

CHRISTENSEN TOOLS



GENERAL TOOL CATALOGUE GC7

HEAD OFFICE TEL: +27-11-618-3200

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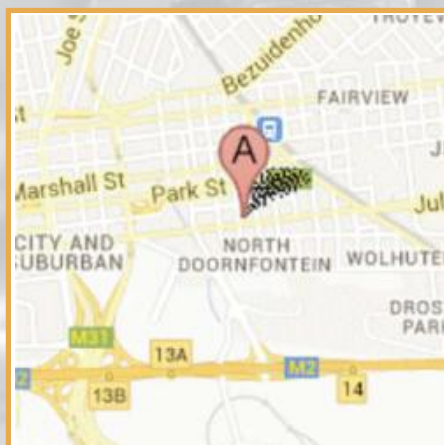
CAPE TOWN TEL: +27-21-551-6320

www.christensen.co.za

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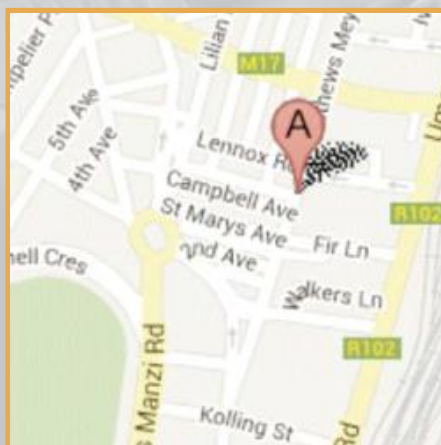
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OUR OFFICES



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TOOLKITS



RSA 301H



RSC 130NB



RSC 802



RSA 130NB - LRG



RSA 1608C-CK



RSA 1808C-CK



RSA 1708C-CK



RSC 1251

TECHNICIANS TOOLKITS & CASES

We have a wide variety of Technicians toolkits & Cases. Many are built up complete with tools (a few examples above), we have many others too. We also have a large selection of empty tool cases and zip-up bags, where you can select specific tools suited to your requirements or industry.

- RSA 1608, 1708, & 1808
- More than 40 loose tools.
- Fitted in specially cut-out two colour foams
- Perfect for Electronics technicians
- Includes screwdrivers, pliers, cutters, soldering iron & many more.
- Also available in aluminium cases (please request pricing)
- Available with latch or combination locks.
- 2 trays of tools, with extra space for additional items
- Easily customised by adding a multi-meter or additional tools

GENERAL ELECTRICIAN TOOLKIT

Product Code: RSA CTE-ETK

STOCK NUMBER	DESCRIPTION	QTY P/K
BKM T18ROR	CABLE TIE, (PKT 100) 2.5mm x 104mm	1
BKM T820	MULTIMETER BIY AC/DC 600V	1
CK AV01010	TRIMMING KNIFE	1
CK AV05050	S/DRIVER SET INSULATED 5PC 1000V	1
CK AV06051	PLIER SET OF 3 PC INSULATED 1000V	1
KAR EX-TORCH	TORCH - 2AA 1W, 20 LUMEN, ALUMINIUM	1
LP IT-B	INSULATION TAPE, 18mmx20m BLACK	1
RSC 1251	ZIP CASE FOR ISCOR WITH SHORT HANDLES	1
VIK SHIFT-150	SHIFTER, PHOSPHATE FINISH 150mm	1
XLT 100-X	WIRE STRIPPER AND CUTTER #43200100	1



ELECTRONIC STARTER TOOLKIT

Product Code: RSA CTE-ELE

STOCK NUMBER	DESCRIPTION	QTY P/KIT
BKM T820	MULTIMETER BIY AC/DC 600V	1
CK 2301	TWEEZER, UNIVERSAL 1mm TIP 115mm	1
CK AV01010	TRIMMING KNIFE	1
CK AV05010	S/DRIVER, JEWELLERS SET OF 6 (LP JEWEL)	1
CK AV05021	DRIVER, CAM - 8 BITS, BLADE LENGTH 100mm	1
KEN 5587470K	PLIER SET - 6PCS MINIATURE	1
ORX 30S-220	SOLDERING IRON SUPER30, 220V AC TEMP BAL	1
RCT 1425	TWEEZER, STRAIGHT 150MM, GUIDE PIN	1
RCT 1449	TWEEZER, BENT 150MM, GUIDE PIN	1
RSC 1251	ZIP CASE FOR ISCOR WITH SHORT HANDLES	1
VIK MULTITOO	MULTITOO BLACK	1



GENERAL ELECTRICAL 25PIECE TOOLKIT

Product Code: RSA CTE-GEK

STOCK NUMBER	DESCRIPTION	QTY P/KIT
BKM T18ROR	CABLE TIE, (PKT 100) 2.5mm x 104mm	1
BKM T820	MULTIMETER BIY AC/DC 600V	1
CK AV01010	TRIMMING KNIFE	1
CK AV02011	TAPE MEASURE 5M	1
CK AV05015	S/DRIVER SET AVIT 7 PIECE	1
CK AV06051	PLIER SET OF 3 PC INSULATED 1000V	1
CK AV07010	SPANNER ADJUSTABLE 200MM (8")	1
CK AV09010	HACKSAW, MINI 150MM	1
KAR DK9301	HEADLAMP - LED 1 WATT 20 LUMEN	1
KAR EX-TORCH	TORCH - 2AA 1W, 20 LUMEN, ALUMINIUM	1
LP IT-B	INSULATION TAPE, 18mmx20m BLACK	1
MTS 1651	ALLEN KEY SET 2-10	1
MTS 3480	FIBRE GLASS CLAW HAMMER	1
MTS 3814	CRIMPER/STRIPPER SET	1
ORX 30S-220	SOLDERING IRON SUPER30, 220V AC TEMP BAL	1
RSC 802	ZIP BAG DOUBLE POUCH C/W SHOULDER STRAP	1
XLT 100-X	WIRE STRIPPER AND CUTTER #43200100	1
XRN 170-11*AS	SIDE CUTTER ESD BLACK HANDLES 170-11*ESD	1



GENERAL MAINTENANCE TOOLKIT

Product Code: RSA CTE-GMK

STOCK NUMBER	DESCRIPTION	QTY P/KIT
BKM T18ROR	CABLE TIE, (PKT 100) 2.5mm x 104mm	1
CK AV01010	TRIMMING KNIFE	1
CK AV05021	DRIVER, CAM - 8 BITS, BLADE LENGTH 100mm	1
CK AV06010	SIDE CUTTER 180MM	1
CK AV06020	COMBINATION PLIER 20MM	1
KAR EX-TORCH	TORCH - 2AA 1W, 20 LUMEN, ALUMINIUM	1
LP IT-B	INSULATION TAPE, 18mmx20m BLACK	1
RSC 1251	ZIP CASE FOR ISCOR WITH SHORT HANDLES	1
VIK MULTITOO	MULTITOO BLACK	1



CELL PHONE REPAIR TOOLKIT

Product Code: RSA CTE-CRK

STOCK NUMBER	DESCRIPTION	QTY P/KIT
CK 2301	TWEEZER, UNIVERSAL 1mm TIP 115mm	1
KEN 5582530K	PLIER LONG NOSE 115MM S/STEEL	1
KEN 5582540K	PLIERS - MICRO NIPPERS 120mm	1
LP IPHONEREP	IPHONE REPAIR KIT 8PC PRY TOOL & PENTAL	1
LP MACREPAIR2	REPAIR KIT	1
LP PENT-MAC	PENTALOBE S/DRIVER 1.2MM FOR MACBOOK AIR	1
LP PENTALOBE	CHRISTENSEN IPHONE 4 S/DRIVER PENTALOBE	1
LP SPUDGER	OPENING TOOL PLASTIC	1
RCT 1425	TWEEZER, STRAIGHT 150MM, GUIDE PIN	1
RCT 1449	TWEEZER, BENT 150MM, GUIDE PIN	1
RSC 130NB-LRG	130 ZIP CASE LARGE	1
WK AK-1	OLFA ART KNIFE - AK1 WITH 25 BLADE	1
XRN 170-11*AS	SIDE CUTTER ESD BLACK HANDLES 170-11*ESD	1



BASIC COMPUTER TECHNICIAN TOOLKIT

Product Code: RSA CTE-COMP

STOCK NUMBER	DESCRIPTION	QTY P/KIT
BKM T18ROR	CABLE TIE, (PKT 100) 2.5mm x 104mm	1
BKM T820	MULTIMETER BIY AC/DC 600V	1
BTS BW103H-L6	WRIST STRAP, 3SNAP 4BAN/CROC CLP S/BBLUE	1
CK 1355	MAGNETIC PICKUP, TELESCOPIC & PEN 630mm	1
CK AV05010	S/DRIVER, JEWELLERS SET OF 6 (LP JEWEL)	1
CK AV05015	S/DRIVER SET AVIT 7 PIECE	1
KAR EX-TORCH	TORCH - 2AA 1W, 20 LUMEN, ALUMINIUM	1
KEN 5583410K	CUTTING PLIERS - HIGH TENSILE 6-3/8"	1
KEN 5587470K	PLIER SET - 6PCS MINIATURE	1
LP B2	BRUSH 25MM EVERYMAN	1
LP IT-B	INSULATION TAPE, 18mmx20m BLACK	1
MTS 1651	ALLEN KEY SET 2-10	1
ORX 30S-220	SOLDERING IRON SUPER30, 220V AC TEMP BAL	1
RSC 1980	ZIP CASE C/W HANDLES, A4 POCKET & HD ZIP	1
XLT 100-X	WIRE STRIPPER AND CUTTER #43200100	1



CHRISTENSEN ELECTRONIC, ENGINEERS, TECHNICIANS SERVICE KIT



Product Code: RSA 1708C-CK

The ideal kit for Electronics technicians in Television, Radio, Computer and Office Machinery servicing, maintenance & repair industries. This premium toolkit comes equipped with tools to enable you to perform your job as a technician effectively and professionally. Toolkit can be used by any technician that is in production, maintenance or repair of electronic products.

The 1700 case is made of a wooden frame and vinyl covering with reinforced metal corners. The kit has 2 removable trays of tools and a framework of dividers at the base of the case where additional tools or components may be stored.

The tools shown are available in 3 different cases:

Standard black "leather like" material attache case Case only: Order No. RSC 1700

Std black case also available with combination locks Order No. RSC 1700COMBI

Aluminium case. (Dust proof and very sturdy, almost airline proof) Case only: Order No. RSC 1700ALI.

Explorer cases (above cases are suggestions and are not supplied as std)

For a list of the contents please go to www.christensen.co.za.

Please note: Items subject to change depending on stock availability.



CHRISTENSEN DELUXE ELECTRONIC, ENGINEERS, TECHNICIANS TOOLKIT



Product Code: RSA 1808C-CK

The ideal kit for Electronics technicians in Television, Radio, Computer and Office Machinery servicing, maintenance & repair industries. This premium toolkit comes equipped with tools to enable you to perform your job as a technician effectively and professionally. Toolkit can be used by any technician that is in production, maintenance or repair of electronic products.

This kit uses the 1700 case and has 2 removable layers of tools and a framework of dividers in the base where additional tools or spares could be housed. This toolkit has a myriad of screwdrivers, pliers, cutters, a gas soldering iron & electric iron too, just to name a few. Perfect for electronics technicians.

The tools shown are available in 3 different cases:

Standard black "leather like" material attache case RSC 1700

Case Also available with combination locks. RSC 1700COMBI

Aluminium case. (Dust proof and very sturdy, almost airline proof) RSC 1700ALI

Explorer cases (above cases are suggestions and are not supplied as std)

For a list of the contents please go to www.christensen.co.za. Please note: Items subject to change depending on stock.



TOOLCASES & BAGS



TECHNICIAN'S TOOL CASE PLUS

ITEM: MA2632

1. 50 pockets and holders including 4 fold out panels for easy tool access.
2. 100% waterproof and crackproof rubberised base.
3. Padded handle and shoulder strap for maximum comfort.
4. Padded central compartment fits laptop.
5. Internal document pocket.



TECHNICIAN'S RUCKSACK

ITEM: MA2631

1. Mobile phone holder.
2. Internal and external document pockets.
3. 31 pockets and holders including fold out panels for



TOOLCASES & BAGS



MAXI BAG

ITEM: MA2628

1. 100% waterproof and crackproof rubberised base.
2. Padded handle and shoulder strap for maximum comfort.
3. Long handles so it can be carried open.
4. Internal storage area with 12 additional pockets and holders.



MINI BAG

ITEM: MA2627

1. 100% waterproof and crackproof rubberised base.
2. Padded handle and shoulder strap for maximum comfort.
3. Long handles so it can be carried open.
4. Internal storage area with 12 additional pockets and holders.



TECHNICIAN'S TOOL CASE ITEM: MA2718

1. 30 pockets to carry a range of tools.
2. Can be used as roll or for wall hanging.
3. Padded handle.

TECHNICIAN'S TOOL CASE ITEM: MA2719

1. Stores up to 9 chisels.
2. Padded handle.



TOOLCASES & BAGS



BUILDER'S TOOLBELT SET
ITEM: MA2714
AND
ELECTRICIAN'S TOOLBELT SET
ITEM: MA2715

1. Builder's Tool Pouch.
2. Electrician's Tool Pouch.
3. Padded Belt.
4. Drill Holster.
5. Mobile phone holder.



TECHNICIAN'S VEST
ITEM: MA2729



1. 14 pockets and holders for tools, equipment and mobile phone.
2. Fully adjustable.
3. Mesh lining for comfort and breathability.
4. Reflective strip for visibility on site.



TOOLCASES & BAGS



BUILDER'S RIG **ITEM: MA2728**

1. Incorporates padded belt - compatible with C.K Magma tool pouches and holsters.
2. 23 pockets and holders for tools, equipment and mobile phone.
3. Fully adjustable.
4. Mesh lining for comfort and breathability.
5. Reflective strip for visibility on site.





**100% ABSOLUTE
 GUARANTEED
 FOREVER
 PROTECTION**

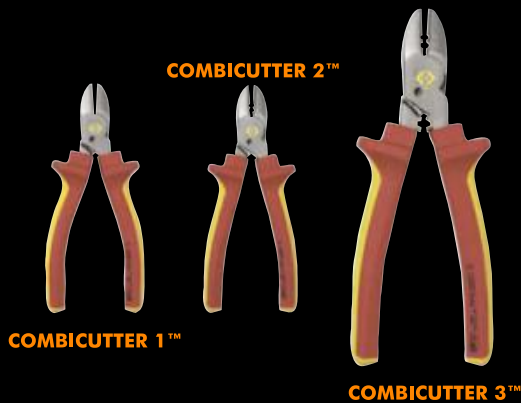




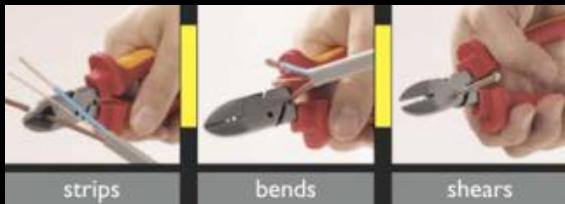
PLIERS & CUTTERS



WHO ON EARTH WOULD DESIGN SOMETHING LIKE THIS?



ELECTRICIANS, THATS WHO!



**the new
C.K. combicutter
range from C.K.
tools**



WIRE STRIPPING SIDE CUTTERS. ITEM:

Side cutters featuring wire stripping notches for 1.5mm sq and 2.5mm sq wire. VDE 0682/201:2005 01, IEC 60900:2004, DIN ISO 5749

ITEM	SIZE	CUTTING CAPACITY mmØ		
		HARD	MED/HARD	SOFT
431019	160mm	1.6	2.5	>4.0



SIDE CUTTERS. ITEM:

Head design gives high leverage and easy, clean cutting. VDE 0682/201:2005 01, IEC 60900:2004, DIN ISO 5749

ITEM	SIZE	CUTTING CAPACITY mmØ		
		HARD	MED/HARD	SOFT
431017	160mm	1.6	2.5	>4.0
431005	180mm	1.8	2.3	>4.0



SIDE CUTTERS HEAVYDUTY. ITEM:

Side cutters featuring wire stripping notches for 1.5mm sq and 2.5mm sq wire.

VDE 0682/201:2005 01, IEC 60900:2004, DIN ISO 5749

ITEM	SIZE	CUTTING CAPACITY mmØ		
		HARD	MED/HARD	SOFT
431006	175mm	2.0	2.5	>4.0
431007	200mm	2.5	3.0	>4.0

ITEM	DESCRIPTION	SIZE	CUTTING CAPACITY mmØ		
			HARD	MED/HARD	SOFT

431004	combicutter1	160mm	1.6	2.5	>4.0
431009	combicutter2	160mm	1.0	1.5	>4.0
431008	combicutter3	160mm	1.0	1.5	>4.0



VDE ELECTRICAL PLIERS & CUTTERS



VDE COMBICUTTER1™

EN 60900, ISO 5749, VDE0682/201, ASTM-F 1505

ITEM: 431004



ITEM NUMBER					
431004	160mm 6"	1.6	2.0	>4.0	3



VDE COMBICUTTER2™

EN 60900, ISO 5749, VDE0682/201, ASTM-F 1505

ITEM: 431009



ITEM NUMBER					
431009	160mm 6"	2.0	2.8	>4.0	3



VDE COMBICUTTER3™

EN 60900, ISO 5749, VDE0682/201, ASTM-F 1505

ITEM: 431008



ITEM NUMBER					
431008	160mm 6"	2.0	2.8	>4.0	3



VDE WIRE STRIPPING PLIERS

EN 60900, VDE0682/201, ASTM-F 1505

ITEM: 431012



ITEM NUMBER					
431012	180mm 7"		0.3-5.0mm		3



VDE PLIERS SET - 3 PIECE

EN 60900, VDE0682/201, ASTM-F 1505

ITEM: 3805



VDE SIDE CUTTERS - STANDARD

EN 60900, ISO 5749, VDE0682/201, ASTM-F 1505

ITEM: 431017, 431005



ITEM NUMBER					
431017	160mm 6"	2.0	2.8	>4.0	3
431005	180mm 7"	2.5	3.0	>4.0	3



VDE SIDE CUTTERS - HIGH LEVERAGE

EN 60900, ISO 5749, VDE0682/201, ASTM-F 1505

ITEM: 431006, 431007



ITEM NUMBER					
431006	160mm 6 1/2"	2.2	3.8	>6.0	3
431007	200mm 8"	2.5	4.2	>6.0	3



VDE CABLE CUTTER

EN 60900, VDE0682/201, ASTM-F 1505

ITEM: 431030



ITEM NUMBER					
431030	160mm 6"			16.0mm	3



VDE CABLE CUTTERS

EN 60900, VDE0682/201, ASTM-F 1505

ITEM: 431031



ITEM NUMBER					
431031	210mm 8 1/4"	1.6	2.0	>4.0	3





VDE PLIERS & CUTTERS



BENT NOSE PLIERS.

VDE 0682/201:2005 01, IEC 60900:2004, DIN ISO 5745

ITEM	SIZE	CUTTING CAPACITY mmØ		
		HARD	MED/HARD	SOFT
431015	200mm	1.6	2.5	>4.0



CABLE CUTTER HEAVY DUTY.

Compact, one handed cable cutter suitable for copper or Aluminium wire, cuts cleanly and effortlessly.

VDE 0682/201:2005 01, IEC 60900:2004

ITEM	SIZE	CUTTING CAPACITY mmØ
		SOFT
431030	165mm	16
431031	210mm	25.0



RATCHET CRIMPING PLIERS FOR FERRULES.

For end sleeve ferrules.

ITEM	SIZE	CUTTING CAPACITY mmØ
		AWG
430018	190mm	0.14 - 2.5 / 26 - 14



COMBINATION PLIERS.

Extra long cutting edges, induction hardened for use on medium and hard wire, round and flat cable.

ITEM	SIZE	CUTTING CAPACITY mmØ		
		HARD	MED/HARD	SOFT
431001	165mm	1.6	2.5	>4.0
431002	185mm	1.6	2.5	>4.0
431003	205mm	2.0	2.8	>4.0



SNIPER NOSE PLIERS.

Serrated inside jaws with rod gripping hole and cutting edges.

ITEM	SIZE	CUTTING CAPACITY mmØ		
		HARD	MED/HARD	SOFT
431013	175mm	1.4	2.0	>4.0
431014	200mm	1.6	2.0	>4.0



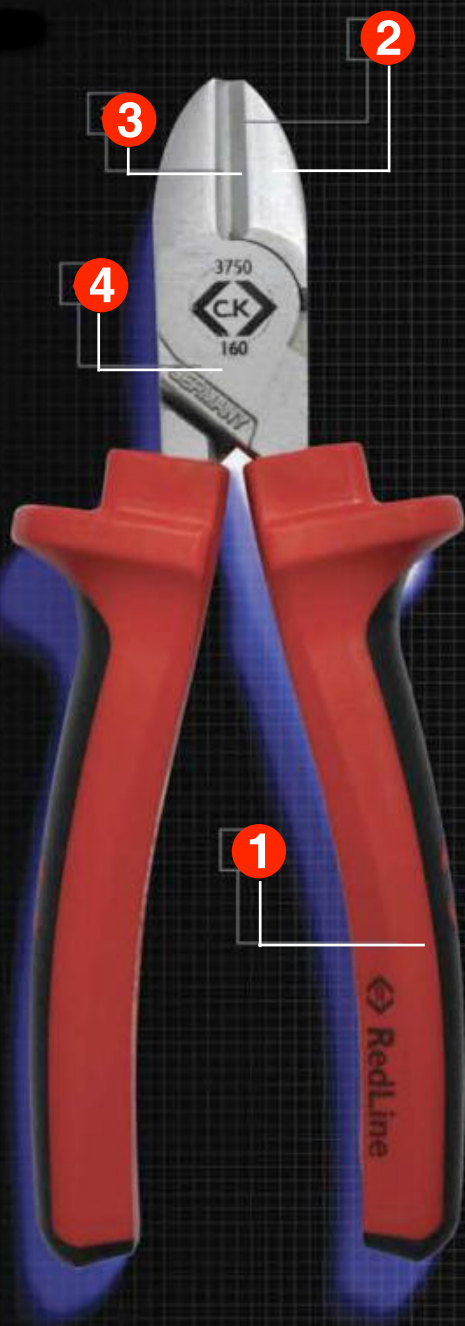
STRIPPING PLIERS.

Ideal for repetitive wire stripping featuring an adjustable capacity and spring assisted opening. Wire capacity of 0.3 - 5.00mm

ITEM	SIZE	STRIPPING CAPACITY mmØ
431012	160mm	0.3 - 5.0



RedLine™



**REDLINE
PREMIUM QUALITY PLIERS & CUTTERS**

1. Two component, ergonomic design, with anti-slip horns for increased comfort & safety.
2. Induction hardened jaws for outstanding long term performance.
3. Cutting jaws with CK optimised geometry for unsurpassed cutting performance.
4. Special alloy steel, forged, hardened & tempered for exceptional strength & durability.



SIDE CUTTERS - STANDARD

ISO 5749

ITEM: 3750 145, 3750 160,
3750 180

ITEM NUMBER					
T3750 145	140mm 5	1.4	1.9	>4.0	3"
		2.0	2.8	>4.0	3"
		2.5	3.0	>4.0	3"



SIDE CUTTERS - HIGH LEVERAGE 2"

IS

		2.2	3.8	>6.0	3"
		2.5	4.2	>6.0	3"



ELECTRICAL PLIERS & CUTTERS



CABLE CUTTERS
ITEM: 431030

ITEM NUMBER				
T3964 6	160mm 6	16.0	3	



COMBINATION PLIERS
ISO 5746
ITEM: 3867 6, 3867 7, 3867 8.

ITEM NUMBER					
T3867 6	160mm 6	1.6	2.5	>4.0	3
T3767 7	180mm 7	1.6	2.5	>4.0	3
T3767 7	200mm 8	2.0	2.8	>4.0	3



SNIPE NOSE PLIERS - STRAIGHT
ISO 5745
ITEM: 3909 5, 3909 6, 3909 8

ITEM NUMBER					
T3909 5	140mm 5	1.2	1.6	>4.0	3
T3909 6	170mm 6	1.4	1.9	>4.0	3
T3909 8	200mm 8	1.6	2.0	>4.0	3



SNIPE NOSE PLIERS - BENT
ISO 5745
ITEM: 3907 8

ITEM NUMBER					
T3907 8	200mm 8"	1.6	2.0	>4.0	3

- Precision engineered jaws for exceptional grip
- Extra long cutting edge for increased cutting capacity

SensoPlus

A NEW HANDLE DESIGN TAILORED TO YOUR HAND'S SHAPE & FEEL

The perfect shape. Scientifically designed with your hand in mind. A grip feeling like a fine kid glove. So much a part of your own hand that it gives you incomparable fatigue-free, safe control for the most-exacting work demands.

OPTIMAL DESIGN ERGONOMICS.

1. Soft, comfortable and slipfree thermoplastic material compound grips.
2. Anti-slip bow enhances pinpoint control.
3. Spot-welded double leaf spring ensures consistently repeatable functioning for a lifetime of top performance.
4. Precision box joint means butter smooth action for exact guidance of jaws without need for readjustment.
5. Mirror polishing notably reduces risks of corrosion, chrome flaking, and is easy to clean.
6. Long-life cutting edges are induction hardened to maintain cutting ease.

Over-all function, beauty, and reliability backed by one of the world's outstanding experts for professional tools.





PLIERS & STRIPPERS



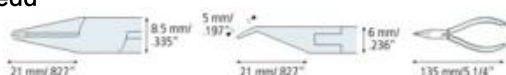
SIDE CUTTERS. ITEM: CK 3773D-115
Oval head




ITEM NUMBER	DESCRIPTION		
3773D-115	Mini bevel. 		
Wire:	hard	soft steel	copper
mm / AWG	0.4 / 26	1.0 / 18	1.5 / 15
3773DF-115	Full flush. 		
Wire:	hard	soft steel	copper
mm / AWG	-	1.0 / 18	1.5 / 15
3773DEF-115	Extra full flush. 		
Wire:	hard	soft steel	copper
mm / AWG	-	1.0 / 18	1.5 / 15



OBLIQUE CUTTERS. ITEM: CK 3871DF-120
Oval head



ITEM NUMBER	DESCRIPTION		
CK 3871DF-120	Full flush. 		
Wire:	hard	soft steel	copper
mm / AWG	-	-	0.6 / 22



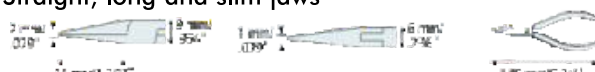
SNIFE NOSE PLIERS. ITEM: CK 3772D-120
Straight



ITEM NUMBER	DESCRIPTION		
CK 3772D-120	Smooth jaws. 		
CK 3772D-120 -1	Serrated jaws. 		



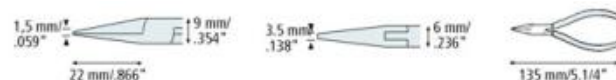
SNIFE NOSE PLIERS. ITEM: CK 3777D 150
Straight, long and slim jaws



ITEM NUMBER	DESCRIPTION		
T3777D 150	Smooth jaws. 		



FLAT NOSE PLIERS ITEM: CK 3770D-120



ITEM NUMBER	DESCRIPTION		
CK 3770D-120	Smooth jaws. 		
CK 3770D-120 -1	Serrated jaws. 		



SensoPlus





ELECTRONIC PLIERS & CUTTERS



3781 Side cutter

Item Number				
T3781	1.5/15	1.0/18	0.3/28	



3778 Oblique cutter

Item Number				
T3778F	1.5/14	1.2/16	0.5/24	

Wide head, long blades.



3786 Oblique tip cutter

Item Number				
T3786F 4	0.8/20	0.6/22	-	



3780 Side cutter

Item Number				
T3780F	1.5/15	0.8/20	-	
T3780EF	1.5/15	0.6/22	-	



3799 Oblique cutter

Item Number				
T3799F	1.2/16	1.0/18	0.4/26	

Straight head.



3772 Snipe nose pliers

Item Number				
T3772				
T3772 1				



3774 Side cutter

Item Number				
T3774	1.5/15	1.0/18	0.4/26	

Laid-in-joint.



3776 Top cutter

Item Number				
T3776EF 5	2.0/12	1.6/14	-	
T3776F	1.5/14	1.2/16	0.5/24	

Wide head, long blades.



3777 Snipe nose pliers

Item Number				
T3777				

Long nose.








ELECTRONIC PLIERS & CUTTERS



3767 Snipe nose plier

Item Number	
T3767	
	

PLIERS & STRIPPERS CUTTERS



CABLE KNIFE 8 – 28 mm 5/16 – 1.1/8" Ø.
ITEM: CK 10280

C.K-Jokari Cable Knife (No. 28H) with new dual-compound handle design for more safety at work. Cable holder with comfortable dualcompound anti-slip finger rest. Double sided trimming blade, straight and hook. Continuously adjustable cutting depth. Automatic setting from round to longitudinal cut. Spare blade included. For easy and quick stripping of sheathing of round cable



COAX CABLE STRIPPER 4,8 – 7,5 mm 3/16 – 9/32" Ø.
ITEM: CK 30010

C.K-Jokari Cable Stripper (Coax) for ingenious and quick stripping of all standard coax cables, e.g. TV-Coax, RG58U, RG59U etc. Also for 3 x 0.75 mm PVC-flex. With length scale. No adjustment necessary. Also for use in very confined spaces, e. g. junction boxes, switch consoles etc.



CABLE WIRE STRIPPER 8 – 13 mm 5/16 – 1/2" Ø.
ITEM: CK 30150

C.K-Jokari Cable Stripper (No. 15) with additional precision wire stripping blades, retractable safety trimming knife blade, splicing blade, pocket clip. For easy and quick stripping of sheathing of round cable from 8 – 13 mm (5/16 – 1/2") Ø. For stripping of solid and stranded conductors of 0.2, 0.3, 0.8, 1.5, 2.5, 4.0 mm² (24, 22, 20, 16, 14, 12 AWG). No adjustment necessary. Also for use in very confined spaces, e. g. junction boxes, switch consoles etc.



CABLE WIRE STRIPPER 5 – 15 mm 3/16 – 5/8" Ø.
ITEM: CK 30160

C.K-Jokari Cable Stripper (PC-Strip) for PVC-insulated dat communication and conductor control cables (e.g. IBM type 1, type 2 etc.). For easy and quick stripping of sheathing of round cable from 5 - 15 mm Ø (3/16 – 5/8"). For stripping of solid and stranded conductors of 0.2, 0.3, 0.8, 1.5, 2.5, 4.0 mm² (24, 22, 20, 16, 14, 12 AWG). No adjustment necessary. Also for use in very confined spaces, e. g. junction boxes, switch consoles etc.



KABIFIX CK WIRE STRIPPER

Description: CABLE STRIPPER, For Use With: Cables, Solid Wires, SVHC: No SVHC (15-Dec-2010), Cable Diameter Max: 1", Stripping Capacity: 28mm², Features: Dual purpose wire stripper and plastic tube, cutting tool – fast and flexible, Cuts and removes insulation from cable, solid conductors and standard wire - quick and safe, Automatically changes from circular to longitudinal cuts, Adjustable cutting depth, Cuts plastic tubing up to 25mm diameter, Replaceable hardened blade, Product Code: CK 430004



MICRO-SHEAR ® FLUSH CUTTER.
ITEM: XRN 170-II

Sets the standard imitators can't meet. Shear cutting greatly reduces cutting effort while providing the shear cut desirable in electronics assembly work. Less cutting effort means fewer fatigue related injuries and complaints. Ultra slim profile increases access in high density areas. Flush cuts soft wire up to 18 AWG (1.0 mm).



KEVLAR ® FIBER SHEAR.
ITEM: XRN 9180

Designed and manufactured specifically for cutting the Kevlar fiber strength component of fiber optic cables. Cushioned Xuro-Rubber grips and return spring provide both comfort and convenience.



LX MICRO-SHEAR ® FLUSH CUTTER.
ITEM: XRN LX 81

Our patented Micro-Shear cutting action combined precision ground cutting extra tough .100" thick high carbon steel blades, and slim profile for access in density areas. Sized for smaller hands and maximum maneuverability. Flush cuts soft wire 16 AWG (1.29 mm).



MAXI-SHEAR ™ FLUSH CUTTER.
ITEM: XRN 2175

An extremely durable and versatile wire cutter featuring our patented Micro-Shear® cutting action. Tough enough for harnesses and cables with the precision to cut material less than 1 mil. thick or work in high density areas. Flush cuts soft wire up to 12 AWG (2.05 mm).



MUSIC WIRE SHEAR.
ITEM: XRN 2193

Large, full by-pass shear designed specifically for cutting music wire and other types of hardened wire. Cuts music wire up to 0.040" diameter.



MICRO-SHEAR ® FLUSH CUTTER.
ITEM: XRN 410

The premium grade version of our world famous 170-II Micro-Shear Flush Cutter. The result is a tough, precise, durable flush cutter capable of reliably and economically cutting soft wire up to 18AWG (1.00mm).





TWEEZERS



 **2390 Positioning tweezers**
DIN EN 61340 5.1 & 5.2

Item Number		i	TYPE
T2390	130mm	CF	259CF

Fine tips.



 **2391 Positioning tweezers**
DIN EN 61340 5.1 & 5.2

Item Number		i	TYPE
T2391	130mm	CF	5CF

Fine, extra slim tips.



 **2392 Positioning tweezers**
DIN EN 61340 5.1 & 5.2

Item Number		i	TYPE
T2392	130mm	CF	249CF

Round tips, 2mm wide.



2330 Precision tweezers

Item Number		i	TYPE
T2330	110mm	SA	5B.SA

Superfine tips, angled at 60°.



2331 Precision tweezers

Item Number		i	TYPE
T2331	115mm	SA	5C.SA

Superfine tips, offset and angled at 60°.



2341 Precision tweezers

Item Number		i	TYPE
T2341	110mm	SA	5B.SA

Superfine tips, straight.



2340 Precision tweezers

Item Number		i	TYPE
T2340	110mm	SA	3C.SA

Fine, sharp tips, straight.



2343 Precision tweezers

Item Number		i	TYPE
T2343	130mm	SA	MM.SA

Fine tips, straight.



2339 Precision tweezers

Item Number		i	TYPE
T2339	110mm	SA	7.SA

Fine tips, curved.



2381 Precision tweezers

Item Number		i	TYPE
T2381	120mm	SA	00D.SA

Flat, blunt tips, finely milled inside.



2359 Positioning tweezers

Item Number		i	TYPE
T2359	150mm	SA	22.SA

Fine, bent tips, fine cross-cut inside.





ESD SCREWDRIVERS



4741ESD Screwdriver set

Item Number



T4741ESD

6 piece screwdriver set

For Slotted and Pozidrive® screws.

Contains: T4725ESD 3.0 x 75, 3.0 x 100, 5.0 x 135, T4723ESD PZ 0 x 60, PZ 1 x 80 PZ 2 x 100.



4741SESD Screwdriver set

Item Number



T4741SESD

6 piece screwdriver set

For Slotted and Phillips screws.

Contains: T4725ESD 3.0 x 75, 3.0 x 100, 5.0 x 125, T4722ESD PH 0 x 60, PH 1 x 80, PH 2 x 100.



4797ESD Screwdriver set

Item Number



T4797ESD

6 piece screwdriver set

Long reach screwdrivers.

Contains: T4725ESD 5 x 250, T4722ESD PH 1 x 300, PH 2 x 300, T4718ESD T 08 x 200, T 10 x 300, T 15 x 300.



Screwdrivers

The range of Xonic ESD screwdrivers consists of 'miniature' sized tools for use in areas where non-ESD products are prohibited.

They have been designed with comfort and ease of use in mind. The handle and hollow rotating cap allow great control in low torque applications.



4880XESD Slotted screwdriver

DIN EN 61340 5.1 & 5.2

Item Number				
T4880XES08	0.8 1/32"	60 2 3/8"	0.20 .008"	97 3 13/16"
T4880XES12	1.2 3/64"	60 2 3/8"	0.25 .010"	97 3 13/16"
T4880XES15	1.5 1/16"	60 2 3/8"	0.30 .012"	97 3 13/16"
T4880XES18	1.8 5/64"	60 2 3/8"	0.30 .012"	97 3 13/16"
T4880XES256	2.5 3/32"	60 2 3/8"	0.40 .016"	97 3 13/16"
T4880XES257	2.5 3/32"	75 3"	0.40 .016"	97 3 13/16"
T4880XES310	3.0 1/8"	100 4"	0.50 .020"	97 3 13/16"
T4880XES315	3.0 1/8"	150 6"	0.50 .020"	97 3 13/16"
T4880XES410	4.0 5/32"	100 4"	0.60 .024"	97 3 13/16"
T4880XES415	4.0 5/32"	150 6"	0.60 .024"	97 3 13/16"



4875XESD PZD/SDV® screwdriver

DIN EN 61340 5.1 & 5.2

Item Number				
T4875X ESD	PZD 0	3.0 1/8"	60 2 3/8"	97 3 13/16"
T4875X ESD 1	PZD 1	4.5 11/64"	80 2 3/8"	97 3 13/16"



4882XESD Phillips screwdriver

DIN EN 61340 5.1 & 5.2

Item Number				
T4882X000ES	PH 000	2.5 3/32"	60 2 3/8"	97 3 13/16"
T4882X000ESD	PH 00	2.5 3/32"	60 2 3/8"	97 3 13/16"
T4882X0 ESD	PH 0	3.0 1/8"	60 2 3/8"	97 3 13/16"
T4882X1 ESD	PH 1	4.5 11/64"	80 3 1/8"	97 3 13/16"





PRECISION SCREWDRIVERS



4877XESD Torx®
screwdriver
DIN EN 61340 5.1 & 5.2

Item Number	i	Ø	Length	Weight	Material
T4877XESD04	T 04	2.5 3/32"	50 2"	97 3 13/16"	
T4877XESD05	T 05	2.5 3/32"	50 2"	97 3 13/16"	
T4877XESD06	T 06	3.5 9/64"	50 2"	97 3 13/16"	
T4877XESD07	T 07	3.5 9/64"	50 2"	97 3 13/16"	
T4877XESD08	T 08	3.5 9/64"	60 2 1/8"	97 3 13/16"	



4838XESD Ball ended
hexagon screwdriver
DIN EN 61340 5.1 & 5.2

Item Number	Ø	Length	Weight	Material
T4838XESD15	3.2 1/8"	50 2"	2.5 9/32"	97 3 13/16"
T4838XESD20	3.5 9/64"	50 2"	2.5 9/32"	97 3 13/16"
T4838XESD25	4.0 5/16"	60 2 1/8"	3.0 1/8"	97 3 13/16"
T4838XESD30	4.5 11/64"	60 2 1/8"	3.5 9/64"	97 3 13/16"



4883 Screwdriver set

Item Number	i
T4883XESD	7 piece screwdriver set

Slotted and Phillips screws.
Contains: T4880XESD 2.5 x 75, 3.0 x 100, 3.0 x 150,
4.0 x 100, 4.0 x 150, T4882XESD PH 0 x 60,
PH 1 x 80.



4884 Screwdriver set

Item Number	i
T4884XESD	4 piece screwdriver set

Slotted and Phillips screws.
Contains: T4880XESD 1.8 x 60, 3.0 x 100, 4.0 x 150,
T4882XESD PH 0 x 60.



precision

Screwdrivers

The Precision range of screwdrivers has been designed with comfort and ease of use in mind. The handle and hollow rotating cap allow great control in low torque applications.

The wide choice of blade types ensures that C.K Precision screwdrivers are suitable for all applications within the professional sector.



4-910 504,25 607

FOR SMARTPHONES AND TABLETS

Ideal for repairing
smartphones and tablets
of the brands:

**APPLE
SAMSUNG
HUAWEI
SONY
etc.**

47-piece precision repair kit in
a practical plastic case



This set consists of:

- Black plastic case with foam insert
180 x 172 x 44 mm
- Suction cup opener, Ø 42 mm
- Opening tool, 120 mm
- Blunt ESD tweezers, 124 mm
- Magnetic ESD bit screwdriver 80 mm, made
of aluminum, with screw cap and extension 110 mm

42 bits in the following sizes:

- | | | |
|---|---------------|------------------------------|
| ⊖ | Slot | 1.0, 1.5, 2.0, 2.5, 3.0 |
| ⊕ | Cross-slot | PH 000, 00, 0, 1 |
| ★ | Torx | T3, T4, T5 |
| ★ | Torx Security | T6, T7, T8, T9, T10, T15 |
| ▼ | Triangle | 1.6, 2.0, 2.2, 2.3 |
| ⚙ | Tri-Point | 0, 1 |
| ■ | Square | S0, S1 |
| ⬡ | Hexagon | 0.9, 1.3, 1.5, 2.0, 2.5, 3.0 |
| ⬠ | Pentalobe | P2, P5, P6 |
| ⊙ | Socket wrench | 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 |
| | SIM-Eject-Bit | |





PRECISION SCREWDRIVERS



4880X Slotted screwdriver

Item Number					
T4880X 08	2.5 3/32"	60 2 3/8"	0.20 0.008"	97 3 13/16"	
T4880X 12	2.5 3/32"	60 2 3/8"	0.20 0.008"	97 3 13/16"	
T4880X 15	2.5 3/32"	60 2 3/8"	0.25 0.010"	97 3 13/16"	
T4880X 18	2.5 3/32"	60 2 3/8"	0.30 0.012"	97 3 13/16"	
T4880X 256	2.5 3/32"	60 2 3/8"	0.40 0.016"	97 3 13/16"	
T4880X 257	2.5 3/32"	75 3"	0.40 0.016"	97 3 13/16"	
T4880X 310	3.0 1/16"	100 4"	0.50 0.020"	97 3 13/16"	
T4880X 315	3.0 1/16"	150 6"	0.50 0.020"	97 3 13/16"	
T4880X 410	4.0 1/32"	100 4"	0.80 0.031"	97 3 13/16"	
T4880X 415	4.0 3/32"	150 6"	0.80 0.031"	97 3 13/16"	



4882X Phillips screwdriver

Item Number	i				
T4882X 000	PH 000	2.5 3/32"	60 2 1/8"	97 3 13/16"	
T4882X 00	PH 00	2.5 3/32"	60 2 1/8"	97 3 13/16"	
T4882X 0	PH 0	3.0 1/8"	60 2 1/8"	97 3 13/16"	
T4882X 1	PH 1	4.5 1 1/16"	80 3 1/8"	97 3 13/16"	



4877X Torx® screwdriver

Item Number	i				
T4877X 04	T 04	2.5 3/32"	50 2"	97 3 13/16"	
T4877X 05	T 05	2.5 3/32"	50 2"	97 3 13/16"	
T4877X 06	T 06	3.5 9/64"	50 2"	97 3 13/16"	
T4877X 07	T 07	3.5 9/64"	50 2"	97 3 13/16"	
T4877X 08	T 08	3.5 9/64"	60 2 1/8"	97 3 13/16"	
T4877X 09	T 09	4.0 1/32"	60 2 1/8"	97 3 13/16"	
T4877X 10	T 10	4.0 1/32"	80 3 1/8"	97 3 13/16"	
T4877X 15	T 15	4.0 1/32"	80 3 1/8"	97 3 13/16"	



4880X/5 Screwdriver set

Item Number	i
T4880X/5	5 piece screwdriver set

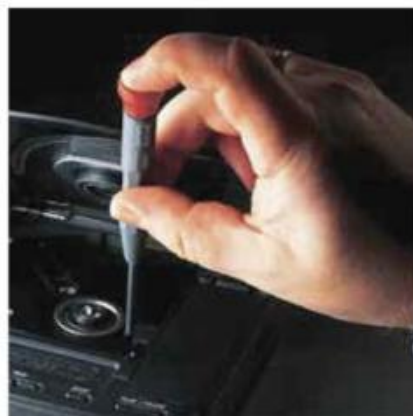
Slotted and Phillips screws.
Contains: T4880X 2.5 x 75, 3.0 x 100, 4.0 x 100,
T4882X PH 00 x 60, PH 0 x 60.



4883X Screwdriver set

Item Number	i
T4883X	7 piece screwdriver set

Slotted and Phillips screws.
Contains: T4880X 2.5 x 75, 3.0 x 100, 3.0 x 150,
4.0 x 100, 4.0 x 150, T4882X PH 0 x 60, PH 1 x 80.



4884X Screwdriver set

Item Number	i
T4884X	4 piece screwdriver set

Slotted and Phillips screws.
Contains: T4880X 1.8 x 60, 3.0 x 100, 4.0 x 150,
T4882X PH 0 x 60.



4874X Screwdriver set

Item Number	i
T4874X	7 piece screwdriver set

Hexagon screws.
Contains: T4873X 0.7 x 50, 0.9 x 50, 1.3 x 50,
1.5 x 50, 2.0 x 50, 2.5 x 60, 3.0 x 60.



4877PX Screwdriver set

Item Number	i
T4877PX	7 piece screwdriver set

Torx® screws.
Contains: T4877X TX 06, TX 07, TX 08, TX 09, TX 10,
TX 15, TX 20.



SCREWDRIVERS

HD CLASSIC



Screwdrivers - Slotted flared

DIN 5264, ISO 2380-2

Item Number					
T4810 03	5mm 1/8"	75mm 3"	0.8mm 0.03"	90mm 3 1/2"	6
T4810 04	6mm 1/4"	100mm 4"	1.0mm 0.04"	100mm 4"	6
T4810 05	7mm 1/2"	125mm 5"	1.0mm 0.04"	100mm 4"	6
T4810 06	8mm 3/8"	150mm 6"	1.2mm 0.05"	110mm 4 1/4"	6
T4810 08	9mm 3/4"	200mm 8"	1.2mm 0.05"	120mm 4 3/4"	6
T4810 10	10mm 1"	250mm 10"	1.6mm 0.06"	130mm 5 1/4"	6
T4810 12	12mm 1 1/8"	300mm 12"	2.0mm 0.08"	130mm 5 1/4"	6



Screwdrivers - Slotted parallel

DIN 5264, ISO 2380-2

Item Number					
T4965 03	3mm 1/8"	75mm 3"	0.5mm 0.02"	70mm 2 3/4"	6
T4975 06	3mm 1/4"	150mm 6"	0.5mm 0.02"	80mm 3 1/4"	6
T4975 08	3mm 1/2"	200mm 8"	0.5mm 0.02"	80mm 3 1/4"	6
T4965 04	4mm 3/8"	100mm 4"	0.8mm 0.03"	80mm 3 1/4"	6
T4975 10	4mm 1/2"	250mm 10"	0.8mm 0.03"	80mm 3 1/4"	6
T4965 05	4.5mm 1/4"	125mm 5"	0.8mm 0.03"	80mm 3 1/4"	6
T4965 06	5mm 3/8"	150mm 6"	0.8mm 0.03"	90mm 3 1/2"	6
T4965 08	6mm 1/2"	300mm 12"	0.8mm 0.03"	90mm 3 1/2"	6
T4965 12	6mm 3/4"	300mm 12"	0.8mm 0.03"	90mm 3 1/2"	6



Screwdrivers - PZ

ISO 8764

Item Number					
T4813 0	PZ0	3.5mm 1/8"	60mm 2 1/2"	70mm 2 3/4"	6
T4813 1	PZ1	5mm 1/4"	80mm 3 1/4"	90mm 3 1/2"	6
T4987 1	PZ1	5mm 1/4"	250mm 10"	100mm 4"	6
T4813 2	PZ2	6mm 1/2"	100mm 4"	100mm 4"	6
T4987 2	PZ2	6mm 1/2"	250mm 10"	110mm 4 1/4"	6
T4813 3	PZ3	8mm 3/4"	150mm 6"	110mm 4 1/4"	6
T4813 4	PZ4	10mm 1"	200mm 8"	120mm 4 3/4"	6



Screwdrivers - PH

ISO 8764

Item Number					
T4812 0	PH0	3.5mm 1/8"	65mm 2 1/2"	70mm 2 3/4"	6
T4812 1	PH1	5mm 1/4"	80mm 3 1/4"	90mm 3 1/2"	6
T4977 1	PH1	5mm 1/4"	250mm 10"	100mm 4"	6
T4812 2	PH2	6mm 1/2"	100mm 4"	100mm 4"	6
T4977 2	PH2	6mm 1/2"	250mm 10"	110mm 4 1/4"	6
T4812 3	PH3	8mm 3/4"	150mm 6"	110mm 4 1/4"	6
T4812 4	PH4	10mm 1"	200mm 8"	120mm 4 3/4"	6



Screwdrivers - Stubby slotted

DIN 5264, ISO 2380-2

Item Number					
T4814 25	6.5mm 1/4"	25mm 1"	1.2mm 0.05"	60mm 2 1/2"	6
T4814 31	8mm 3/8"	25mm 1"	1.2mm 0.05"	60mm 2 1/2"	6



SCREWDRIVERS

DEXTRO



Screwdrivers - Slotted flared

ISO2380, DIN 5264

Item Number					
T49110-040	4.0mm 1/8"	75mm 3"	0.8mm 0.031"	107mm 4 1/8"	6
T49110-055	5.5mm 1/2"	100mm 4"	1.0mm 0.039"	120mm 4 7/8"	6
T49110-065	6.5mm 1/2"	150mm 6"	1.2mm 0.047"	120mm 4 7/8"	6
T49110-100	10.0mm 3/4"	200mm 8"	1.6mm 0.063"	135mm 5 1/4"	6



Screwdrivers - Slotted parallel

ISO 2380-2, DIN 5264

Item Number					
T49125-025	3.0mm 1/8"	75mm 3"	0.4mm 0.016"	95mm 3 7/8"	6
T49125-030	3.0mm 1/8"	75mm 3"	0.5mm 0.020"	95mm 3 7/8"	6
T49125-03025	3.0mm 1/8"	250mm 10"	0.5mm 0.020"	95mm 3 7/8"	6
T49125-035	3.5mm 1/4"	100mm 4"	0.6mm 0.024"	95mm 3 7/8"	6
T49125-040	4.0mm 1/2"	125mm 5"	0.8mm 0.031"	107mm 4 1/8"	6
T49125-055	5.5mm 1/2"	150mm 6"	1.0mm 0.039"	120mm 4 7/8"	6



Screwdrivers - PZ

ISO 8764

Item Number					
T49113-0	PZ0	3.5mm 1/8"	60mm 2 1/4"	95mm 3 7/8"	6
T49113-1	PZ1	5.0mm 1/2"	75mm 3"	107mm 4 1/8"	6
T49113-1250	PZ1	5.0mm 1/2"	250mm 10"	107mm 4 1/8"	6
T49113-2	PZ2	6.0mm 1/2"	150mm 6"	120mm 4 7/8"	6
T49113-2250	PZ2	6.0mm 1/2"	250mm 10"	120mm 4 7/8"	6
T49113-3	PZ3	8.0mm 5/8"	150mm 6"	135mm 5 1/4"	6



Screwdrivers - PH

ISO 8764

Item Number					
T49112-0	PH0	3.5mm 1/8"	60mm 2 1/4"	95mm 3 7/8"	6
T49112-1	PH1	5.0mm 1/2"	80mm 3 1/4"	107mm 4 1/8"	6
T49112-1250	PH1	5.0mm 1/2"	250mm 10"	107mm 4 1/8"	6
T49112-2	PH2	6.0mm 1/2"	100mm 4"	120mm 4 7/8"	6
T49112-2250	PH2	6.0mm 1/2"	250mm 10"	120mm 4 7/8"	6
T49112-3	PH3	8.0mm 5/8"	150mm 6"	135mm 5 1/4"	6



Screwdrivers - TX

Item Number					
T49117-06	T 06	3.0mm 1/8"	70mm 2 3/4"	95mm 3 7/8"	6
T49117-07	T 07	3.0mm 1/8"	70mm 2 3/4"	95mm 3 7/8"	6
T49117-08	T 08	3.0mm 1/8"	70mm 2 3/4"	95mm 3 7/8"	6
T49117-09	T 09	3.0mm 1/8"	70mm 2 3/4"	95mm 3 7/8"	6
T49117-10	T 10	3.0mm 1/8"	80mm 3 1/4"	107mm 4 1/8"	6
T49117-15	T 15	3.5mm 1/4"	80mm 3 1/4"	107mm 4 1/8"	6
T49117-20	T 20	4.0mm 1/2"	90mm 3 1/2"	107mm 4 1/8"	6
T49117-25	T 25	4.5mm 1/2"	90mm 3 1/2"	107mm 4 1/8"	6
T49117-27	T 27	5.5mm 1/2"	110mm 4 3/8"	120mm 4 7/8"	6



C.K. **dextro**TM **VDE**
glo



GLOW IN THE DARK

NEVER LOSE YOUR SCREWDRIVER AGAIN!

FEATURES & BENEFITS:

- > VDE approved: individually tested to 10,000V for safe working up to 1,000V
- > 100% German manufactured: quality and performance assured
- > Dual component, ergonomic handle: specifically designed for use by electricians
- > Premium quality chrome vanadium steel blades: for exceptional strength & durability





SCREWDRIVERS

DEXTRO VDE



VDE Screwdrivers - Slotted parallel

VDE0682/201, ASTM-F 1505, EN 60900, ISO 2380-2, DIN 5264



Item Number					
T49144-025	2.5mm 1/8"	75mm 3"	0.4mm 0.016"	95mm 3 3/4"	6
T49144-030	3.0mm 1/8"	100mm 4"	0.5mm 0.020"	95mm 3 3/4"	6
T49144-035	3.5mm 1/8"	100mm 4"	0.6mm 0.024"	95mm 3 3/4"	6
T49144-040	4.0mm 1/8"	100mm 4"	0.8mm 0.031"	107mm 4 1/8"	6
T49144-055	5.5mm 1/2"	125mm 5"	1.0mm 0.039"	120mm 4 3/4"	6
T49144-065	6.5mm 1/2"	150mm 6"	1.2mm 0.047"	120mm 4 3/4"	6
T49144-080	8.0mm 5/16"	175mm 7"	1.2mm 0.047"	135mm 5 1/8"	6
T49144-100	10.0mm 3/8"	200mm 8"	1.6mm 0.063"	135mm 5 1/8"	6



VDE Screwdrivers - PZ

VDE0682/201, ASTM-F 1505, EN 60900, ISO 8764



Item Number					
T49143-0	PZ0	3.5mm 1/8"	60mm 2 1/2"	95mm 3 3/4"	6
T49143-1	PZ1	5.0mm 1/8"	80mm 3 1/8"	107mm 4 1/8"	6
T49143-2	PZ2	6.0mm 1/8"	100mm 4"	107mm 4 1/8"	6
T49143-2200	PZ2	6.0mm 1/8"	200mm 8"	120mm 4 3/4"	6
T49143-3	PZ3	8.0mm 1/8"	150mm 6"	135mm 5 1/8"	6



VDE Screwdrivers - PH

VDE0682/201, ASTM-F 1505, EN 60900, ISO 8764



Item Number					
T49142-0	PH0	3.5mm 1/8"	60mm 2 1/2"	95mm 3 3/4"	6
T49142-1	PH1	5.0mm 1/8"	80mm 3 1/8"	107mm 4 1/8"	6
T49142-2	PH2	6.0mm 1/8"	100mm 4"	120mm 4 3/4"	6
T49142-3	PH3	8.0mm 1/8"	150mm 6"	135mm 5 1/8"	6



VDE Screwdriver - Modulo

VDE0682/201, ASTM-F 1505, EN 60900



Item Number					
T49145-1	1	5.0mm 1/8"	80mm 3 1/8"	107mm 4 1/8"	6
T49145-2	2	6.0mm 1/8"	100mm 4"	120mm 4 3/4"	6

CONTENTS: 1 x modulo, sizes: 1 x 80 & 2 x 100mm.



VDE Screwdriver set - Modulo

VDE0682/201, ASTM-F 1505, EN 60900



Item Number		
T49146	1 & 2	1



LOCKS

Padlocks

Kasp offers a range of quality padlocks suitable for general domestic applications through to demanding industrial requirements.



120 Brass padlocks

The Kasp 120 series is a range of general purpose solid brass padlocks featuring a chrome plated, hardened steel shackle. 10 year guarantee.

Item Number	Shield	Shackle	Body	Shackle	Info	Icons	Checkmark	Circle
K12020D	2	20mm	3mm	12mm	Icons	✓	-	
K12025D	2	25mm	4mm	14mm	Icons	✓	-	
K12030D	3	30mm	5mm	17mm	Icons	✓	-	
K12040D	3	40mm	6mm	23mm	Icons	✓	-	
K12050D	6	50mm	8mm	30mm	Icons	✓	-	
K12060D	8	60mm	9.5mm	35mm	Icons	✓	-	
K12025A1	2	25mm	4mm	14mm	Icons	✓	●	
K12030A1	3	30mm	5mm	17mm	Icons	✓	●	
K12040A1	3	40mm	6mm	23mm	Icons	✓	●	
K12050A1	6	50mm	8mm	30mm	Icons	✓	●	
K12060A1	8	60mm	9.5mm	35mm	Icons	✓	●	

120 Brass padlocks – long shackle

Item Number	Shield	Shackle	Body	Shackle	Info	Icons	Checkmark	Circle
K1204DL55D	4	40mm	6mm	55mm	Icons	✓	-	
K1204DL55A1	4	40mm	6mm	55mm	Icons	✓	●	

COMPLETE RANGE AVAILABLE ON REQUEST



FLUKE



Fluke Connect

An integrated system of wireless test tools and asset management software.

Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect® system.

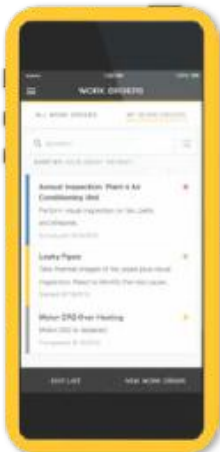
- Eliminate data-entry errors by saving measurement data directly from the tool and associating it with the work order, report or asset record
- Maximize uptime and make confident maintenance decisions with data you can trust and trace
- Access baseline, historical and current measurements by asset
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer
- Share your measurement data using ShareLive video calls and emails



Instantly trend and monitor intermittent problems with TrendIt graphs.

Fluke Connect enabled products include:

Current meters
Digital multimeters
Installation testers
Portable oscilloscopes
Temperature meters
Voltage meters
Vibration meters
Process tools
Infrared cameras



Wirelessly save measurements directly from your test tools into work orders only available with Fluke Connect®



Sign up for your free trial at: flukeconnect.com/freetrial

WiFi or cellular service is required to share data. Smart phone, wireless service and data plan not included with purchase. First 5 GB of storage is free. Phone support details can be viewed at fluke.com/phones.

Free Trial Terms: Open to those 18 years or older (or the age of majority under applicable law, whichever is older). Free trial is for a limited duration and is offered for a limited time. Void where prohibited by law. Terms and conditions are available upon registration.

Screens adjusted slightly to accommodate print. Smartphone is not included with purchase.

Within your providers wireless service area and subject to your plans pricing and other terms. Fluke Connect is not available in all countries. Some Fluke Connect features require a subscription subject to payment terms and may not be available in all countries.



DIGITAL MULTIMETERS

Fluke 170 Series Digital Multimeters

Maintenance experts can find most electrical and HVAC problems

The Fluke 170 Series True-rms Multimeters is simple to use with significant improvements over the original Fluke 70 Series.

- Wide 1000 V measurement range
- True-rms for precise measurement of non-linear signals
- Capacitance, resistance, continuity and frequency
- Built-in thermometer (Fluke 179 only)
- Backlight for work in dimly lit areas (Fluke 177 and 179 only)
- Min/Max/Avg to record signal fluctuations
- Display hold and auto hold
- Manual and automatic ranging
- Basic dc accuracy (179/0.09 %, 177/0.09 %, 175/0.15 %)
- Also available: 177 with true-rms and backlight and 175 with true-rms

Specifications

DC voltage	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 0.09 % (Models 177 and 179) ± 0.15 % (Model 175)
AC voltage ¹	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 1.0 % of reading
DC current	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.0 % of reading
AC current ²	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.5 % of reading
Resistance	600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 50.00 MΩ	± 0.9 % of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	± 1.2 % of reading
Frequency ³	99.99 Hz, 999.9 Hz, 9.999 Hz, 99.99 kHz	± 0.1 % of reading
Temperature (179 only)	-40 °C to +400 °C (-40 °F to +752 °F)	1.0 % of reading
Battery life	200 hours typical for alkaline	
Dimensions (HxWxL)	4.3 cm x 9.0 cm x 18.5 cm (1.7 in x 3.5 in x 7.3 in)	

¹All ac voltage and ac current ranges are specified from 5 % of range to 100 % of range.

²10 A continuous, 20 A for up to 30 seconds.

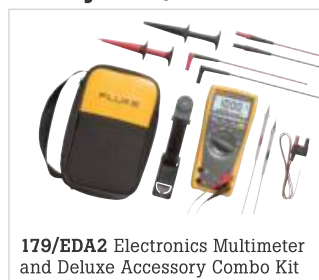
³Voltage frequency is specified from 2 Hz to 100 kHz. Current frequency is specified from 2 Hz to 30 kHz.

Ordering information

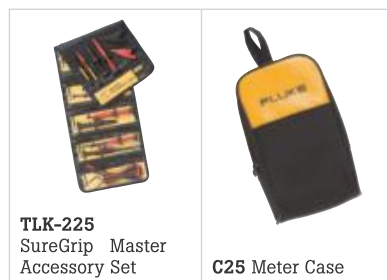
Models	Included accessories
FLUKE-179 Digital Multimeter	Test leads, temperature probe, 9 V battery (installed), manual
FLUKE-177 Digital Multimeter	Test leads, 9 V battery (installed), manual
FLUKE-175 Digital Multimeter	Test leads, 9 V battery (installed), manual



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Recommended accessories



DIGITAL MULTIMETERS

Fluke 289 and 287 True-rms Logging Multimeters

Find little problems before they become big ones

The Fluke 289 and 287 are high performance industrial logging multimeters. The large 50,000 count, 1/4 VGA dot matrix display and multiple on screen displays give you sharp, clear readings. Use the logging function with expanded memory for unattended monitoring of signals over time. With on-board TrendCapture, you can graphically review up to 10,000 recorded events and logged readings. Then, zoom on trend provides an unprecedented ability to zoom in up to 14 times to view and analyze data all without needing a PC.

Two terminal 50 ohm range with 1 milliohm resolution, 10 mA source current.

Useful for measuring and comparing differences in motor winding resistance or contact resistance (289)

Low-pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (289)

Add the wireless data logging capabilities of Fluke Connect® with Share-Live video call with the ir3000 FC connector

True-rms ac bandwidth 100 kHz; dBV/dBm; dc mV resolution 1 µV; Megohm range up to 500 MΩ

Conductance 50.00 nS

Min/Max/Avg/duty cycle/pulse width

Isolated optical DMM interface with USB PC connection

Over 200 hours logging capacity with new power saving function

Lo Ohm capability; Lo Z volts; Lo Pass Filter



Specifications

Functions	Range and resolution	Basic accuracy
AC or dc voltage	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	0.025 % 0.4 % (true-rms) (ac)
AC current dc current	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A	0.15 % 0.7 % (true-rms)
Temperature (excluding probe)	-200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)	1.0 %
Resistance	50.000 Ω, 500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ	0.05 %
Capacitance	1.000 nF, 10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF, 100.0 µF, 1000 µF, 10.00 mF, 100 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz	.005 %

Ordering information

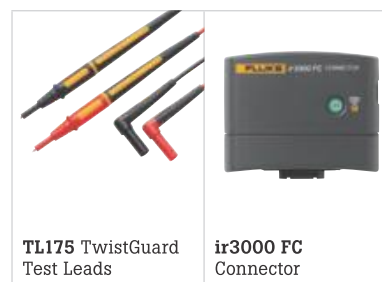
Models	Included accessories
FLUKE-289 True-rms Industrial Logging Multimeter with TrendCapture	Test leads, alligator clips, holster, AA batteries installed, information packet
FLUKE-287 True-rms Electronics Logging Multimeter with TrendCapture	Test leads, alligator clips, holster, AA batteries installed, information packet



Kits buy more, save more



Recommended accessories



CLAMP METERS



Fluke 370 Series Clamp Meters

Unprecedented measurement flexibility

The Fluke 370 FC Series clamp meters offer advanced troubleshooting performance plus Fluke Connect features to log and transmit data wirelessly.

Now you are able to log and trend measurements (the 376 FC and 375 FC have internal memory for up to 65,000 measurements), capture measurements outside the arcflash zone with Bluetooth® connectivity to your Apple® or Android® devices, transmit results wirelessly via the Fluke Connect Measurements app, and create and send reports right from the field.

The Fluke 370 FC Series Clamp Meters have a large backlit display, true-rms standard, CAT IV safety rating and a durably constructed body. Additionally, the 376 FC, 375 FC and 374 FC are compatible with the iFlex® Flexible Current Probe that measure up to 2500a ac.



Ordering information

Models	Included accessories
FLUKE-373 True-rms Wireless AC Clamp Meter	Test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.
FLUKE-374 FC True-rms Wireless AC/DC Clamp Meter	Test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.
FLUKE-375 FC True-rms Wireless AC/DC Clamp Meter	Test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.
FLUKE-376 FC True-rms Wireless AC/DC Clamp Meter with iFlex	18-inch (45.7 cm) iFlex flexible current probe, test leads, TPAK magnetic hanging strap, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.

Find how-to videos, application notes, and other useful resources on the clamp meter product pages on www.fluke.com

Fluke 320 Series True-rms Clamp Meters

Go to work with the best

The small and rugged 320 Series True-rms Clamp Meters are the best general troubleshooting tools for commercial and residential electricians and are designed to verify the presence of load current, ac voltage and continuity of circuits, switches, fuses and contacts. The Fluke 325 also offers dc current and frequency measurements.

400 A ac current measurement (ac and dc current; 325 only) and 600 V ac and dc voltage measurement

Resistance measurement to up to 40 kΩ (325) and 4 kΩ (323 and 324) with continuity CAT IV 300 V/CAT III 600 V safety rating

Ordering information

Models	Included accessories
FLUKE-325 True-rms Clamp Meter	Test leads, temperature probe, soft case and users manual
FLUKE-324 True-rms Clamp Meter	Test leads, temperature probe, soft case and users manual
FLUKE-323 True-rms Clamp Meter	Test leads, soft case and users manual

Recommended accessories

Fluke 370 Series i2500-10 10 inch (25.4 cm) iFlex® Flexible Current Probe	Fluke 370 Series C43 Small Soft Case	Fluke 320 Series TL175 TwistGuard Test Leads	Fluke 320 Series L210 Probe Light and Extender
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DISTANCE METERS

Fluke 424D, 419D and 414D Laser Distance Meters

Measure farther, with greater accuracy, in more situations

The Fluke family of laser distance meters are essential tools in the tool bag. They provide, instant and accurate measurements up to ± 1 mm with no scales to interpret or misread. Just point, click, done. The 424D has an inclination sensor that helps with leveling, height tracking and, measuring around obstacles. Find area and volume, easily add and subtract distances and calculate height. Easily measure hard-to-access areas without climbing a ladder and without the need for a helper.

Specifications

	Fluke 424D	Fluke 419D	Fluke 414D
Maximum measurement distance	100 m (330 ft)	80 m (260 ft)	50 m (165 ft)
Accuracy	± 1 mm (± 0.04 in)	± 1 mm (± 0.04 in)	± 2 mm (± 0.08 in)
Battery life (number of measurements)	5000	5000	3000
Area measurement			
Volume measurement			
Pythagoras calculations	Full	Full	1+2
Plus and minus calculations			
Measurement storage	20 complete displays	20 complete displays	5 results
Min/Max			Yes(Pyth)
Tripod mount			
Corner angle measurement			
Stake out			
Inclination sensor			
Display	4 line	3 line	2 line
Automated end-piece correction			

Ordering information

Models	Included accessories
Fluke 424D Laser Distance Meter	Two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three-year warranty
Fluke 419D Laser Distance Meter	Two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three-year warranty
Fluke 414D Laser Distance Meter	Two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three-year warranty

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414D/62 MAX+ Kit 414D Laser Distance Meter and 62MAX+ IR Thermometer



Complies with EN 60825-1:2007 (Class II)



EARTH GROUND TESTERS



Selection guide

	1630	1621	1623-2	1625-2
2-Pole (ac) resistance measurement				
3-Pole earth measurement				
Measurement frequency 128 Hz				
4-Pole earth ground and soil resistivity measurement				
Selective testing				
Stakeless testing (ground loop resistance)				
Memory				
USB port				
Automatic Frequency Control (AFC) 94 Hz to 128 Hz				
R* measurement				
Adjustable limits				

Fluke 1625-2 and 1623-2 Geo Earth Ground Testers

Simpler, faster testing

Grounding testers, like the Fluke 1623-2 and 1625-2, help maintain uptime and lower the risk of electric shock to users while helping solve intermittent power quality problems. The Fluke earth ground testers perform all four essential earth ground test methods that users demand:

- 3- and 4-pole Fall of Potential, earth resistance loop testing
- 4-pole soil resistivity testing
- Selective earth ground testing using one clamp
- Stakeless earth ground testing using two clamps

The 1623-2 and 1625-2 also make earth grounding tests faster and easier than previous methods because of automatic data collection and storage and faster setup. Color coded wires for easier identification and deploying of wire reels and stakes.

IP56 rated for outdoor use

USB data storage and transfer

Automatic Frequency Control (AFC) identifies existing interference and chooses a measurement frequency to minimize its effect, providing more accurate earth ground value

R* measurement calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault-to-earth ground would see

Adjustable limits for quicker testing



Faster setup, easier testing and deployment of wire reels and stakes.

Clamp-on transformer accessory for ground loop measurements on transmission pylons.

Ordering information

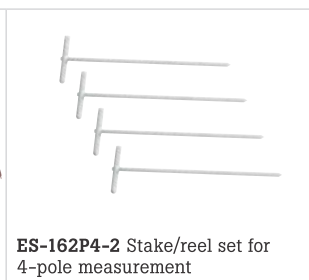
Models	Included accessories
FLUKE-1625-2 Advanced GEO Earth Ground Tester	Two test leads, USB cable, batteries, quick reference guide, users manual
FLUKE-1623-2 Basic GEO Earth Ground Tester	Two test leads, USB cable, batteries, quick reference guide, users manual
FLUKE-1625-2 KIT Advanced GEO Earth Ground Tester Kit	Two test leads, USB cable, 2 clamps (1 source, 1 sensing), carrying case, 4 earth ground stakes, 3 color coded cable reels, batteries, quick reference guide, users manual
FLUKE-1623-2 KIT Basic GEO Earth Ground Tester Kit	

These products are for unpowered installations measuring grounding connections.

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Fluke 1625-2 Kit



ES-162P4-2 Stake/reel set for 4-pole measurement

Recommended accessories



EI-1625 Selective/stakeless clamp set for 1625-2

EI-162BN 320 mm (12.6 in) Split Core Transformer for use with Fluke 1625-2



INSULATION TESTERS



Fluke 1587 FC/1577 Insulation Multimeters

The High-Performance 2-in-1 Insulation DMM

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital insulation tester with a full-featured, true-rms digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance.

The Fluke 1587 FC Insulation Multimeter adds four powerful new diagnostic functions through the Fluke Connect® Measurements app:

PI/DAR timed ratio tests with TrendIt graphs identifies moisture and contaminated insulation problems faster

Memory storage through Fluke Connect eliminates writing down results, reduces errors and saves data for historical tracking over time

Temperature Compensation through app for establishing accurate baselines and relevant historical comparisons

Historical tracking and trending of assets identifies degradation over time, allows real-time decisions to be made in the field with Fluke Connect® Assets (sold separately)



Specifications

	1587 FC	1577
PI/DAR timed ratio measurements with TrendIt graphs through Fluke Connect Measurements app		
Memory storage through Fluke Connect Measurements app		
Temperature Compensation through Fluke Connect Measurements app		
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V		
Insulation test voltages 500 V, 1000 V		
Insulation resistance	0.01 MΩ to 2.0 GΩ	0.1 MΩ to 600 MΩ
Auto-discharge of capacitive voltage		
Insulation test smoothing reading		
Frequency		
Capacitance		
Diode test		
Temperature		
Min/Max		
VFD low-pass filter for accurate motor drive measurements		
AC/DC voltage		
DC millivolts		
AC/DC milliamps		
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity		
Auto power off		
Warranty (years)	3	3

Ordering information

Models	Included accessories
FLUKE-1587 FC Insulation Multimeter	Remote probe, test leads, alligator clips, K-type thermocouple, hard case, users documentation
FLUKE-1577 Insulation Multimeter	Remote probe, test leads, alligator clips, hard case, users documentation

Troubleshooting efficiency and maximum versatility while testing motors and VSDs accurately with Low-Pass filter.



Kits buy more, save more

<p>Fluke 1587 KIT/62MAX+ FC Advanced Electrical Troubleshooting Kit</p>	<p>Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit</p>	<p>TLK289 Industrial Master Test Lead Set</p>	<p>i400 AC Current Clamp</p>
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Recommended accessories



INSULATION TESTERS

Fluke 1507 and 1503 Insulation Resistance Testers

The quality, durability, and convenience you need

These lightweight, affordable insulation testers are perfect for troubleshooting, commissioning and preventive maintenance applications.

- Automatic calculation of polarization index and dielectric absorption ratio (1507 only)
- Multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V (1507 only)
- Remote test probe for rapid testing
- Insulation test range 0.01 MΩ to 10 GΩ (1507), 0.1 MΩ to 2 GΩ (1503)
- Compare (Pass/Fail) function for repetitive tests (1507 only)
- Live circuit detection prevents insulation test if voltage > 30 V is detected
- Auto-discharge of capacitive voltage
- AC/DC voltage: 0.1 V to 600 V
- Lo ohms/Earth-bond continuity (200 mA) for checking connections and motor windings
- Resistance: 0.01 Ω to 20.00 kΩ

Specifications

	1507	1503
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V		
Insulation test voltages 500 V, 1000 V		
Insulation resistance	0.01 MΩ to 10 GΩ	0.1 MΩ to 2 GΩ
Auto-discharge of capacitive voltage		
Continuity function	200 mA acc. EN 61557-4	
Resistance	0.1 Ω to 20.00 kΩ	0.1 Ω to 20.00 kΩ
Auto power off		
Warranty (years)	1	1

Ordering information

Models	Included accessories
FLUKE-1507 Insulation Tester	Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual
FLUKE-1503 Insulation Tester	Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual



Magnetic Meter Hanger
frees up both hands
to focus on making
measurements safely.

Check connections and
motor windings with
Lo ohms/earth-bond
continuity test.



Recommended accessories

TLK289 Industrial Master Test Lead Set	TL27 Heavy Duty Test Lead Set	C116 Soft Carrying Case	C101 Hard Case



POWER QUALITY AND ENERGY TOOLS



Fluke 430-II Series Three-Phase Power Quality and Motor Analyzers

Locate, predict, prevent power quality problems

The Fluke 434-II, 435-II, 437-II and 438-II help troubleshoot power quality problems in three- and single-phase power distribution systems. The Fluke patented energy loss algorithm, Unified Power Measurement, measures, quantifies and monetizes energy losses due to harmonics and unbalance issues, allowing the user to pinpoint the origin of energy waste within a system.

Capture fast rms data in real time with PowerWave data capture; show single cycle rms value to characterize electrical system dynamics (generator start-ups, UPS switching etc.)

Measure key parameters on direct-on-line motors including torque, RPM, mechanical power and motor efficiency (438-II, or with 430-II/MA upgrade option)

CAT IV 600 V/CAT III 1000 V rated for use at the service entrance

Automatic transient mode; capture 200 kHz waveform data on all phases simultaneously up to 6 kV for 435-II and 437-II

Conduct tests according to the stringent international IEC 61000-4-30 Class-A standard intervals for 435-II and 437-II

With included four iFlex flexible current probes, measure all three phases and neutral

Download data wirelessly with the Fluke Connect® SD Card (not included with the INTL)

Three-year warranty

Ordering information

Models	Included accessories
FLUKE-434-II Three-Phase Energy Analyzer	
FLUKE-435-II Three-Phase Power Quality and Energy Analyzer	Four thin flexible current probes, five test leads and clips, battery charger, Power Log software, USB cable, color localization set, soft carrying case, 8GB WiFi SD memory card, users manual on CD
Fluke-438-II Three-Phase Power Quality and Motor Analyzer	
FLUKE-437-II 400 Hz Three-Phase Power Quality and Energy Analyzer	Four thin flexible current probes, five test leads and clips, battery charger, Power Log software, USB cable, color localization set, hard carrying case with wheels, 8GB WiFi SD memory card, users manual on CD
Fluke-430-II/MA 430-II Motor Analyzer Upgrade Kit	Firmware license code

Fluke 1730 Three-Phase Electrical Energy Logger

Find sources of energy waste

The Fluke 1730 Three-Phase Electrical Energy Logger introduces a new simplicity to discovering sources of electrical energy waste. Profiling energy usage across your facility helps you identify opportunities for energy savings and provides you with the easy-to-understand data. The Fluke 1730 Energy Logger can be used for conducting energy surveys that require both a voltage and current connection. Load studies that require a current connection only for evaluating electrical demand capacity can also be performed.

Quickly understand specific points of energy loss, reduce energy bills more easily than ever

Optimized layout with specialized touch screen makes navigation easy even with gloves on

Advanced auto-correct feature eliminates costly errors due to improper connections

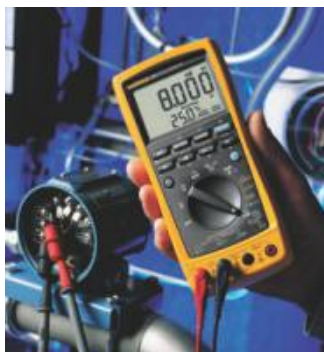
Power directly from the measured voltage line (up to 500 V) or with conventional ac power cord

Ordering information

Models	Included accessories
1730/BASIC Three-Phase Electrical Energy Logger (excludes current probes)	Power supply, voltage test lead, dolphin clip, i1730-flex 1500 iFlex Flexible Current Probes, color-coded wire clips, power cord, test lead set with stackable plugs, dc power cable(s), USB cable A, mini USB, soft storage bag, input connector decal, information packet. Software included: Software included (FEA, Fluke Energy Analyze)
1730/US Portable Energy Logger US version	
1730/EU Portable Energy Logger EU version	
1730/INTL Portable Energy Logger ITNL version	
FLUKE-1735 Three-Phase Power Logger	Four flexible current probes (15 A/150 A/3000 A), Power Log software, voltage leads and clips, color localization set, PC interface cable, international ac adapter (115 V/230 V, 50 Hz/60 Hz), soft carrying case, users manual, multi-language manual on CD



PROCESS CALIBRATION TOOLS



Fluke 789 ProcessMeter is two tools in one, a CAT IV 600V safety rated DMM and a full functioning mA loop calibrator. Perfect for instrumentation and I and E technicians.



Fluke 789 and 787 ProcessMeter Test Tools

Combine the functionality of a loop calibrator with the power of a digital multimeter

Fluke 789 ProcessMeter

The Fluke 789 ProcessMeter is the ultimate troubleshooting tool for process technicians. Add the wireless data logging capabilities of Fluke Connect® with ShareLive video call, and process technicians can do a lot more while carrying a lot less.

- Unique new wireless measurement logging capability
- 24 V loop power supply
- HART mode setting with loop power (adds 250 ohm resistor)
- 20 mA drive into 1200 ohms
- 0 % to 100 % mA Span Check buttons to toggle between 4-20 mA
- Infrared I/O serial port compatible with FlukeView® Forms Software

Fluke 787 ProcessMeter

- Simultaneous mA and % of scale readout on mA output
- 25 % Manual Step plus Auto Step and Auto Ramp on mA output
- Min/Max/Avg/Hold/Relative modes

Specifications

Measurement function	Best accuracy range and resolution	(% of reading + LSD)	
V dc	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.1 % + 1	
V ac (true-rms)	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.7 % + 2	
mA dc	30.000 mA	.05 % + 2	
A dc	1.000 A (0.440 A continuous)	0.2 % + 2	
A ac	1.000 A (0.440 A continuous)	1 % + 2	
Resistance	400.0 Ω, 4.000 kΩ, 40.00 kΩ, 400.0 kΩ, 4.000 MΩ, 40.00 MΩ	0.2 % + 1	
Frequency (0.5 Hz to 20 kHz)	199.99 Hz, 1999.9 Hz, 19.999 kHz	0.005 % + 1	
Diode test	789: 2.000 V (shows diode voltage drop) 787: 2.400 V (shows diode voltage drop)	2 % + 1	
Continuity	Beeps for resistance < approx. 100 ohms		
Output function	Range and resolution	Drive capability	Accuracy (% of span)

DC current output-source mode (internal battery operation)	0.000 mA to 20.000 mA or 4.000 mA to 20.000 mA (selectable at power-up) Over-range to 24.000 mA	789: 24 V compliance or, 1,200 ohms, @ 20 mA 787: 12 V compliance or, 500 ohms, @ 20 mA	0.05 %
DC current output-simulate mode (external 24 V loop supply, up to 48 V on 789 only)	0.000 mA to 20.000 mA or 4.000 mA to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA	1000 ohms, @ 20 mA	0.05 %
24 V loop supply	789: Minimum 24 V, 787: Not available	250 ohms @ 20 mA	> 24 V
Current adjustment modes	Manual: coarse, fine, 25 % and 100 % step (100 % step 789 only) Automatic: slow ramp, fast ramp, 25 % step		

General specifications	
Temperature range	18 °C to 28 °C for one year after calibration
Maximum voltage	1000 V rms (applied between any jack and earth ground)
Temperature	-40 °C to 60 °C (storage); -20 °C to 55 °C (operating)
Relative humidity	95 % up to 30 °C; 75 % up to 40 °C; 45 % up to 50 °C; 35 % up to 55 °C
Safety	IEC 61010-1: 600 V CAT IV / 1000 V CAT III
Size (HxWxL)/weight (787 w/ holster)	52 mm x 98 mm x 201 mm (2.06 in x 3.86 in x 7.93 in)/638 g (1.4 lb)
Size (HxWxL)/weight (789)	50 mm x 100 mm x 203 mm (1.97 in x 3.94 in x 8.00 in)/600 g (1.3 lb)
Warranty	Three-year

Ordering information

Models	Included accessories
FLUKE-789 ProcessMeter	Test leads, alligator clips, 4 AA alkaline batteries (installed), quick reference guide, users manual, multi-language manual CD
FLUKE-787 ProcessMeter	Test leads, alligator clips, holster with test lead storage, one 9 V alkaline battery (installed), quick reference guide, users manual, multi-language manual CD



INFRARED TOOLS



Fluke Performance Series: TiS75/65/60/55/50/45/40/20/10

Easy-to-use frontline troubleshooting

Easily see potential problems with precisely blended IR and visual images with a 5MP visual camera, up to 320 x 240 resolution, and a large 3.5 inch LCD. Get precise focus as close as 15 cm (6 in) with manual focus.

With up to 320 x 240 resolution, you can see more detail in every image, even from a distanced detail that could indicate a potential issue

Get the context of the visual and infrared details all in one precisely blended or picture-in-picture image with IR-Fusion® technology¹

Reduce the amount of time it takes to get an in focus image with manual or fixed focus options

Make decisions in real time wirelessly sync images from your camera, create and email reports all with your smart phone and the Fluke Connect® App .

Wirelessly connect to other Fluke Connect tools and pull in other measurements types like electrical and vibration into your thermal image .

Removable 4GB micro SD card

Digitally document critical information with your infrared image using IR-PhotoNotes or voice annotation³

Monitor battery charge and avoid unexpected loss of power with the smart battery with LED charge indicator

¹IR-Fusion® and picture-in-picture mode execution varies by model

²Within your providers wireless service area; Fluke Connect® is not available in all countries. Subscription to Fluke Connect® Assets is required. Fluke Connect® Assets is required to use the asset management and work order function

³



Inspect industrial components.

Designed for your environment.



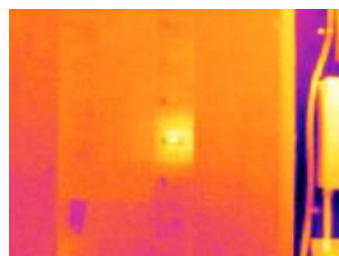
Ordering information

Models	Included accessories
FLK-TiS75 30HZ Industrial Commercial Infrared Camera	Universal AC power adapter, lithium ion smart battery (TiS75, TiS65/60 includes 2 each other models 1 each), USB cable, Micro SD card (TiS75, TiS65/60, TiS55/TiS50, TiS45), hard carrying case (TiS75, TiS65/60, TiS55/50, TiS45/40), soft transport bag, adjustable hand strap (TiS75, TiS65/60, TiS55/50, TiS45/40) and quick start guide. TiS75, TiS65/60 models include a two-bay battery charger.
FLK-TiS75 9HZ Industrial Commercial Infrared Camera	
FLK-TiS65 30HZ Industrial Commercial Infrared Camera	
FLK-TiS65 9HZ Industrial Commercial Infrared Camera	
FLK-TiS60 9HZ Industrial Commercial Infrared Camera	
FLK-TiS55 30HZ Industrial Commercial Infrared Camera	
FLK-TiS55 9HZ Industrial Commercial Infrared Camera	
FLK-TiS50 9HZ Industrial Commercial Infrared Camera	
FLK-TiS45 30HZ Industrial Commercial Infrared Camera	
FLK-TiS45 9HZ Industrial Commercial Infrared Camera	
FLK-TiS40 9HZ Industrial Commercial Infrared Camera	
FLK-TiS20 9HZ Industrial Commercial Infrared Camera	
FLK-TiS10 9HZ Industrial Commercial Infrared Camera	

Full infrared.

50 % blending, picture-in-picture mode

Picture-in-Picture.



VISUAL IR THERMOMETERS

Fluke VT04/VT04A Visual IR Thermometer

Designed to see it all

See issues in context by blending the infrared heat map with a visual image, and get the detail you need by choosing one of five on-screen blending modes . See aligned images from as close as 15 cm (6 in) in near mode or from a distance in far mode . Plus, obtain accurate temperature readings without taking your eyes off the screen . The center measurement box shows the exact area of temperature measurement . Fill that center box with your target and rest assured you're not measuring the background.

Identify intermittent problems by monitoring equipment over time or get alerts when a temperature is outside the expected range with temperature alarms and automated monitoring features

Instantly identify the hottest and coldest spots within the field of view with hot and cold markers

Handy when you need it; easily fits in your tool bag or pocket

Intuitive enough to use right out of the box

Easily access saved images with the removable SD card

Save in .bmp format when you only want the image, or choose .is2 format so you can optimize images and create reports with Fluke SmartView® software, available by free download from Fluke.com



Fluke IR Windows CV400/401/300/301/200 CLKT100/75/50

Increase the safety and speed of your electrical infrared inspections

A company's greatest investment is not the equipment that's behind the panel door . It's the electricians, engineers and inspectors who risk their lives every day doing their jobs .

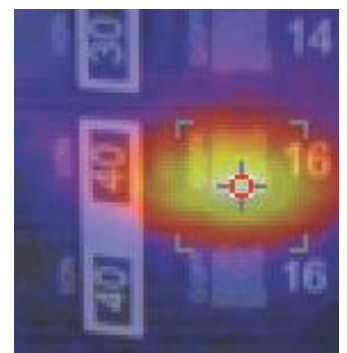
Highest arc blast safety rating available 63 kA*

Under 5 minute installation with 1 person; no need to remove panel door

Clearly view equipment both visually and thermally with ClirVu® coating that protects the optic from the elements

Corrosion and UV resistant for challenging outdoor environments IP67 rugged*

* CV Series only



50 % blended heat map.



Ordering information

Models	Included accessories
FLK-VT04A Visual IR Thermometer	Soft case, micro-SD card, micro-SD conversion adapter to standard, AA batteries (4), quick reference guide
FLK-VT04 Visual IR Thermometer	Hard case, micro-SD card, micro-SD conversion adapter to standard, lithium-ion rechargeable battery, micro USB charger/power supply (including worldwide adapters), quick reference guide

Ordering information

Models	Included accessories
CV400 4 in (95 mm) IR Window, Hand Turn Door Latch	Fluke IR Windows are supplied complete, assembled and ready for installation. In addition to the IR Window, each carton contains warranty statement and security key if that option is ordered.
CV401 4 in (95 mm) IR Window, Security Key Door Latch	
CV300 3 in (75 mm) IR Window, Hand Turn Door Latch	
CV301 3 in (75 mm) IR Window, Security Key Door Latch	
CV200 2 in (50 mm) IR Window, Hand Turn Door Latch	
FLK-100-CLKT 4 in (100mm) C-Range IR Window, Kwik Twist	Fluke IR Windows are supplied complete, assembled and ready for installation. In addition to the IR Window, each carton contains warranty statement
FLK-075-CLKT 3 in (75mm) C-Range IR Window, Kwik Twist	
FLK-050-CLKT 2 in (50mm) C-Range IR Window, Kwik Twist	

Fluke IR Windows enable you to inspect electrical equipment without opening panel doors.



VISUAL IR THERMOMETERS



CE

Fluke infrared thermometers: 62 MAX+, 62 MAX, 59 MAX and 572-2

Take measurements from a safe distance

Fluke has built infrared thermometers with the durability and accuracy you need to do your job, and all within your budget. These IR Thermometers offer precise laser technology for accurate and repeatable measurements.

Fluke 62 MAX+ highlights:

- Three-meter drop tested
- 12:1 distance to spot ratio
- Min/Max/Avg/Dif, Hi and Lo alarms
- Dual lasers for superior targeting

Fluke 62 MAX highlights:

- Single laser targeting
- 10:1 distance to spot ratio

Fluke 59 MAX highlights:

- 8:1 distance to spot ratio
- Min/Max/Avg/Dif, Hi and Lo alarms

Fluke 59 Max+ highlights:

- 10:1 distance to spot ratio
- Min/Max/Avg/Dif, Hi/Lo alarms

Specifications

	62 MAX+	62 MAX	59 MAX+	59 MAX
Temperature range	-30 °C to 650 °C (-22 °F to 1202 °F)	-30 °C to 500 °C (-22 °F to 932 °F)	-30 °C to 500 °C (-22 °F to 932 °F)	-30 °C to 350 °C (-22 °F to 662 °F)
Accuracy	± 1.0 °C or ± 1.0% of reading, whichever is greater -10 °C to 0 °C: ± 2.0 -30 °C to -10 °C: ± 3.0	± 1.5 °C or ± 1.5% of reading, whichever is greater -10 °C to 0 °C: ± 2.0 -30 °C to -10 °C: ± 3.0	0 °C: ± 1.5 °C or ± 1.5% of reading, whichever is greater	≥ 0 °C: ± 2.0 °C or ± 2.0% of reading, whichever is greater
Emissivity			0.10 to 1.00	0.10 to 1.00
Power	AA battery			
Compliance	EN/IEC 61010-1: 2001			
Laser safety	FDA and EN 60825-1 Class II			



CE

Fluke 572-2 Thermometer

- Extremely wide measurement range from -30 °C to 900 °C (-22 °F to 1652 °F)
- 60:1 distance to spot ratio with dual laser sighting

Fluke 50 Series II Thermometers

Lab accuracy in a field thermometer

- Laboratory accuracy: ± (0.05% + 0.3 °C)
- Large backlit dual display, in °C, °F, or Kelvin (K)
- Min/Max/Avg
- Supports a wide range of thermocouple types

Powerful data logging capabilities

- The Fluke 53 II B and 54 II B can log up to 500 points of data to internal memory.
- User-adjustable recording intervals
- Real-time clock captures the exact event time
- Download data to optional FlukeView® PC software



CE CB US TUV

Ordering information

Models	Included accessories
FLUKE-62 MAX+ Infrared Thermometer, Dual Lasers	Instruction sheet, battery
FLUKE-62 MAX Infrared Thermometer, Single Laser	
FLUKE-59 MAX Infrared Thermometer	
FLUKE 572-2 High Temperature Infrared Thermometer	K-type thermocouple bead probe, durable hard case, USB 2.0 computer interface cable
FLUKE-54-2-B Datalogging Thermometer, Dual Input	Bead thermocouple(s), batteries, overview manual, instructional guide on CD
FLUKE-53-2-B Datalogging Thermometer, Single Input	Bead thermocouple(s), batteries, overview manual, instructional guide on CD
FLUKE-52-2 Digital Thermometer, Dual Input	
FLUKE-51-2 Digital Thermometer, Single Input	



VISUAL IR THERMOMETERS

Fluke 560 Series Infrared Thermometers

Stand up to tough industrial, electrical, HVAC, and mechanical environments

With a straight-forward user interface and soft-key menus, the Fluke 560 Series IR Thermometers make even complex measurements easy. With just a few pushes of a button you can easily adjust emissivity, record data, or turn on and off alarms.

Measure up to 800 °C (1470 °F)

Easily access advanced features with the soft-key buttons and graphical display

Scan large areas or small objects; measure smaller objects from further away

Compatibility with most type K thermocouples

Confidently measure more surfaces, with adjustable emissivity and built-in materials table

Log and download measurements for reporting (568)

Audible and visual alarms alert you to measurements outside of set limits

Pipe probe for superheat and sub-cooling; other contact and ambient measurements (561)

Min/Max/Avg/Dif functions

Includes KTC bead probe

1 % measurement accuracy



CE



CE

Specifications

	Fluke 561	Fluke 566	Fluke 568
Infrared temperature range	-40 °C to 535 °C (-40 °F to 995 °F)	-40 °C to 650 °C (-40 °F to 1202 °F)	-40 °C to 800 °C (-40 °F to 1472 °F)
Accuracy	Greater of $\pm 1\%$ or $\pm 1\text{ °C}$ (2 °F)		
Distance to Spot (D:S)	12:1	30:1	50:1
Sighting	Laser point		
Typical distance to target	Up to 2.5 m (7 ft)	Up to 4.5 m (15 ft)	Up to 7.5 m (25 ft)
Probe type	Thermocouple K		
Contact temperature range	-40 °C to 550 °C (-40 °F to 1022 °F)	-270 °C to 1372 °C (-454 °F to 2501 °F)	
Number of on-board memory locations		20	99
PC download and software			Yes, with FlukeView® Forms
Soft-key feature menu navigation			
Min/Max/Avg/Dif	Min/Max/Dif	Min/Max/Avg/Dif	
Material type adjustment (emissivity)	Hi/Med/Lo	Material table or 0.1 to 1.00 by 0.01	
High and low alarms		High and low alarms	
Hands-free logging			
Battery	2 AA		
Warranty	Two-year		



Ordering information

Models	Included accessories
FLUKE-568 Infrared Thermometer	USB cable, FlukeView® Forms software, thermocouple type K bead probe, carrying case, two AA batteries, users manual, quickstart guide
FLUKE-566 Infrared Thermometer	Thermocouple type K bead probe, carrying case, two AA batteries, users manual and quickstart guide
FLUKE-561 Infrared Thermometer	Thermocouple type K pipe probe, carrying case, two AA batteries, users manual
FLUKE-61 Infrared Thermometer	9 V battery, instruction sheet
FLUKE-63 Infrared Thermometer	Wrist strap, carrying case, 9 V battery, users manual

The 568 allows for temperature measurement of small components.



ANTISTATIC AIDS/ESD



ABOUT ESD

The electronic industry has placed a growing emphasis on reliability and quality assurance. ESD damage to ESDs and assemblies can be minimized by using ESD control measures.

- Handle electrostatic discharge sensitive devices (ESDs) only in an ESD protected area (EPA)
- Avoid electrostatic potential differences and electrostatic discharges
- Use wrist straps, approved footwear and floor combination for personnel grounding
- Wear properly fastened dissipative garments
- No electrostatic generating materials (normal PE, PVC, PS, etc.) are allowed inside an EPA
- Do not expose ESDs to electrostatic fields > 100V / cm!
- Use only approved ESD protective packaging materials
- Awareness, personnel training, continuous monitoring are essential for maintaining a static control program

FLOOR MAT. ITEM: 1308.47002, 1308.47001, 1308.47055.

- Two layer PVC flooring
- Electrostatic dissipative flooring
- Insulation resistance for personnel safety acc. to DIN VDE 0100-410
- Matt, silky surface • Easy maintenance
- Thickness 2 mm
- Typical resistance to ground RG = 106 - 108 ohm
- High abrasion resistance • Conductive backing
- No conductive glue needed, gives better adhesion
- Suitable for forklift traffic when installed accordingly
- Available on rolls



ITEM	SIZE	DESCRIPTION
1308.47002	1,5 M X 16 - 25 M	GREY
1308.47001	1,5 M X 16 - 25 M	LIGHT GREY
1308.47055	1,5 M X 16 - 25 M	BLUE

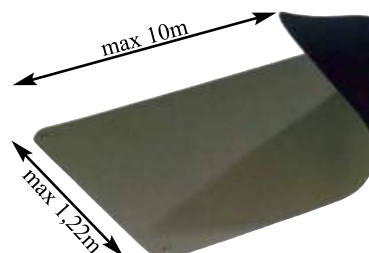


TABLE MATS. ITEM: 1402.662.Z

- Two layer material
 - Rugged synthetic rubber
 - Resistant to solder and heat
 - Abrasion resistant
 - Halogen free
 - Elastic
 - Volume conductive
 - Thickness: 2 mm
 - Includes 2x10 mm snaps and rounded edges
- Typical resistance to ground RG = 106 - 107 ohm

ITEM	DESCRIPTION
1402.662.Z	Custom sizes available on request
	Available in grey & beige

COMFORT CHAIR. ITEM: 1700.KS.B

The COMFORT CHAIR provides an exceptional sitting comfort due to its high resilient foam contoured seat. It drains static charges safely, continuously and passively from seated personnel when used in conjunction with conductive flooring or floor mats.



ANTISTATIC AIDS

ESD CHAIRS



- 5 star base made of chromed aluminium with 5 conductive, soft castors
- Safety gas lift
- Gas lift height adjustment, 430 - 570 mm
- Asynchronous mechanism
- Seat and dynamic back rest mechanism, individually adjustable
- Upholstered with a conductive blue or grey fabric
- Conductive plastic back seat shell with ESD symbol
- Standard self-breaking conductive castors
- GS certified

Typical resistance to ground RG = 105 - 107 ohm

Part Nr.	Colour	Accessories
1700.KS.B	blue	without armrests
1700.KS.D	grey	without armrests

DUST COATS



Part Nr.	Colour	Size
2610.AM160	white	S/M/L/XL/XXL/XXXL
2630.AM160	blue	S/M/L/XL/XXL/XXXL

ESD GLOVES. ITEM: 8745.0401.

- Non-allergenic polyester fabric
- Anti-slip grid side
- Size, colour coded cuffs

Typical wearer overall resistance RG < 1 x 10⁸ Ohm



ITEM	QTY	DESCRIPTION
8745.0401	10 pairs	S / M / L / XL



ESD GLOVES. ITEM: 8745.0404.

- Non-allergenic polyester fabric
 - Anti-slip PU coating
- Typical wearer overall resistance RG < 1 x 10⁸ Ohm

ITEM	QTY	DESCRIPTION
8745.0404	10 pairs	S / M / L / XL



MENS SHOES. ITEM: 2590.32923

- Slip resistant rubber sole
- Complies with DIN 4843/part 100
- Complies with DIN EN 347-1

ITEM	SIZE	DESCRIPTION
2590.32923	39-47	black (calf leather)



Metriso® B530 - test kit includes: digital high resistance tester, 2 probes model 870 with extension, a hand-held probe with connecting cable, users instructions in German, English and French, calibration certificate, conductive carrying case fitted with dissipative pink foam.

Suitable for resistance point-to-point and resistance to ground measurements

Test voltage / Test current:

Ohmic range: 1 mA ≤ I ≤ 1,3 mA

High ohmic range: DC 10 volts, 100 volts and 500 volts

Test range:

Low ohmic range: 1 to 10 kOhm

High ohmic range: 1 kOhm to 199 GOhm

Operation: Battery operate

Probes: 2 x Model 870 (weight: 2,27 kg / Ø 63,5 mm) with conductive rubber (grey) and extension, 1 x hand-held probe Model 45



ANTISTATIC AIDS

MENS HEEL GROUNDERS. ITEM: SCS 2560.890

- For normal heel shoes
- Durable
- Hook and loop heel grounder
- 1 Mohm safety resistor



ITEM
2560.890



WRIST-STRAPS. ITEM: SCS 2050.750

Adjustable, elastic, with silver impregnated threads interwoven on the inside, hypoallergenic.

ITEM	COLOUR	CONNECTION
2050.750.3 *	light blue	3 mm snap
2050.750.7 *	light blue	7 mm snap



STAINLESS STEEL BAND. ITEM: SCS 2052.750

Expandable, adjustable band with an insulated shock resistant exterior, protects the wearer from electrical shocks, hypoallergenic.

ITEM	COLOUR	CONNECTION
2052.750.5.3	black	3 mm snap
2052.750.5.10	black	10 mm snap

COIL CORDS. ITEM: SCS 2100.752

Lightweight 2,4 m coil cords, include 2 x 1 Mohm resistors and 10 mm snaps.



ITEM	COLOUR	CONNECTION
2100.752.3.10	light blue	3/10 mm snap
2100.752.7.10	light blue	7/10 mm snap
2100.752.10.10	light blue	10/10 mm snap
2101.752.3.10	black	3/10 mm snap
2101.752.10.10	black	10/10 mm snap



EARTH CONNECTING BOX. ITEM: SCS 2200.121.10

Earth Bonding Point (EBP) includes 2,0 m earthing cable with a 4 mm ring terminal (1 Mohm resistor for every input).

ITEM	CONNECTION
2200.121.10	2 x 10 mm snaps and 1 x 4 mm
banana plug socket	
2200.121.10.1	with 3 x 10 mm snaps
2200.121.10.2	with 1 x 10 mm snap and 2 x 4 mm
banana plug sockets:	



GROUNDING CORD. ITEM: SCS 2250.758

Earth Bonding Point (EBP) includes 2,0 m earthing cable with a 4 mm ring terminal (1 Mohm resistor for every input).

ITEM	LENGTH	CONNECTION
2250.758	1,5 m	10 mm snap/4 mm ring terminal
2250.758.2	3 m	10 mm snap/4 mm ring terminal
2250.756	1,5 m	10 mm snap/banana plug
2250.765	3 m	10 mm snap/banana plug
2250.762	1,5 m	10 mm snap/10 mm snap



AEROSTAT® XC - BENCHTOP IONIZER

ITEM: SCS 7500.XC

- Rapid static charge decay time
 - Patented emitter point clean
 - Ionization status light
 - AC technology, Ozone production: 0,005 PPM, measured 15 cm in front of the unit
 - Effective area 90 x 180 cm
 - Integrated heater and 3-speed fan
 - Inherently balanced to ± 5 V
- Size: 39 cm x 20,7 cm x 11,5 cm (W x H x D)

ITEM
7500.XC



ANTISTATIC AIDS



BRUSHES.

ITEM: SCS 6100

Our range of conductive brushes allows thorough cleaning of ESD sensitive assemblies without the danger of high charges generated by conventional brushes. They consist of a conductive plastic handle and bristles made of highly conductive fibers which will dissipate any charges by corona discharge, due to their small diameter. Natural hair is mixed with the conductive fibers to provide the desired stiffness. Includes the ESD Symbol.



BRUSHES. ITEM: SCS 6100

HIGHSHIELD. ITEM: SCS 3310.HS

- Shielding bag, "metal in" construction
- Outer layer dissipative Polyester
Surface resistance RS = 1010 - 1011 ohm
- Aluminium metallized
Electrostatic Shielding < 15 nJ (Energy Test)
- Inner layer - dissipative Polyethylene
Surface resistance RS = 1010 - 1011 ohm
- Heat sealable
- Standard print: Product name, ESD symbol, Recycling symbol and Lot Nr.



TOTE BOXES - CONDUCTIVE. ITEM: SCS 5310.10

- Permanent, carbon loaded, conductive Polypropylene
 - Stackable
 - Pallet modular size
 - With ESD Symbol
- Typical surface resistance
RS = 104 - 105 ohm



SERVICE KIT. ITEM: SCS 2400.673

Portable static controlled station for mobile personnel

- Rugged, dissipative Vinyl material
- Includes a 610 x 610 mm mat with two pockets
- Carrying wallet with a snap fastener
- Includes a coil cord with an adjustable wrist strap, a 3 m grounding cord and a large alligator clip (VDE)
- Typical resistance to ground RG = 107 - 108 ohm

ESD WIPES. ITEM: SCS 6200.20

Portable static controlled station for mobile personnel

- Static dissipative ESD wipes for all Electronic manufacturing and optical cleaning Applications
- 100% knitted polyester
- No carbon or metal fibers
- Good solvent resistance, lint free
- For use with normal cleaning fluids
- Size: 230 x 230 mm
- Colour: pink



ITEM	QTY
6200.20	50pcs./bag



ESD CLEANER. ITEM: SCS 2900.570

Special cleaner for dissipative and conductive surfaces

- Protects against deterioration of the static dissipative properties
- Removes liquid spill stains, flux, residues, grease and dirt
- Trigger-spray bottle for easy application

ITEM	QTY
2900.570	1 litre spray bottle
2900.571.	1 5 litres



GAS SOLDERING IRONS



SUPER PRO. ITEM: ORX SUPER PRO

- Adjustable 25-125 Watts of power
- 580°C tip temperature
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 40 seconds
- 90 minute run time
- Piezo self Igniting
- 12 assorted spare tips
- Safety cut-off switch
- Safety stand
- User Repairable



SUPER PRO TIPS & ACCESSORIES.

ITEM	DESCRIPTION	SIZE INCHES	SIZE MM
SP-1	butane soldering iron	-	-
SPT-9	hot air blower tip	-	-
SPT-12	hot air deflector	-	-
SPT-2	single flat tip	3/32	2.4mm
SPT-5	double flat tip	1/32	1.0mm
SPT-6	double flat tip	3/32	2.4mm
SPT-7	double flat tip	1/8	3.2mm
SPT-8	double flat tip	3/18	4.8mm
SPT-10	hot knife tip	-	-
SPT-14	operating instructions	-	-
SPT-15	wire stand	-	-
SPT-19	cleaning sponge & cup	-	-

portasol[®]
Professional Technician and Service Repair Tool Specialists



PROFESSIONAL. ITEM: ORX PORT-PROF

- Adjustable 10-60 Watts of power
- Ergonomic handle grip
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 40 seconds
- 60 minute run time
- Flint Igniting
- 7 assorted spare tips
- Safety cut-off switch



PROFESSIONAL TIPS

ITEM	DESCRIPTION	SIZE INCHES	SIZE MM
PCX	single flat solder tip	1/32"	1.0mm
PCX	single flat solder tip	3/32"	2.4mm
PCX	single flat solder tip	1/8"	3.2mm
PCX	single flat solder tip	3/6"	4.8mm
PCX	hot air blower tip	-	-
PCX	hot knife tip	-	-
PCX	flame tip	-	-



CORDLESS BUTANE GAS POWERED TORCH. ITEM: GT 220



GAS SOLDERING IRONS



PRO PIEZO. ITEM: ORX PRO-PIEZO

- Adjustable 10-75 Watts of power
- 580°C Tip Temperature
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 40 seconds
- 45 minute run time
- Piezo self Igniting
- 12 assorted spare tips
- Safety cut-off switch
- Available as kit



TECHNIC. ITEM: ORX PORT-TECH

- Adjustable 10-60 Watts of power
- Ergonomic handle grip
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 40 seconds
- 60 minute run time
- Flint Igniting
- 5 assorted spare tips
- Safety cut-off switch

Plastic Welding Kit

Cordless kit for plastic welding featuring an ultrasonically welded gas tank for better strength and reliability.

- Short distance from tip to grip - gets you closer to your work.
- Click to ignite.
- Cordless.
- No special training required.
- Transfers heat through contact versus hot air.
- Welding can be carried out next to heat sensitive parts eg cables, foams and textiles.
- Thin plastic parts and sheets can be welded, No uncontrolled heat transfer which means less wrinkles in parts to be welded.
- No Oxidation of parts by hot air.
- Problematic plastics that absorb water are easier to Weld, eg ABS, PC and PA plastics.
- Reinforcement grid for extra strength or where a hole needs to be filled.

Contents of Plastic Welding Kit

- Pro Piezo Soldering Iron
- Plastic welding tip
- Brass brush
- Allen key
- Cleaning piston
- Reinforcement grid
- 5 20cm Polyethylen (PE) welding rods
- 5 20cm Polystyrol (PS) welding rods
- 5 20cm Polypropylen (PP) welding rods
- instruction leaflet

Everything comes as a complete kit in a robust carry and transport case



SOLDERING IRONS

MAGNUM®



MAGNUM 2004 STATION

The 2004 soldering station gives total temperature control with digital read-out. It comes standard with the 1002 /50W soldering iron.



MAGNUM 2002 STATION

The 2002 soldering station with total temperature control comes standard with 1002/50W soldering iron. An 80W version of the above station is also available.



MAGNUM 2000 STATION

The 2000 Station comes standard with the 1000SP soldering iron. They are designed to operate together. Temperature control in the iron.



ORYX 50 TEMPERATURE CONTROLLED SOLDERING IRON 50-Watt at 24, 50, 115, 220-240 Volt AC versions

- Temperature range 240-420 degrees. Adjustable to 2% tolerance
- Iron plated tips, burn proof lead
- Length 205mm, weight 75g

A general purpose temperature controlled iron for use in electronic production. Offers the benefit of utilising any one tip over the whole temperature range.

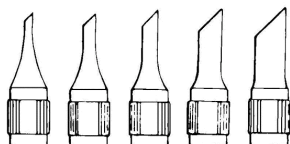


SUPER 30 THERMALLY BALANCED SOLDERING IRON

- 27 Watt at 12, 24, 50, AC/DC. 115, 220-240 Volt AC versions
- Temperature 370 degrees typical
- Iron plated tips

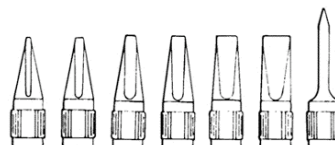
- Stainless steel storage hook, stainless shaft
 - Illuminated indicator
 - Length 204mm, weight 115g
- Compact shape plus high quality construction for general purpose soldering

IRON PLATED LONG LIFE TIPS SERIES 50/30



SINGLE FLAT

ORX LLSF16	1.6mm
ORX LLSF24	2.4mm
ORX LLSF32	3.2mm
ORX LLSF48	4.8mm
ORX LLSF64	6.4mm



DOUBLE FLAT

ORX LLDF08	0.8mm
ORX LLDF16	1.6mm
ORX LLDF24	2.4mm
ORX LLDF32	3.2mm
ORX LLDF48	4.8mm
ORX LLDF64	6.4mm
ORX LLDF24	Special

VARIOUS SOLDERING ITEMS



KESTER SOLDER PASTE



CHEMTRONICS SOLDERWICK



WT 1H Soldering Station

THIS IS SOLDERING TODAY

If you need even more performance than 90 watts, then the high power version with 150 watts is the right solution.



TECHNICAL DATA

Channels	1
Dimensions W x D x H (inch)	5.87 x 5.43 x 3.98
Dimensions W x D x H (mm)	149 x 138 x 101
Weight (ca) in kg	3
Voltage	230 V, 50 Hz
Heating output	150 W
Protection class	I
Fuse	T2A
Temperature range (depends on tool) °C	50 - 550
Temperature range (depends on tool) °F	150 - 999
Temperature accuracy °C	±9
Temperature accuracy °F	±17
Temperature stability °C	±2
Temperature stability °F	±4
Equipotential balance	✓
Interface	RS232
ESD-safe	✓
Intelligent tool detection	✓
Display	Backlit LCD
Equipotential bonding	Via 3,5 mm pawl socket on front of device



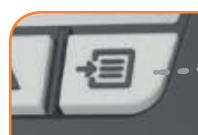
Front-mounted main switch

The front-mounted main switch ensures easy access at all times.



Multi-functional LC display

Unique LC display with a detailed overview of all functions. Adjustable background illumination. Power bar graph allows visual monitoring of the easily-readable output power from the station to the soldering iron tip.



New menu button

Provides ultimate user friendly access to and navigation in the menu structure.



Stackable units

The WT 1 / WT 1H soldering stations can be stacked on the WTHA 1 hot-air station, or on each other, saving space on the workbench.



2-in-1 WSR safety rest

The soldering iron holder can be rotated 180°. The user can choose between wet and dry cleaning.



WT 1 Soldering Station

THIS IS SOLDERING TODAY

The detailed LC display enables an unprecedented overview of all functions, quick and easy to reach via the new user-friendly menu button. The lightning quick change process of the heating element during operation allows efficient work with several different tip types in quick succession. The choice between wet and dry tip cleaning is handled by an innovative 2-in-1 safety rest for the rotatable iron holder.



TECHNICAL DATA

Channels	1
Dimensions W x D x H (inch)	5,87 x 5,44 x 3,98
Dimensions W x D x H (mm)	149 x 138 x 101
Weight (ca) in kg	1.9
Voltage	230 V, 50/60 Hz
Heating output	90 W (95 W)
Protection class	I
Fuse	0,5 A
Temperature range (depends on tool) °C	50 - 550
Temperature range (depends on tool) °F	150 - 999
Temperature accuracy °C	±9
Temperature accuracy °F	±17
Temperature stability °C	±2
Temperature stability °F	±4
Equipotential balance	✓
Interface	RS232
ESD-safe	✓
Intelligent tool detection	✓
Display	Backlit LCD
Equipotential bonding	Via 3,5 mm pawl socket on front of device



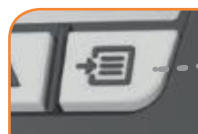
Front-mounted main switch

The front-mounted main switch ensures easy access at all times.



Multi-functional LC display

Unique LC display with a detailed overview of all functions. Adjustable background illumination. Power bar graph allows visual monitoring of the easily-readable output power from the station to the soldering iron tip.



New menu button

Provides ultimate user friendly access to and navigation in the menu structure.



Stackable units

The WT 1 / WT 1H soldering stations can be stacked on the WTHA 1 hot air station, or on each other, saving space on the workbench.



2-in-1 WSR safety rest

The soldering iron holder can be rotated 180°. The user can choose between wet and dry cleaning.



WTHA 1 Hot-Air station

MORE THAN JUST A LOT OF HOT AIR.

One compact, easy-operating station with a smart controller. Temperature-adjustable for diverse rework applications, assuring fast, safe performance.



TECHNICAL DATA

Channels	1
Dimensions W x D x H (inch)	8,35 x 6,77 x 4,80 Inch
Dimensions W x D x H (mm)	212 x 172 x 122 mm
Weight (ca) in kg	1,95 kg
Voltage	230 V
Heating output	900 W
Protection class	I
Fuse	T 4A
Temperature range (depends on tool) °C	50 - 600
Temperature range (depends on tool) °F	100 - 1000
Temperature accuracy °C	± 30
Temperature accuracy °F	± 54
Temperature accuracy hot air °C	± 30
Temperature accuracy hot air °F	± 54
Equipotential balance	-
Interface	-
ESD-safe	✓
Max. air flow rate l/min (depends on tool)	50
Control accuracy	± 30°C (± 54°F)
Capacity l/min	5 - 60 l / 20°C 5 - 110 l / 300°C
Compressed air connection	-
Equipotential bonding	-
Display	Graphical backlit LC-Display



Front-mounted main switch

The front-mounted main switch ensures easy access at all times.



Multi-function LCD screen

Unique LC display with a detailed overview of all functions. Adjustable background illumination. Power bar graph allows visual monitoring of the output power from the station to the hot air pencil.



New menu button

Provides ultimate user friendly access to and navigation in the menu structure.



Stackable units

The WT 1 / WT 1H soldering stations can be stacked on the WTHA 1 hot air station, or on each other, saving space on the workbench.



5 Pre-sets / temperature profile

Up to 5 pre-sets are available to define volume, temperature and time settings. With the profile mode activated, the pre-sets can be run in a selected sequential order.



WTCP 51 Magnastat station



TECHNICAL DATA

Channels	1
Dimensions W x D x H (inch)	6,69 x 4,65 x 4,02
Dimensions W x D x H (mm)	170 x 118 x 102
Weight (ca) in kg	1.46
Voltage	230 V
Heating output	50 W
Protection class	I
Fuse	T315mA
Temperature range (depends on tool) °C	260 - 480 °C
Temperature range (depends on tool) °F	500 - 900 °F
Interface	No
ESD-safe	✓
Control	2-level controller with temperature sensor

WTCP 51 Set

Soldering station, 1 channel, 50 W

50 W **Magnastat** 

Order No. T005 32 206 99

6 Power unit, 1 channel with soldering iron TCPS



Scope of supply

Order No.	Model	Description
T005 15 020 99	KH 20	Safety Rest for FE 75, TCPS, W 101, LR 21
T005 32 105 99	TCPS	Magnastat Soldering iron 50 W
T005 32 249 9	P 51	Power unit switchable, 50 W, 120 V / 240 V with US plug
T005 44 415 99	LT M	Soldering tip, chisel tip long, Ø 3,2 mm



WST Wire Stripper

THERMAL STRIPPPING TOOL

Temperature controlled thermal stripping tool
is suitable for all 80 W Weller stations.

Thermal stripping tool WST 82 KIT1

Thermal stripping tool 80 W, 24 V

80 W 

Order No. T005 25 032 99

- ◊ Suitable for all 80 W Weller stations
- ◊ For ribbon cable and round wire



Scope of supply	Order No.	Model	Description
		WST 82 Handle	Thermal stripping tool
	T005 15 032 98	Sicherheitsablage für WST	Safety Rest for WST 82
	T005 87 250 34	Brush	Brush, copper
	T005 87 257 42	Cutting knife set	Cutting knife set, width 23 mm



Thermal stripping tool WST 82 KIT2

Thermal stripping tool 80 W, 24 V with flexcord for wider operation range

80 W 

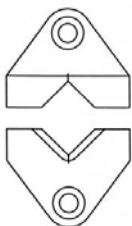
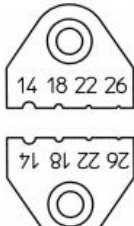
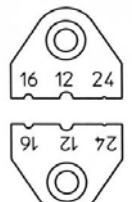

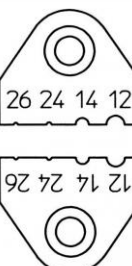
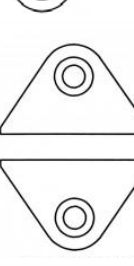
Order No. T005 25 031 99

- ◊ Suitable for all 80 W Weller stations
- ◊ Flex cord for 1,5 - 3,5 m working distance
- ◊ For ribbon cable and round wire



Scope of supply	Order No.	Model	Description
		WST 82 Handle	Thermal stripping tool
	T005 15 032 98	Sicherheitsablage für WST	Safety Rest for WST 82
	T005 87 250 34	Brush	Brush, copper

Accessories WST 82

	Order No.	Description		Order No.	Description
	T005 87 257 22	Universal knife set 9 mm x 2 mm		T005 87 257 32	Knife set AWG 14, 18, 22, 26 (1,6, 1,02, 0,64, 0,4 mm)
	T005 87 257 26	Knife set AWG 12, 16, 24 (2,0, 1,3, 0,51 mm)		T005 87 257 36	V Knife set 4,25 mm x 2 mm
	T005 87 257 29	Knife set AWG 12, 14, 24, 26 (2,0, 1,6, 0,51, 0,4 mm) for WST 82		T005 87 257 42	Cutting knife set, width 23 mm



Filtration

FUME EXTRACTION SOLUTIONS

+ LOW NOISE

+ LOW ENERGY CONSUMPTION

+ LARGE FILTER SURFACE FOR LONGER FILTER LIFETIME



Volume extraction

More suitable for applications involving, for example hand soldering, solder baths, hot-air soldering, microsoldering as well as gluing and cleaning work. Weller offers various mobile systems that purify the air for up to 8 workstations.

- Large areas can be covered
- Low maintenance
- Economic for 1 to 8 workstations
- Extraction cabinets
- Remote control



Tip extraction

Weller FE (fume extraction) soldering irons have a smoke tube integrated into the handle. When soldering, the tube is positioned directly above the tip and collects any fumes produced. Fume extraction attachments can be retrofitted to non-fume extraction Weller soldering irons.

- Low investment per workstation
- Extract pollution right at the source
- Up to 20 soldering points with one system (max. 200 m apart)
- Ergonomic with easy access to workpiece
- Minimal air movement



MAGNIFIERS

Boasts super bright white light from new technology LED's. Illuminated magnification giving you light where you need magnification. Those once hard to see items are now clearly visible.

Perfect for:

- Electronics assembly, repair, manufacture
- Hobbyists - Model building, trains etc
- Nail parlours / manicures
- Fine needle work
- Stamp and coin collecting
- Watch makers / repairs
- Jewellery design / repair / manufacture
- DIY projects

Long LED bulb lifespan, low energy consumption.



FZ1090TL
3.5"Dia, 2xpower
Magnifier with 2LED lights



AEROSOL SPRAYS

**CONFORMAL
COATING.**

**ALL PURPOSE WATER
REPELLING PENETRATING
SPRAY.**

**FR200 FLUX
REMOVER.**

F40 FREEZER.

**DB300 DUST
BUSTER.**

**LR350 LABEL
REMOVER.**



TORCHES & LAMPS



3 CELL LED MAGLITE
ITEM: MGL ML0603



2AA MAGLITE IN
PRESENTATION BOX
ITEM: MGL ML1221



HEADLAMP 12 LED
KAR DK 9301



KAR POCKY



RECHARGEABLE MAGLITE
ITEM: MGL ML1701



LED LENSER LED LENSER P5R.2 Torch
Product Code: LED P5R.2



LED LENSER LED LENSER P7
Product Code: LED P7



LED LENSER LED LENSER X21.2
Product Code: LED x21.2



LED LENSER LED LENSER H14R.2
Product Code: LED H14R.2





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For current ZAR pricing



international range



LED LENSER®

Creating New Worlds of Light™





An Arc Flash suit consists of the following products

- *ARC Flash Hood
- *ARC Flash Jacket
- *ARC Trousers
- *ARC Flash gloves
- *Protective boots

The ARC Flash categories range from

*8 CAL to 100 CAL

Safety is always a first priority in electrical engineering. The preservation of life is imperative. Arc Flash suits are a small cost in comparison to the loss in quality of life if a worker is exposed to an electric arc event. Electrical technicians, by law should always wear and be properly trained in the safe use and application of Arc Flash suits and appropriate personal protective equipment such as insulated rescue sticks for the possible electrical hazard with which they may face.



CHRISTENSEN





HellermannTyton

*** Instruments * Crimping Terminals * Tools**

*** Cable Securing System * Identification Systems**





THE CHRISTENSEN A-Z DIRECTORY OF PRODUCTS WE STOCK OR SOURCE

(All of which may not necessarily be featured in this catalogue)

A

- ADJUSTABLE SHIFTERS
- AEROSOLS - CLEANING, LUBRICATING
- ALIGNMENT TOOLS
- ALLEN SCREWDRIVERS
- ALUMINIUM TOOL CASES
- ANGLE GRINDERS
- ANTI-STATIC PRODUCTS
- ASSEMBLY JIGS
- AUTOMATIC WIRE STRIPPERS

B

- BAGS - TOOL
- BALLPOINT ALLEN DRIVERS
- BASE LAMPS
- BENCH POWER SUPPLIES
- BLOWERS
- BIO-KLEEN
- BEARING PULLERS
- BOLT CUTTERS

C

- CABINETS - STORAGE
- CABLE CUTTERS
- CABLE STRIPPERS
- CALLIPERS - INSIDE/OUTSIDE
- CELLULAR TECHNICIAN TOOLKITS
- CIRCLIP PLIERS
- CLAMP METERS
- CORDLESS DRILLS

D

- DEGAUSING COILS
- DESOLDER BRAIDS
- DIGITAL MULTIMETERS
- DRILLS - ELECTRIC
- DRILL BITS
- DIAGONAL CUTTERS

E

- ELECTRICIANS PLIERS
- ENGINEERS PLIERS
- EXTRACTION TOOLS
- EXTENSION REELS
- ENGINEERS FILES
- ESD SCREWDRIVERS/TOOLS
- ENGINEERS VICES

F

- FEELER GAUGES
- FENCING PLIERS
- FISH TAPE
- FIELD SERVICE KITS
- FIBRE OPTIC TOOLS
- FLOOR MAT - ANTISTATIC
- FLUXES

G

- GAS SOLDERING IRONS
- GLOVES - ANTISTATIC
- GLUE GUNS
- GRAPHICAL MULTIMETERS
- GRINDERS - ANGLE
- GROUND CORDS
- GUILLOTINES

H

- HEATGUNS
- HOOKS - SPRING
- HAMMERS
- HEAVY DUTY CUTTERS
- HEEL GROUNDERS
- HEXAGON KEYS
- HOT GAS GUNS

I

- IC DESOLDERING TOOLS
- IC EXTRACTORS
- ILLUMINATED MAGNIFIERS
- INFRARED TEMPERATURE METERS
- INSPECTION MIRRORS

- INSULATION TESTERS
- INSULATION TAPE
- INTER-LOCKING STORAGE BOXES

J

- JUMPER LEAD KITS
- JEWELLERS SCREWDRIVERS

K

- KNIVES
 - CABLE
 - CARPET
 - ELECTRICIAN'S
 - POCKET
- KEYS - HEXAGON

L

- LABELS - ESD
- LAN METERS
- LEADS - TEST
- LEAD FORMING TOOLS
- LEVELS
- LOBSTER CRIMPERS
- LIQUID DISPENSERS

M

- MAGNETISERS, DEMAGNETISERS
- MAGNIFYING GLASSES
- MASONRY DRILLS
- MICROSCOPES
- MINIATURE DRIVERS
- MINIATURE SPANNERS
- MULTIMETERS
- MIRRORS - INSPECTION

N

- NEEDLE FILES
- NUTDRIVERS
- NOZZLES - DESOLDERING
- NO CLEAN FLUX



- | | | |
|---|--|--|
| <p>O</p> <ul style="list-style-type: none"> • OBLIQUE CUTTERS • OFFSET SCREWDRIVERS • ORYX SOLDERING IRONS • OSCILLOSCOPES <p>P</p> <ul style="list-style-type: none"> • PASTE - SOLDER • PCB - CLEANERS, CUTTERS, HOLDERS • PHASE ROTATION METERS • PIN PUNCHES • PIPE WRENCHES • PLCC EXTRACTORS • PLIERS • PNEUMATIC CUTTERS • POCKET LEVELS • PRECISION WIRE STRIPPERS • POWER SUPPLIES <p>Q</p> <ul style="list-style-type: none"> • QFP DESOLDERING <p>R</p> <ul style="list-style-type: none"> • RADIAL COMPONENT PREPARATION MACHINES • RATCHET DRIVERS • REFLOW OVENS • REWORK STATIONS • RIVETING PLIERS <p>S</p> <ul style="list-style-type: none"> • SAFE BLOCK MAINS CONNECTOR • SAWS • SCISSORS • SCREWDRIVERS <ul style="list-style-type: none"> - ENGINEERS - ELECTRICAL • SCREW STARTERS • SHIFTERS • SHOES - ANTISTATIC | <ul style="list-style-type: none"> • SIGNAL GENERATORS • SMD TOOLS, STATIONS • SOCKET SETS • SOLDER FUME EXTRACTORS • SOLDER POTS • SOLDER SUCKERS • SPANNERS • STORAGE BINS • STRIPPERS <p>T</p> <ul style="list-style-type: none"> • TAPE MEASURES • T-HANDLE ALLEN KEYS • TINNING OIL • TIN SNIPS • TOOL <ul style="list-style-type: none"> - BAGS - BELTS - CASES - KITS • TONER VACUUM CLEANER • TORQUE <ul style="list-style-type: none"> - SCREWDRIVERS - WRENCHES • TORX - KEYS, SCREWDRIVERS • TWEEZERS • TRANSFORMERS • TUBE SPANNERS • TRIMMING TOOLS <p>U</p> <ul style="list-style-type: none"> • ULTRASONIC CLEANERS • UNISPANN VICES • UNIVERSAL SNIPS <p>V</p> <ul style="list-style-type: none"> • VDE - 1000 VOLT PLIERS • VERNIERS • VICES • VICEGRIPS | <p>W</p> <ul style="list-style-type: none"> • WATERPUMP PLIERS • WAVE SOLDER MACHINES • WELLER PRODUCTS • WIRE STRIPPERS • WRISTSTRAPS - ANTISTATIC <p>X</p> <ul style="list-style-type: none"> • XCELITE PRODUCTS • XURON MICROSHEARS <p>Z</p> <ul style="list-style-type: none"> • ZERO SMOG • ZIPCASES - KITS |
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