL DOUBLE

Code  
HK611-2



Solder Not Included

### SOLDERING TIP WITH CLEANING BALL

Cleans your soldering iron tips with the brass sponge to keep it dry and prevent oxidation that forms on the tip.

Code  
RW1509



### IRON TIP CLEANER

Metal bin with a metal alloy sponge. Clean tips without losing temperature and as a result, tips last longer.

Code  
H599B-02

#### REPLACEMENT WIRE

Metal Sponge

Code  
RW599



SOLDERING IRON NOT INCLUDED

### IRON TIP CLEANING SPONGE

Formulated to suit soldering iron tip cleaning.

Size	Suit	Code
58x58mm	HK900	A1042
65x65mm	HK950	A1386
34x55mm	HTA5	SPG3455
50x52mm	HTA10	SPG5052



### MENDA FLUID DISPENSERS

Designed to be used with evaporative or dangerous fluids. Simply push down & a measured amount is transferred to the top to use as required. Made of high density polyethylene and is suitable for alcohol, ether, acetone, M.E.K, polish remover, flux remover, stripper, thinner, etc.,

Description	Code
Standard	MENDA612
Locking	MENDA712



### LIQUID DISPENSER BOTTLE

#### METERED AMOUNT - ESD SAFE

Designed to be used with evaporative or dangerous fluids. Simply push down & a measured amount is transferred to the top to use as required. Made of high density polyethylene and is suitable for alcohol, ether, acetone, M.E.K, polish remover, flux remover, stripper, thinner, etc.,

Size	Code
120ml	IPA-120
180ml	IPA-180



### SYRINGE BOTTLE - EMPTY

Squeeze to "eye drop". Suitable for non-volatile, flux, cleaner fluids, etc. Opaque plastic bottle Squeezable to inject Metal tip syringe top Supplied empty

Holds	Code
55ml	BOT55E



### FLUX PEN

The flux pen features a fibre brush tip for accurate and reliable application of flux fluid for soldering application. It is refillable and reusable. Flux sold separately.

Code  
PEN201

#### FLUX TO SUIT

Size	Code
55ml	BS550





## Accessories

### PANAVISE JR

#### A THIRD HAND!

Workbench assistant.  
Made in the USA.  
Cast Iron base.  
Reinforced fibre plastic  
fingers Jaws open 73mm.  
Ball joint lock pivots &  
rotates Base bolts down  
"A helping hand"

Code  
PV201



### CIRCUIT BOARD CLAMPING KIT

This handy tool allows you to hold  
various sizes of PC boards when  
soldering. Spring tension and screw  
lock. Fingers extend to a maximum  
of 200mm. Adjustable base for  
length and angles. It is light weight,  
and easy to use.

Code  
ZD-11E

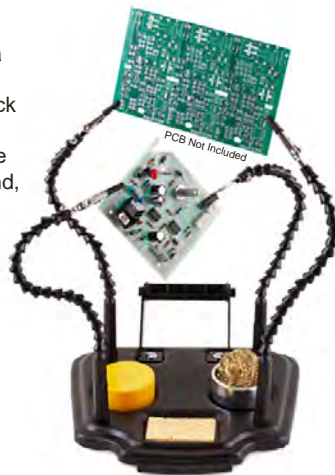


### MULTIFUNCTIONAL SOLDERING HELPING HANDS

#### WITH SOLDER STAND, CLEANING BALL & ROSIN

This PCB holder comprises of a  
powder-coated metal base with  
non-slip rubber feet It provides a  
sturdy base for mounting the 4  
flexible and adjustable gooseneck  
arms with alligator clips. It holds a  
PCB board firmly while you are  
soldering. Includes a solder stand,  
cleaning ball, sponge and rosin.  
Base size: 190x175mm.

Code  
HTA111



### SOLDERING AID HAND TOOLS

Contains 6 double sided  
hand tools designed  
to help solder re-work  
professionally & quickly.  
Suitable for SMD, etc.

Code  
SA10



### FLUX IN A BOTTLE

#### "NO CLEAN LIQUID FLUX"

Assists with soldering For refilling dispensers  
Solvent rosin activated Non-corrosive residues  
Non-hygroscopic residues (removes with  
saponifier) Tested MIL-STD-F14256

Size Code  
55ml BS550



### SOLDERING PASTE [FLUX]

Paste in a metal tin.  
Excellent solution  
for general heavy  
duty soldering work.  
Thick N pasty.

Weight Code  
100g ZD170



### TIP TINNER

High strength, general purpose use Tip-Tinner helps  
prevent flux build up and oxidization on soldering  
iron tips. The high strength Tip-Tinner is used  
when soldering tip plating has oxidized and  
the whole tip has turned black making the tip  
unusable. Conveniently packaged in a round  
metal container with a double sided foam  
adhesive pad on the underside.

Size Code  
20g CTTC2



### FLUX SYRINGE

#### SOLDERING FLUX

Resin paste flux Multi-core 450-01  
Rework SMD with this easy apply  
10cc syringe. Contains resin. High  
grade quality.

Size Code  
10cc FLX450

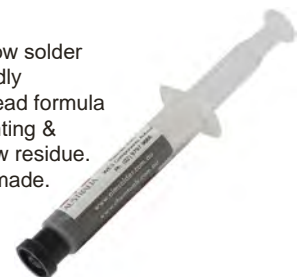


### PASTE WITH SOLDER

#### AIM NO-CLEAN SN63 293+

Excellent wetting alloy paste Suits airflow solder  
rework Easy applicator 30g syringe Mildly  
activated resin based 63% Tin / 37% Lead formula  
Suits standard air reflow Enhanced printing &  
stencil use with improved idle times Low residue.  
Aqueous cleaner. Premium Australian made.

Size Code  
30g 293SN63



### FIBRE PCB TRACK CLEANING PEN

#### ABRASIVE ENAMEL PCB CLEANER

Clean PCBs at the track level eliminating  
micro-fractures and other general repair  
diagnosis and inspection. Removes  
enamel covering leaving the bare copper.

Code  
PEN220

### REPLACEMENT TIPS

Pack of Code  
10 PRF222







# Tools and Test Equipment

## Accessories

### DUAL OUTLET SOLDER FUME EXTRACTOR

#### HAKKO FAN & FILTER UNIT

Removes 99.97% of hazardous fumes. Low noise level, lightweight. Portable with optional flexible ducting. Durable long life DC brushless Motor. There is also a 3 speed air flow selector. The 3 stage includes filtering, pre-filter, main and carbon filter.

Package included: Main unit, pre-filter pack of 10 and main filter

Code

FA430

Requires Nozzle:

#### DUCTING KIT RECTANGULAR NOZZLE

Code

HK1571

#### DUCTING KIT ROUND NOZZLE

Code

HK1572

#### PARTS: MAIN FILTER

Code

A1573

#### PRE-FILTER (X10)

QTY Code

10 A1572

### HAKKO SMOKE ABSORBER

Safe work environment. Remove toxic fumes, etc. Suitable for commercial use. Electrostatic-Safe. Low noise fan. Stands upright or low-profile flat. Replaceable Filter: Urethane foam with refined activated carbon filtering. Removes toxins & particles for a cleaner & safer working environment at 1M<sup>3</sup>/min. Premium grade unit. Quality Made Hakko. 165x215x115mm

Code

FA-400

#### HAKKO A1001 FILTERS

Genuine Hakko 130mm<sup>2</sup> carbon filter

QTY Code

1 FLT400

5 A1001

### FUMINATOR - FUME EXTRACTOR

10cm Ultra-Quiet Fan with a two filter system. Activated carbon filter plus and a unique second rotating particle filter for a "8 times better filtering than a stationary only". Ultra-quiet in operation. Creates a safe and healthy working environment. Fully adjustable neck. Large 147mm metal base with solder holder. Premium grade made in the USA.

Code

FXF11

#### REPLACEMENT FILTERS X5

Ø Code

88mmØ XF02

92mmØ XF03

DUAL CARBON FILTER SYSTEM  
With Rotating Particle Filter



## Solder

### LEAD-FREE SOLDER

Made from a patented formula alloy that is environmentally friendly and without harmful toxins. Also uses a natural rosin core flux. Use lead-free solder and look after the environment and yourself! Melts 227°C. No performance loss.

Ø	Weight	Code
.3mm	500g	LFS503
.5mm	200g	LFS205
.5mm	500g	LFS505
.7mm	200g	LFS207
1mm	200g	LFS210



#### SOLDER PENCIL 17g

17g of 1.0mm solder.

Code

LFS171



### GENERAL PURPOSE 60/40 SOLDER ROSIN CORE

Cored Solder Wire is specially designed with low residue, chlorine content less than 0.1%, flux content 2.0%+0.5 for Hand/Automatic soldering applications assembly.

Size	Roll	Code
0.5mm	100g	RS105
0.8mm	200g	RS208
0.8mm	500g	RS508
1.0mm	200g	RS210
1.0mm	500g	RS510



#### SOLDER PENCIL 17g

Resin cored 1.0mm solder in handy dispenser.

Code

RS171



### SMD REMOVAL KIT

#### LOW TEMPERATURE SOLDER

Kit includes enough solder for about 8 to 10 removals. Patented formula solder for Low Temperature Soldering offers less stress on delicate devices and due to a longer molten time, makes work easy. Economical solution compared to Air Blow Rework Stations.

Code

SMD1



### SILVER CONDUCTIVE PAINT

Dries to leave a conductive path. Suit PCB repair & connections to non-solderable materials, repairs rear demisters, etc. Excellent adhesion & conduction properties. Simply paint on!

Size	Code
3g Phial	SCP003







## Desoldering

### DESOLDERING BRAID CHEM-WIK® LITE

Quality Desoldering Braid Manufactured in USA

Width	Length	Code
1.3	1.5M	CHEM5-5L
2.0	1.5M	CHEM7-5L
2.5	1.5M	CHEM10-5L
1.3	7.6M	CHEM5-25L
2.0	7.6M	CHEM7-25L
2.5	7.6M	CHEM10-25L



### DESOLDERING BRAID SODER-WICK®

Quality Desoldering Braid manufactured in USA

Width	Length	Code
1.5mm	1.5M	SOD50-2-5
2mm	1.5M	SOD50-3-5
3mm	1.5M	SOD50-4-5
1.5mm	7.6M	SOD50-2-25
2mm	7.6M	SOD50-3-25
3mm	7.6M	SOD50-4-25



### DESOLDERING BRAID HAKKO-WICK®

HAKKO®

Width	Length	Code
0.6mm	1.5M	HAK100
0.9mm	1.5M	HAK101
1.5mm	1.5M	HAK102
1.5mm	30M	HAK302
2.0mm	30M	HAK303
2.5mm	1.5M	HAK104
2.5mm	30M	HAK304
3.0mm	1.5M	HAK105



### DESOLDERING BRAID GOOT-WICK®

Width	Length	Code
1.5mm	1.5M	STW1.5
2.0mm	1.5M	STW2
3.0mm	1.5M	STW3
3.5mm	1.5M	STW3.5



### DISPENSER WICK - GOOT-WICK®

HOT TIP PROTECTED

Windback dispenser. 2M Wick. Save fingers. Metal tipped nose. Gootwick made in Japan quality

Width	Length	Code
2mm	2.0M	SSB2
3mm	2.0M	SSB3



### DESOLDERING BRAID

Width	Length	Code
1mm	1.5M	CW1801
1.5mm	1.5M	CW1802
2mm	1.5M	CW1803
2.5mm	1.5M	CW1804
3mm	1.5M	CW1805
3.5mm	1.5M	CW1806



### DESOLDERING BRAID WITH DISPENSER

HOT TIP PROTECTED

Thumb-wheel design for easy control of the amount of desoldering wire. Can be wound back.

Width	Length	Code
1mm	1.5M	CW1811
1.5mm	1.5M	CW1812
2mm	1.5M	CW1813
2.5mm	1.5M	CW1814
3mm	1.5M	CW1815
3.5mm	1.5M	CW1816



### SOLDER-SUCKER DESOLDERING TOOL

For general PCB desoldering work. 230mm length.

Code  
SS104



REPLACEMENT TIP

Code  
SRT104

O RING

Code  
ODS100

### EDSYN SOLDAPULLT ORIGINAL ES SUCKER

Popular original USA, Metal barrel. Lightweight. 250mm.

Code  
SS350



REPLACEMENT TIP

Code  
LS363

O RING

Code  
OS130

### EDSYN SOLDAPULLT ORIGINAL ES SUCKER

Heavy duty original USA safety sucker. 330mm Long

Code  
DS017LS



REPLACEMENT TIP

Code  
SRT12

O RING

Code  
ODS31

ANTI-STATIC TIP

Code  
LS197

### ESD DESOLDERING TOOL

Heavy-duty PCB desoldering. 330mm long. Large capacity. Teflon tip. Safety plunger.

Code  
SS108



TIP

Code  
SRT108

O RING

Code  
ODS100

### DESOLDERING TOOL "O" RING LUBRICANT

Ensure correct action just like new with better suction and reduced solder sticking.

Code  
OL111



### COPPER WICK

Width	Size	Code
2.5mm	1.5M	CW5





# Tools and Test Equipment

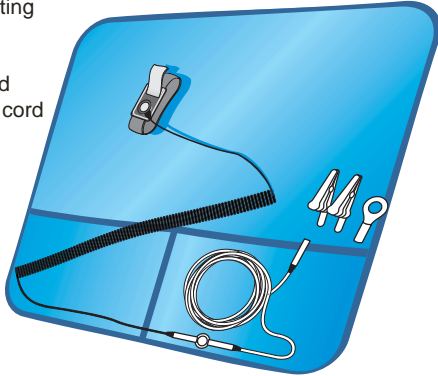
## ESD Mats & Kits

### ESD FIELD SERVICE KIT

#### PORTABLE FOR REPAIRERS

- Non-rip tough long-lasting
- Mat is 600x600mm
- Pockets for storing
- Wrist band & curly cord
- 5M straight grounding cord

Code  
ASK110



### ESD WORK BENCH MAT

#### STATIC DISSIPATIVE MAT 600MM X 10M

As used in the ASK120 / 160 2 Layer Static Dissipative High grade synthetic rubber. Non-slip, Non-tear, Anti-glare, Chemical, heat and abrasion resistant structured surface. Excellent desktop and bench workshop fit solution.

Size Code  
60cm x 10M ASM610



Stud Connection Lead  
As Shown is Optional  
Not Included

#### DESKTOP RUBBER MAT

Non-slip, non-scratch, chemical and heat resistant. Includes wrist strap.

Size Code  
600x400mm ASK120  
600x1000mm ASK160



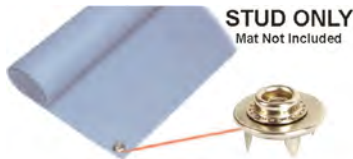
EOS/ESD-#4.1 EIA-625  
MIL-HDBK263 STD-1686

### ESD MAT GROUNDING

#### PUSH AND PINCH MALE FASTENER 10MM

10mm snap for ground cord. Push through to attach to mat.

Code  
ASM12



STUD ONLY  
Mat Not Included

#### COMMON GROUND CORD

Benchtop ESD mat solution. 10mm female snap for stud. 3M long. Built-in 1MΩ. Accepts 2x 4mm banana plugs. Stud not included. See ASM12.

Code  
ASG452



LEAD & CONNECTOR  
Mat Not Included

### ESD EARTH PLUG

Suitable for eliminating Electro-Static from units during repair, earthing a work bench, etc. Approved. Green.

Code  
ACP463AS



### ESD ELASTIC WRIST BAND

#### ELASTIC CLOTH TYPE

Elastic type wrist strap. 3M curly cord. 1MΩ protective circuit.

Code  
ASW116



### ESD WRIST BAND

#### HOOK & LOOP STRAP

Hook-and-loop adjustable wrist strap. 3M curly cord. 1MΩ protective circuit.

Code  
ASW117



### ESD HEEL STRAP

#### STRAP WRAPS SHOE HEEL

Conductive cloth ribbon tucks into your sock to give an alternative grounding through the adjustable heel strap.

Code  
ASH125



### ESD GROUNDING SOCKETS

#### ESD CONTROL

ESD grounding socket with easy mounting. Two button fastener and two 4mm banana sockets. 3m Lead.

Code  
ELET-601



### ESD GROUNDING CORD

Grounding cord for ESD mats. 10mm moulded metal stud with Easy mount metal claw. 2M cord with banana and alligator clip. Built in 1MΩ provides safe and reliable ground for personnel at work.

Code  
ELET-606



### ESD MAT GROUNDING

Bench-top ESD mat solution. 10mm female snap for stud with metal claw mount. 2M long. Built-in 1MΩ. Accepts 2x 4mm banana. Ring Lug at the other end for easy attachment to ESD ground.

Code  
ELET-608







## □ Test & Measure

### □ Video Cable Tester

#### DISPLAYPORT CABLE TESTER

NF-633 DisplayPort cable tester checks the internal wires individually and then displays the result at the LED panel. Supports DisplayPort and mini DisplayPort. Max testing distance: 15m. Requires 9V battery.

Code  
NF633



#### HDMI CABLE TESTER - CT81028

The compact HDMI cable tester is designed for checking and troubleshooting HDMI cables. Useful for checking for faults with cables or inwall installations. All pins tested base-unit to Base-unit, plus a cable tracer receiver for checking installed cables.

Code  
CT81028



## □ Test Discs and Tapes

#### VHS TEST TAPE

Colour bar.

Code  
VID50

Master copy.  
Premium Q.

Code  
VID70



## □ Miscellaneous

#### 240Vac VARIAC - VARIABLE AC TRANSFORMER

Technicians Repair/Service Instrument. 240Vac Mains Plug Input with variable 0Vac to 260Vac output. Mechanically adjustable by an Auto-Transformer (No isolation).

Code  
MP3080



#### PORTABLE CCTV TESTER ANALOGUE & IP DIGITAL

Rechargeable portable wrist-strap monitor for testing video signals with IP, AHD, CVI, TVI and CVBS type signals as used with CCTV, etc. 4" touch-screen display. Includes PoE output, ONVIF, etc.

Code  
CTW848



### □ Television and Monitor

#### VIDEO PATTERN GENERATOR DIGITAL MOTION

##### HDMI WITH MOTION BLOCK

This is a wide variety of PC and HD pattern for stable test signals. Use the keypad or remote control to select patterns and timing.

- On-panel LED display and LED indicators and Remote control.
- HDMI v1.2, HDCP1.1 and DVI1.0 compliant 1.65Gbps
- PC Mode: VGA60, SVGA60, XGA60, SXGA60, UXGA60, WUXGA60.
- HD Mode: 576p-50, 480p-60, 720p-50/60, 1080i-50/60, 1080p-50/60.
- Output Signal: DVI / HDMI / Auto Detect.
- 8 Groups with 36 patterns. With Motion block.
- Audio: Internal 1 kHz Sine 48kHz Multiple Ch (up to 8)
- HDCP Verify. EDID support: VESA EDID v1.3 and EIA/CEA 861 V3.

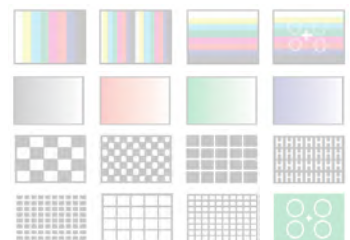
Output

HDMI 1.2

Code

CPA-4

**DISCONTINUED**



#### 3D MINI HDMI ANALYZER

##### HDMI SOURCE ANALYZER

The Mini HDMI™ 3D Analyzer is the perfect hand-held tool for checking both source (Blu-ray or DVD players) and display devices (TV or monitors). With touch button controls and built-in OLED display, the unit can report the status and information of both the input and output devices connected to it via HDMI. The Mini Analyzer can be used to analyze the input source device info-frame and output sink device EDID. It also has a built-in pattern generator that can be used to test the capabilities of the display device including 3D and resolution/timing support.

Output

HDMI 3D

Code

CH-A1



#### HDMI SIGNAL GENERATOR & ANALYSER 4K60

This portable HDMI Signal Generator & Analyser provides a convenient way to test and verify all aspects of an HDMI signal path, including source and output. This unit complies with the HDMI 2.0a and HDCP 1.4/2.2 standards. The unit's Analyser mode complies with the CEA standard HDR static metadata extensions CEA-861-F and CEA-861.3 for EDID analysis.

Max Res.

4K@60Hz

Code

CPHD-V4L







# Tools and Test Equipment

## RF Signal Strength

### TERRESTRIAL TV SIGNAL METER WITH LCD

#### WITH 12V ANTENNA POWER

The SQT784 is high definition terrestrial TV signal meter specially designed for TV installer. It can power 12V DC mast amplifiers. It provides spectrum display of signals, constellation diagram displays signals in an XY-plane scatter diagram. It also includes MER and BER signal readings and magnetic compass for identifying direction. Compatible with DVB-T2 and DVB-T. It can read weak and strong TV signals and provide instant signal changes update.

- Colour LCD Display
- Powers 12V DC mast amplifiers
- Soft cover protects against drop damage
- Pre-programmed with Australian Channels
- Internal high energy Li-ion battery 1800mAh
- High sensitivity assists searching for weak DTV signals
- Comprehensive digital TV measurements including level, MER & BER



**DVB T**  
TERRESTRIAL

**DVB T2**  
TERRESTRIAL

**DVB C**  
CABLE

Code  
SQT784

### TERRESTRIAL TELEVISION METER - SATKING

#### VIEW TECHNICAL READOUTS & LIVE PREVIEW 3.5"

The SK-2500C is high definition terrestrial TV meter specially designed for the TV installer and electrician. Unlike many other mid level priced meters on the market, this unit can view Digital TV channels. MPEG 4 compatible. Display live TV of all SD and HD channels. The unit is easy to use and has all the important measurements including MER, etc. The unit can also be used for alignment of CCTV camera's via the composite input. HDMI output for testing cable runs. It includes new features like DVB-C function and HDMI input. The tester includes a built in high power 3000mAH rechargeable battery.

- MPEG4 & MPEG2 Tuner
- DVB-T & T2 Compliant
- View Live HD TV with Sound
- HDMI Input & Output
- AV Input & Output



**DVB T**  
TERRESTRIAL

**DVB T2**  
TERRESTRIAL

**DVB C**  
CABLE

Code  
SK-2500C

### TERRESTRIAL & SATELLITE TV METER - SATKING

#### VIEW TECHNICAL READOUTS & LIVE PREVIEW 4.3"

High Definition combination meter for both terrestrial and satellite TV. The meter has all the main technical readouts as well as MER, (required by the Australian government). This meter will display all digital channels with live colour picture and sound just like a compact TV. The unit is also suitable for CCTV alignment as it has AV input and a convenient 12v power output to power the CCTV camera.

- 4.3" colour LCD screen
- Built in speaker
- High Definition
- MPEG2/4 Compliant
- MER, BER, C/N, dB Microvolts
- 3000mAh Lithium ION battery
- HDMI output
- AV Input for aligning security cameras



**DVB T2**  
TERRESTRIAL

**DVB S2**  
SATELLITE

Code  
SK-9000B

### DIGITAL SATELLITE TV METER - SATKING

#### MAKES ALIGNING YOUR SATELLITE DISH EASY

Digital satellite meter is designed for VAST and Foxtel satellite TV. It is also suitable for other bands, e.g. K, C. This advanced meter is high definition MPEG2 (SD) and MPEG4 (HD) compatible. This unit includes a rubber case, strap, screen protector, AC charger and USB cable.

- VAST compliant
- MPEG4
- 2.4" colour LCD Screen
- Built in speaker
- Built in light
- Signal buzzer
- Built in compass
- Satellite alignment tool built in
- Rechargeable lithium ion battery
- Software upgrade via mini USB
- Compact size
- Signal to Noise display
- BER display
- dBuV display
- dBm display



**DVB S2**  
SATELLITE

Code  
SK3200



## Miscellaneous Testers

### SATELLITE FINDER - DAICHI

Connects inline with the cable.  
Has 2 x "F" connector sockets.  
Frequency range 900MHz-2.3GHz.  
LNB Gain 52-60dB. DC13-18V

Code  
SAT2100



### SATELLITE FINDER - LABGEAR

Pre-programmed for multi satellites - precise digital signal alignment to Optus C1 / D3 for VAST, Pay TV, Optus D2, Intelsat 19 for foreign PayTV and AsiaSat 5 for RAI Italia (C band). Satellite meter is powered via external power supply (PS12DCF) or set top box. F connector to connect the signal cable. Audible beeper. LED Display for Signal Strength & Quality.

Code  
SQ722



Labgear



### VSWR & POWER METER

1.8MHz-525MHz 200W max.

Professional full featured instrument with large scale meter display. Measures SWR and POWER for optimum antenna tuning, etc. Peak-Envelope-Power SSB Mode or Average. Transmitted & Reflected Power, switched. Requires 12Vdc (DC lead inc.) or Optional 240V PowerPack. Two pair of PL259 connections for 1.8MHz - 180MHz & 140MHz - 525MHz. Power 5W 20W 200W Ranges 50W 1GL 1Bz 50F 150x65x100mm Benelec 0301

Code  
VSWR0301



### MICROWAVE LEAKAGE MONITOR

Detect and measure 2450MHz microwave leaks from door seals, etc. 3 Digit 0 to 9.99mW/cm<sup>2</sup> with a 5mW/cm<sup>2</sup> alarm. +/-1dB accuracy. 160x60x42mm hand-held instrument. Max-Hold. Zero set. Back light. Includes protective carry pouch. Requires 9V battery.

Code  
DT2G



### EMF TESTER

#### TEST ELECTROMAGNETIC FIELD RADIATION (NON-IONIZING)

The EMF tester is a quick, convenient reliable way to determine EMF radiation levels from electrical equipment, power lines, monitors, industrial machines, etc. Measure from 1μ to 2000μ Tesla, max resolution of 10pT ( 10 milli-Gause ). Also known as EMR (ElectroMagnetic Radiation) For specifics on exposure levels please enquire with the EPA ([www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)) or Radiation Protection Agency ([www.arpana.gov.au](http://www.arpana.gov.au)). AU Recommended "Home 100μT" and "Work 500μT". Two styles of meter available. 9V Bat' Req'.

#### BUILT IN SENSOR

Place the head of the meter on or at the radiation source.

Code  
EMF823

#### EXTERNAL PROBE

Same meter but with a directional probe.

Code  
EMF827



### DIGITAL MOISTURE LEVEL METER

An easy to use digital moisture meter designed to measure moisture in wood and building materials. This handheld meter can test levels in sawn timber, plaster, concrete, mortar and many other hard materials. Great for science experiments at schools, or for building inspectors and the handyman looking to monitor damp or moisture ingress around the home. Supplied in a zip up canvas pouch. Requires 9V battery (not included).

Code  
MD1255



### 12V TEMPERATURE CONTROLLER

#### WITH DIGITAL TEMPERATURE DISPLAY

TEMP-12V10A is a digital thermostat based on set-point and hysteresis to control the power supply status of connected loads. With just one relay to wiring a fan or heater, the set-point temperature ranges from -50 to 120°C. Maximum current is 10A. Size: 75x36x86mm. Package includes the temperature controller unit and a temperature sensor.

- Two types of wiring methods, The input power voltage for this temp controller and the load could be different
- The temperature set-point (-50° to 120°) and the hysteresis to determine the ideal temperature range, and the high & low limit to the Temperature Set-point

Code  
TEMP-12V10A







# Tools and Test Equipment

## Temperature

### FOUR CHANNEL THERMOMETER LAB GRADE - LUTRON

#### SD CARD, REAL TIME DATA LOGGER TO WINDOWS EXCEL FILE

- Type K/J/T/E/R/S, Pt 100 ohm, measurement with 4 display.
- Show 4 channels display on the LCD at the same time.
- Offset adjustment for the Type K/J/T/E/R/S measurement.
- Auto temp. compensation for type K/J/T/E/R/S thermometer.
- Real time SD memory card Datalogger.
- RS232/USB PC COMPUTER interface.
- Offset adjustment for the Pt 100 measurement.
- Can default auto power off or manual power off.
- Linear Compensation for the full range.
- Pt 100 ohm : -199.9 to 850.0 °C.
- °C (0.1 degree) / °F (1 degree).
- Type K : -100 to 1300 °C (Optional).
- Type J : -100 to 1200 °C (Optional).

Code  
TM-947SD

Requires Temperature sensors (up to 4) and SD card (for data logging function).



REQUIRES  
TEMPERATURE  
PROBES



SD CARD NOT  
INCLUDED

WINDOWS  
EXCEL FILE



**Lutron**

### SINGLE CHANNEL THERMOMETER - LUTRON

- Large and easy to read 51x30mm LCD
- Measure can be displayed in °C and °F
- Temperature range depends on the type of thermocouple sensor (sold separately)
- in general, it is from -50°C to up to 1300°C.
- High accuracy of 0.1° / 1° resolution
- Optional cable and software to transfer measurement records to PC
- Power by a 9V battery (Not included)

Code  
TM-926

**Lutron**



REQUIRES  
TYPE-K  
PROBES

SOFTWARE &  
DATA CABLE  
OPTIONAL EXTRA



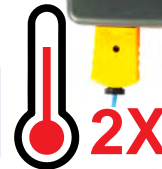
### TWO CHANNEL THERMOMETER - LUTRON

- Easy to read LCD display (44 x 29mm)
- Three display mode: T1 only, T1 and T2, T1 minus T2 (Differential)
- Compatible with Type-K thermocouples
- Measure temperature in °C or °F
- Temperature Range: -100 to 1300°C
- High accuracy of 0.1° / 1° resolution
- Manual and auto data logging to save measurements
- Optional cable and software to transfer measurement records to PC (Not Included)
- Heavy duty case (included)
- DC 9V battery (Not included)
- or power adaptor (Not included)

Code  
TM-925

REQUIRES  
TYPE-K  
PROBES

SOFTWARE &  
DATA CABLE  
OPTIONAL EXTRA



#### USB DATA CABLE

This cable connects the 3.5mm output socket on the meter to the USB terminal on your computer in order to transfer data between your meter and the computer.

Code  
USB-01

Requires Software  
SW-U801-WIN



#### RS232 DATA CABLE

Connect your meter's output 3.5mm to your computer's COM port (9 pin D connector). This cable is an isolated (photo couple) interface cable.

Code  
UPCB-02

Requires Software  
SW-U801-WIN



#### DATA ACQUISITION SOFTWARE

Log, record and transfer data from your meter with this windows® software.

Code  
SW-U801-WIN

SOFTWARE &  
DATA CABLE  
OPTIONAL EXTRA

**Lutron**



### TYPE K THERMOCOUPLE SENSOR -40°C TO 250°C

Ultra fast response naked-bead thermocouple suitable for general purpose Type-K Temperature readings.

Code  
TP01



### TYPE K SURFACE PROBE -50°C TO 400°C

Highly accurate Type K thermocouple probe for temperature range -50°C to 400°C ±0.75% (+0.5°C) accuracy. Ø15x120mm.

Code  
TP-04



### TYPE K THERMOCOUPLE PROBE -50°C TO 900°C

Highly accurate, type K thermocouple probe for temperature range -50°C to 900°C with ±0.75% accuracy. Size Ø3.2x100mm.

Code  
TP-02A



### TYPE K THERMOCOUPLE PROBE -50°C TO 1200°C

Highly accurate & precise, type K thermocouple probe for temperature range -50°C to 1200°C with ±0.4% accuracy. Waterproof Probe head size Ø8x120mm plus 100mm long handle.

Code  
TP-03







## Thermometers

### PROBE THERMOMETER LAB GRADE - LUTRON

#### HAND CALIBRATED INSTRUMENT CERTIFIED ACCURACY <0.1%

Type K thermocouple is embedded in the unit ready to use. High accuracy measurement which displays temperature to 0.1°C, IP67 waterproof protection, pocket size, and easy to use. The meter has been calibrated by equipment to ensure high accuracy measurement using the ISO9001 standard. Professional grade. Not for medical purposes. Comes with a tough carry case. Needle tip (shown with protective cover). 145mm long.

- Type K thermocouple embedded in the probe tip
- Measure temperature in °C or °F
- Temperature Range: -40°C to +230°C
- High accuracy of 0.1° / 0.1° resolution
- IP67 water proof long-life construction
- LCD display can be flipped for reading
- Data hold mode to freeze the display
- Auto power off save battery life
- 4x AAA battery (Not included)



**Lutron**

Code  
PTM816

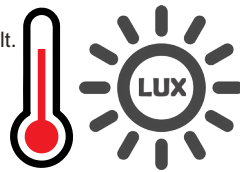


### LIGHT METER + TYPE K/J THERMOMETER

#### SD CARD, REAL TIME DATA LOGGER

After measuring your data, just take out the SD card from the meter and plug it into the computer, it can download all the measured values with the time information (year/month/date/hour/minute/second) to the Excel® file directly, then the user can make further data or graphic analysis by themselves. Sampling from 1 second to 1 Hour.

- 3 ranges, 2,000/20,000/100,000 LUX.
- LUX & Foot Candle unit selection with default.
- Auto range for light measurement.
- Spectrum of photo sensor meets C.I.E..
- Zero adjustment by push button.
- Type K or Type J compatible
- Separate LUX probe
- RS232/USB PC interface.
- Real time SD card Datalogger.
- SD card 16GB (Not Included).
- LCD with green light backlight
- Data hold, record max. and min.
- LSI Micro processor circuit
- Powered AA x 6 batteries or
- DC 9V adaptor (Not included).



SD CARD NOT INCLUDED



**Lutron**

Code  
LX-1128SD

### TYPE K TEMPERATURE SENSOR - BANANA PLUGS

Measurement range: 0° to 200°C.  
4mm Banana plugs for any compatible Type-K meter

Code  
TP207



## Infrared Thermometers

### INFRARED OBJECT THERMOMETER 305°C

#### OBJECT-ONLY TYPE WITH LED OR LASER SPOT GUIDE

Using Infrared wireless technology designed for non-contact thermometer can be used to measure the surface area temperature of an object's target region. The meter has been calibrated to ensure high accuracy to the ISO9001 standard. Supplied with leather case, operational manual, emissivity table. Available with an LED or more accurate Laser spot indicator. Not suitable for medicals.

- Range:-30 to 305°C
- Measure in °C or °F
- 0.5° resolution
- Distance factor: D/S
- Trigger with data hold
- Backlight LCD (29 x 33mm)
- Shows temp & emissivity
- LED or Laser target guide
- DC 9V Batt. (Not included)

Type Code  
LED TM-956  
Laser TM-958

**Lutron**



TM956

TM958

### INFRARED OBJECT THERMOMETER - PRO 1000°C

#### OBJECT-ONLY TYPE WITH LED SPOT-LIGHT GUIDE

This thermometer measures temperature using an IR sensor. High 50:1 Distance to Spot ratio. The meter has been calibrated by equipment to ensure high accuracy measurement using the ISO9001 standard. Supplied with a rugged carry case, and 2x AAA batteries, operational manual, emissivity table. An optional thermocouple probe is required if the user wants to use the thermocouple to take temperature measurements.

- Range :-60 to 1000°C
- Plus K Type probe socket (Optional TP01, etc.)
- Measure °C/°F with Min, Max, Differential, Average mode
- High accuracy of 0.1 / 1° temperature resolution
- Distance factor: D/S: ~ 50:1 (D - Distance, S - Spot)
- Dual laser shows spot size for better targeting
- Easy to operate - Push button, release with data hold.
- Backlight LCD display (31 x 43mm)
- High/Low Temperature alarm
- 2x AAA battery (included)

Code  
TM-969



NOT FOR HUMANS



LOOKING FOR BODY TEMPERATURE?

See PPE  
Page 07-102



# Tools and Test Equipment

## Thermometers

### THERMOMETER WITH WIRED REMOTE SENSOR

- Indoor temperature range: -9.9°C to 50°C
- Outdoor temperature range: -50°C to 70°C
- Measurement in Celsius and Fahrenheit
- Size: 95x140x22mm
- Outdoor temperature sensor probe cable: 3M
- Requires 1x AA battery (Included)

Code  
QM7310



### THERMOMETER WITH WIRELESS REMOTE SENSOR

#### TWO TEMPERATURE READINGS

- Transmission standard : UHF 433MHz
- Indoor temperature range: 0°C to 60°C
- Outdoor temperature range: -40°C to 60°C
- Batteries Required : 4x AAA Batteries, sold separately

Code  
XC0321



### THERMOMETER HYGROMETER IN / WIRELESS OUT

#### MEASURE TEMPERATURE AND HUMIDITY

This thermometer/hygrometer can measure indoor and outdoor temperature, as well as relative indoor humidity. This product includes a receiver unit that has a large, and easy to read LCD and a sensor unit. Additional sensor units are available separately (See XC0324). You can The receiver is capable of receiving information from up to 3 sensor units. Requires 2x AA and 2x AAA Batteries.

- Transmission frequency : UHF 433MHz
- Up to 100 metres transmission range
- Expandable up to 3 external sensors
- Indoor temperature range (base unit): 0°C to 60°C
- Outdoor temperature range: -45°C to 65°C
- Batteries are required: 2x AA and 2x AAA
- More sensors available (XC0324)

Code  
XC0322



#### EXTRA THERMOMETER SENSOR TO SUIT XC0322

XC0322 Base (Not included) can receive up to 3 channels of sensors available separately.

Code  
XC0324



## Scale Weight

### 600g DIGITAL SCALE

#### AUTO CALIBRATION CAPABILITY

Highly accurate and precision digital scale, the art of measurement with five digit (including annunciator) back light display. Auto calibration capability. Auto power off. Exclusive microprocessor LSI-circuit, high reliability. Durable & portable housing plastic case.

- 600g measuring capacity with 0.1 g resolution.
- High precision Load Cell Transducer.
- LSI-circuit exclusive microprocessor.
- Full capacity tare function capability.
- Net weight, gross weight display.
- With counting scale function.
- Auto calibration capability.
- Gram or pound display.

Code  
GM-600G



### 3KG DIGITAL SCALE

#### EXCLUSIVE LSI-CIRCUIT

Highly accurate and precision digital scale, the art of measurement with five digit (including annunciator) back light display. Auto calibration capability. Auto power off function. Exclusive microprocessor LSI-circuit, high reliability. Durable & portable housing plastic case.

- 3000g measuring capacity with 1g resolution.
- High precision LOAD CELL transducer.
- Use exclusive LSI-circuit microprocessor.
- Full capacity tare function capability.
- Net weight, gross weight display.
- With counting scale function.
- Auto calibration capability.
- Gram or pound display.
- Back light LCD display.

Code  
GM-3KG



### 5KG DIGITAL SCALE RS232

#### RS232 INTERFACE

Highly accurate heavy-duty digital scale with five digit. Back light display. Auto calibration at power-on. Auto power off function. Exclusive microprocessor LSI-circuit. High reliability. Durable metal platter. Battery powered or DC 9V adaptor power supply (Not included).

- Microprocessor circuit with high accuracy & better performance.
- High resolution & wide measuring capacity, 5,000g x 1g.
- Large LCD display, 18 mm ( 0.7" ) digit size, easy read out.
- Gram or Oz display unit, select by the internal slide switch.
- Built-in self calibration system, high precision.
- Heavy duty ABS housing plastic case.
- With computer serial data output.
- Data Bus RS-232 serial output, 9600 baud rate.
- Exclusive Microprocessor LSI circuit.

Code  
GM-5000







## □ Multimeters - Other

### DIGITAL MULTIMETER PALM SIZED UNI-T

#### AC/DC VOLTAGE / DC CURRENT / RESISTANCE / BATTERY TEST

Tough, can withstand 2 meters drop. The new LCD display layout. CAT II 600V. Battery test for 1.5V/9V/12V. 131x95x58mm

This compact and powerful entry level digital multimeter allows you to measure AC and DC voltage (600V), DC current at up to 10A, resistance (20MΩ). It can also do battery test for 1.5V/9V/12V batteries, diode test, continuity test. CAT II 600V safety rating. Clear and simple to read LCD display layout. Includes 2x test probes, 2x 1.5AAA battery and holster. Size: 131x95x58mm Includes leads.



Code  
UT33B+

### DIGITAL MULTIMETER TRUE-RMS UNI-T

UT139 series digital multimeters are CAT III 600V digital multimeters designed for electricians and technicians. It supports AC/DC voltage, current, resistance, capacitance, frequency and temperature measurements. Its NCV feature can effectively check electrical status through measuring EM field intensity. Totally over-load protection and unique structural design make it new type of multimeter with high performance/ price ratio and a best choice for electricians used in electrical maintenance and repairing.

- Auto range meter True RMS measurement
- Manual range over-ride, min/max/relative.
- Varied frequency VFC voltage measurement
- Measure large capacitance up to 100mF
- AC/DC current, voltage, frequency (10MHz), temperature, resistance, diode, continuity.
- NCV Non Contact Voltage range
- Requires 2x 1.5V AA batteries
- Features soft rubber protective holster
- 2 protection fuses, overload protected
- Requires 2x AA batteries
- Safety Rating: CAT III 600V
- 58x36mm LCD backlit 6000 count
- 175x81x49mm, test leads, Temp probe



Code  
UT139C



### MULTIMETER PEN NCD/SPT DETECTOR - MEET®

#### NON-CONTACT AC DETECTION / SINGLE PROBE TEST

This pen size digital multimeter detector can be use to measure AC and DC voltage (Up to 300V max.), resistance (Up to 20MΩ), diode test, continuity check. True RMS measurement. 2000 counts LCD.

NCD: non-contact AC detection Numerical display AC signal strength.

SPT: single probe test to safely identify live/hot, neutral and ground.

Compact and light with 2x 1.5V LR44 batteries. Size: 161x24x24mm.

- Convenient Pen Sized Multimeter 160mm
- Cordless AC voltage detector (metered)
- Single Probe Test identify Live/Hot, ground, etc.
- AC and DC Voltage measurement
- Auto or Manual range selection



Code  
MS-DTP1A

## □ Multimeters Analogue

### ANALOGUE MULTIMETER

This multifunctional analogue multimeter is an accurate and safe handheld meter that comes in a robust protective holster. It offers accurate and reliable measurement of DC and AC voltage, DC current, resistance, decibels, diode, transistor hFE, LED, diode, continuity test and capacitance with very high sensitivity quality movement. Powered by batteries 2x AAA and 1x 9V (sold separately). 160x105x40mm

Code  
MT-2017



### ANALOGUE MULTIMETER

Traditional meter with total protection and a patented design perfectly fit for use in the work shop, DIY at home, education, amateur or hobbies. 152x100x38mm

- 80x60mm Large scale analogue meter
- Reflective parallax strip
- Stand Rack Attached For Reading Easily
- Taut Band Movement with unique feature to absorb vibration and non-friction to avoid the distortion of accuracy and a long-term life time.

Code  
DEM960



### DIGITAL MULTIMETER PALM - MEET®

#### NCD/SPT + OPTIONAL TEMPERATURE PROBE

- True RMS up to 500Vac/dc
- Super Compact Sized 100x80x33mm
- Cordless AC voltage detector (metered)
- Single Probe Test identify Live/Hot, ground, etc.
- AC and DC Voltage measurement
- AC and DC Current  $\mu$ A to 10A max
- Auto or Manual range selection
- Ohm (0-20MΩ) and Diode test
- Relative measurement and hold
- 2000 count 3.5 digit LCD display
- Power switch with Auto-Off



Code  
MS-2072T

#### OPTIONAL TEMPERATURE PROBE -50 TO 1000°C

Code  
TP207







# Tools and Test Equipment

## Multimeters - Lutron

### LUTRON MULTI-METERS



www.lutron-electronic.com

Lutron is an ISO-9001 approved company and was founded in 1976 and has grown to become the leading manufacturer of Test and Measuring Instruments of Taiwan. Various approved and pending patents in Taiwan, Germany, USA, China, etc. make Lutron a World-Class manufacturer. Exportation to more than 65 countries, Lutron's reputation for stable, durable and reliable products is renowned world-wide. A professional instruments manufacturer with a comprehensive product range at a competitive price.

### 3.5 DIGIT MULTIMETER - LUTRON

This accurate measuring instrument is modern in design & functions. Many features include 10M input, hFE, up to 20 amp AC/DC current, diode test, large 18mm LCD Display, over V protection and rugged compact construction makes this multimeter a valuable instrument. Safety lead system compatible. Yellow colour. Carry case, hFE test lead & rubber holster optional.

RANGES;  
DCV (+/- 0.8%) 200mV to 1000V  
ACV (+/- 1.0%) 200mV to 750V  
DCI (+/- 1.0%) 200uA to 10A ACI  
(+/- 1.2%) 200uA to 10A Resistance  
200 to 20M HFE and DIODE TEST  
180x85x35mm

Code  
DM9080



### SAMPLING MULTIMETER - LUTRON

#### WITH PC SOFTWARE

Looks and operates like a normal multi-meter, but is actually a technician to computer interface!

The included CD-Rom (Windows®) gives you the power of expensive data-logging equipment. Data is sampled (System Sample Rate 2s to 3600s) and stored in a popular database format for easy external application uses. Viewable on screen in digital, analogue and time graph formats. Excellent for intermittent faults, research, development, remote monitoring, or just as a general purpose meter. Includes attache' Case, software, D9 com RS232 lead, etc.

Code  
DM9680



#### RUBBER CASE

Code  
DMPH01



#### MULTIMETER CASE

Code  
CA03

190x90x50mm



### 3.5 DIGIT COMPACT MULTIMETER - LUTRON

DCV: (1M $\Omega$ )2/20/200/600V  $\pm$ 0.8%  
ACV: (450k $\Omega$ )200/600V  $\pm$ 1.2%  
AC/DCI:2m/20m/200m/2A  $\pm$ 1.5%  
OHMS: 200/2k/20k/200k/2M/20M $\Omega$   $\pm$ 1%  
Diode test Full NPN/PNP hFE  
measure 2.5mA power consumption  
Size: 120x72x37mm

#### DEPENDABLY RELIABLE

Although this meter is small and inexpensive, the features, accuracy & durability are that of a quality full sized meter. Includes DC and AC current with 2 Amp range (protected) 20M $\Omega$ , Diode and hFE. Ideal for use as a second meter for the tool box etc. With Test leads, etc. Fits in your pocket. 3 1/2 Digit 12mm Display.

Code  
DM9020



### DIGITAL CAPACITANCE METER

LSI-circuit allows high reliability and durability. Accuracy is provided from a crystal time base and fast sampling. Overall a precision instrument in portable form. 3.5 digit. Optional carry case available. CA03. Rubber holster. DMPH01.

RANGES:  
200pF 0.1pF  $\pm$ 0.5%  
2nF 1pF  $\pm$ 0.5%  
20nF 10pF  $\pm$ 0.5%  
200nF 100pF  $\pm$ 0.5%  
2uF 1000pF  $\pm$ 0.5%  
20uF 0.01uF  $\pm$ 0.5%  
200uF 0.1uF  $\pm$ 0.5%  
2000uF 1uF  $\pm$ 1.0%  
20,000uF 10uF  $\pm$ 2.0%

Code  
DM9023





## Multimeters Lutron

### DIGITAL MULTIMETER - LUTRON DM-9950

#### FULLY AUTO AC/DC, RESISTANCE WITH Hz & CAPACITANCE

Lutron DM-9950 Digital Multimeter auto/manual with smart functions. AC/DC Current, Voltage, Resistance, Capacitance, Frequency, continuity, diode. 65x48mm LCD. 190x88x40mm test leads.

- 6000 counts A/D, high resolution.
- Measures ACV, ACA, DCV, DCA, ohms, continuity, Hz, Capacitance, Diode with data hold.
- Smart operation intelligent function: "V", "Ω", "uA", "mA", "A".
- Built-in fuse for 10 A, mA, uA
- 10M ohm input impedance
- Built-in overload protection
- Operates from one DC 9V battery.
- Auto shut off to save battery life.
- Meet CAT III 1000V, CAT IV 600V.
- Includes black and red test leads.

Code  
DM-9950



### DIGITAL MULTIMETER TRUE RMS - LUTRON

#### AUTO RANGE

True RMS Auto-Range Multimeter. CAT III-1000 V category, Auto range, REL, Capacitance Hz, Duty, ACV, ACA, DCV, DCA, Ohms.  
DCV (+/- 0.5%): 400mV to 1000V  
ACV True RMS (+/- 1%): 400mV to 1000V  
DCA (+/- 0.5% to 1.5%): 0.4mA to 10A  
ACA True RMS (+/- 0.5% to 1.5%): 0.4mA to 10A  
Resistance: 400Ω to 40MΩ  
Capacitance: 50μF  
Frequency: 4kHz to 4MHz  
Diode and continuity tests

Code  
DM-9961



### DIGITAL MULTIMETER + BARGRAPH - LUTRON

Measures voltage(AC/DC) up to 1000V, current(AC/DC) up to 10A, resistance up to 40MΩ, frequency 40MHz, capacity 40mF, temperature -20°C - 750°C. LCD display with 4000 counts with bargraph. Diode test, continuity test. Automatic and manual ranging, relative measurements. Min, Max, Data hold. CAT II 1000V. 88x185x40mm 2x AAA.

Code  
DM-9960

#### OPTIONAL TEMPERATURE PROBE -50 TO 1000°C

Code  
TP207



### 4.5 DIGIT LCR MULTIMETER - LUTRON

#### INDUCTANCE, CAPACITANCE, AND RESISTANCE

Intelligent microprocessor circuit, professional instrument. 19999 and 1999 counts dual LCD display + bargraph. Auto LCR smart check and measurement.  
L: 1.00 uH to 2000.0 H (1.0-1.5%)  
C: 1.00 pF to 2000.0 uF (1.0-2.0%)  
R: 1.00 ohm to 200.00M ohm (0.8-1.5%)  
Series/Parallel modes are selectable.  
Five test frequencies are available: 100/120/1K/10K/100KHz 0.6Vrms  
Ls/Lp/Cs/Cp with D/Q/ESR Parameter.  
LCD Display with backlight.  
Alligator test leads included.  
DC 9V battery required.

Code  
LCR9183



OPTIONAL  
SMD  
ADAPTOR  
SMDA-22



#### HIGH-SPEC MODEL

L: 200.00 uH to 2000.0 H (0.5-1.0%)  
C: 2000.0 pF to 2.000 mF (0.5-1.0%)  
R: 20.000 ohm to 200.0M ohm (0.5-1.0%)

Code  
LCR-9184



PROBES  
SOLD  
SEPARATE

OPTIONAL  
SMD  
ADAPTOR  
SMDA-22



#### SMD TESTER

Code  
SMDA-22

#### SMD TEST CLIP

Code  
SMDC21



SMDA-22



SMDC-21



#### PC INTERFACE

Description	Code
USB Data Cable	USB-01
RS232 Data Cable	UPCB-02
Windows Software	SW-U801-WIN







# Tools and Test Equipment

## □ Multimeters - Mastech

### MASTECH AUTO-RANGING DIGITAL PEN MULTIMETER

- Pen-type design with a Retractable Tip Probe
- Built-in non contact voltage detector with sensitivity adjustment
- Auto-range and manual range AC/DC voltage and Resistance
- Diode check and audible continuity test
- With data hold and max hold features.
- 2000 counts 20mm LCD Display.
- DC Voltage 200mV/2V/20V/200V/600V (Accuracy:  $\pm 0.7\%$  rdg +2)
- AC Voltage 200mV/2V/20V/200V (Accuracy:  $\pm 0.8\%$  rdg +3),
- AC Voltage 600V (Accuracy:  $\pm 1\%$  rdg +3)
- Resistance 200 $\Omega$  - 20M $\Omega$  (Accuracy:  $\pm 1\%$ )
- Diode test: 2.7V. Continuity buzzer  $< 50\Omega$
- Safety probe plus 4mm lead with alligator clip attachment
- 2x1.5 AAA battery, carry case and instructions included.
- Compact 208x38x29mm.



Code  
MS8211

**MASTECH®**

### MASTECH POCKET SIZE DIGITAL MULTIMETER

This handheld digital multimeter allows the user to test voltage, current, resistance, temperature. The meter also features data hold, continuity buzzer, battery tester and transistor hfe. It is RoHS compliant; CAT III 600V approved. This package includes a 9V battery, test probes with protective cap and a hFE adaptor.

- Display: 2000 counts (updates 2-3/sec)
- Manual Range
- Auto Power Off
- Data hold
- Diode: 2.8V
- Continuity Buzzer:  $< 50\Omega$
- Low Battery Display
- Transistor hFE: 0~1000



Code  
MS8321A

**MASTECH®**

### MASTECH POCKET SIZE DIGITAL MULTIMETER

#### MANUAL RANGE WITH FREQUENCY AND TEMPERATURE

This pocket size digital multimeter allows the user to test voltage, current, resistance, temperature and continuity. The meter also features non-contact voltage detection, data hold and back light to assist with the measurement. It is RoHS compliant; CE ETL CAT II 600V approved. 9V battery, test probes with protective cap and a K-type thermocouple are included. Soft plastic boot protects from drops and bumps.

- Pocket size only 140x67x30mm 112g
- Test AC/DC voltage and resistance
- Test DC current up to 10 amps
- Non contact voltage detection LED indicator  $< 30\text{mm}$
- Diode check 2.7V and continuity test  $< 50\Omega$
- With data hold and back light buttons
- 2000 counts LCD Display.

Code  
MS8233C



### DIGITAL MULTIMETER MY74 MASTECH

#### PLUS TEMPERATURE CAPACITANCE & TRANSISTOR

This full-featured multimeter allows the user to test voltage, DC & AC current, resistance, frequency, capacitance, temperature, transistor gain, diode and continuity. The meter also features overload protection, data hold, auto power off, low battery display. It is RoHS compliant; CE ETL CAT II 600V approved. Includes 9V battery, component adaptor, a K-type thermocouple and safety test probes. The case is protected by an outer bump skin that has an in-built stand and can hold or store the probes.

- Test AC/DC voltage and resistance, continuity buzzer.
- Test AC/DC current up to 10 Amps
- Test capacitance (100 $\mu\text{F}$ ), frequency (20KHz) and temperature
- Diode check and continuity test with audible buzzer
- hFE transistor gain measurement with component adaptor included
- Full sized 188x93x50mm

Code  
MY74CE10

**MASTECH®**





## Multimeters - Meterman

### AMPROBE POCKET DIGITAL MULTIMETER

Large 0.7" 3.5 digit display  
Meterman XP Series combine features and accuracy CAT-III safety rating  
2000 Count auto-ranging  
Magne-Grip holster  
Built-In Non-Contact Voltage detection!  
Input warning beeper  
Safety test leads  
Continuity beeper  
17 ranges inc. Diode test.  
DCV(+/-0.8%) 200mV to 1000V  
ACV(+/-1.2%) up to 500V  
DCI(+/-1.2%) 200uA to 2A  
And Resistance 200Ω to 2MΩ  
155x72x32mm

Code  
DM5XP

**AMPROBE**



### AMPROBE DMM WITH LOGIC & ACI RANGES

Large 0.7" 3.5 digit display Warning & continuity beeper Meterman XP Series combine features and accuracy CAT-III safety rating 2000 Count auto-ranging Magne-Grip holster  
Built-In Non-Contact Voltage detection!  
Safety test leads. logic probe, Diode test, AC/DC Current 29 ranges inc. DCV(+/-0.5%) 200mV to 1000V ACV(+/-1.0%) 200mV to 750V AC/DCI(+/-1.2%) 200uA to 2A Resistance 200Ω to 2000MΩ  
155x72x32mm

Code  
DM15XP

**AMPROBE**



### AMPROBE TRUE-RMS PROFESSIONAL DMM

- Autoranging 3999 counts
- 3-3/4 digit LCD, with backlight
- 41-segment analog bar graph
- Display update rate: 2 per sec.
- True-RMS digital multimeter
- Temperature probe included
- Auto power off to save battery life
- Min/max, data hold and range lock
- Easy battery and fuse access
- Magne-Grip™ Holster with magnetic hanging strap

Code  
34XR-A



### AMPROBE MINI-MULTIMETER FULLY-AUTOMATIC

#### INDUSTRIAL GRADE 4 DIGIT 6000 COUNT

CAT-III rated Pocket compact 10mm thick mini-meter from the best. 4 Digit Auto-Range full featured. 6000 Count updates 5 times a second. One button function control. AutoTect: Fully automatic. Protected. VolTect: Non-contact high voltage detector for added personal safety. Supplied with protective silicone boot & carry case. Leads attached. The most advanced convenience in metering available today in an easy to use super compact package.

Code  
PM55

**AMPROBE**

### AMPROBE LARGE DURABLE MULTI-METER CASE PROFESSIONAL GRADE

Heavy-duty construction. Tough nylon material. Tear proof protection. Double lined and padded. Adjustable hand strap. Meter Leads compartment. Meter & Leads not included. Easily holds 100x40x200mm for Small medium or Large meters.

Size Code  
200x100x40mm CA05A

**AMPROBE**



### AMPROBE TRUE-RMS PROFESSIONAL - LCR

10,000 count 4 digit backlit display with analogue bar graph. Includes rubber holster, hanging strap, safety leads, etc. Full manual/auto-range. Peak hold, min max avg. Excellent component & logic test instrument. Field, factory or workshop. Relative and dBm ranges for easy CCT analysis. CMOS/TTL Logic test. DCV (±0.25%) 1000V ACV True-RMS 750V ACI/DCI 10A Ω (+/- 0.5%) 1KΩ-40MΩ Frequency 10MHz Capacitance 40nF - 400μF Inductance 4mH - 40H Continuity & Diode test. Pro Grade from Meterman CAT-III, CAT-IV rated.

Code  
DM37XR

**AMPROBE**



### AMPROBE TRUE-RMS INDUSTRIAL DMM - RS232

10,000 count 4 digit backlit display with analogue bar graph. Inc. rubber holster, hanging strap, etc. A truly professional meter. Full manual/auto-range. Peak hold, min max avg. DCV (±0.25%) 1000V ACV True-RMS 750V ACI/DCI 10A 4-20mA Loop-I % Temp' -20°C-1300°C (+/- 0.5%) 1KΩ - 40MΩ Frequency 10MHz Capacitance 400μF Continuity & Diode test. CAT-III, CAT-IV rated.

Code  
DM38XR

**OPTIONAL RS232 INTERFACE**  
PC Interface with software.

Code  
38SW



**AMPROBE**

### FULLY-AUTOMATIC

6000 Count  
1/5 sec. Update  
Non-contact detect  
AC/DC Volts (600V)  
AC/DC current (2A)  
Capacitance 2000μF  
Frequency 30KHz  
Resist. Diode. Buzz.  
113x53x10mm







# Tools and Test Equipment

## Multimeters - Kyoritsu

### PEN DIGITAL MULTIMETER - KYORITSU

#### PROFESSIONAL GRADE TOOL BY KYORITSU

Compact in Size, Light in Weight, Simple in Use and Full Featured! Double molding provides comfortable with good feeling in your hand. Built-In LED Penlight illuminates brightly the point to be measured. Backlight LCD display is highly visible, switchable for power save. Economical design & Auto power-off function saves the battery life. Unique wrapping mechanism for test lead in the rear side compartment. Unique retractable probe for tip protection mechanism and safety. EVERY range is fully protected against overload voltage of 600V. Conforms to International safety standards IEC61010-1:2001 CAT-III. 4000 Count For digit display shows a maximum reading of 3999. Autorange with manual select over-ride. Data hold for away reading. Includes Voltage (600Vac/dc) Ohms, Diode, Continuity buzzer, Capacitance (50n-100µF), Frequency (5Hz-200KHz), Duty Cycle (0.1%-99.9%), Battery status indicator, 190x40x30mm 100g (Inc Bat.)

Code  
KEW1030



4 DIGIT DISPLAY  
CAPACITANCE  
FREQUENCY  
VOLTAGE, etc.



ONE HAND OPERATION  
LED LIGHT IN-BUILT



### DIGITAL MULTIMETER - KYORITSU

This powerful Kyoritsu digital multimeter KEW1021R allows you to measure voltage, AC or DC current, resistance, continuity, diode testing, capacitance, frequency, duty and more. True RMS reading. This meter includes test leads, ceramic fuse, carrying case, flat-type probe holder and a wing type holder. Suitable for electricians and tradies.

- Elegant and easy-to-use cabinet
- Large backlit display with 6000 counts
- Enhanced current measuring function using an external clamp sensor
- Tough case with probe holders
- Accurate reading with True RMS
- Safety Standard IEC 61010-1 CAT IV 300V / CAT III 600V

Code  
KEW1021R



TRUE RMS

### AC/DC DIGITAL CLAMP METER - KYORITSU

This AC/DC digital clamp meter complies with international safety standard IEC 61010-1 CAT IV 600V. It is suitable for measuring AC/DC voltage, current and resistance in low and high circuits. It can also be used for continuity test, capacitance test, temperature measurement (Requires temperature probe). True RMS enables an accurate measurement. It also has data hold function, Min/Max function, peak hold function, non-contact voltage function, etc. Double molded main body for comfortable single handed grip. Includes Carry case, 2x AAA batteries and 2x test leads.

Code  
KEW2046R



### 1000A ACA CLAMP METER DIGITAL - KYORITSU

#### TRUE RMS READING - KYORITSU

The professional clamp meter is ideal for measuring current loads up to 1000 A AC, High accuracy True RMS reading. Includes test leads for measuring ACV (Up to 600V), Continuity and Resistance. Tear drop jaw design to allow easy access in crowded cable areas. A carrying case is also included.

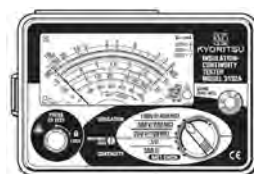
Code  
CM2117R



### MEGA-OHM INSULATION TESTER - KYORITSU

Made by Kyoritsu. Analogue insulation & continuity tester. Dust & splash proof knock resistant case. Three test ranges: 250V / 100M ohm 500V / 200M ohm 1000V / 400M ohm. Continuity test 3 ohm & 500 ohm. Audible live circuit indication. Overload protected. Meets all regulatory requirements. (CE, IEE, IEC, VDE, etc.) Compact, convenient, competent instrument. 106 x 160 x 72mm Includes leads.

Code  
ICT3132





## □ Multimeters AC Clamp

### 1000A DCA/ACA CLAMP METER - LUTRON

#### FULLY AUTO AC/DC, RESISTANCE WITH Hz & CAPACITANCE

- "Smart" measurement up to 1000 Amps AC/DC
- 32mm Jaw Opening (Tip)
- "Smart" measurement of 1000 Volts AC/DC
- Cat III 1000V CAT IV 600V
- Resistance, Continuity, Frequency, Capacitance
- Data Hold
- Backlit Display

Code  
CM-6146



### 600A DCA/ACA MINI CLAMP METER - LUTRON

- High power 600Aac and 400Adc with extra ranges for an excellent all-purpose meter.
- Wide ranges clamp on current measurement both for ACA & DCA. Data hold button.
- Measurement for ACA, DCA, ACV, DCV, Ohms, Diode, Hz, Continuity beeper.
- Design meet IEC 1010 CATIII 600V safety requirement.
- Overload protection circuit is provided for all ranges.
- LSI circuit provides high reliability and durability.
- Pocket & slim housing case, easy carryout.
- 4000 counts, Auto range & multi-functions.
- Compact & heavy duty ABS housing .
- Water resistance for the front panel.

Code  
CM9940



### 2000A DCA/ACA CLAMP+DMM - LUTRON

#### EXTRA HIGH POWER PROFESSIONAL TRUE RMS

- 2 in 1 Deluxe unit with clamp meter + Digital multimeter.
- Meet IEC 1010 CATIII 1000V safety requirement.
- True rms reading for ACV & ACA measurement.
- 4000 counts, Auto range, multi-functions for
- ACA, DCA, ACV, DCV, Ohms, Capacitance.
- Hz, Diode, Duty cycle and continuity check.
- LSI circuit provides high reliability and durability.
- 2KAac and 400Adc clamp on current ranges
- 4 ranges (400 uA, 4000 uA, 40 mA, 400 mA)

Code  
CM-9930



### NON-CONTACT PHASE ROTATION TESTER KYORITSU

#### COMPLIES WITH IEC 61010-1 CAT III 1000 V & CAT IV 600 V

The Kyoritsu KEW8035 non-contact phase rotation tester can indicate a presence of live line and phase sequence with the equipped LED and buzzer while clipping the 3-phase line over the jacket of a conductor. The unit requires no metal contact, ideal for safer and faster testing. It has a voltage range of 70V to 1000V. KEW8035 uses a combination of LED and audible tones to indicate phase direction. Green LEDs are used for clockwise direction with an intermittent tone. Red LEDs are used for anti-clockwise direction with a continuous tone. It includes a carrying case, 4x AA alkaline batteries, and an instruction manual.

- The insulated crocodile clips can clip insulated cables from  $\phi 2.4$  to 30mm.
- Phase rotation is indicated by the rotary illumination of LEDs and logical audible tones.
- The instrument can be fixed to a metal panel via the magnet on the back side.
- Wide measuring range for 3-phase installations from 70V to 1000V AC.
- Super brightness function permits clear LED's indication also in sunshine.
- Complies with IEC 61010-1 CAT IV 600V and CAT III 1000V.

Code  
KEW8035







# Tools and Test Equipment

## □ Appliance AC Mains Test

### RCD TESTER UNI-T

RCDs (Residual Current Devices) are designed and specified to protect people and equipment from the danger of electrical faults. Due to their inherent 'safety' nature, RCDs need to be tested on a regular basis to ensure their correct operation. The CZ20053 is a fully featured digital RCD tester that provides electricians with all the features required to test and ensure correct functionality of RCDs. Multiple trip current ranges, 0° & 180° phase testing, and high accuracy ensure testing is complete. The tests performed are all that is required for determining compliance to AS/NZS3760:2010 for PAT testing requirements. Includes Test Lead & Carry Case. 160x100x71mm

- Operational Voltage (Freq) 195VAC - 253VAC (50Hz)
- Test Current 10mA, 20mA, 30mA, 100mA, 300mA, 500mA ± (2% +8 dig)
- Current Multipliers x 1/2, x 1, x 5
- Trip Time Ranges 40 - 3000ms (varies with Current/Multiplier) ± (0.6% +4 dig)
- Trip Time Resolution 1ms
- Auto Ramp 10mA/30mA/100mA/300mA/500mA ± (2% +8 dig)
- Data Hold
- Weight 400g
- Dimensions 160 x 100 x 71 mm
- Accessories Test Lead & Carry Case

Code  
CZ20053

**UNI-T**



### RCD & INSULATION TESTER UNI-T

#### FULL FUNCTION OF TESTS FOR PROFESSIONAL ELECTRICIANS

The CZ20073 is a newly designed digital multi-functional testing meter using large-scale integrated analog/digital circuit and Micro-processing chip. It is highly accurate, reliable, and user-friendly. It mainly measures RCD parameters including Test current and Trip Time. Meter also includes, low-resistance Earth continuity, insulation resistance measurement (250.500/1000V), 440V DC & AC Voltages, etc. The versatile functionality, high accurate features and ease of use make it widely used and an ideal tool to keep around for maintenance, inspection and testing RCD, etc. The CZ20073 complies with the CAT III 600V over voltage standard. The package includes test lead, battery, alligator clips and carrying bag. 160x100x71mm

Code  
CZ20073

**UNI-T**



### MULTIFUNCTION VOLTAGE TESTER MULTIMETER UNI-T IP65

#### LCD METER & LED VOLTAGE DISPLAY FOR AC/DC VOLTAGE & CONTINUITY

This handheld electrical tester allows the user to test the voltage, continuity, polarity and the phase rotation of electrical equipment. With IP65 water and dust protection in a rugged design, it is suitable for use in harsh conditions such as at a worksite. These testers have been designed with the knowledge and experience of a test equipment company that has provided tools for the electrical trades for many years.

- Voltage: 12 - 690 V AC/DC
- Continuity: Audible & visual indication
- Phase Rotation: 3 phase detection
- Polarity: Positive & negative
- Rugged: IP65 preventing water and dust ingress
- Torch: In-built for working in dark locations
- IEC61010: Cat IV 600V
- GS38: Fully compliant

Code  
UT15C

**UNI-T**



### POWER POINT TESTER - CABAC

#### WIRING & RCD

A handy low-cost unit that tests a power outlet for polarity, earth connection, incorrect wiring and tests earth leakage circuit breakers. To use the unit, simply plug in and compare the neon lights on the front panel with the diagram on the front of the instrument, and it will test the wiring on the power point. To test an earth leakage circuit breaker, first check the wiring as above, then turn the rotary switch to the mA range. To trip the RCD press the test button.

- Low cost for a big result
- Very simple and easy to use
- Rugged and compact design
- Identifies six wiring conditions
- Integral plug fits straight into the socket
- Push button RCD trip test

Code  
PPT-V2





## MULTIFUNCTION INSTALLATION TESTER

### FULL FUNCTION METER WITH TESTS FOR ELECTRICAL INSTALLATIONS

All round multifunction electrical tester for professional electricians and installers. Packed with features with all the main functionality you need for any electrical installation. This unit can be used for the following tests:

- Insulation Resistance Testing
- Continuity Testing
- Line/Loop Testing
- Non-trip Loop Testing
- RCD Testing
- Phase Rotation Testing
- Voltage Testing

Code  
CZ20500



## PORTABLE APPLIANCE TESTER AEGIS

### Class 1 & 2 Approved

Earth bond and insulation tester. Australian designed and manufactured for testing electrical appliances to power electrical safety Standards of AS/NZS 3760. Compact, portable, drop & Weather Proof. Includes Leads, etc. Battery operated portable. 235x190x110mm. 6x "AA" inc.

Code  
CZ5000



AS/NZS  
3760



## PORTABLE APPLIANCE TESTER KIT - AEGIS

### Class 1 & 2 Approved

Earth bond and insulation tester. Australian designed and manufactured for testing electrical appliances to power electrical safety Standards of AS/NZS 3760. Single button testing. Compact, portable, drop & Weather Proof IP67. Two in one kit includes famous Patrol battery powered portable appliance tester features with an earth leakage tester. Includes Leads, etc. Mains or battery operated. 235x190x135mm. 6x "AA" inc.

Code  
CZ5001

KIT WITH  
EARTH  
LEAKAGE  
TESTER



AS/NZS  
3760

## PASS TAGS

Description	QTY	Code
Aegis Pass Tags	100	CZ5072

CZ5072  
Individually  
numbered.  
Includes marker



## TEST TAGS COLOUR ID

### NEXT TEST COLOUR CODED

Description	QTY	Code
Coloured Pass	96	TAG96



## FAIL TAGS

### DO NOT USE !! DANGER !!

For those rare occasions that an appliance actually fails the test, you will require these FAIL TAGS!

Description	QTY	Code
Aegis Fail Tags	50	CZ5073



## AEGIS LOG BOOK

Code  
CZ5074







# Tools and Test Equipment

## Voltage Detectors

### AC VOLT & METAL DETECTOR

The non-contact AC voltage and metal detector senses AC voltage in sockets, walls, etc. Also traces electric wires and metal embedded in the wall. The detector is designed to international safety standards. Sound and light indications. Battery and manual included. Pocket sized.

Code  
MS8902B



### NON-CONTACT AC VOLTAGE DETECTOR

Professional Non-contact AC voltage detector tester. Practical and convenient way to test electrical lines and mains sockets. Suitable for detecting AC voltage ranging from 12V to 1000V, and distinguish them into 3 voltage levels. When sensing AC voltage, it will turn on a flashing red light and the buzzer will send out alarm sound. Pocket sized, easy to carry and use. It also has a handy built-in LED torch for working in the dark corners.

Code  
PM8908C



### AC VOLTAGE DETECTOR

An Unique & Versatile Adjustable Non - Contact AC Voltage Detector. Which combines latest Digital Technology to detect AC Voltage from as low as 5 V AC. Sound and light feedback. Non-Contact AC Voltage Test from 5-1,000 V AC range (Adjustable Sensitive). Continuity check to identify 'Good Or Bad' like Bulb, Fuse etc. Power full long lasting white LED light flashing torch. Battery- 1.5V x 4

Code  
MS47NS3



### MULTI VOLTAGE TESTER

#### CONTACT/NON-CONTACT TYPE TESTER

Non-contact from 70 V AC to 600 V AC.  
Contact test from 70 V AC to 250 V AC.  
DC voltage test: 0-250 V DC.  
Polarity test: 1.5 V DC to 36 V DC.  
Continuity check: 0 - 80 M ohms.  
Checks operating condition of ionizer.  
Detects microwave leakage:  $\geq 5\text{mw/cm}^2$ .

Code  
MS18



### NEON TEST SCREWDRIVER

#### INSULATED SHAFT BLADE

Steel Blade Tip 5mm Mini Screw driver 145mm with a clear handle and inbuilt neon lamp that will indicate the presence of AC voltages 125-250Vac Ideal for tag strips, etc. as it will indicate if the screw is live! Safety 1st.

Code  
HT500



### 6V~24V DC LED TEST LIGHT

Portable LED Battery tester. Suitable for 6~24 VDC. Very useful tool for auto industry and many more. 2M extension cable with banana plug & crocodile clip. 2 bright red LED power indicators.

Code  
TL023LED



## Stud Finder

### STUD & VOLTAGE FINDER (3 IN 1)

#### DISTANCE READOUT & BARGRAPH

Locate studs, find metal objects and detect AC voltage. Displays Large 2 digits numeric 99 counts for accurate reading of test result and 9 bar display indicate high sensitively sensing level. Detection of - Stud up to 38mm thick Gyprock with 2x4 inches stud, ACV minimum 30mm and Metal minimum 50 mm when pipe is  $\Phi 20$  mm. Measuring accuracy  $\pm 5\text{mm}$ . Audible multitone. 2x AAA Batteries required.

Code  
MS-68-11



### STUD & VOLTAGE FINDER

#### BAR-GRAPH DISPLAY & BEEPER

Locates wooden studs, joists, electrical wires and metal pipes in plasterboard or plywood walls. 20mm deep

#### REQUIRES 9V BATTERY

Code  
SF10285



### STUD & VOLTAGE FINDER (5 IN 1)

#### MULTI-FUNCTION D.I.Y DETECTOR (5 IN 1)

Wooden Stud Detection up to 15mm thickness of gyprock. Buzzer sounds with red LED blinks slow, Fast or steady. Detect  $\Phi 20$  mm metal pipe depth 30mm. AC Voltage depth 50mm single sheath wire. Bonus Continuity check for fuse, bulbs, etc. Built-in Polarity check (3V-24V DC). Auto power off. Low battery warning. 1x AAA Battery [not included].

Code  
MS-68-10



## Laser Distance Meters

### LASER DISTANCE MEASUREMENT METER

#### RANGE UP TO 40M

- Single-distance, Area, Volume measurement.
- Single and Double Pythagorean Theorem.
- Memory, Extension, add, subtraction
- Measuring range: 0.1m to 40m.
- Measuring accuracy:  $\pm 3\text{mm}$ .
- Laser class: 2.
- Laser parameter: 620-690nm.
- Includes carry pouch.
- Requires 2x 1.5V AAA batteries.

Code  
GSM-340



### LASER DISTANCE MEASURING TOOL

#### HIGH PRECISION TOOL 50M/100M

The laser distance measuring tool is used for measuring any distance from the unit. It can take continuous measurement, add and subtract new measurements. It can also be set to calculate area and volume. Simple to operate. Available in 50M and 100M models. 2x AAA batteries and carry case included.

Distance	Code
Up to 50M	CT8130-50
Up to 100M	CT8130-100





## Battery Tester

### BATTERY TESTER BT-168

This simple to use battery test allows you to check the battery life of all 1.5V and 9V batteries. Easy to read, colour-coded meter indicates the power level. Suitable for 1.5V AAA, AA, C, D, 9V 6F22 batteries as well as 1.5V miniature cells.

Code  
BT-168



### BATTERY TESTER

Handy device for testing a vast range of batteries from 1.5 volt button to "D" size and 9 volt transistor batteries etc.

Code  
BT0333



### 12V BATTERY & ALTERNATOR TESTER

Compact size tester. LED battery tester for 12V battery, progressive light bar for showing battery capacity plus an alternator check. Suitable for all range of 12V lead acid batteries. Test battery with ignition off. Ignition on: Charger over-voltage indicates Bad. Charger under voltage no indication. Charging indicates good.

Code  
BT012RB



### BATTERY MONITOR LCD 12V/24V SLA

#### 12V & 24V ADVANCED MONITORING

Tester that monitors the status & welfare of your lead acid battery and charger operation. LCD voltage display plus icons indicate eight different status parameters of battery and charging conditions.

Code  
BT124LCD



### 12V DIGITAL BATTERY TESTER

#### SUITABLE FOR TESTING 12V AUTOMOTIVE BATTERIES

- Checks voltage, cold cranking amps (CCA), resistance and overall battery condition
- Continuous testing will not damage battery
- Uses car battery for 12V power, no extra internal batteries needed
- Large backlit LCD screen
- Easy-to-carry and durable design

Code  
AE310



## Cable Testers

### PoE TESTER

#### FOR NETWORK INSTALLERS AND TECHNICIANS

NF-400PF is a 802.3af/802.at PoE (Power over Ethernet) tester is an easy-to-use PoE adaptor for professionals to determine the existence of PoE. It can be used to determine if power and data are present in a live ethernet cable. Simply plug the cable to the RJ45 connector in-line with the cable.

Code  
NF400PT



### HDMI CABLE TESTER

The compact HDMI cable tester is designed for checking and troubleshooting HDMI cables. Useful for checking for faults with cables or inwall installations. All pins tested base-unit to Base-unit, plus a cable tracer receiver for checking installed cables.

Code  
CT81028



### DISPLAYPORT CABLE TESTER

NF-633 DisplayPort cable tester checks the internal wires individually and then displays the result at the LED panel. Supports DisplayPort and mini DisplayPort. Max testing distance: 15m. Requires 9V battery.

Code  
NF633



## Computer

### USB VOLTAGE & CURRENT TESTER

This USB voltage and current tester can be used to measure power output of an USB interface. The current and voltage is displayed on an easy to read digital display by cycling through voltage then current drawn. Suitable for testing the power output for your USB wall chargers, car chargers, powerbanks, USB ports on your PC or laptop. Test range: 3.5V-7V, 0A-3A.

Code  
USB231



### COMPUTER POWER CHECK

#### PC ATX TESTER LED

20/24 Pin for checking mainboard power and also tests 5/3" 4 pin SATA, AGP sources too. LEDs indicate presence of 5V and 12V

Code  
CPSTEST



#### PC ATX TESTER LCD

20/24 Pin for checking mainboard power and also tests 5/3" 4 pin SATA, AGP sources too. Comprehensive display 5V 12V1&2 5VSB 3.3V & P.G.

Code  
CPSTLCD







# Tools and Test Equipment

## □ Cable Testers

### WIRE TRACER - AEGUS

#### PROFESSIONAL GRADE INSTRUMENT AUSTRALIAN MADE

The CZ1000 is a modern Cable Pair Identifier used for finding conductors in multi-pair cables, distribution boxes and tag strips. Includes an Oscillator (Transmitter) and Search Probe (Receiver). Connected to the cable to be traced, it provides a signal which the probe can detect. The probe will emit a warble tone when the tip of the probe is over or near the wanted pair. The transmitter is designed to easily fit into confined spaces of connecting pillars, whilst the receiver is ergonomically shaped to alleviate hand strain and easy use. Professional grade from AEGIS Australia. Includes Heavy-Duty protective Case. Requires 1x "9V" and 2x "AA" Batteries.

Code  
CZ1000



TRACE  
TWISTED  
PAIR



PROBE  
WORKS THROUGH  
INSULATION

### WIRE TRACER - MEET

#### WIRE TRACER / TONE GENERATOR (AUDIBLE & VISIBLE)

Includes transmitter & receiver unit. Ideal for Wire identification and continuity check. Continuous audio sound and visible LED while checking continuity. Comes with alligator clip and RJ11 plug. 9V (1Pc), AAA(2 Pcs) and pouch.

Code  
MS-7847



MEET

### WIRE TRACER - PRO LAN

Test for sending and tracing a tone, cable continuity, coaxial, polarity, and verifying a line. The LAN Tracer is designed to identify and trace wires or cables within a group without damaging the insulation. Works with any tone generator to identify wires. Red and Black test leads are provided, and has a standard 4 conductor modular cord and plug. Composite tip reduces shock risk. Adjustable volume control.

Code  
TCT-490



### CABLE LOCATOR KIT

#### WIRED TRANSMITTER AND WIRELESS RECEIVER WAND WITH CARRY CASE

This professional general purpose cable locator is ideal for tracing cables in walls and underground, locating fuses/breakers on final circuits and locating interruptions and short-circuits in cables and electrical floor heating systems. It can also be used for tracing metallic water and heating pipes. The unit is supplied as a complete kit comprising of a transmitter and receiver in a purpose made carry case. The receiver also incorporates a torch function for working in dim light location.

- For all applications ( live or dead cable ) without additional instruments
- Set includes a transmitter and a receiver
- Proven digitally coded sender signal guarantees clear signal identification
- Transmitter with LCD-display for transmitting level, code and external voltage
- Receiver with back light LCD display for level of receiving signal, code of receiving signal and live voltage indication
- Automatic or manual adjustment of receiving signal sensitivity

Code  
LA1012



### UTP CABLE TRACER PROBE - RJ11 / RJ45

#### WITH RJ45 & RJ11 CABLE TESTER

Probe tool for finding and testing telephone and network cables. Scanning allows users to plug a cable transmitter and the receiver will sound an alert as you move closer to the cable. Built-in cable tester with 9 LED indicators. Includes carry case, RJ11, RJ45 cable, Crocodile clamps, batteries, earphone.

Code  
CT81024



### UTP CABLE TRACER PROBE - UTP / RJ45 / BNC

#### INCLUDES RJ45 TO BNC FOR TESTING COAXIAL CABLE

Probe tool for finding and testing coaxial and network cables. Scanning allows users to plug a cable transmitter and the receiver will sound an alert as you move closer to the cable. Built-in cable tester with 9 LED indicators. Hard wired alligator clamps for connecting to wires. Includes a carry case, RJ45, Coax cable BNC Adaptor, batteries and earphone.

Code  
CT81025





## CAT5/6 RJ45 Cable Testers

### NETWORK CABLE TESTER WITH 8 RECEIVERS

#### LCD CABLE TESTER WITH 8 LOCATION DONGLES

Network cable tester is a powerful tool to solve cable installation problems. The tester has a number of tests such as cable connection sequence, cable length reading, user-jumper identified and cable connection for continuity and determine any open circuit, short or cross-talk interference. Check wiring error in coax, CAT5e, CAT6e and telephone lines (adaptors req.). Includes 8 dongles, numbered and each with buzzer to identify cable tested for locating ease.

- Quickly and easily identify up to 8 locations for cables
- Tests integrity of a cables connection and throughput
- Length measurement of twin twisted cable up to 1350M
- Calibration accuracy: 3% [+/- 0.5m]
- Locating cable identify function with audible buzzers
- 8 pieces far-end passive RJ45 test jacks [ID-1 to ID-8]
- Tester port: RJ45 meter port and RJ45 Loopback port
- 2 pieces adaptors to BNC for coax Base10 testing
- Displays 4 lines of comprehensive readings
- Carry case for meter and adaptors, etc.
- Requires: 4x 1.5V AA batteries (not included)

Code  
CT8108



### NETWORK CABLE TESTER WITH 24 RECEIVERS

This network cable tester is a powerful special tool to prevent and solve cable installation problems. The tester has wiremap, length measurement, scanning and locating and error checking for Cat5e, Cat6, Cat6A, coaxial cable, USB cable and telephone line functions. This kit includes 24x far-end passive test jacks.

- Testing of UTP, STP, BNC, USB, coaxial and telephone cables
- Continuity, short, open, measure length, scanning and locating.
- Test leads included.
- Includes 24x far end passive test jacks with IDs.

Code  
CT-022



### NETOOL.IO STANDARD NETWORK ANALYSER

#### NETWORK DIAGNOSTICS MADE EASY

Connects wirelessly to your iOS or Android devices and detects:

- Tagged VLAN
- Native VLAN
- Switch Port
- Switch IP
- Switch Hostname
- Link Aggregation
- Spanning Tree
- Capture to PCAP via USB
- DHCP, EAP, And More!

Code  
NE1B



VIEW DATA ON  
YOUR PHONE  
(NOT INCLUDED)

See [www.netool.io](http://www.netool.io) for more information

### NETOOL.IO PRO NETWORK ANALYSER

#### ADVANCED PORTABLE NETWORK ENGINEERING TOOL

Auto configure an endless number of ethernet ports. Create a queue of ports you plug your netool.io Pro into and map it to a VLAN id that you set and auto configure the port later. Requires LLDP or CDP to be enabled on the switch.

Code  
NETOOLPRO



VIEW DATA ON  
YOUR PHONE  
(NOT INCLUDED)

### LAN & USB TESTER - RJ / COAX / USB

#### RJ45 RJ11 USB COAX

Short/Open/Crossover, etc.  
BNC (Base10) & USB (A-B)  
RJ11 Modem/Phone cable RJ45  
CAT5 Network UTP/STP each wire (8+) is tested individually & conclusively. Includes pouch. 145x85x25mm

Code  
FT68MLT

Requires 9V Battery



### NETWORK CABLE TESTER - RJ11/RJ45

#### RJ45/CAT5 & RJ11 SOCKETS

Send-Receive CAT cable tester. 8+ Ground indicators at sender and receiver ends.  
Sockets: RJ11 (6P6C) RJ45 (8P8C).  
Includes carry case.  
Requires 9V battery.

Code  
LANCTEST







# Tools and Test Equipment

## □ Meter Accessories

### RESISTANCE DECADE BOX

1 ohm step to 11,111,111 ohm. (10MΩ)

Resistors are 1% 0.3W carbon.

Code

RBOX408



### CAPACITANCE DECADE BOX

100pF to 11,111μF 100pF per step.

Size 147x117x51mm Yellow ABS.

Capacitors are 5% 50Vdc.

Code

CBOX406



### INDUCTANCE DECADE BOX

10μH step 10μH to 111.1mH

Size 147x117x51mm Yellow ABS.

Values are ±5% at 1KHz/1V/10mA.

Code

LBOX405



### DIGITAL MULTIMETER CARRY CASE

Size

135x65x25mm CA04

190x90x50mm CA03

Code



### DIGITAL MULTIMETER PROTECTIVE HOLDER

Manufactured specifically for our Lutron

Meter range but will also suit similar.

Multimeter size Approximately

180x85x35mm with rounded edges.

DM9023, DM9027T, DM9080, DM9090,

DM9680.



Code

DMPH01



### LARGE DURABLE WAVETEK CASE

#### PROFESSIONAL GRADE

Heavy-duty construction

Tough nylon material Tear

proof protection Double

lined and padded

Adjustable hand strap

Meter Leads compartment

Meter & Leads not included

Easily holds 100x40x200mm

Small medium or Large meter

Code

CA05A



Meter Not Included.

## □ Communication Testers

### BUTTINKSI TELEPHONE

#### TECHNICIANS TEST PHONE

Safe and protected. Linemans handset. Drop-proof rugged design. Tone (DTMF) dialling. Pulse (decadic) dialling. Last number re-dial. Monitoring (high Z). Ringer with switch. Metal Belt hook. 2 x RJ12 sockets for line connection.

Code

TS9000



#### CORD TO SUIT

1 x Double Socket Extension.

1 x 1.0M RJ12-RJ12 lead.

1 x 0.3M RJ12-RJ12 lead.

1 x 0.3M RJ12- Two Pole

Krone style plug.

Code

TS9003



## □ Logic Probes

### LOGIC PULSER

#### WITH BURST CAPTURE

Logic level detector with single-

shot & short-pulse detection

and hold. Multi Logic Standards

compatible with most; TTL /

CMOS / NMOS, etc. Over voltage

protected. Indicates logic High,

Low, intermediate and High-Z

(Open Circuit).

Code

LP540H





## Multimeter Accessories

### SAFETY TEST LEAD SET CAT-III

Right angle 4mm test lead set with safety plugs. Highly insulated CAT-III 1000V standard.

Type	Code
Right Angle	TL-339



### SAFETY TEST LEADS - PROBE & ALLIGATOR

Safety plugs highly insulated 1KV CAT-III 15A long life. High quality 1M flexible cable. Detachable screw-on alligator clips.

Type	Code
Straight	TL60
Right/Angle	TL62



### SAFETY TEST LEADS - PROBE & ALLIGATOR

Compatible with all meters & any 4mm banana socket. The long reach plugs have a spring safety return that covers the plug on release, restricting the possibility of accidental shorting of contacts. Optimum quality, high voltage, ultra-flexible cable/connections/probes. Includes detachable screw-on alligator clips. Sold in pairs (Red+Black)

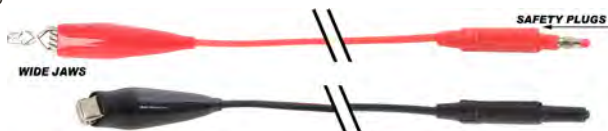
Code
TL40



### SAFETY TEST LEADS - ALLIGATOR

Compatible with all meters & any 4mm banana socket. The long reach plugs have a spring safety return that covers the plug on release, restricting the possibility of accidental shorting of contacts. Optimum quality, high voltage, ultra-flexible cable/connections/probes. Terminated with heavy duty alligator claws (8mm wide). Sold in pairs.

Code
TL50



### HIGH VOLTAGE PROBE - 40KV

Allows voltages up to 40KV to be measured. Its main purpose is to measure the anode voltage of picture tubes or microwave oven magnetrons, etc. Input impedance 1 GigaOhm (Approx.) Output impedance 1.1 MegaOhm. Meter should be 10M input at least.  
 Max V 40KVdc, 40KVac, 28KVrms.  
 Accuracy 1KV - 20KVdc  $\pm 1\%$   
 20KV - 40KVdc  $\pm 2\%$   
 1KV - 15KVrms  $\pm 2\%$   
 15KV - 28KVrms  $\pm 3\%$   
 1000:1 Ratio.

Code
HT4944



### TEST LEAD SET - PROBE & ALLIGATOR

Right angle 4mm banana plugs. High quality, high voltage, flexible cable, connections and probes. Includes detachable screw-on alligator clips. Sold in pairs (Red+Black) 1M leads.

Code
TL45



### TEST LEAD SET - RIGHT ANGLE

Description	Code
Banana plug	TL15
Pin plug	TL25



### TEST LEAD SET - PIN PLUG

Description	Code
Pin plug	TL20



### SMD TEST TWEEZERS

#### GOLD PLATED SERRATED JAWS

For testing components of the tiny SMD variety up to larger 20mm jaw reach. Direct to PCB tweezers. 90cm flexible lead to Safety Plugs. Premium grade.

Code
TL5M15



### JUMPER LEAD SET X10

Each 450mm long with alligator clips 10 pieces in assorted colours.

Code
JLK10







# Tools and Test Equipment

## □ Test Leads - Silicone

### TEST LEADS - HCK SILICONE

- Professional grade safety leads
- Silicone base cable jackets
- Hard impervious plug jackets
- Solid copper nickel-plated contacts
- Chemical and heat (300°C) resistant
- Up to 1000V
- Total confidence in connection and safety
- Note: Leads and Plugs Sold individually



### 4mm SAFETY PROBE TEST LEAD - SILICONE

Ready assembled one piece probe with one metre silicone lead. Right angle 4mm safety plug. The probe is 150mm long with a sharp steel tip and a 4mm plug for optional add-on accessories.

#### Colour Code

RED HCK9026R

BLACK HCK9026BK



### 4mm SAFETY TEST LEAD - SILICONE

Pre-assembled, highly flexible lead in a one metre length. Terminated at both ends with an axial 4mm safety plug. The attachments below are to be used with these leads.

#### Colour Code

Black HCK9014BK

Red HCK9014R



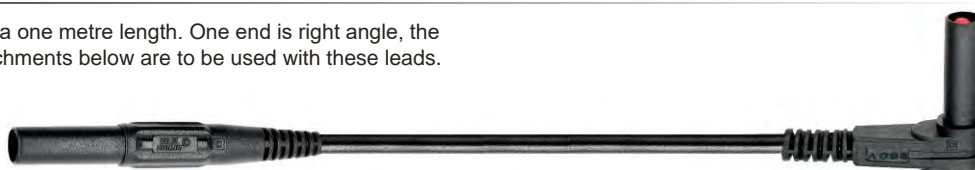
### 4mm SAFETY TEST LEAD - SILICONE

Pre-assembled, highly flexible lead in a one metre length. One end is right angle, the other axial 4mm safety plug. The attachments below are to be used with these leads.

#### Colour Code

Black HCK9016BK

Red HCK9016R



### 4mm SAFETY TEST PROBE - SILICONE

115mm in length. Highly insulated body with protection collar. The tip is equipped with a 4mm Plug for accessories.

#### Colour Code

RED HCK9112R

BLACK HCK9112BK



### 4mm SAFETY TEST PROBE - SILICONE

150mm in length with high collar for added safety when measuring High Voltages or hard to reach test points. Sharp tip for piercing insulation.

#### Colour Code

RED HCK9113R

BLACK HCK9113BK



### 4mm SAFETY CLAMP GRIP - SILICONE

Two wire hooks open and spread to encircle the test point. 100mm long flexible tip for rigid contact of hard to reach contact points.

#### Colour Code

RED HCK9117R

BLACK HCK9117BK





## 4mm SAFETY JAW GRIP - SILICONE

Heavy duty jaws open up to 20mm for a high current, strong rigid connection of motor terminals, fuse connections etc. Max 20A 130mm in length

### Colour Code

RED HCK9119R

BLACK HCK9119BK



## 4mm PLUG-ON TEST PROBE - SILICONE

Designed for attachment on standard 4mm system. 130mm in length with sharp steel tip for piercing insulation and oxide layers

### Colour Code

RED HCK9205R

BLACK HCK9205BK



## 4mm PLUG-ON ALLIGATOR TEST CLIP - SILICONE

Sharp toothed, fully insulated rated at 2A. Will open 12mm wide. Steel spring.

### Colour Code

RED HCK9209R

BLACK HCK9209BK



## 4mm SAFETY ALLIGATOR CLIP - SILICONE

For a sure strong connection of up to 20mm diameter. Will carry currents of up to 34A. 80mm in length. High tension metal spring.

### Colour Code

RED HCK9755R

BLACK HCK9755BK



## CHANGE OVER ADAPTOR - SILICONE

To make connection of safety plugs to standard 4mm system.

### Colour Code

RED HCK9122R

BLACK HCK9122BK



## COUPLING CONNECTION - SILICONE

Female to female adaptor for safety lead extension etc. Will also accept standard 4mm.

### Colour Code

RED HCK9123R

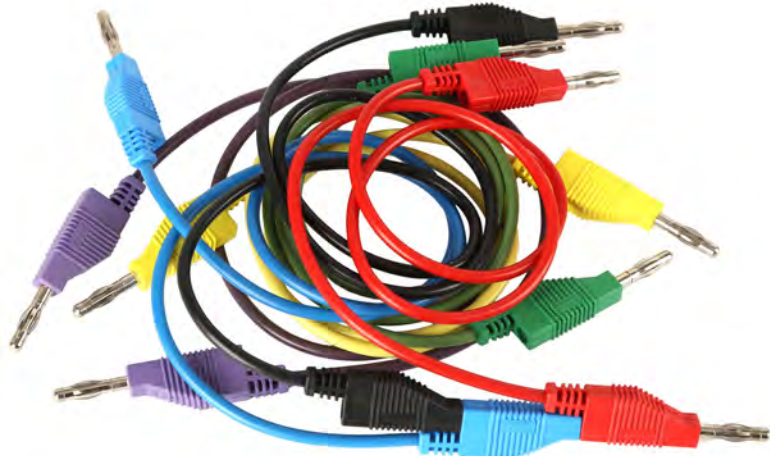
BLACK HCK9123BK



## STACKABLE 4mm SILICONE CONNECTION LEADS

A well proven connection with the advantage of being stackable. Very strong, highly flexible and soldering iron resistant, these jumper leads are virtually indestructible for total dependability on a reliable connection. There are three lengths available, 0.5, 1.0 and 1.5 metres in six colours for quick I.D. HCK Silicone test leads with Polyamide plugs, silver plated steel lam cage contacts. Highly flexible & impervious. Low Voltage 16A.

Colour	Length	Code
BLACK	0.5M	HCK05BK
RED	0.5M	HCK05R
BLUE	0.5M	HCK05BL
YELLOW	0.5M	HCK05Y
GREEN	0.5M	HCK05G
VIOLET	0.5M	HCK05V
BLACK	1.0M	HCK10BK
RED	1.0M	HCK10R
BLUE	1.0M	HCK10BL
YELLOW	1.0M	HCK10Y
GREEN	1.0M	HCK10G
VIOLET	1.0M	HCK10V
BLACK	1.5M	HCK15BK
RED	1.5M	HCK15R
BLUE	1.5M	HCK15BL
YELLOW	1.5M	HCK15Y
GREEN	1.5M	HCK15G







# Tools and Test Equipment

## HOOK CLIP ADAPTORS - LUTRON

Connects to 2mm multimeter probe tips  
Adapts to 150mm lead to mini test clips

Code  
LN-N13



## MINI TEST PROBE ADAPTORS - LUTRON

Probe addaptors for very fine precise work.  
Gold plated 0.75mm spring release tip points.

Code  
LN-N02



## MINI TEST PROBE EXTENSIONS - LUTRON

Fine steel probes extend 75mm.  
CAT-III. Fits onto 2mm Probe tip.

Code  
LN-N07



## hFE TEST LEAD

Suit many meters.

Code  
PL03



## BNC ADAPTOR

Use standard test probes  
with your CRO, etc.

Code  
BP60

BNC Adaptors See  
Connectors Section



## OSCILLOSCOPE PROBES

Professionally manufactured for long reliable service.  
All probes sold individually with accessories included.  
1:1 or 10:1 (1MΩ or 10MΩ) Cable length is 1.4M.  
0V nul reference selectable on probe.

### DC-100MHz

Code  
HP9100

### DC-250MHz

Code  
HP9250

### REPLACEMENT TIP

Code  
PA102



CRO Not Included

Accessories Kit Includes:  
TIP PA102 x 1  
A CHANNEL ID CLIPS x 2  
B SPRUNG HOOK  
C GROUND LEAD  
D INSULATING TIP  
E IC ADAPTOR  
F ADJUSTING TOOL  
G BNC ADAPTOR\*

## MINI ALLIGATOR LEAD ADAPTORS - LUTRON

Small 25mm alligator 5mm jaw open.  
Fits 2mm probe tips. 20cm lead.

Code  
LN-N19



## SMALL ALLIGATOR CLIP (CATIII) - LUTRON

Medium 30mm Alligator 10mm open.  
Double insulated to reduce shorts  
Fits any standard 2mm probe tips.

Code  
LN-A40



## ALLIGATOR CLIP PLUG 4MM/2MM

### 4mm Socket

Collar	Code
Red	P714R
Black	P714B

### 2mm Suit Meter Probes

Colour	Code
Red	AC12R
Black	AC12B



## ALLIGATOR CLIP PLUG SET 2MM

Plugs onto 2mm probes.  
100mm total length.  
Jaws open 25mm.  
CAT-III/IV 1KV/20A

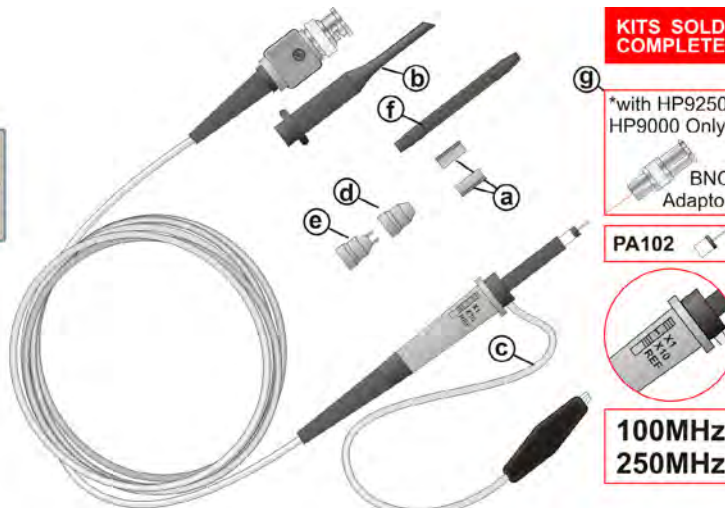
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AL05



## ALLIGATOR CLIP PLUG 4MM

Sharp toothed, fully insulated rated at  
2A. Will open 12mm wide. Steel spring.

Colour	Code
RED	HCK9209R
BLACK	HCK9209BK



KITS SOLD  
COMPLETE

\*with HP9250,  
HP9000 Only

BNC  
Adaptor

PA102

100MHz  
250MHz



## □ Inspection Cameras

### FERRET PRO® INSPECTION CAMERA KIT

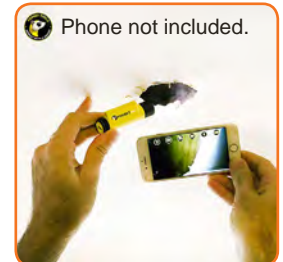
#### WIFI HOTSPOT TO USE PHONES OR TABLETS

The Ferret Pro, designed and engineered by Ferret Tools, is a professional and durable next generation inspection tool designed and engineered with award winning features to provide easier, faster & safer visual inspections. Includes App controlled variable focus lens and super fast charge. If you need to locate and pull in cable or need to get your eyes on something out of reach, then Ferret Pro is the perfect tool. Ideal tool for electricians and other trades.

- Built in WiFi hotspot, wireless and rechargeable
- Provides a high resolution live stream with a wireless range up to 15m
- IP67 dust-proof & waterproof
- Easy to use, intuitive Free Ferret App allows control over the camera
- Crisp clear images with 720p high resolution provides real time photos and video directly to a smart device
- Easily glides into confined dark crawl spaces. Bright white LEDs help investigate, locate, diagnose and fix problems
- View objects closer with the Ferret App digital zoom
- The Ferret App supports normal mode or always up mode where the image is always the right way up when the camera is rotated
- App controlled variable focus lens lets you change focus down as close as 60mm to see fine detail. Focus out to infinity for extra clarity
- Charge Ferret from flat to 95% charged in only 1 hour via USB



Stick sold separate



Phone not included.

Kit includes: Padded EVA case, Ferret Pro camera, flexible gooseneck, short rod, strong hook and magnet, right angle adaptor, thread adaptors, USB-C charge cable, spare O rings & instruction manual.

Code  
CABCFWF50B

### SNAKE INSPECTION CAMERA 2.3" - BULLANT

Bullant G5000 Inspection Camera is ideal for surveying hard-to-reach places. Rated IP67 waterproof, G5000 is equipped with a 2.3 inch TFT LCD monitor that has an adjustable brightness feature. G5000 is lightweight and easy-to-use. Also comes with a flexible tube with lens, hook, mirror and magnet. Camera resolution is 640x480px. 48° FOV.

- Inspection camera with 2.3" LCD monitor 640x480px
- Allows for easy surveying of small, hard-to-reach places
- P67 Camera 45x7.8mmØ, metal gooseneck 980x6.5mmØ
- Adjustable brightness on lens-mounted LED light
- Lightweight, hand-held, flexible and convenient-to-use design
- Hook, mirror and magnet accessories included
- Requires 4x AA Batteries

Code  
G5000



### CAMERA HEAD UPGRADE - BULLANT

#### 5.6mm DIAMETER HEAD 1M LONG

Extra flexible 4.7mmØ metal goose neck. IP67. 640x480px CMOS CCD Bendable down to 2cm arc

Code  
CH58



### CAMERA HEAD EXTENSION - BULLANT

#### 1 OR 5 METRE GOOSENECK

Metal IP67 gooseneck 980x6.5mmØ

Length	Code
1m	EC1
5m	EC5



### USB CAMERA - MICROSCOPE

#### 1.3 MEGA PIXEL CAMERA

Dual axis 27x100 Microscope Lens Mechanical 20x to 200x zoom operation. Inbuilt White light LEDs 110x33mm + Desk stand. Perfect for STEM learning.

Code  
USB211



### INSPECTION CAMERA WITH 4.3" DISPLAY

Aerpro Bullant Inspection Camera with 4.3" LCD display, 5.2mmØ waterproof camera on a 1M flexible shaft.

- 4.3" colour LCD screen
- 5.2mm IP67 camera
- LED light for great visibility
- 1.0m flexible camera shaft
- With magnet, mirror and hook
- Video recording to Micro SD
- Requires 4x AA Batteries

Code  
G9100







# Tools and Test Equipment

## Hardware Fixings & Fasteners

### WIDE PAN HEAD SELF TAP

#### ZINC

Wide Phillips head for Gyprock Drywall self tapper wood screw

QTY	Size	Code
100	8G x 32mm	SBTN832



### PAN HEAD SCREWS

#### BAG OF 100x SCREWS

Pan-head Needle Point.

QTY	Size	Code
100	6G x 30mm	SPNP630
100	6G x 50mm	SPNP650



### PAN HEAD WOOD SCREWS

The Phillips pan head screws with deep threads are ideal for use with wood and MDF. Order one to receive 100 pieces per pack.

QTY	Size	Code
100	G8 x 13mm	SCW420
100	G8 x 25.4mm	SCW425
100	G8 x 37.5mm	SCW430
100	G6 x 19mm	SCW435
100	G6 x 25.4mm	SCW440



### BUGLE HEAD SCREWS

QTY	Size	Code
100	7G x 50mm	SBHP750
100	8G x 50mm	SBHP850
100	8G x 63mm	SBHP863
100	7G x 45mm	SBHP745



### PHILLIPS BUGLE HEAD WOOD SCREWS

Bugle head Phillips wood screws. Ideal for use with wood and MDF. Deep threaded, counter sink type. Order one to receive 100 pieces.

QTY	Size	Code
100	6G x 25.4mm	SCW1100
100	6G x 37.6mm	SCW1105



### SCREW KIT 950 PIECE

#### SCREW KIT 950 PIECE

Tackle box with popular self drilling wood & metal self-tap screws. Bugle, Button, Pan and Washer Head type screws. 950 pieces.

Code  
SCR950



### HEX WASHER HEAD SELF TAP

#### BAG OF 100 PIECES

Black zinc plating case hardened Carbon steel 1022a Pack of 100 pcs.

QTY	Size	Code
100	3.9x16mm	STH3916



### HEX HEAD SCREWS

#### BAG OF 20 PIECES

Hex-head 1/4" (6.35mm) Phillips head Suit medium and MDF/HDF Black anodised finish. Supplied 20 per packet.

QTY	Size	Code
20	8G x 20mm	STS7B
20	10G x 25mm	STS8B



### CAP HEAD HEX WOOD SCREWS 20

Metric head 3mm I/D Round Outer 7mm O/D Self-Tap around 4mm 20mm in depth/length Supplied bag of 20x

QTY	Size	Code
20	4mm	AS420-20



### CAP HEAD HEX WOOD SCREWS 100

These cap head self-tapping wood screws can give your speaker projects a professional look. The smaller screw head prevents damage to the front gasket and surround. Accept a 3 mm hex (Allen) bit. Order one to receive 100 pieces per pack.

QTY	Size	Code
100	M3 x 16mm	SCW300
100	M3.5 x 25mm	SCW304
100	M4 x 35mm	SCW308



### WIDE PAN HEAD SELF-DRILL SCREWS

#### BAG OF 100 PCS

Gold zinc plating case hardened Carbon steel 1022a Pack of 100 pcs.

QTY	Size	Code
100	3.9x16mm	SDP3916



### HEX WASHER HEAD SELF-DRILL SCREWS

#### BAG OF 100 PIECES

Gold zinc plating case hardened Carbon steel 1022a Pack of 100 pcs.

QTY	Size	Code
100	3.9x22mm	SDH3922



## Pop Rivet

### POP RIVET TOOL

#### HAND TOOL GRIPWELL

25mm long Aluminium diecast With changeable nosepieces Suits 3/32, 1/8, 5/32, 3/16" 2.5mm 3.2mm 4mm 5mm (x15 ea.) Kit includes 60x Rivets & box.

Code  
PA26448



### SHORT BLIND RIVETS

#### Head 4mm x 10mm

Aluminium rivets Steel pins (40mm) Bag of 100 pieces

QTY	Code
100	BRVT410





## □ Bolts

### SCREW KITS TO SUIT VESA MOUNTING BRACKETS

#### 64 PIECES BAGGED

This 68 piece installation accessories set includes various sized mounting screws, washers and spacers to suit most TV to wall mount bracket solutions.

QTY	Code
64	SCR-KT68



### SCREWS TO SUIT VESA MOUNTING BRACKETS

#### ORDER ONE TO RECEIVE A BAG OF 20 PIECES

These screw kits are designed to suit TV wall brackets. Available in sets with many different sizes, and there are 20 pieces of screws in each set.

Length	QTY	Code
M4 x 12mm	20	SCR-M4X12
M4 x 20mm	20	SCR-M4X20
M5 x 12mm	20	SCR-M5X12
M5 x 20mm	20	SCR-M5X20
M5 x 30mm	20	SCR-M5X30
M6 x 12mm	20	SCR-M6X12
M6 x 20mm	20	SCR-M6X20
M6 x 35mm	20	SCR-M6X35
M8 x 12mm	20	SCR-M8X12
M8 x 20mm	20	SCR-M8X20
M8 x 35mm	20	SCR-M8X35
M8 x 45mm	20	SCR-M8X45



### BOLTS SUIT VESA MOUNTING BRACKETS

#### 6MM X 1.0MM THREAD - 10MM HEX HEAD

In most cases, the TV will have the bolts already. If using replacements, beware the maximum bolt depth. 1.0 mm metric threads. Supplied in bags of 20 pieces.

Depth	Code
12mm	HB1012
40mm	HB1040



### WASHERS TO SUIT VESA MOUNTING BRACKETS

#### ORDER ONE TO RECEIVE A BAG OF 20 PIECES

These washer kits are designed to suit TV wall brackets. Available in sets with two different sizes 12mm (to suit M4 / M5 screws) and 16mm (to suit M6 / M8 screws). Buy one to receive 20 pieces.

Suits	QTY	Code
M4 / M5	20	WAS-D4D5
M6 / M8	20	WAS-D6D8



### SPACERS TO SUIT VESA MOUNTING BRACKETS

#### ORDER ONE TO RECEIVE A BAG OF 20 PIECES

These spacer kits are designed to suit TV wall brackets. Available in sets of two different heights of 5mm & 15mm. Buy one to receive 20 pieces.

Dimensions	QTY	Code
5mm x 15mmØ	20	SPC-5MM
15mm x 15mmØ	20	SPC-15MM



## □ Screws

### HEX HEAD BOLTS

#### HEX HEAD BOLT 10MM

7mm Bolt & 1.0mm Thread

Size	Code
M6x12mm	HB1012
M6x40mm	HB1040

#### HEX HEAD BOLT 8MM

5mm Bolt & 0.8mm Thread

Size	Code
M5x26mm	HB0826
M5x40mm	HB0840

#### HEX HEAD BOLTS 12.5MM

13mm Hex head, 1.25mm thread pitch

Size	Code
M8x12mm	HB1312
M8x26mm	HB1326
M8x40mm	HB1340

#### HEX NUTS & WASHERS 12.5MM

Size	Code
M8	HNW813

### M3 M4 NUT & BOLT KITS

#### BAGS OF NUTS/BOLTS/WASHERS

Pan head Posi Bolt x50  
Nut x50 & Washer x50

#### M3 [3mm Hole]

Size	Code
M3	M350KB

#### M4 [4mm Hole]

Size	Code
M4	M450KB

### M3 NUTS & BOLTS

#### M3 NUTS

Size	Pack of	Code
M3	10	YC85

#### M3 METAL SCREWS

Size	Pack of	Code
M3 x 10mm	10	YC81

#### M3 SPRING WASHERS

Size	Pack of	Code
M3	10	YC84

#### M3 POLY SCREW

Size	Pack of	Code
M3 x 10mm	10	YC80

#### M3 TAGGED

Size	Pack of	Code
M3 + Tag	10	YC86

## □ Wall Anchors

### SPRING WING TOGGLE BOLTS

#### PREMIUM GRADE STEEL

This spring wing toggle bolt combo is ideal for mounting on drywall and hollow walls, as the wings lock into place behind the wall for holding power. Screw size: 3/16 x 2 inch length  
Fixing hole diameter: 14mm

QTY	Code
Bag of 10	R3162J-10
Jar of 50	R3162J-50



**TOGGLER**





# Tools and Test Equipment

## Wall Anchors

### MUSHROOM HEAD NYLON NAIL

Size	Code
5mm x 25mm	NNM5025
5mm x 40mm	NNM5040
5mm x 50mm	NNM5050
6.5mm x 25mm	NNM6525
6.5mm x 40mm	NNM6540
6.5mm x 50mm	NNM6550



100 pieces per pack

### FLAT HEAD NYLON NAIL

Size	Code
5mm x 25mm	NNF5025
5mm x 40mm	NNF5040
5mm x 50mm	NNF5050
6.5mm x 25mm	NNF6525
6.5mm x 40mm	NNF6540
6.5mm x 50mm	NNF6550



Nail-in anchor masonry fasteners. pre-assembled.  
100 pieces per pack.

### MOUNTING SCREW KIT

#### 2x SCREWS + 2x PLUGS

This mounting screw kit includes 2 x 25mm x #10 Screws and 2 x M8 Green masonry plug to suit wall mounting applications.

Code  
SC20



### NYLON PLASTERBOARD ANCHOR

#### 7 GAUGE NYLON

QTY	Code
100	SCR1021



### ZINC ALLOY PLASTERBOARD ANCHOR

#### 7 GAUGE ZINC ALLOY

QTY	Code
100	SCR1002



### XMAS TREE PLUG FOR CABLE TIES

#### TO SUIT 9mm CABLE TIE

Container of 150 pieces.

QTY	Code
150	SCR1010

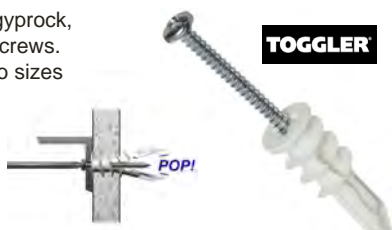


### PLASTERBOARD ANCHORS TOGGLER SNAPSKRU®

#### TWO SIZES - 50 PIECES TOTAL PLUS 50 SCREWS - POP n LOCK

Premium branded drywall, gyprock, plasterboard anchors with screws. Box of 50 pieces include two sizes and 50 screws two sizes.

QTY	Code
50	57125



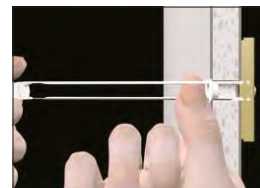
### WALL ANCHORS 3/16" - TOGGLER® SNAPTOGGLE

#### SOLD IN SINGLES - ANCHOR & BOLT SOLD SEPARATE

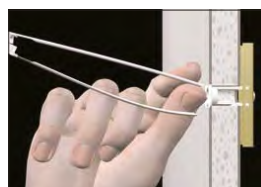
The TOGGLER Snaptoggle® anchor is a heavy-duty hollow wall anchor for use in walls, ceilings, or floors of materials such as gypsum board, drywall with a steel stud, concrete block, tile over drywall, etc. The anchor is pre-assembled and ready for immediate use. The ratcheting strap / locking cap assembly positions the one-piece zinc-plated steel anchoring channel flush against the rear of the wall. The cap slides down the straps to lock flush against the front of the wall. The straps on the outside of the wall are then easily and quickly snapped off by hand flush with the surface of the wall. Holding is dependent only on a metal bolt to metal channel connection. Sold in singles.



Drill appropriate size hole. Hold metal channel flat alongside plastic straps & slide channel through the hole. Minimum clearance behind wall: only 1 1/8".



Hold ends of straps together between thumb & forefinger and pull toward you until channel rests behind wall. Ratchet cap along straps with other hand until flange of cap is flush with wall.



Place thumb between straps at wall. Push thumb side to side, snapping off straps level with flange of cap.



Place item over flange. Insert bolt and tighten until snug against item, then stop. Use machine screw or bolt to match thread in metal channel.

### 1/4" 100KG WALL ANCHOR

Anchor for hollow wall cavity mounting of heavy items like TV brackets. Requires bolt sold separate.

Size	Code
1/4"	BB24014

SNAPTOGGLE®

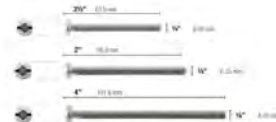


### BOLTS SUIT TOGGLER 1/4" WALL ANCHORS

Suits BB24014 Snaptoggle®  
Thread: 1/4"-20 BSW  
Phillips / Blade pan head  
Carbonated steel zinc plated

EACH

Diam.	Length	Code
6.35mmØ	63.5mm	TS14X212
6.35mmØ	76.2mm	TS14X3
6.35mmØ	101.6mm	TS14X4



### 3/16" 100KG WALL ANCHOR

Anchor for hollow wall cavity mounting of heavy items like TV brackets. Requires bolt sold separate.

Size	Code
3/16"	BA24013



### BOLTS SUIT TOGGLER 3/16" WALL ANCHORS

Suits BA24013 Snaptoggle®  
Thread: 3/16"

Diam.	Length	Code
4.76mmØ	76.2mm	TS316X3





## Drill Bits

### HOLE SAW KIT 16MM - 64MM

#### EIGHT PIECES

Comprises two mandrel bits  
A Pilot bit for the larger Steel circle cutters x8  
Sizes:  
19mm, 22mm, 30mm, 32mm,  
38mm, 44mm, 54mm, 64mm.



Code  
HT22095

### 3 PIECE STEP DRILL SET

#### PANEL HOLE CUTTERS

Titanium Nitride Coated Hardened tungsten steel. Dual Flute cutting head. Equivalent to 23 pieces. Ideal for panel drilling. Auto de-burrs the holes. Quick-change 1/4" HEX bits. Sizes 3mm to 20mm in three different bits.



Code  
HT13847

### DRILL BIT SET + HEX BITS

#### POWER TITANIUM DRILL KIT

11 Pieces drills Titanium coated Hardened steel Metric sizes 1.5mm to 10mm PLUS !  
12 Assorted Hex Bits. Phillips, Torx, etc..  
HEX Extension piece. Handy storage box.



Code  
A8764

### 19 PIECE METRIC DRILL BIT SET

#### TITANIUM BITS

Titanium Nitride Coated. Extra long life and extra High speed drill set. Quality and professional. Packaged in a metal box. 19 Metric sizes for drilling wood, metal and plastic, etc. 1.00mm to 10.00mm (0.5mm increments) 19x



Code  
DB13845

### 10 PIECE HSS DRILL SET METRIC 1-10MM

Made in excellent value high speed steel. Ideal for drilling metal, wood and plastic. 10pcs. Includes drill bit case. Size: 1-10mm.



Code  
DB13674

### 8 PIECE HSS DRILL SET METRIC WITH HEX SHANK

M2 grade high speed steel for maximum performance. Ideal for drilling metal, wood and plastic. Quick change Hex shank suits most cordless drills and drivers. Size: 1-8mm.



Code  
DB13690

### 10 PIECE MASONRY DRILL SET

Ideal for drilling into masonry, concrete, bricks and stone. Size includes 3, 4, 5, 5.5, 6, 6.5, 7, 8, 10 and 12mm.



Code  
HT13677

### 6.5MM TITANIUM ROUTER DRILL SAW BIT

This unique drill saw is ideal for drilling, routing and cutting soft metal, wood and plastics. Titanium coated for longer life. 6.5mm in size.



Code  
DB13849

### TITANIUM COATED HSS DRILL BITS

#### PREMIUM LONG-LIFE INDIVIDUAL DRILL BITS



#### METRIC SIZES DRILL BITS TITANIUM

Diam.	Format	Length	Angle	Code
1.5mm	18mm	40mm	118°	HSS15
2.0mm	24mm	49mm	118°	HSS20
2.5mm	30mm	57mm	118°	HSS25
3.0mm	33mm	61mm	135°	HSS30
3.5mm	39mm	70mm	135°	HSS35
4.0mm	43mm	75mm	135°	HSS40
5.0mm	52mm	86mm	135°	HSS50
5.5mm	57mm	93mm	135°	HSS55
6.0mm	57mm	93mm	135°	HSS60
6.5mm	63mm	101mm	135°	HSS65
7.0mm	69mm	109mm	135°	HSS70
7.5mm	69mm	109mm	135°	HSS75
8.0mm	75mm	117mm	135°	HSS80
8.5mm	75mm	117mm	135°	HSS85
9.0mm	81mm	122mm	135°	HSS90
9.5mm	81mm	122mm	135°	HSS95
10.0mm	87mm	135mm	135°	HSS100

#### 1/8" TITANIUM DRILL BIT IMPERIAL

Diam.	Metric	Format	Length	Angle	Code
1/8"	3.12mm	36mm	65mm	135°	HSS18
1/8"	3.12mm	36mm	50mm	135°	HSS18PK

#### 1/8" COBALT DRILL BIT IMPERIAL

Diam.	Metric	Format	Length	Angle	Code
1/8"	3.12mm	36mm	65mm	135°	CD18

## Drill Chucks

### 1/4" CHUCK ADAPTOR

#### EASY CHUCK

Accepts up to 4mm Twist to tighten Quick-fit into standard 1/4" socket Use with drills and hand tools Made in Taiwan



Code  
HT2010

### REPLACEMENT DRILL CHUCK

#### THREE-JAW KEYLESS CHUCK

Hammer drills, or battery, or Pneumatic powered tools. Tighten or loosen by hand Nylon sleeve. Steel body. Mount 3/8" x 24 TPI/UNF

Size Code  
0.8-10mm KC31073  
2.0-13mm KC30818







# Tools and Test Equipment

## □ Service Products

### □ CD & DVD Laser Cleaners

#### CD & DVD DISC REPAIR MACHINE

##### MOTORISED CLEANING & POLISHING

A simple and easy to follow procedure repairs and polishes your CDs, DVDs, Blu-ray, CD-ROMs and CD-RWs. Two liquids and three grades of polishing disks enable various levels of scratch and/or dirt and grime removal, now with motorised convenience.

Code  
PC-7189



CD Not Included

#### REFILL KIT FOR PC-7189

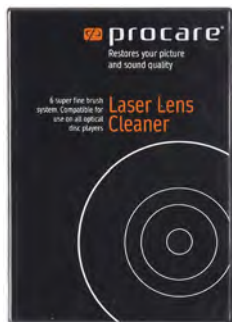
Code  
PC-7189R



#### CD/DVD LENS CLEANER

Features six super soft and fine brushes to ensure thorough cleaning without any harm to the CD or DVD lens. Designed to remove dust or dirt that may cause skipping or reading problems.

Code  
PC-7111D



#### ISOPROPYL-ALCOHOL 20ml

Isopropyl Alcohol. Popular solvent used for cleaning appliances like cassette heads, laser lenses, and other applications requiring residue free cleaning. Convenient drip bottle

Size Code  
20ml CS500



## □ Camera & Phone Rescue

#### CAMERA / PHONE WATER RESCUE KIT

##### RAPID DRY-OUT APPLICATOR

Emergency kit for mobile phones, MP3 players, cameras, and any other electronic devices that have accidentally been immersed in water. Simply place the device into the sealed bag and follow the instructions until water is absorbed.

Code  
ATRK000MIN



### □ Stylus Cleaners

#### STYLUS NEEDLE CLEANER

##### BRUSH N' LIQUID

Cleaning solution with a bottle brush included. For remove grit & grime from the stylus needle.

Size Code  
20ml SC1



Flammable liquid.

#### STYLUS CLEANING FLUID - AUDIO TECHNICA

##### 10ml WITH TIP CLEANING APPLICATOR

Stylus cleaning fluid extends both stylus and record life. The special cleaning formula dissolves dust and dirt known to hinder proper tracking. An applicator brush is attached to the cap for ease of use.

- 10ml volume
- Applicator brush is attached to the cap for ease of use
- Made in Japan.



Code  
AT607A

#### STYLUS CLEANER - AUDIO TECHNICA

##### TACK BASE GEL

The AT617a cartridge stylus cleaner is a specially formulated polyurethane gel that gently removes dirt particles from the stylus tip when the stylus is lowered onto it. The gel's surface is washable and will remain tacky for years. Made in Japan.

- Polyurethane gel gently removes dirt particles from the stylus tip
- Surface is washable for repeated use
- Gel remains tacky for years

Code  
AT617A



AUDIO-TECHNICA products and accessories are in Section 03 Audio





## Record Vinyl Cleaners

### RECORD WASH - ANTISTATIC

#### VINYL CLEANING SPRAY & CLOTH

Risk free wash for removing grit & grime from grooves and reduce static build up. Non abrasive for gentle and effective vinyl cleaning. Pump spray bottle. Includes lint-free cloth.

Code  
RC1



#### REPLACEMENT CLOTH

Code  
DC-103



### CARBON FIBRE RECORD CLEANER

#### ANTI-STATIC MICRO-FIBRE BRUSH

A gentle brush with the microniser prior to record playing enables a million tiny filaments to discharge the harmful deposit from the grooves and bring a new dimension to record care.

Code  
DC05P



### ANTISTATIC RECORD CLEANING

#### ANTI-STATIC SPRAY & CLOTH

200ml pump spray bottle. Efficiently removes dust, dirt and static build up. Includes a non-abrasive cloth for gentle and effective vinyl cleaning.

Code  
RC2



#### REPLACEMENT CLOTH

Code  
DC-103



\*Fluid is flammable, Must be transported by road.

### VINYL RECORD ROLLER CLEANER

#### REMOVE DUST FROM GROOVES

Roller with a special sticky silicone elastomer that picks up the debris and dust out of record grooves. Visually confirming cleaning. Simply clean under tap water, good as new!

Code  
DC-500



### GOAT HAIR RECORD BRUSH

#### REMOVE DUST FROM RECORDS

This brush includes three rows of very dense all natural goat hair to safely remove dust and dirt from your record. The hair is very soft, yet firm enough to wipe the dust off of your record. Attractive wood handle gives it a nice look. Size: 100x47x15mm

Code  
DC-600



audio-technica

### RECORD CLEANING BRUSH - AUDIO TECHNICA

#### WET OR DRY

Velvet brush with 60ml cleaning fluid for removing micro-particle contaminants.

Code  
AT6012A



#### REFILL BOTTLE 60ml

Code  
AT634A



audio-technica

### LP RECORD CLEANING KIT

#### VINYL COLLECTION MAINTENANCE

Keep your valuable music collection new & clean .Professional Vinyl Record cleaning kit.

- Kit includes: Convenient pack away case
- Carbon Fibre Anti-static Record cleaning Brush
- Anti-static Record Cleaning Fluid 20ml
- Anti-static Record Cleaning Cloth
- Stylus Cleaner Fluid 20ml

Code  
MHFC-9



\*Fluid is flammable, Must be transported by road.



### LP & CD CLEANING KIT

#### RECORD & CD MAINTENANCE

Give a new life to your music records & CD's. Super cleaning kit.

- Kit contains: Convenient pack-away case
- Carbon Fibre Anti-static Record Brush
- Anti-static Record Cleaning Cloth
- Record Cleaning Fluid 20ml
- Stylus Cleaner with 20ml Cleaning Fluid.
- CD Cleaner with 20ml Cleaning Fluid.

Code  
MHFC-2



\*Fluid is flammable, Must be transported by road.







# Tools and Test Equipment

## Wipes Cleaners

### 75% ALCOHOL ANTIBACTERIAL HAND SANITISER

#### CE AND FDA APPROVED

Water rinse free solution alcohol based with additional skin moisturiser for comfort with multiple use. Available in a personal tube or bottle with plunger.

Size	Code
100ml	HS100ML
500ml	HS500ML



### AF CLEANER & HAND SANITISER 500mL

Hand Sanitising Gel - Fragrance free, alcohol based solution for the rapid disinfection of physically clean hands with added vitamin E and blend of emollients to minimise hands drying out. Kills bacteria, yeasts and moulds and dries quickly. 500ml.

Size	Code
500ml	AHSG500



### OFFICE WET WIPES

#### Kimberly-Clark Product

70x Pre-Moistened Multi-Surface Non-Scratch disposable cloths in a handy dispenser bottle. Commercial grade disinfectant. For cleaning office equipment, etc. Australian made by Kimberly-Clark. Premium grade wet wipes.

Code
KIM4100



### ISOCLENE WIPES

#### BACTERICIDAL WIPES

Anti-bacterial wipes for disinfecting most hard surfaces. Kills 99.9% of bacteria found on equipment like keyboards, etc. Not for use on screens.

Code
AISW100



### AF SAFEPADS IPA IMPREGNATED CLEANERS

Safepads - Large IPA impregnated wipes in a sachet. Used for cleaning stubborn stains on hard surfaces. Lint-free non woven material. Not suitable for coated glass or sensitive PC or laptop screens. 99.9% IPA. Effective bactericide. Each box includes 100 IPA impregnated cleaning pad sachets.

QTY	Code
100	ASPA100



### PHONE-CLENE HOT DESK CLEANING WIPES

Pre-saturated anti-bacterial wipes for sanitising telephones to reduce cross-contamination when hot desking.

#### BOX OF 100 SACHETS

QTY	Code
100	APHC100

#### 100 WIPES IN A TUB

Code
APHC100T



### MULTI-SCREEN CLENE SPRAY

The Multi Screen Clene features a 200ml pump spray universal screen cleaning solution and a large microfibre cloth. A non flammable, anti static cleaning solution to ensure your screen is 'smear free'. Ideal for TFT and LCD. Effectively removes common grease, dust and fingerprints built up on screen surfaces.

Size	Code
200ml	AMCA-200LMF



### SCREEN-CLENE SAFECLOTHS

#### LINT-FREE CLEANING

Non-woven super absorbent anti-static cleaning cloths 50 pieces in a resealable bag 330x330mm soft perforated Suit general cleaning uses.

QTY	Code
50x	SCH050



### AF MOBILE TECHNOLOGY 25 WIPES

These universal AF cleaning wipes are designed for all forms of mobile technology, including smartphones, tablets, GPS and portable gaming devices. Designed specifically for delicate surfaces, the wipes provide an effective clean and smear-free finish. Non-flammable and alcohol-free, the wipes come flat packed in a pack of 25.

QTY	Code
25	AMTW025P



### TONERCLENE PRINTER TONER CLEANER CLOTHS

Tonerclene - Impregnated toner absorbent cloths for wiping up toner spills safely. Cloth absorbs toner into fabric. Does not re-deposit toner. Non-smearing. Each pack includes 25 toner wipes.

QTY	Code
25	ATOC025



### AF RE-USABLE DRY WIPES FOR GLASS CLEANING

Dry, super strong, washable wipes in sachets ideal for removing the daily grime build up of fingerprints, smudges and dust from all electronic device screens. Ideal for smartphones, glasses and tablet computers. Handy travel size. Each wipe measures approx 14.8 x 11.5cm. Each box includes 10 individually packaged wipes.

QTY	Code
10	ASMAW10



### SCREEN-CLENE WET WIPES

#### LCD & PLASMA SCREEN CLEANER

100 Sachets of non-smearing anti-static wet wipes for cleaning monitor screens. Box full of individual packs. Always find them ready moist. Premium quality product.

QTY	Code
100x	SCS100





## AF PROTECTIVE SAFETY GLASSES CLEANER

AF Safety Glasses Cleaning Wipes - Are a handy pack of impregnated wipes for cleaning personal protective/safety glasses equipment. Designed to target grease and dust on work environment based equipment, in a simple wipe. 60 impregnated wipes per tub.

QTY	Code
60	ASGCW60



## AF ANTI-STATIC GENERAL SURFACE CLEANER

AF Staticlene is an all-round general purpose surface cleaner, specially designed to remove ingrained dirt from external electronic equipment casings. 250mL pump spray bottle.

Size	Code
250ml	ASTA250D



## AF ISOCLENE PUMP SPRAY CLEANER 250ML

Isoclene - Isopropanol for technical cleaning use by technicians. Ideal for cleaning magnetic read/write heads, edge connectors when reseating PC boards, etc. (250ml Pump Spray)

Size	Code
250ml	AISO250



## SCREEN-CLENE IN A CAN

### LCD & PLASMA SCREEN CLEANER

Pump action cleaner spray for clear glass & plastic surfaces like TV Screens, Photo copiers, Gameboy, Laptop, monitor screens. Anti-static. No alcohol. Non flammable.

Size	Code
250ml	SCS250



## AF WHITEBOARD CLEANING SPRAY 250ml

Boardclene White Board Cleaner - Effectively removes ingrained dirt and essentially makes boards look like new again. No residue. Suggested for use on interactive boards. Anti static. Non Flammable. Lemon Fragrance (250ml Pump Spray)

Size	Code
250ml	ABCL250



## SCREEN CLEANING SPRAY & PAD

### 140ML PUMP SPRAY BOTTLE WITH CLEANING PAD

140mL specially formulated water based cleaning solution designed for cleaning your TV screen or LCD monitor without damaging the film coating. Easy to use sprayer. Use with the micro fibre wipe included with the kit for best result.

Size	Code
140ml	HN-4811



## AF COMPRESSED AIR DUSTER 200mL

Compressed air for blowing dust and debris from inaccessible areas of computer and office equipment. Including extension tube for reaching confined areas. 200ml aerosol.

Size	Code
200ml	AFDUS200



## AF AEROSOL SPRAY DUSTER 400g

Non-flammable large capacity aerosol duster. Suitable for blowing dust and debris from inaccessible areas of computer and office equipment. Ozone friendly, HFC free, fully compliant with F-gas regulations. Non invertible. 400g (342ml).

Size	Code
342ml	ASDU400D



## AF CARD-CLENE

### CARD SWIPE CLEANER

Swipe Machine Cleaners Sachet-packed plain cards impregnated with Isopropanol. Made to ISO specifications. Suggested for both card entry readers and swipe (Eftpos) readers. 20 Sachets.

QTY	Code
20	CCP020



## AF PLATENCLENE PRINTER ROLLER CLEANER

Platenclene - Non-toxic solvent pump spray for cleaning and restoring grip of all types of rubber rollers. Restores grip of printer and fax rollers. Leaves no residue, dissolves ink stains, oil, grease and reduces paper jams. For best results, use this with AF safecloths, safetiss or safebuds.

Size	Code
100ml	APCL100



## AF FOAMCLENLE ANTI-STATIC FOAM CLEANER

Foamclene - Anti-static foaming cleaner for removing ingrained grease, dust and dirt on plastic casings, office furniture and walls. Non flammable and anti static. Effective bactericide. Use with Safecloths, Safewipes or PC buds. 300ml pressurised can.

Size	Code
300ml	AFCL300



## SCREEN CLEANING SPRAY & CLOTH

### WATER BASED PUMP SPRAY

100ml pump spray bottle of specially formulated water based cleaning liquid mist spray for all screens, lens, disk. Super-fine micro fibre cleaning cloth 10cm<sup>2</sup>

Size	Code
100ml	HN-4129







# Tools and Test Equipment

## □ Cleaning Swabs and Applicators

### KIM-WIPES®

#### NO-TEAR TISSUE BOX

Delicate Task Wiper is a light duty wiper that can handle a variety of delicate tasks. Easily wipes up liquid and dust. Anti-static dispensing reduces lint and electrostatic discharge, controls usage and portability reduces waste. 280 wipes, 110x210mm

#### Code

KIMW4120



### AF LINT FREE PAPER WIPES - 200 WIPES

High quality lint-free single ply paper wipes ideal for screens and filters. Good wet / dry strength. 200 per Dispenser Box.

#### QTY Code

200 ASTI200



### LENS CLEANING CLOTH - JAPAN

#### PRO LENS QUALITY WIPE

Special micr-fibre material cloth for cleaning opticals like camera and laser lenses, reading glasses, etc. No lint. No residue. 6" Square. Made in Japan.

#### Size Code

150x150mm CLN1515



### FINE DENIER YARN POLY CLOTH - JAPAN

#### TOUGH & DURABLE CLEANING WIPE

Made from recycled PET bottles (66%) into a very fine knitted polyester non-scratching dust-free cloth. Ultra-pure clean-room product. Made in Japan. 220x220x0.8mm in a bag of 10 pieces.

#### QTY Code

x10 ECQ-2310



X10

### AF MICROFIBRE CLEANING CLOTH LARGE

A high quality Microfibre Cloth for the safe and efficient cleaning of modern screens, touchpads, glass, Tablet computers and Smartphones. Washable. 290mm x 290mm. Pack of 1

#### QTY Code

Single ALMF001

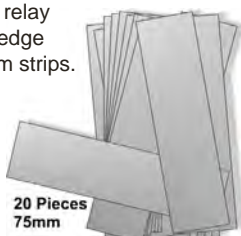


### CONTACT CLEANING STRIPS

ELECTROLUBE cleaning, lubricating and protecting treatment. For relay and non-wiping contacts like edge connectors, etc. 20 pcs. 75mm strips.

#### QTY Code

x20 CCS020



20 Pieces  
75mm

CLEANS  
SWITCHES  
RELAYS  
CONTACTS



### AF SAFEBUGS COTTON BUD CLEANING STICKS

#### 1000 CLEANING STICKS

Safebuds - 15cm pure cotton tipped rigid wooden sticks. Ideal for cleaning awkward corners and difficult to reach parts of computer hardware. 10 Bags of 100 Buds per bag (1,000 Buds in total)

#### QTY Code

1000 ASBU000



### CHEMTRONICS® SWABS AND APPLICATORS

Professional products designed for servicing consumer electronics with a complete line of ultra-pure swabs and wipes engineered to be highly absorbent and precise. Supplied sealed packaged

#### COTTONTIPS™ - CHEMTRONICS®

Pharmaceutical grade extremely soft, absorbent, rigid shaft.

#### QTY Code

100 CT100  
1000 CT5000

**ITW Chemtronics®**



#### COTTONTIPS™ 2 HEAD - CHEMTRONICS®

Pharmaceutical grade extremely soft, absorbent, both ends. Pieces 100

#### QTY Code

100 CT2000

**ITW Chemtronics®**



#### FOAMTIPS™ #100 - CHEMTRONICS®

Lint-free non-abrasive cellular urethane cleaning swabs. Pieces 50

#### QTY Code

50 CF50

**ITW Chemtronics®**



#### FOAMTIPS™ #140 - CHEMTRONICS®

Small Circular Head. For tight hard to reach applications. Pieces 50

#### QTY Code

50 CF4050

**ITW Chemtronics®**



### COTTON BUD BAMBOO STICKS - DAICHI

#### 150mm 100 PIECES

Ridged wooden shaft white cotton tipped

#### QTY Code

100 ACS100



### FOAM CLEANING SWABS - DAICHI

#### 125mm 20 PIECES

Lint-less foam swabs with a plastic shaft. Packaged 20 per bag.

#### Shaft QTY Code

Plastic 20 VCS20A



### CHAMOIS CLEANING SWAB - DAICHI

#### 75mm 10 PIECES

High quality synthetic chamois tipped with 45° angled shaft. Gives easy reach, non-abrasive cleaning for video heads, etc. Packaged in bags of TEN. Approx. 75mm length

#### QTY Code

10 VCS10





## Brushes

### ANTISTATIC BRUSHES

#### CONDUCTIVE FIBRE

Synthetic bristles and conductive black fibres. Dissipative polypropylene black handles are able to remove charges to ground. Brushes minimise static charge generation and dissipate ESD charges to ground when held by grounded personnel. Remove dirt from PCB's or other sensitive components, and discharge static electricity. Heat Resistance up to 80°C. Mild Chemical and Acid Resistance. Handle surface resistivity 1MΩ-1GΩ (PP). Bristle surface resistivity 10MΩ-10GΩ (Nylon). Anti-static Nylon bristle with Ø 0.12mm.

#### 17mm ESD BRUSH

Long (29mm) Thick Bristles (Hard)

Size	Code
17mm	ESD-B05



#### 18mm ESD BRUSH

Short (18mm) Thin Bristles (Soft)

Size	Code
18mm	ESD-B04



#### 32mm ESD BRUSH

10mm width with triple bristle rows

Size	Code
10x32mm	ESD-B01



#### 32mm ESD BRUSH

Single bristle row

Size	Code
32mm	ESD-B07



#### 55mm ESD BRUSH

Single bristle row

Size	Code
55mm	ESD-B09



#### 60mm ESD BRUSH

12mm width with Triple bristle rows

Size	Code
12x60mm	ESD-B02



#### 65mm ESD BRUSH

32mm wide with five bristle rows

Size	Code
32x65mm	ESD-B06



### BRUSH ESD DUSTER 10mm

#### HORSE HAIR BRUSH

Zinc plated steel handle.  
1cm Tuft oval brush for general ESD safe dusting  
Quality instrument.  
Low loss of fibres.  
Long life Horse hairs.  
120mm length handle.

Code
HT2033



### BRUSH ESD SCRUBBER 10mm

#### HOG BRISTLE DOUBLE ENDED

Zinc plated steel handle.  
1cm Tuft oval brush for general ESD safe scrubbing  
2nd Chiselled brush end for tight corners, etc.  
Long life Hog bristles.  
120mm length handle.

Code
HT2032



### BRUSH ESD SCRUBBER SMALL

#### ESD BRISTLE 4" SCRUBBER

Static neutral plywood  
3 row hog bristle brush  
Conductive plastic ESD safe bristles on reinforced plywood. Handle 120mm  
Bristle 12mm

Code
HT2021



### BRUSH DUSTER SCRUBBER MINI

#### HOG BRISTLE 4" CLEANER

Static neutral plywood  
single row hog bristle flat, wide head design Compact quality tool Long life hog bristle Length 110mm Head 30mm Wide

Code
HT2027



### BRUSH HEAVY-DUTY LARGE

#### HORSE HAIR 10" SCRUBBER

Static neutral plywood 4 row horse hair brush General utility scrubbing 12mm trim length. Firm, long-life Horse hair. Handle 265mm Bristle 12mm

Code
HT2022



### PAINT BRUSHES - NYLON

#### POLY-BRISTLE

Classic paint brush. Wooden handle. Quality very-fine synthetic bristle well clamped. Won't loose stray hairs. Four popular sizes...

Size	Code
1"	HT9025
2"	HT9050
3"	HT9075
4"	HT9100







# Tools and Test Equipment

## □ Tape

### DESK TAPE DISPENSER

#### LARGE & WEIGHTED

Accepts 1" & 3" Tapes  
(25mm or 75mm)  
80x90x205mm  
No-scratch Felt under  
Requires tape

Code  
DTD8977



### PACKING TAPE DISPENSER

#### BOX SEALING PISTOL 3"

Light weight pistol grip  
Roll-On 2" wide Suit 3"Ø  
tapes. Adjustable brake  
for tight consistent seal.  
Max tape roll OD is 5"Ø

Code  
H11CP



### STICKY TAPE

#### COMMON CLEAR STICKY

Individually seal packed for maximum  
freshness. Clear. Will not tear  
Width x 66 Metres long.

Size	Code
12mm	ST4724
18mm	ST4725



### PACKAGING TAPE

#### 2" WIDE BOX TAPE

48mm x 75 Metres professional  
grade Box sealing tape. Will not tear.

Colour	Code
Brown	PT1035
Clear	PT1090



### MASKING TAPE

#### PAPER BACKED 50M

Easy-to-tear backing. No  
residue adhesive. As used in  
painting Mask-Off areas, etc.  
Beige 50 Metre rolls.

Size	Code
24mm	MSK2002
48mm	MSK2004



### INSULATION TAPE - COLOUR

#### FIRE RETARDANT 0.19x19mm x 20M

Colour	Code
Red	FRT20RD
Green	FRT20GN
Blue	FRT20BU
White	FRT20WH
Yellow	FRT20YL
Black	FRT20BK
Yellow & Green	IT20YG

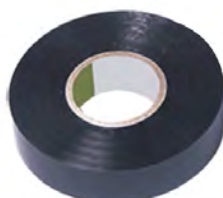


### INSULATION TAPE - FOXTEL® APPROVED

#### FOXTEL® APPROVED F30893

This PVC tape provides excellent  
electrical insulation and adhesion to  
suit air antenna installations. It comes  
as a standard size of 18mm wide.

Foxtel	Length	Code
F30893	20M	AMAPVC



### GAFFER CLOTH TAPE

#### NASHUA 357 48mm x 40 Metres

Classic. Best available. Cloth reinforced vinyl.  
Durable & Added strength. Torn to length  
without tools. Aggressive adhesive waterproof

Colour	Code
Black	GAF357BK
Silver	GAF357SL
White	GAF357WH



### GAFFER CLOTH TAPE

#### BLACK 399 48mm x 25 Metres

Industrial grade cloth coated. Very  
aggressive hi-tack stick Rubber  
adhesive. Waterproof Cotton reinforced.  
Tear by hand 3" Reel. 25 Metres long.

Code  
GAF399



### GAFFER TAPE WARNING!

#### BLACK & YELLOW CLOTH

48mm x 25 Metres roll  
Cloth imbedded nylon  
tape. Alarmingly coloured !  
Kick / walk areas, etc.  
Tape down cables, etc.

Code  
HCT3220



### DUCT TAPE

#### PVC 2" IN 30M ROLLS

Clear-Adhesive backed Strong  
durable PVC tape. Poly Vinyl Chloride  
(PVC) Malleable & Weather proof.  
Popular builders tape.

Colour	Length	Code
Silver	30M	DT4420
Black	30M	DT4410



### HEAT-SHRINK TAPE

#### SHRINKS TO SEAL

Thin Irradiated Polyolefin tape. Shrinks  
and amalgamates forming a rigid  
seal on even complex items. Make Y  
shapes. Simply wrap & heat to shrink.  
Black. 20mm x 50M.

Code  
HST20



### SELF-AMALGAMATING TAPE

#### RUBBER BUTYL 20mm

Highly adhesive synthetic Rubber  
& resin based tape. Cures to a  
single mass. Seals & water-proofs  
0.8mm x 19mm x 10 Metres.

Code  
SFRT10



### SELF-AMALGAMATING TAPE

#### RUBBER BUTYL 40mm

Highly adhesive synthetic Rubber &  
resin based tape. Cures to a single  
mass. Seals & water-proofs. Black.  
40mm x 5 Metres.

Code  
SAT140





## DOUBLE SIDED LCD SCREEN TAPE

### FOR SMARTPHONES / TABLETS LCD SCREEN REPAIR - 50M

3M Brand double sided adhesive tape for touch screen repair of smartphones or tablets. Heat-Resistant, strong adhesive. 10mm wide and 50M long.



Width x Length	Code
10mm x 50M	ADH100

## DOUBLE-SIDED TISSUE

### TISSUE ACRYLIC TAPE

Very thin tissue paper Premium grade Stylus 740. Aggressive hi-tack acrylic PH neutral for photos, etc. Double sided 33 Metres.



Size	Code
12mm	DST5238
24mm	DST5242

## DOUBLE-SIDED CLOTH TAPE

### HEAVY-DUTY

Premium grade Stylus 720. Hand tear cloth. Aggressive natural rubber solvent adhesive both sides. Suit carpet, substrates, etc



Width	Length	Code
12mm	25M	DST4504
24mm	25M	DST4506
48mm	25M	DST4510

## DOUBLE-SIDED FOAM 0.8MM

### POLYETHYLENE 5589 BLACK

High density closed cell foam for outdoor mounting. Suit light weight fixing plastic, etc. Permanent bond Both sides. 0.8mm Black. 5/10M



Width x Length	Code
12mm x 10M	DST4884

### GENERIC - INDOOR USE

Width x Length	Code
18mm x 5M	IT50

## DOUBLE-SIDED FOAM 1MM

### POLYETHYLENE 2010 WHITE

Double sided EVA foam tape. Aggressive acrylic adhesive. Light to medium weight fixing. Permanent bond internal mount 1.0mm thick white large reels



Width x Length	Code
12mm x 50M	DST4945
18mm x 50M	DST4946
24mm x 50M	DST4947

## FOAM TAPE SINGLE SIDED 3MM

### 3mm POLYETHYLENE 7100

Soft density open cell foam. Aggressive acrylic adhesive Sponge type for draft seal.



Width x Length	Code
9mm x 1M	GT7100
9mm x 2M	APT3092
12mm x 2M	APT3122
18mm x 2M	APT3182
9mm x 25M	APT6351
12mm x 25M	APT6352
18mm x 25M	APT6353

## LIQUID ELECTRICAL TAPE

### DIELECTRIC COATING [ NO FLY ]

Liquid electrical tape forms a protective dielectric coating on electrical connections to seal out moisture and prevent corrosion. Adheres to all metals, Plastic, Vinyl, Rubber and composite surfaces, fast drying, safe and easy to use. Suitable for many applications like Boats, Cars, Trucks, Pool electrical, Pumps, outdoor exposed wiring, Lighting fixtures, underground wiring and many more.



- UV resistant.
- Great flexibility.
- Stays neat & clean.
- Super Dielectric strength.
- Totally Waterproof connections
- Temperature range -34°C to 123°C.
- Can Be Applied to irregular shapes.
- Multicolours allow easy colour coding.



Weight	Colour	Code
28g	Black	LET18BK
28g	Red	LET18RD

### 118ml WITH BRUSH APPLICATOR

Weight	Colour	Code
118ml	Black	LET118BK
118ml	Red	LET118RD

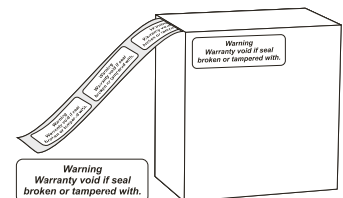


## Miscellaneous

### SECURITY LABELS

Tamper-proof seal sticker. Place over screw holes and unit seals to stop tampering. Suit repairs with warranty, etc. Roll of 500 stickers.

Code
WL500



## SOUND DEADENER BUTYL & FOAM

### 3mm Foam + 1.5mm BUTYL 660x330mm

- Thickness: 4.5mm total
- 1.5mm butyl rubber
- 3.0mm honeycomb foam
- Adhesive backed
- Temperature range: -10 - 100°C
- Sheet Size: 660 x 330mm



Code
MAT675

### SOUND DEADENER BUTYL

#### 1.5mm BUTYL 900x330mm

Butyl-based, foil backed sound deadening material with self adhesive backed. 900x330x1.5mm 710g -10°C to 90°C



Code
MAT302





# Tools and Test Equipment

## Glues

### LOCTITE 401 ULTRA FAST

The Best Instant Adhesive  
Cyanoacrylic Ester. For bonding metals  
most plastics, etc. Large 25ml bottle.  
Ultra-fast drying

Code  
LOC401



### LOCTITE 454 GEL

Surface insensitive for  
porous materials inc'  
wood, ceramics, felt, cork,  
etc. More suited than  
LOC401 for gluing pulleys  
onto capstan motors, etc.

Code  
LOC454



### INSTANT ADHESIVE GLUE

Cyanoacrylate  
2 gram tube.  
Bonds instantly.

Code  
ISG2



### TARZANS GRIP

#### SELLEYS GENERAL PURPOSE GLUE

Dries clear. Ideal for ceramics,  
wood, metal, leather, vinyl,  
canvas and many plastics etc.

Size Code  
30ml SEL01



### CONSTRUCTION ADHESIVE

#### PRO-SPEC STRONG-FIX

Solvent based construction adhesive with a non-runny  
consistency. It is brown in colour as applied and  
is suitable for bonding wood panelling,  
plywood, plasterboard, fibre cement,  
wooden flooring applications,  
ceramic tiles as well as  
general wood repair.

Size Code  
320g SEL04



### ADJUSTMENT LOCKING SEAL

Don't use my good Nail polish dear!  
Purpose made for locking adjustments,  
screws, etc. Tamper Evident Seal 15ml.

Colour Code  
Red EBLR15  
Green EBLV15



## Heat Transfer

### HEAT TRANSFER COMPOUND

#### SILICONE BASE TUBES

Size	Code
5ml / 10g	SIL10
75ml / 150g	SIL150

#### SILICONE BASE SYRINGE

Size	Code
10ml / 20g	RHCS10

#### NON-SILICONE SYRINGES

Size	Code
2ml / 3.0g	HTC03
35ml / 70g	HTC35SL

#### NON-SILICONE ELECTROLUBE

Size	Code
10ml	HTC10S

- Excellent non-creep characteristics
- Very high thermal conductivity; 0.9 W/m.K
- Wide operating temperature -50°C to +130°C
- Low evaporation weight loss
- Easy to use and available in aerosol form, HTCA
- Low toxicity



## Silastic and Sealant

### DOW CORNING HEAT RESISTANT SEALANT

-65°C to +260°C short term 316°C.  
Suitable for industrial ovens and  
boilers, sealing heating elements  
in appliances, flues and general  
applications with heat resistance.

Size	Code
90ml Tube	SIL736-90
300ml Cartridge	SIL736



### SILICONE SEALANT TUBE FOXTEL® APPROVED

#### FOXTEL® APPROVED F30892

Ideal for roofing, gutters  
and outdoor applications.

Foxtel	Code
F30892	AMASC



## Hot Gun Glue

### GLUE STICKS

These 7mm glue sticks are suitable  
for compact hot glue guns. Each  
stick is ~100mm long. Available in  
packs of 6 or 50 pieces.

#### 10cm x 7mm GLUE STICKS

Pack of	Dimensions	Code
6	100x7mm	NGGS6
50	100x7mm	NGGS50

#### 12mm GLUE STICKS

Pack of	Dimensions	Code
6	100x12mmØ	GGs10
10	300x12mmØ	GGs103



HOT GLUE GUNS  
ARE AVAILABLE



## □ Electronics Repair

### CONDUCTIVE SILVER GREASE

CHEMTRONICS CIRCUIT WORKS  
Pure silver & advanced silicone lubricants for premium electrical and thermal conductivity. Chemically inert, fully tested & suitable for metal rubber & plastic. Ideal for switch contacts, etc.

Weight	Code
6.5g	CW7100



### SILVER CONDUCTIVE PAINT

Dries to leave a conductive path.  
Suit PCB repair & connections to non-solderable materials, repairs rear demisters, etc. Excellent adhesion & conduction properties. Simply paint on. 3g Phial.

Code
SCP003



### OVER COAT PEN

Protective conformal overcoat paint in an easy applicator pen. 5g (0.16oz) Applies a tough coat for insulating and protecting against corrosion, shorting and high voltage arcing.

Weight	Colour	Code
5g	Green	CW3300G



### RUBBER ROLLER RESTORER

#### 250ml PUMP SPRAY

Specially developed to restore texture to rubber grip rollers by removing hardened deposits. It can be applied by either spraying directly onto the rubber roller then wiped off with a clean cloth or by spraying the restorer onto a cloth and wiping the roller with a dampened cloth. Ideal for use on printers, fax machines and photocopiers.

Size	Code
250ml/195g	RRR250



## □ Grease Lubricants

### BEARING GREASE YELLOW

#### GERMAN

For roller bearings, friction bearings and toothed wheels.

Size	Code
35g	GR5143



### UNIVERSAL LUBRICATING OIL

Professional quality machine oil.  
Suitable for lubrication of sewing machine, Zippers, Locks, Roller Bearing and other moving metal parts.

Size	Code
100ml	OL100



### MOLYKOTE DX PASTE

White Grease 50g Tube.  
Dow Corning German Lubricant Heavy load Surfaces & bearings Molybdenum disulphide grease Weather resistant. 50g Tube. Anti-corrosive. Not hazardous.

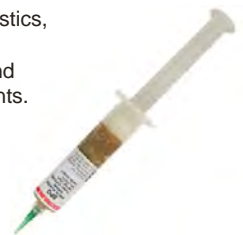
Size	Code
50g	MK6195



### SPECIAL PLASTICS COMPATIBLE GREASE

Synthetic mechanical lubricant for thermoplastics, Polycarbonates, ABS, etc. Also known as Montage grease. Ideal for switch contacts and Plastic to Plastic, Plastic to Metal friction points. eg. Photocopiers, timers, etc... Light-brown colour. Non-melting.

Size	Code
35ml	SPG35SL



### MOLYKOTE BR 2 PLUS

#### MoS2 LANGZIET FETT

Dow Corning High Performance Grease. -30 to 130°C Lithium Soap.

Size	Code
100g	LM47



### CONTACT TREATMENT GREASE

An extra high quality non-melting grease for the most critical applications where long term performance and reliability are essential. High tenacity for vertical surfaces, sliding contacts. Anti-static, safe on most plastics, paint and rubber.

Size	Code
35ml/35g	SGB35SL



### SUPER-LUBE IN A TUBE

Synthetic grease with Synolon (Teflon) PTFE has high temperature tolerance 230°C. Highly lubricious, clear and non-toxic. Excellent dielectric properties. Impervious to salt water. USA made.

Size	Code
85g	SL21030



### BEARING GREASE

This mineral oil based thickened grease is well suited to a wide range of industrial and automotive applications. This general purpose grease has excellent water resistance and rust inhibiting properties. It also has excellent mechanical and thermal stability within its wide operating temperature range of: -30 to 120°C.

Weight	Code
200g	LGMT2



More Super-Lube Options - Next page...





# Tools and Test Equipment

## Super-Lube

### SUPER-LUBE SYNTHETIC LUBRICANTS

Super Lube is a patented, multi-purpose, synthetic, exceptionally pure lubricant containing SYNCOLON® (PTFE) particles held in suspension. Super Lube lasts longer and out performs conventional petroleum based greases and oils because there are no impurities or sediments left behind by a crude oil refinement process. It will not oxidize, form gummy carbon deposits or solidify. Temperature tolerance is extended (-43°C to 230°C continuous). Super-Lube also offers improved resistance to water, salt water, acids, alkalies, detergents, conduction and repels dirt, grit, grime, rust, corrosion, etc. It is odourless and non-toxic. Made by Synco in the USA. This new range of lubricant is suitable for the home, workshop or industry and is available in several convenient applicators; As a grease in tubes or slightly more malleable lubricant in a can or syringe. PTFE = Polytetrafluoroethylene (Teflon) [www.super-lube.com](http://www.super-lube.com)



#### SUPER-LUBE IN A CAN 170g

Lubricates, protects, clear, will not stain, bio-degradable, impervious to salt water, etc. Perfect for outdoor equipment, fishing, tools, tracks, etc.



Code  
SL31040

#### SUPER-LUBE IN A PEN 7ml

Synthetic lubricant in a convenient syringe applicator. Penetrates, lubricates and extends the life of machinery and equipment. Bearings, chains, hinges, zippers, locks, toys, etc.



Code  
SL51010

#### SUPER-LUBE IN A TUBE 85g

Synthetic grease. Highly lubricious, clear and non-toxic. Excellent dielectric. Impervious to salt water.



Code  
SL21030

#### SUPER-LUBE IN A TUBE 12g

Lubricates, protects, clear, will not stain, bio-degradable, impervious to salt water, etc. Perfect for outdoor equipment, fishing, tools, tracks, etc.



Code  
SL21010

### SUPER-LUBE SILICONE DIELECTRIC GREASE 85g

#### SUPER-LUBE GREASE

Silicone Dielectric Grease protects and insulates electrical components and contact points. Food grade purity. 85g tube. USA.



Code  
SL91003

## Silicone

### HELMAR SILICONE SPRAY

Industry leader Lubricates & Protects Non-staining. Suitable for home, sporting, automotive, industrial.

Size Code  
300g H4000



## Heat Compound Paste

### FREEZER

-55°C for fault finding, etc. Low residue. Spray cans.

Brand.	Size	Code
CRC	300g	CRC2039
Electrolube	400ml	FRE400H



### SMOKE DETECTOR TESTER

#### SIMULATES SMOKE

Designed for testing Ionisation and Photoelectric type. Smoke alarms and detectors. 71g net weight. CFC Free. Note :- Road transport Only.

Code  
CRC2105



### AIR DUSTER BLOWER CANS

#### AIR BRUSH CANS Inert gas

Brand.	Size	Code
AF	200ml	AFDUS200
AF	200ml	SDU200D
AF	342ml	ASDU400D
AF	400ml	ASDU400DA
CRC	300g	CRC2066
Electrolube	400ml	EAD400D
Electrolube	400ml	EADP400D



### CONTACT CLEANERS

#### NON-SILICONE BASE (protective film residue)

Type	Size	Code
CRC 2.26 cleaner, stable, inert, organic, displaces water, moisture.	450g	CRC2005
Contact Cleaner Lubricant	175g	CCL175
Cleaning	200ml/140g	EML200F
Dry-Glide Dry film lubricator - PTFE	150g	CRC3040

#### SILICONE BASED (Si)

Description	Size	Code
Helmar Silicone Lubricant	300g	H4000
CRC Silicone. Lubricates, waterproofs & leaves a clear film.	300g	CRC2094

#### NON-RESIDUE TYPES

Description	Size	Code
CO contact cleaner - evaporates completely	350g	CRC2016
Cleaning Solvent Isopropanol	400ml 325g	IPA400H
Ultrasonic Spray Can	400ml 325g	ULS400D

### SELLEYS RP7

Multi-purpose lubricating and penetrating spray which displaces water and inhibits corrosion. Plastics rubber safe.

Size Code  
300g SEL03





## □ Aerosols

Beware! The propellants used in some aerosol products may be flammable. Do Not spray at a Naked Flame! Government regulations classify aerosols as "dangerous goods". As a result we can not send aerosols by air freight or mail. Therefore please allow extra time for deliveries containing these products as they can only be transported by road.



### CRC® SERVICE PRODUCTS

A long established company who has been manufacturing service aids for many years. Australian made. Complies with all CFC regulations. See Warning

Type	Size	Code
CRC 2.26 cleaner, stable, inert, organic, displaces water, moisture.	450g	CRC2005
CO contact cleaner - evaporates completely	350g	CRC2016
Lectra clean. Heavy duty cleaner and degreaser	400g	CRC2018
CRC Freeze spray. Inert coolant	300g	CRC2039
Red urethane seal. Insulating and protective varnish	300g	CRC2044
Clear urethane seal. Insulating & protective varnish	300g	CRC2049
Air Duster. Non-Flammable. Non-Corrosive. Moisture Free	300g	CRC2066
Zinc It. Forms a tough & flexible anti-rust coating	350g	CRC2085
CRC Silicone. Lubricates, waterproofs & leaves a clear film.	300g	CRC2094
Smoke Detector Test in a can - Simulates smoke	71g	CRC2105
Dry-Glide Dry film lubricator - PTFE	150g	CRC3040
Silicone 808 Multi-purpose Enhancer lube' protect	330g	CRC3055
GLASS Antistatic cleaner for TUBE type displays	200g	CRC3070
Degreaser, Natural, Biodegradable, non-chlorinated.	400g	CRC3076
Adhesive Lubricant suits chain, gear, slide, etc.	300g	CRC5035
Lubricant multi-purpose high strength anti-corrosion non-conductive	300g	CRC3017
CRC GEL TAC Adhesive Lubricant 350g	350g	CRC3135



### CHEMTOOLS® ELECTRONIC AEROSOLS & SOLDER PRODUCTS

Chemtools have been supplying high quality products and chemicals to a wide variety of industries at competitive prices for over 20 years. We are committed to manufacturing and supplying 'best in class' products to our customers in Australia, NZ, and around the world.

- Chemtools are Australian owned and operated. Our products are proudly made and manufactured locally.

Type	Size	Code
RMA Flux	55ml	BS550
Circuit board cleaner	175g	CBC175
Contact Cleaner Lubricant	175g	CCL175
Soldering Iron Tip Cleaning Paste	20g	CTTC2
Electronic Cleaning Solvent	175g	ECS175
Circuit Board Lacquer	175g	LQR175
Heat Sink Compound Syringe. Silicone	10ml / 20g	RHCS10
Multipurpose Lubricant R1 DEOX	150g	RML150



### ELECTROLUBE® SERVICE PRODUCTS

ELECTROLUBE products are market leaders and are of the highest import quality. All products comply to Australian government CFC regulations and are ozone friendly. Please read the warning above.

Description	Size	Code
Anti-Static Foam Cleanser Aerosol	400ml	AFC400H
Anti-Static Pump Spray - Vinyl Cleaner	250ml	ASA250
Clear Protective Lacquer Aerosol	200ml/100g	CPL200H
Conformal Coating Aerosol	200ml/160g	DCA200H
Red conformal coating to protect the PCB	200ml	DCR200H
Dry Film Lubricant Aerosol	200ml/160g	DFL200D
Air Duster. For removal of dust and dirt	400ml	EAD400D
Air Duster. For removal of dust and dirt. Invertible can.	400ml	EADP400D
Air Duster Invertible can	200ml	EADPI200D
Electronic Cleaning Solvent Residue Free	400ml	ECSP400
Electrolube Contact Cleaner Lubricant	200ml/140g	EML200F
After clean rinse. Removes other cleaning residues.	400ml	ESRI400H
Flux Remover Fluxclene	400ml/325g	FLU400D
Electrolube Freezer with low GWP	400ml	FRE400H
Graffiti Remover Gel cleaner	400ml	GRG400
Heat Transfer Compound Syringe	35ml / 70g	HTC35SL
Cleaning Solvent Isopropanol	400ml 325g	IPA400H
Label remover (lifts sticky goo)	200ml/165g	LRM200D
Poly-Urethane Coating DEF STAN 59-47	400ml/275g	PUC400
Rubber Roller Restorer	250ml/195g	RRR250
Silicone Grease Compound Spray Can	200ml/145g	SCO200H
Silver Conductive Paint Bottle	3g Phial	SCP003
Electronic Contact Treatment Grease	200ml	SGB200
Contact Treatment Grease Syringe	35ml/35g	SGB35SL
Special Plastic Grease Syringe	35ml	SPG35SL
Safewash PCB Cleaner Foam with brush	400ml/390g	SWA400H
Ultrasonic Spray Can	400ml 325g	ULS400D







# Tools and Test Equipment

## □ Safety Equipment PPE

### SAFETY GLASSES EW-2 SERIES

#### MEDIUM IMPACT POLYCARBONATE 99.9% UV PROTECTION

Lenses are with anti-scratch coating on both sides. Ultra lightweight, wrap around & close fit design with moulded nose bridge for all day comfort. Clear & smoke lenses are also available with plain temple for printing your own logo. Made & Certified to AS/NZS 1337.1:2010 Lic 557823 Benchmark. Individual pack with plain Euro slot poly bag & plain inner box

Code  
EW-2511



### SAFETY GLASSES EW-4 SERIES

#### MEDIUM IMPACT EYE PROTECTION & 99.9% UV PROTECTION

- Medium impact protection & 99.9% UV Protection.
- All polycarbonate lenses with anti-scratch coating on both sides.
- Nylon frame/temple/arm tips half frame design with adjustable length temple arms for optimal fit.
- Soft silicone nose piece for all day comfort.

Colour	Code
Black Frame & Clear Lenses	EW-4511
Smoke Frame & Lenses	EW-4512
Black Frame & Silver Reflective Lenses	EW-4521
Black Frame & Silver/Smoke Reflective Lenses	EW-4522
Black Frame & Blue Reflective Lenses	EW-4523



EW-4511



EW-4512



EW-4521



EW-4522



EW-4523

### SAFETY GLASSES EW-6 SERIES

#### MEDIUM IMPACT EYE PROTECTION & 99.9% UV PROTECTION

- Super light weight & contemporary design for the most comfortable fit.
- All polycarbonate lenses with anti-scratch coating on both sides.
- Exclusive ventilated half frame design with crystal frame.
- Soft co-injected TPR (Thermal Plastic Rubber) non-slip arm tip.
- Extremely soft non-slip PVC nose piece.

Colour	Code
Clear Frame & Clear Lenses	EW-6511
Smoke Frame & Tinted Lenses	EW-6512
Light Brown Frame & Silver Reflective Lenses	EW-6521
Dark Frame & Silver Tinted Lenses	EW-6522



EW-6511



EW-6521



EW-6512



EW-6522

### SAFETY GOGGLES TINTED

Protect your eyes and comfortable to wear. Attractive styled Hinged glasses. Tinted. Safety Specifications AS/NZS 1337 LIC 2144. Medium impact anti-scratch 99.9% UVP

Code  
WWP1620



### CLEAR ANTI FOG SAFETY GLASSES

#### SUPER LIGHTWEIGHT

All Polycarbonate Lenses with anti-scratch coating on both sides. It has Medium impact Protection & 99.9% UV protection. Super Lightweight, wrap around & close fit design with soft rubber arm tips for all day comfort. Moulded nose bridge and stylish temple & arm tips.

Code  
EW-3511



### SAFETY OVER-GLASSES

Light weight. They are worn over prescription glasses or by themselves. Free of distortion. Medium impact anti-scratch Clear lens.

Code  
WWP3000



### FACE SHIELD - DIRECT SPLASH PROTECTION

#### CE Approved - Meets standard for EN1731

Fully transparent protective mask, anti-fog, anti-splash  
Lightweight and comfortable to wear  
Effectively protect your entire face  
Foam headband relieves pressure

- Meets standard for EN1731 - CE Approved

Code  
MSK-FACE





## □ Face Masks PPE

### FACE MASK 3 LAYER - EN149 FFP2

#### POPULAR DISPOSABLE FACE MASK

3 ply face mask, Non-woven, Melt blown cloth, Non-woven with high breath-ability, moisture-proof, non-toxic, non-irritating, filters out bacteria, virus, dust, pollen and smoke. Stay healthy and safe when at work or out and about by wearing a disposable face mask. A full-width nose piece guarantees a proper fit, easily slide over the ear with a soft elastic loop which holds the mask securely to the wearer, men and women.

QTY	Code
10 per pack	MSK410-10
50 per box	MSK410-50



Not for Surgical use

### FACE MASK 3 LAYER - EN14683 TYPE IIR

#### AS4381: ASTM Level 3 - ASTM F 2100-2019

3 ply face mask, Non-woven, Melt blown cloth, Non-woven with high breath-ability, moisture-proof, non-toxic, non-irritating, filters out bacteria, virus, dust, pollen and smoke. Stay healthy and safe when at work or out and about by wearing a disposable face mask. A full-width nose piece guarantees a proper fit, easily slide over the ear with a soft elastic loop which holds the mask securely to the wearer, men and women.

QTY	Code
10 per pack	MSK110-10
50 per box	MSK110-50



Not for Surgical use

### FACE MASK 3 LAYER - SMALL SIZE FOR MINORS

This 3 layer face mask features a contoured design for a secure fit for children aged between 4 to 12. Triple layered protections and skin-friendly. These non-woven fabric face masks are easy to breathe through for comfortable, all-day wear. Each pack includes 50 face masks.

QTY	Code
50 per box	MSK425-50



### FACE MASK 5 LAYER - FFP2 EN149 GB2626-2006 KN95

#### 5 LAYER SHAPE FORMED FOR EXTRA COMFORT & BETTER FIT

5 Layer thickened layered for a strong defence against bacteria and viruses. Made with high quality non-woven material, excellent antibacterial and deodorising effect. Soft, comfortable and non irritating melt-blown fabric with PFE≥95%. Adjustable nose clip fixed on the top layer, no damage to the inter-layers. Sterilised by irradiation at low temperature.

QTY	Code
10 per pack	MSK211-10
50 per pack	MSK211-50



Not for Surgical use

### CLOTH FACE MASK - WASHABLE

#### PM2.5 FACE MASK REPLACEMENT FILTERS X25

5 Ply filters including activated carbon. Minimum particle filtration size: >2.5µm (particle diameter). Filter Efficiency 98.2% Suits most cloth masks. Supplied in a pack of 25 Filters. 125x80mm

QTY	Code
25 per pack	MSK-PM25



### CLOTH FACE MASK - WASHABLE

#### CLOTH MASK WITH 2x FILTERS

Washable up to 30 times. Natural fibre against face, durable outer cloth. Includes two replaceable filters. Adjustable nose clip. Black Colour. Spandex elastic straps. Outer: Polyester(94%), Spandex(6%) Inner: Cotton(97.5%), Spandex(2.5%)

QTY	Code
Single	MSK520-1







# Tools and Test Equipment

## □ Face Masks - Cup Shaped

### FACE MASK WITH FFP2 NR NON-MEDICAL

FFP2 NR half mask, cup-shaped, with nose wire and elastic laces. Made with needle-punched cotton, and melt-blown fabric. This protective mask helps to filter out particulate matter. Meet the (EU) 2016/425 standard for PPE. Non-reusable. Each packs includes 20 masks.

QTY Code  
20 per pack MSK235-20

Not for Surgical use



### FACE MASK WITH BREATHER VALVE FFP2 NR NON-MEDICAL

FFP2 NR half mask, cup-shaped, with exhalation valve, nose wire and elastic laces. Made with needle-punched cotton, and melt-blown fabric. This protective mask helps to filter out particulate matter. Meet the (EU) 2016/425 standard for PPE. Non-reusable. Each packs includes 20 masks.

QTY Code  
20 per pack MSK236-20

Not for Surgical use



## □ Thermometers PPE

### THERMOMETER NON-CONTACT INFRARED WITH LOG

#### CE APPROVED

Non-Contact, accurate and comes with fever alarm. This IR digital thermometer can be used to read the temperature of your forehead/surface of body with no physical contact. It features a large 3 colours backlit display, reliable sensor, quick measurement and it has intuitive buttons to quickly change settings, such as Body mode and Object mode or switching unit between °C or °F. Measurement range: 32°C - 42.9°C for human body, 0°C-100°C for objects. It can store and recall the last 32 measurements. Requires 2x AA batteries (sold separately). ISO13485, CE approved.

Code  
TEMP-F101



### THERMOMETER INFRARED NON-CONTACT

#### CE APPROVED

Non-Contact, high measurement accuracy and comes with fever alarm. This IR digital thermometer can be used to read the temperature of your forehead or surface of body with no physical contact. It features a large backlit display, quick 1s measurement. Measurement range: 32°C-42.9°C (for body) and 0°C-100°C (for object). You can switch between °C or °F. And it stores the last 32 measurements. Easy to use with one button press. Requires 2x AAA batteries (sold separately). CE approved.

Code  
TEMP-F106





## □ Gloves Medical PPE

### VINYL CLEAR SINGLE USE POWDER FREE GLOVES 4.5g - MEDICOM VITALS

Medicom Vitals™ Vinyl powder free gloves feature a smooth finish for increased tactile sensitivity and wearer comfort. Latex-free, ideal for users with latex allergies. Single use, non-sterile. 100 gloves per box (i.e. 50 pairs).

Size	Colour	QTY	Weight	Code
Small	Clear	100	4.5g	GLV106-SML
Medium	Clear	100	4.5g	GLV106-MED
Large	Clear	100	4.5g	GLV106-LGE
Extra Large	Clear	100	4.5g	GLV106-XL



### VINYL BLUE SINGLE USE POWDER FREE GLOVES 4.5g - MEDICOM VITALS

Medicom Vitals™ Vinyl powder free gloves feature a smooth finish for increased tactile sensitivity and wearer comfort. Latex-free, ideal for users with latex allergies. Single use, non-sterile. 100 gloves per box (i.e. 50 pairs).

Size	Colour	QTY	Weight	Code
Small	Blue	100	4.5g	GLV107-SML
Medium	Blue	100	4.5g	GLV107-MED
Large	Blue	100	4.5g	GLV107-LGE
Extra Large	Blue	100	4.5g	GLV107-XL



### NITRILE MEDICAL EXAMINATION GLOVES 3.5g - MEDICOM SAFETOUCH ADVANCED SLIM

#### COMPLIES WITH ASTM D6319

The SafeTouch® Advanced Slim™ blue textured nitrile medical examination gloves. 100 gloves per box (is 50 pairs).

Size	QTY	Weight	Code
Small	100	3.5g	GLV102-SML
Medium	100	3.5g	GLV102-MED
Large	100	3.5g	GLV102-LGE
Extra Large	100	3.5g	GLV102-XL



### NITRILE MEDICAL EXAMINATION GLOVES 5g - MEDICOM SAFETOUCH ADVANCED GUARD

#### COMPLIES WITH ASTM D6319

The SafeTouch® Advanced Guard™ blue or black textured nitrile medical examination gloves. 100 gloves per box (is 50 pairs).

Size	Colour	QTY	Weight	Code
Extra Small	Black	100	5g	GLV104-XS
Small	Blue	100	5g	GLV103-SML
Small	Black	100	5g	GLV104-SML
Medium	Blue	100	5g	GLV103-MED
Medium	Black	100	5g	GLV104-MED
Large	Blue	100	5g	GLV103-LGE
Large	Black	100	5g	GLV104-LGE
Extra Large	Blue	100	5g	GLV103-XL
Extra Large	Black	100	5g	GLV104-XL



### LATEX MEDICAL EXAMINATION GLOVES 6g - MEDICOM SAFEBASICS EASY FIT

#### COMPLIES WITH ASTM D3578

Perfect fit, powder-free, non-sterile, beige. Complies with ASTM D3578. 100 gloves per box (is 50 pairs).

Size	QTY	Weight	Code
Extra Small	100	6g	GLV101-XS
Small	100	6g	GLV101-SML
Medium	100	6g	GLV101-MED
Large	100	6g	GLV101-LGE
Extra Large	100	6g	GLV101-XL



### INDUSTRIAL LATEX GLOVES - MEDICOM VITALS INDUSTRIAL

The Medicom Vitals™ Industrial Latex gloves feature are durable, easy to slide on and feature non-slip grip. Suitable for cleaning, painting, catering, or industrial use. These gloves are compliant with HG/T 2584 rubber industrial gloves standard. Each pack includes 12 pairs of individually packaged gloves.

Size	Colour	QTY	Code
Small	Black	12 pairs	GLV105-SML
Medium	Black	12 pairs	GLV105-MED
Large	Black	12 pairs	GLV105-LGE
Extra Large	Black	12 pairs	GLV105-XL







# Tools and Test Equipment

## □ Earmuffs Ear Protection

### EARMUFFS - BLUETOOTH AM/FM

#### BT + RADIO WITH LCD DISPLAY

Stereo AM/FM Radio. Built in Bluetooth module. Handsfree, listen to music after pairing to other Bluetooth devices. 3.5mm Auxiliary input jack for connection to other Audio devices. LCD display for clock and frequency display. Built-in microphone. Comfortable ear pads & adjustable headband. Optimised hearing with high amplification. Operated by 3 x "AAA" batteries. Optional rechargeable battery, sold separately, is rechargeable through a micro USB port.



Code  
ABA840

### EARMUFFS - RADIO AM/FM

15-20dB Ear protection with inbuilt AM/FM Radio. Listen to your favourite AM/FM stations while you work. Sound Level Conversion (SLC80) Class 1 A/NZ Standard 1270:2002 Noise reduction ear protection. With built in AM/FM Stereo Radio. Requires 2x "AA" Batteries.



Code  
ABA330S

### EARPLUGS - SOFT FOAM

Super comfortable malleable foam 3x separate pairs in sealed bags



Code  
ABA106

## □ Gloves General / Work Safety

### GLOVES SOFT CLOTH NYLON

#### SOFT WASHABLE MATERIAL

Protect hands and equipment from fingerprints. Made with Nylon. Reusable, cleanable. Supplied in pairs.

Size	Code
Medium	GLV2-NY-MED
Large	GLV2-NY-LG



### GLOVES SOFT CLOTH COTTON

#### 100% COTTON SOFT

Stretch comfortable. Protect hands and equipment from finger prints, etc. Re-usable, cleanable. 180x180mmØ. Supplied in pairs.

Size	Code
Small	GLV2



### GLOVES SOFT CLOTH WITH ESD NYLON GRIP

#### STATIC DISSIPATIVE COATED

Elastic wrist cuffs Palm and finger coated with antistatic urethane for a non-slip grip.

Size	Code
Small	GLV2ESDS
Medium	GLV2ESDM
Large	GLV2ESDL



### GLOVES RIGGER - ALL COW GRAIN

Leather safety gloves. Comfort & protection. Front and back leather glove. Large universal size. Supplied in pairs.

QTY	Code
Pair	GLV-GR01



### GLOVES ALL POLYESTER WATER PROOF

#### WORK GLOVES LATEX GRIP 5 PAIRS

Soft and thin polyester gloves as excellent grip and elastic wrist cuff.

QTY	Code
5 pairs	GLV150-5



### GLOVES RIGGER - COW GRAIN / CLOTH BACKED

#### CLOTH BACKED FOR BREATHING

Safety gloves made with leather and cloth Large universal size. Supplied in pairs.

QTY	Code
Pair	GLV-GR25



### GLOVES COTTON WITH LATEX GRIP

#### WORK GLOVES - FOUR PAIRS

The large gripper work gloves are made with a breathable cotton and a thickened layer of latex coating.

QTY	Code
4 pairs	GLV150-4



### GLOVES RIGGER - COW GRAIN / CLOTH BACKED

#### ADJUSTABLE CUFF

Safety gloves made with leather and cloth. Large universal size. Supplied in pairs.

QTY	Code
Pair	GLV150-1

