

CHRISTENSEN TOOLS



WE'LL TOOL YOU

TOOL CATALOGUE GC5

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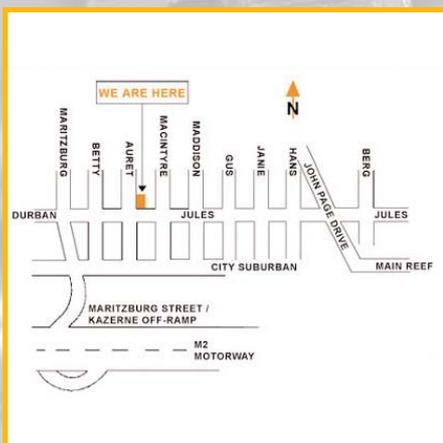
CAPE OFFICE: TEL: +27-21-551-6320

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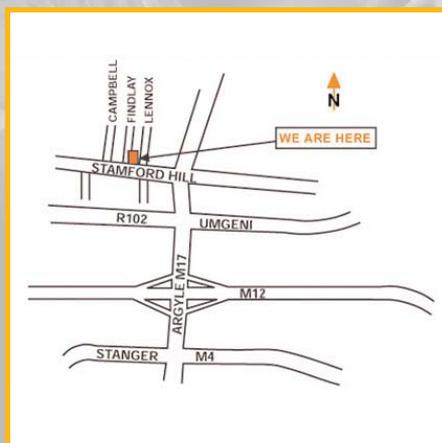
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OUR OFFICES



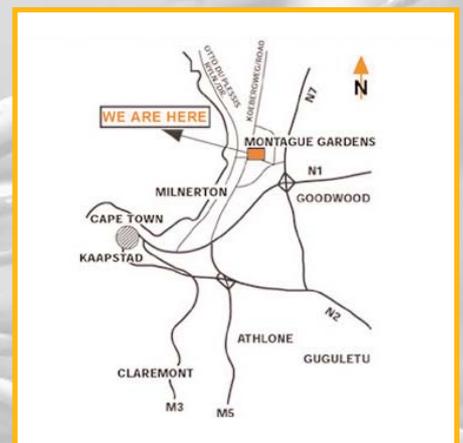
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CHRISTENSEN

TOOLKITS



CK1630



RSC 130NB



RSC 802



RSA 1608C-CK



RSA 1808C-CK



RSA 1708C-CK



RSA 130NB - LRG



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





TOOLCASES & BAGS



ELECTRICIANS TOOLBELT SET. ITEM: CK 1715/1714

A complete solution for a professional Electrician. Includes padded belt, Electrician's pouch, drill holster and mobile phone holder.

| ITEM NUMBER | DESCRIPTION |
|-------------|-----------------------------|
| T1715 | electrician's tool belt set |



TECHNICIANS RUCKSACK. ITEM: CK 1631

For tradespeople on the move. Durable polyester construction. 48 pockets and holders including a fold out panel for easy tool access. Padded central laptop section. Mobile phone holder. Internal and external document pockets. Meter pocket. Reflective strip to help find bag in dark.

| ITEM NUMBER | DESCRIPTION |
|-------------|----------------------|
| T1631 | technicians rucksack |



BUILDERS RIG. ITEM: CK 415008

The tool carrying solution for the ground

- Durable polyester construction
- Fully Adjustable
- Mesh lining for comfort and breathability Reflective strip for visibility on site

| ITEM NUMBER | DESCRIPTION |
|-------------|--------------|
| 415008 | builders rig |



MAXI BAG. ITEM: CK 1628

Durable polyester construction. 100% waterproof and crackproof rubberised base. 36 pockets. 3 shoulder strap attachment points - so can be carried open.

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| T1628 | maxi bag |



MINI BAG. ITEM: CK T1627

A compact and tough bag. Durable polyester construction. and crackproof rubberised base. 32 pockets. A shoulder strap - can be carried normally.

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| T1627 | mini bag |



MONSTER BAG. ITEM: CK 1629

Cavernous storage ideal for the larger load. Durable polyester construction. 100% waterproof and crackproof rubberised base. 36 giant pockets & straps (ideal for power tools). 3 shoulder strap attachment points.

| ITEM NUMBER | DESCRIPTION |
|-------------|--------------|
| T1629 | monster belt |



PADDED BELT. ITEM: CK 1723

Padded and contoured for maximum comfort and performance. Fits waist sizes 32 to 42". Extra wide for comfort and support. Tough heavy-duty.

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| T1723 | padded belt |





TOOLCASES & BAGS



TOOL ROLL. ITEM: CK 1718

Convenient & versatile tool storage solution. Durable polyester construction. 30 pockets to carry a range of tools. Padded strap. Can be used as roll or for wall hanging.

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| T1718 | tool roll |



EXPLORER CASE. ITEM: CAS 2209.BE

Int. dim.: 220x160x95 (20+75) mm
Ext. dim.: 246x215x112 mm
Weight: (empty) 0,88 Kg (w/foam) 0,99 Kg
Volume: (litres) 3,3
Buoyancy: (Kg.max*) 2,3

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| 2209.BE | case |



TECHNICIANS TOOL CASE. ITEM: CK 1630

Award winning case offering protection for tools, manuals and sensitive electronic equipment

- Durable polyester construction
- Separate side pockets for tools
- Padded central compartment fits laptop
- Reflective strip to help find bag in dark

| ITEM NUMBER | DESCRIPTION |
|-------------|-----------------------|
| T1630 | technicians tool case |



EXPLORER CASE. ITEM: CAS 4419 BE

Int. dim.: 445x345x190 (47+143) mm
Ext. dim.: 474x415x214 mm
Weight: (empty) 4,00 Kg (w/foam) 4,70 Kg
Volume: (litres) 29,2
Buoyancy: (Kg.max*) 19,7

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| 4419 BE | case |



TECHNICIANS VEST. ITEM: CK 415007

Safe and convenient tool carrying solution for Technician's on the move

- Durable polyester construction
- Fully Adjustable
- Reflective strip for visibility on site
- Mesh lining for comfort and breathability

| ITEM NUMBER | DESCRIPTION |
|-------------|------------------|
| T415007 | technicians vest |



EXPLORER CASE. ITEM: CAS 4820 BE

Int. dim.: 480x370x205 (50+155)mm
Ext. dim.: 520x435x230 mm
Weight: (empty) 4,64 Kg(w/foam) 5,40 Kg
Volume: (litres) 35,5
Buoyancy: (Kg.max*) 24,7

BAG-PC48: Splittable, padded PC and divider bag. It is the ideal solution for carrying and protecting both, computer (17") and photographic equipment. Adjustable shoulder belt is included. This optional bag perfectly fits into the 4820

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| 4820 BE | case |



EMPTY CASES

PLIERS & STRIPPERS



5 COMPARTMENT TOOLBOX.

ITEM: GDR 1261

Strong structure, smooth operating hinges. Robust round carrying handle. Lockable. Phosphated and powder coated to prevent corrosion. L=460 x W=260 x H=210

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| 1261 | toolbox |



3 COMPARTMENT SLIMLINE TOOLBOX.

ITEM: GDR 1333

Strong structure, smooth operating hinges. Robust round carrying handle. Lockable. Phosphated and powder coated to prevent corrosion. L=535 x W=200 x H=160

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| 1333 | toolbox |



ITEM: RSC 1600 ALI

ITEM: RSC 1700 ALI



ITEM: YMT 594-0500K



ITEM: RSA 301H



Redline™ from C.K is the standard against which all general pliers are judged. Each plier is manufactured in Germany to the stringent international standards. All products are display packed on recyclable economic clip hangers, unless otherwise stated.

1. Ergonomically designed sleeves for comfort and effortless use.
2. Contoured anti-slip shoulders for ease and safety
3. Dual compound technology features soft non-slip handles for high working performance
4. Matt chrome finish - better presentation and rust protection
5. Gas/oil hardened and tempered - balanced performance
6. Hot drop forged special alloy steel - strength & durability
7. Induction hardened cutting edges - long life, precision cutting
8. TPE handles - Thermo Plastic Elastomer





PLIERS & STRIPPERS



HARD WIRE SIDE CUTTERS.

ITEM: CK 3750

Cutting edges specifically engineered to cut cleanly through cable but also strong enough for med/hard wire. Head and jaw configuration gives high leverage and ease of use.

| ITEM NUMBER | SIZE | CUTTING CAPACITY mmØ | | |
|-------------|-------|----------------------|----------|------|
| | | hard | med/hard | soft |
| T3750 160 | 160mm | 1.6 | 2.0 | >4.0 |
| T3750 180 | 180mm | 2.0 | 2.3 | >4.0 |



COMBINATION PLIERS.

ITEM: CK 3867

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

| ITEM NUMBER | SIZE | CUTTING CAPACITY mmØ | | |
|-------------|-------|----------------------|----------|------|
| | | hard | med/hard | soft |
| T3867 7 | 180mm | 1.6 | 2.5 | >4.0 |
| T3867 8 | 200mm | 2.0 | 2.8 | >4.0 |



REDLINE™ PLIER SET. ITEM: CK 3804

Box containing 3 RedLine™ pliers - T3867 180mm Combination Pliers, T3750 160mm Side Cutters, T3906 200mm Snipe Nose Pliers.

| ITEM NUMBER | DESCRIPTION |
|----------------|-------------|
| T3804 RedLine™ | plier set |



AUTOMATIC WIRE STRIPPER.

ITEM: AB MK2FC

The MK2FC is fully self-adjusting throughout its capacity. 0.25 to 6.0mm.

| ITEM NUMBER | DESCRIPTION |
|-------------|---------------|
| AB MK2FC | wire stripper |



ONE HAND CABLE CUTTER 165 mm 6.1/2". ITEM: CK 3964

Perfect in design and quality, compact sized One Hand Cable Cutter. Cuts copper and aluminium cables up to 14 mm Ø / 9/16" (50 mm²) extremely easy and smooth. Razor sharp cutting edges with micro-serrations guarantee quality of non-squeeze cut and long life. Additional knife like edge for splicing of cable sheathing. Comfortable and safe C.K-Redline grips with anti-slip horns. Chrome plated. Not for steel wires. Other patterns and sizes on request.

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

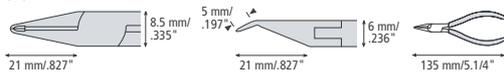


| ITEM NUMBER | DESCRIPTION | | |
|--------------------|--------------------------|------------|----------|
| 3773D-115 | Mini bevel. | | |
| Wire: | hard | soft steel | copper |
| mm / AWG | 0.4 / 26 | 1.0 / 18 | 1.5 / 15 |
| 3773DF-115 | Full flush. | | |
| Wire: | hard | soft steel | copper |
| mm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

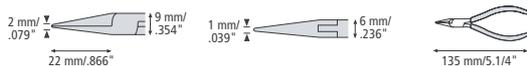


| ITEM NUMBER | DESCRIPTION | | |
|----------------------|--------------------|------------|----------|
| CK 3871DF-120 | Full flush. | | |
| Wire: | hard | soft steel | copper |
| mm / AWG | - | - | 0.6 / 22 |



SNIPE NOSE PLIERS. ITEM: CK 3772D-120

Straight

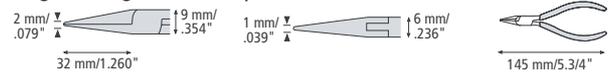


| ITEM NUMBER | DESCRIPTION | | |
|------------------------|-----------------------|--|--|
| CK 3772D-120 | Smooth jaws. | | |
| CK 3772D-120 -1 | Serrated jaws. | | |



SNIPE NOSE PLIERS. ITEM: CK 3777D 150

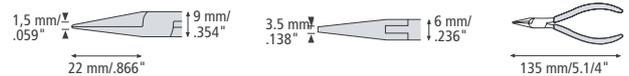
Straight, long and slim jaws



| 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. | | |



CLAMP - SEIZER. ITEM: RCT 2251



PRECISION WIRE STRIPPERS ITEM: 3759

Handle colour yellow, easily adjustable to 6 diameters.



PLCC-EXTRACTOR ITEM: CK 2371

Universal Extractor Tool for all PLCC-components (20 -124 pins). Dissipative thermoplastic material, also for ESD-use. Stainless steel hooks, hardened. Self opening spring. Non overlapping handles. Very easy and safe handling.





CUTTERS



SIDE CUTTERS. ITEM: CK 3773

Oval head



| ITEM NUMBER | DESCRIPTION | | |
|---------------|--|------------|----------|
| 3773 | MINI BEVEL.  | | |
| Wire: | hard | soft steel | copper |
| mm / AWG | 0.4 / 26 | 1.0 / 18 | 1.5 / 15 |
| 3773F | FULL FLUSH.  | | |
| Wire: | hard | soft steel | copper |
| mm / AWG | - | 1.0 / 18 | 1.5 / 15 |
| 3773EF | EXTRA FULL FLUSH.  | | |
| Wire: | hard | soft steel | copper |
| mm / AWG | - | 1.0 / 18 | 1.5 / 15 |



SIDE CUTTERS. ITEM: CK 3774

Oval head. Laid-on joint.

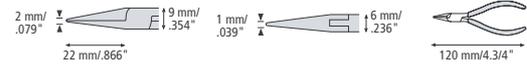


| ITEM NUMBER | DESCRIPTION | | |
|-------------|--|------------|----------|
| 3774 | MINI BEVEL.  | | |
| Wire: | hard | soft steel | copper |
| mm / AWG | 0.4 / 26 | 1.0 / 18 | 1.5 / 15 |



SNIPE NOSE PLIERS. ITEM: CK 3772-120

Straight

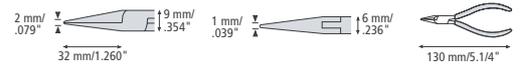


| ITEM NUMBER | DESCRIPTION |  |
|-------------------|-----------------------|---|
| 3772-120 | Smooth jaws. |  |
| 3772-1-120 | Serrated jaws. |  |



SNIPE NOSE PLIERS ITEM: CK 3777

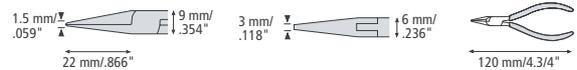
165mm, Serrated jaws



| ITEM NUMBER | DESCRIPTION |  |
|-------------|-----------------------|---|
| 3777 | Serrated jaws. |  |



FLAT NOSE PLIERS. ITEM: CK 3770



| ITEM NUMBER | DESCRIPTION |  |
|-------------|---------------------|---|
| 3770 | Smooth jaws. |  |



PLIERS & STRIPPERS



**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 data 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.

CUTTERS



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 (1.02mm).





CRIMPERS



**RATCHET CRIMPING PLIERS FOR FERRULES.
ITEM: CK 430029**

For boot lace ferrules.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|----------------------|
| 430029 | 190mm | 0.25 - 6.0 / 20 - 10 |

**RATCHET CRIMPING PLIERS INSULATED TERMINALS.
ITEM: CK 430019**

For insulated terminals: green, red and blue.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|----------------------|
| 430019 | 190mm | 0.25 - 2.5 / 24 - 14 |

RATCHET CRIMPING PLIERS. ITEM: CK 3681

4P2C, 4P4C, 6P4C (RJ11), 6P6C (RJ12), 8P8C (RJ45) and 6P6C/Offset (Dec) – Cuts, strips & crimps all types without change of die. Built in stripper on front, cutter on reverse. Guide for precise stripping and quick release lever/screw.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|-------------------------|
| 430020 | 200mm | ratchet crimping pliers |



**RATCHET CRIMPING PLIERS FOR FERRULES.
ITEM: CK 430022**

For insulated wire ferrules.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|-----------------|
| 430022 | 230mm | 10 - 25 / 8 - 3 |

RATCHET CRIMPING PLIERS NON-INSULATED TERMINALS. ITEM: CK 430025

High quality carbon alloy steel for durability.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|-------------------|
| 430025 | 230mm | 1.5 - 10 / 16 - 8 |

**RATCHET CRIMPING PLIERS COAX – BNC,TNC.
ITEM: CK 430026**

For: 58, 59, 62, 8X, 140, 141, 174, 210, 223, 303, 400.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|-------------------------|
| 430026 | 230mm | ratchet crimping pliers |

RATCHET CRIMPING PLIER. ITEM: CK 430028

For modular plugs 8P8C (RJ-45) 6P6C (RJ-12) and 6P4C (RJ-11). High quality carbon alloy steel construction, cuts strips and crimps without die changes.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|-------------------------|
| 430028 | 250mm | ratchet crimping pliers |

**RATCHET CRIMPING PLIERS INSULATED TERMINALS.
ITEM: 430021**

For insulated terminals: red, blue and yellow.

| ITEM NO | SIZE | DESCRIPTION |
|---------|-------|--------------------|
| 430021 | 220mm | .5 - 6.0 / 20 - 10 |



**RATCHET CRIMPING PLIERS FOR FERRULES.
ITEM: CK430018**

For end sleeve ferrules.

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

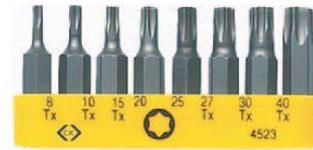


ALLEN KEYS/TORX



BALL ENDED LONG ARM HEXAGON KEYS.
ITEM: CK 4559

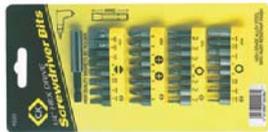
METRIC: CK 4443M
IMPERIAL: CK 4444I



SCREWDRIVER BITS - TORX. ITEM: CK 4523

Contents: TX 8, 10, 15, 20, 25, 27, 30, 40.

| ITEM NO | DESCRIPTION | NO OF BITS |
|---------|-------------|------------|
| T4523 | bit clip TX | 8 |
| | | |



SCREWDRIVER BITS. ITEM: CK 4520

Set of 32 x 25mm bits on 4 clip(T4521,T4522,T4523,T4524) manufactured from high grade alloy steel with a rust resistant finish. With magnetic bit holder. Display packed. Containing one of each of 4521 3, 4, 4.5, 5, 5.5, 6, 7, 8, 9, Slotted. T4522 PH 0, 1, 2, 3, PZD, 1, 2, 3. Phillips/PZD. T4523 TX 8, 10, 15, 20, 25, 27, 30, 40, T4524 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, Hexagon.

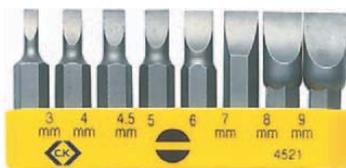
| ITEM NO | DESCRIPTION | NO OF BITS |
|---------|----------------|------------|
| T4520 | set with stock | 32 |



HSS DRILLS. ITEM: CK 3191

Set of 19 drills in plastic magazine storage case and drill stand. Containing one each of sizes 1-10mm rising by 0.5mm.

| ITEM NO | DESCRIPTION |
|----------|---------------|
| T3191 19 | piece HSS set |
| | |



SCREWDRIVER BITS - SLOTTED. ITEM: CK 4521

High grade alloy steel bits with rust resistant finish on bit clips. 25mm in length. 8 bits per clip. Display packed. Contents: 3, 4, 4.5, 5, 6, 7, 8, 9mm.

| ITEM NO | DESCRIPTION | NO OF BITS |
|---------|------------------|------------|
| T4521 | bit clip slotted | 8 |
| | | |



SCREWDRIVER BITS. ITEM: CK 4525

Set of 10x100mm bits on clip. Manufactured from high grade alloy steel with a rust resistant finish. Display packed. Contents: Flat 4, 5, 7 mm, PH 1, 2, 3 and T15 and 20

| ITEM NO | DESCRIPTION | NO OF BITS |
|---------|-------------|------------|
| T4525 | bits | 10 |
| | | |



SCREWDRIVERS



SLOT. ITEM: CK 4880X

|  |  |  |  |  |  |
|--|---|---|---|---|---|
| | mm in |
| 0.8x60 | 60 2.3/8 | 0.8 1/32 | 0,20 .008 | 2,5 3/32 | 97 3.13/16 |
| 1.2x60 | 60 2.3/8 | 8 1,2 3/64 | 0,25 .010 | 2,5 3/32 | 97 3.13/16 |
| 1.5x60 | 60 2.3/8 | 1,5 1/16 | 0,30 .012 | 2,5 3/32 | 97 3.13/16 |
| 1.8x60 | 60 2.3/8 | 1,8 5/64 | 0,30 .012 | 2,5 3/32 | 97 3.13/16 |
| 2.5x60 | 60 2.3/8 | 2,5 3/32 | 0,40 .016 | 2,5 3/32 | 97 3.13/16 |
| 2.5x75 | 75 3 | 2,5 3/32 | 0,40 .016 | 2,5 3/32 | 97 3.13/16 |
| 3.0x100 | 100 4 | 3,0 1/8 | 0,50 .020 | 3,0 1/8 | 97 3.13/16 |
| 3.0x150 | 150 6 | 3,0 1/8 | 0,50 .020 | 3,0 1/8 | 97 3.13/16 |
| 3.0x240 | 240 9.1/2 | 3,0 1/8 | 0,50 .020 | 3,0 1/8 | 97 3.13/16 |
| 4.0x100 | 100 4 | 4,0 5/32 | 0,60 .024 | 4,0 5/32 | 97 3.13/16 |
| 4.0x150 | 150 6 | 4,0 5/32 | 0,60 .024 | 4,0 5/32 | 97 3.13/16 |
| 4.5x250 | 250 | 10 4,5 11/64 | 0,60 .024 | 4,5 11/64 | 97 3.13/16 |



PZD POZIDRIV. ITEM: CK 4875X

|  |  |  |  |
|--|---|---|---|
| | mm in | mm in | mm in |
| PZD 0x60 | PZD 0 | 60 2.3/8 3,0 1/8 | 97 3.13/16 |
| PZD 1x80 | PZD 1 | 80 3.1/8 4,5 11/64 | 97 3.13/16 |



TORX. ITEM: CK 4877X

|  |  |  |  | |
|--|---|---|---|------------|
| | mm in | mm in | mm in | |
| TX 04x50 | TX 04 | 50 2 | 2,5 3/32 | 97 3.13/16 |
| TX 05x50 | TX 05 | 50 2 | 2,5 3/32 | 97 3.13/16 |
| TX 06x50 | TX 06 | 50 2 | 3,5 9/64 | 97 3.13/16 |
| TX 07x50 | TX 07 | 50 2 | 3,5 9/64 | 97 3.13/16 |
| TX 08x60 | TX 08 | 60 2.3/8 | 3,5 9/64 | 97 3.13/16 |
| TX 09x60 | TX 09 | 60 2.3/8 | 4 5/32 | 97 3.13/16 |
| TX 10x80 | TX 10 | 80 3.1/8 | 4 5/32 | 97 3.13/16 |
| TX 15x80 | TX 15 | 80 3.1/8 | 4 5/32 | 97 3.13/16 |
| TX 20x100 | TX 20 | 100 4 | 4 5/32 | 97 3.13/16 |



SAFETY TORX TAMPERPROOF. ITEM: CK 4881X

|  |  |  |  |
|---|---|---|---|
| | mm in | mm in | mm in |
| TX 07x50 | TX 07 S 50 2 | 3,5 9/64 | 97 3.13/16 |
| TX 08x60 | TX 08 S 60 2.3/8 | 3,5 9/64 | 97 3.13/16 |
| TX 09x60 | TX 09 S 60 2.3/8 | 4,0 5/32 | 97 3.13/16 |
| TX 10x80 | TX 10 S 80 3.1/8 | 4,0 5/32 | 97 3.13/16 |
| TX 15x80 | TX 15 S 80 3.1/8 | 4,0 5/32 | 97 3.13/16 |



PH PHILLIPS. ITEM: CK 4882X

|  |  |  |  | |
|---|---|---|---|------------|
| | mm in | mm in | mm in | |
| PH 000x60 | PH 000 | 60 2.3/8 | 2,5 3/32 | 97 3.13/16 |
| PH 00x60 | PH 00 | 60 2.3/8 | 2,5 3/32 | 97 3.13/16 |
| PH 0x60 | PH 0 | 60 2.3/8 | 3,0 1/8 | 97 3.13/16 |
| PH 1x80 | PH 1 | 80 3.1/8 | 4,5 11/64 | 97 3.13/16 |
| PH 1x185 | PH 1 | 185 7.1/4 | 4,5 11/64 | 97 3.13/16 |
| PH 1x285 | PH 1 | 285 11.1/4 | 4,5 11/64 | 97 3.13/16 |



HEXAGON. ITEM: CK 4873X

|  |  |  |  | |
|---|---|---|---|------------|
| | mm in | mm in | mm in | |
| 0,7x50 | 50 2 | 0,7 .028 | 2,5 3/32 | 97 3.13/16 |
| 0,9x50 | 50 2 | 0,9 .035 | 2,5 3/32 | 97 3.13/16 |
| 1,3x50 | 50 2 | 1,3 .051 | 2,5 3/32 | 97 3.13/16 |
| 1,5x50 | 50 2 | 1,5 .059 | 2,5 3/32 | 97 3.13/16 |
| 2,0x50 | 50 2 | 2,0 .079 | 2,5 3/32 | 97 3.13/16 |
| 2,5x60 | 60 2.3/8 | 2,5 .098 | 3,0 1/8 | 97 3.13/16 |
| 3,0x60 | 60 2.3/8 | 3,0 .118 | 3,5 9/64 | 97 3.13/16 |





SCREWDRIVERS



BALL-ENDED HEXAGON. ITEM: CK 4389X

| | | mm in | mm in | mm in |
|--------|----------|----------|----------|------------|
| 1.5x50 | 50 2 | 1,5 1/16 | 2,5 3/32 | 97 3.13/16 |
| 2.0x50 | 50 2 | 2,0 5/64 | 2,5 3/32 | 97 3.13/16 |
| 2.5x60 | 60 2.3/8 | 2,5 3/32 | 3,0 1/8 | 97 3.13/16 |
| 3.0x60 | 60 2.3/8 | 3,0 1/8 | 3,5 9/64 | 97 3.13/16 |
| | | | | |
| | | | | |



PH PHILLIPS. ITEM: CK 4882X ESD

| | | mm in | mm in | mm in |
|-----------|--------|------------|-----------|------------|
| PH 000x60 | PH 000 | 60 2.3/8 | 2,5 3/32 | 97 3.13/16 |
| PH 00x60 | PH 00 | 60 2.3/8 | 2,5 3/32 | 97 3.13/16 |
| PH 0x60 | PH 0 | 60 2.3/8 | 3,0 1/8 | 97 3.13/16 |
| PH 1x80 | PH 1 | 80 3.1/8 | 4,5 11/64 | 97 3.13/16 |
| PH 1x185 | PH 1 | 185 7.1/4 | 4,5 11/64 | 97 3.13/16 |
| PH 1x285 | PH 1 | 285 11.1/4 | 4,5 11/64 | 97 3.13/16 |



NUT DRIVER. ITEM: CK 4840X

| | | mm in | mm in | mm in |
|--------|----------|-----------|----------|------------|
| 1,5x60 | 60 2.3/8 | 1,5 1/16 | 3,0 1/8 | 97 3.13/16 |
| 2,0x60 | 60 2.3/8 | 2,0 5/64 | 4,0 5/32 | 97 3.13/16 |
| 2,5x60 | 60 2.3/8 | 2,5 3/32 | 4,0 5/32 | 97 3.13/16 |
| 3,0x60 | 60 2.3/8 | 3,0 1/8 | 4,0 5/32 | 97 3.13/16 |
| 3,2x60 | 60 2.3/8 | 3,2 .126 | 4,0 5/32 | 97 3.13/16 |
| 3,5x60 | 60 2.3/8 | 3,5 9/64 | 4,0 5/32 | 97 3.13/16 |
| 4,0x60 | 60 2.3/8 | 4,0 5/32 | 4,0 5/32 | 97 3.13/16 |
| 4,5x60 | 60 2.3/8 | 4,5 11/64 | 4,0 5/32 | 97 3.13/16 |
| 5,0x60 | 60 2.3/8 | 5,0 3/16 | 4,0 5/32 | 97 3.13/16 |
| 5,5x60 | 60 2.3/8 | 5,5 7/32 | 4,0 5/32 | 97 3.13/16 |



PZD POZIDRIV. ITEM: CK 4875X ESD

| | | mm in | mm in | mm in |
|----------|-------|------------------|-----------|------------|
| PZD 0x60 | PZD 0 | 60 2.3/8 3,0 1/8 | | 97 3.13/16 |
| PZD 1x80 | PZD 1 | 80 3.1/8 | 4,5 11/64 | 97 3.13/16 |



BALL-ENDED HEXAGON. ITEM: CK 4838X ESD

| | | mm in | mm in | mm in |
|--------|----------|----------|----------|------------|
| 1.5x50 | 50 2 | 1,5 1/16 | 2,5 3/32 | 97 3.13/16 |
| 2.0x50 | 50 2 | 2,0 5/64 | 2,5 3/32 | 97 3.13/16 |
| 2.5x60 | 60 2.3/8 | 2,5 3/32 | 3,0 1/8 | 97 3.13/16 |
| 3.0x60 | 60 2.3/8 | 3,0 1/8 | 3,5 9/64 | 97 3.13/16 |



SLOT. ITEM: CK 4880X ESD

| | | mm in | mm in | mm in | mm in | mm in |
|---------|-----------|-----------|-----------|-----------|------------|-------|
| 0.8x60 | 60 2.3/8 | 0.8 1/32 | 0,20 .008 | 2,5 3/32 | 97 3.13/16 | |
| 1.2x60 | 60 2.3/8 | 1,2 3/64 | 0,25 .010 | 2,5 3/32 | 97 3.13/16 | |
| 1.5x60 | 60 2.3/8 | 1,5 1/16 | 0,30 .012 | 2,5 3/32 | 97 3.13/16 | |
| 1.8x60 | 60 2.3/8 | 1,8 5/64 | 0,30 .012 | 2,5 3/32 | 97 3.13/16 | |
| 2.5x60 | 60 2.3/8 | 2,5 3/32 | 0,40 .016 | 2,5 3/32 | 97 3.13/16 | |
| 2.5x75 | 75 3 | 2,5 3/32 | 0,40 .016 | 2,5 3/32 | 97 3.13/16 | |
| 3.0x100 | 100 4 | 3,0 1/8 | 0,50 .020 | 3,0 1/8 | 97 3.13/16 | |
| 3.0x150 | 150 6 | 3,0 1/8 | 0,50 .020 | 3,0 1/8 | 97 3.13/16 | |
| 3.0x240 | 240 9.1/2 | 3,0 1/8 | 0,50 .020 | 3,0 1/8 | 97 3.13/16 | |
| 4.0x100 | 100 4 | 4,0 5/32 | 0,60 .024 | 4,0 5/32 | 97 3.13/16 | |
| 4.0x150 | 150 6 | 4,0 5/32 | 0,60 .024 | 4,0 5/32 | 97 3.13/16 | |
| 4.5x250 | 250 10 | 4,5 11/64 | 0,60 .024 | 4,5 11/64 | 97 3.13/16 | |



TORX. ITEM: CK 4877X ESD

| | | mm in | mm in | mm in |
|----------|-------|----------|----------|------------|
| TX 04x50 | TX 04 | 50 2 | 2,5 3/32 | 97 3.13/16 |
| TX 05x50 | TX 05 | 50 2 | 2,5 3/32 | 97 3.13/16 |
| TX 06x50 | TX 06 | 50 2 | 3,5 9/64 | 97 3.13/16 |
| TX 07x50 | TX 07 | 50 2 | 3,5 9/64 | 97 3.13/16 |
| TX 08x60 | TX 08 | 60 2.3/8 | 3,5 9/64 | 97 3.13/16 |
| TX 09x60 | TX 09 | 60 2.3/8 | 4 5/32 | 97 3.13/16 |
| TX 10x80 | TX 10 | 80 3.1/8 | 4 5/32 | 97 3.13/16 |
| TX 15x80 | TX 15 | 80 3.1/8 | 4 5/32 | 97 3.13/16 |





SCREWDRIVERS



Surely the best. Made by Professionals for Professionals, perfect in design, perfect in quality. By correctly positioning the Soft Grip Inserts, a substantially improved screw turning torque with less stress for the user can be achieved. Highest quality, ergonomic design, versatile hanging hole, attractive colours, helpful colour coding and type marking: the ultimate range for trade, craftsmen and industry.

1. Dual-compound handle with integrated Soft Grip Inserts – tailored to your hand's dimensions
2. Clear product classification
3. Fatigue-free, comfortable work due to ergonomic handle design with rounded spinning area. Hanging hole for ease of display and storage
4. Quality blades made from hardened high alloy special steels – tough and wear resistant even in extreme circumstances
5. Chromed with black tips – ultimate screw fit and non-peel. Meet all criteria for DIN/ISO
6. Permanent tip type marking on the end of the handle for convenient identification



SLOTTED - FLARED TIP. ITEM: CK 49010

| ITEM | TIP SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|------------|----------|-----------------|----------------|---------------|
| T49010 075 | 0.8mm | 0.031" 75mm 3" | 4.0mm 5/32" | 95mm 3 5/8" |
| T49010 100 | 1.0mm | 0.039" 100mm 4" | 5.5mm 7/32" | 105mm 4 1/8" |
| T49010 150 | 1.2mm | 0.047" 150mm 6" | 6.5mm 1/4" | 105mm 4 1/8" |
| T49010 200 | 1.6mm | 0.063" 200mm 8" | 10.0mm 25/64" | 120mm 4 3/4" |



SLOTTED - PARALLEL TIP. ITEM: CK 49025

| ITEM | TIP SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|-------------|----------|-----------------|----------------|---------------|
| T49025 3075 | 0.5mm | 0.020" 75mm 3" | 3.0mm 1/8" | 85mm 3 3/8" |
| T49025 3510 | 0.6mm | 0.024" 100mm 4" | 3.5mm 9/64" | 85mm 3 3/8" |
| T49025 4125 | 0.8mm | 0.031" 125mm 5" | 4.0mm 5/32" | 95mm 3 5/8" |
| T49025 5515 | 1.0mm | 0.039" 150mm 6" | 5.5mm 7/32" | 105mm 4 1/8" |



PZD/SDV. ITEM: CK 49013

| ITEM | TIP SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|----------|-----------|--------------|----------------|---------------|
| T49013 0 | PZD/SDV 0 | 60mm 2 3/8" | 3.5mm 9/64" | 85mm 3 3/8" |
| T49013 1 | PZD/SDV 1 | 80mm 3 1/8" | 5.0mm 3/16" | 95mm 3 5/8" |
| T49013 2 | PZD/SDV 2 | 100mm 4" | 6.0mm 7/32" | 105mm 4 1/8" |
| T49013 3 | PZD/SDV 3 | 150mm 6" | 8.0mm 5/16" | 120mm 4 3/4" |



PZD/SDV LONG SHAFT. ITEM: CK 49087

| ITEM | TIP SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE |
|-------------|-----------|--------------|----------------|--------------|
| T49087 2 | PZD/SDV 2 | 250mm 10" | 6.0mm 7/32" | 105mm 4 1/8" |
| T49087 2300 | PZD/SDV 2 | 300mm 12" | 6.0mm 7/32" | 105mm 4 1/8" |



DIN/ISO. ITEM: CK 49012

| ITEM | TIP SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|----------|----------|--------------|----------------|---------------|
| T49012 0 | PH 0 | 60mm 2 3/8" | 3.5mm 9/64" | 85mm 3 3/8" |
| T49012 1 | PH 1 | 80mm 3 1/8" | 5.0mm 3/16" | 95mm 3 5/8" |
| T49012 2 | PH 2 | 100mm 4" | 6.0mm 7/32" | 105mm 4 1/8" |
| T49012 3 | PH 3 | 150mm 6" | 8.0mm 5/16" | 120mm 4 3/4" |





SCREWDRIVERS



HD COMFORT SET. ITEM: CK 4999B

Set of 8 HD Comfort Screwdrivers in a tough, durable plastic carry case. Containing one of each of T4965 75mm/3", 100mm/4" Slotted Parallel Tip. T4810 100mm/4", 125mm/5", 150mm/6" Slotted Flared Tip. T4814 6mm/1/4" Slotted Stubby. T4813 PZD/SDV 1, 2 PZD/SDV.



SET OF 5 SENSOPLUS® SCREWDRIVERS. ITEM: CK 3696

Containing one of each of T49010 75 x 4, 100 x 5.5, 150 x 6.5mm Flared tip. T49012 PH 1 x 80, PH 2 x 100mm PH.

| ITEM NO | SIZE | DESCRIPTION |
|---------|------------------|-----------------|
| T49053 | 307 x 152 x 36mm | screwdriver set |



SENSOPLUS® STOCKED DISPLAY. ITEM: CK 49005

Eye catching and convenient countertop or wall mounted display.

| ITEM NO | DESCRIPTION |
|---------|---------------------------|
| 442000 | complete display |
| 303019 | screwdriver stand header |
| 300001 | screwdriver display stand |

BERNSTEIN



TRIC SCREW-HOLDERS For holding screws in difficult confined spaces. Not for tightening or loosening - ONLY holding.

| ITEM | BLADE LENGTH | BLADE WIDTH | BLADE DIAMETER | HANDLE SIZE | WEIGHT |
|-------|--------------|-------------|----------------|-------------|--------|
| 4-401 | 40 | 6.0 | 6.0 | 98 x 19 | 44 g |
| 4-402 | 140 | 6.0 | 6.0 | 98 x 19 | 65 g |
| 4-403 | 180 | 6.0 | 6.0 | 98 x 19 | 76 g |
| 4-404 | 295 | 4.0 | 4.0 | 70 x 15 | 42 g |
| 4-405 | 40 | 4.0 | 4.0 | 70 x 15 | 18 g |
| 4-406 | 80 | 4.0 | 4.0 | 70 x 15 | 22 g |
| 4-407 | 110 | 4.0 | 4.0 | 70 x 15 | 25 g |
| 4-408 | 200 | 4.0 | 4.0 | 70 x 15 | 35 g |
| 4-409 | 295 | 6.0 | 6.0 | 98 x 19 | 98 g |

BERNSTEIN

EXAMPLES OF SPECIAL TOOLS FOR ADJUSTMENT

A large number of electrical and electronic appliances or assemblies must be adjusted and set after the production process. Even when servicing, when fitting new components or when electrical values have altered owing to age, adjustment is usually necessary in order to restore the optimum functioning of the appliance.

Although this should be reduced to a minimum by design measures and technological processes, in order to save costs and to attain a high degree of reliability, adjustment cannot be eliminated completely.



SCREWDRIVERS

BERNSTEIN



WRENCH KEYS. ITEM: BRN 6-901

| STRAIGHT FINISH NO | A/F mm | BLADE LENGTH | WEIGHT | OFFSET FINISH | LEG LENGTH mm | WEIGHT | HANDLE SIZE |
|--------------------|--------|--------------|--------|---------------|---------------|--------|-------------|
| 6-901 | 2.0 | 75 | 15 g | 6-921 | 75 x 16 | 15 g | 70 x 15 |
| 6-902 | 2.5 | 75 | 17 g | 6-922 | 75 x 18 | 17 g | 70 x 15 |
| 6-903 | 3.0 | 75 | 20 g | 6-923 | 75 x 20 | 20 g | 70 x 15 |
| 6-904 | 4.0 | 75 | 30 g | 6-924 | 75 x 25 | 35 g | 80 x 17 |
| 6-905 | 5.0 | 80 | 55 g | 6-925 | 80 x 28 | 55 g | 80 x 17 |
| 6-906 | 6.0 | 80 | 60 g | 6-926 | 80 x 32 | 70 g | 90 x 20 |
| 6-907 | 7.0 | 80 | 70 g | 6-927 | 80 x 34 | 100 g | 90 x 20 |
| 6-908 | 8.0 | 120 | 115 g | 6-928 | 120 x 36 | 130 g | 100 x 23 |
| 6-909 | 9.0 | 120 | 135 g | 6-929 | 120 x 38 | 170 g | 100 x 23 |
| 6-911 | 10.0 | 120 | 180 g | 6-931 | 120 x 40 | 210 g | 110 x 26 |
| 6-912 | 12.0 | 120 | 240 g | 6-932 | 150 x 45 | 345 g | 120 x 28 |



BALLPOINT WRENCH KEYS. ITEM: BRN 6-941

| NO. | BLADE LENGTH mm | A/F mm | HANDLE SIZE mm | WEIGHT |
|-------|-----------------|--------|----------------|--------|
| 6-941 | 100 | 3.0 | 86 x 19 | 34 g |
| 6-942 | 100 | 4.0 | 86 x 19 | 41 g |
| 6-943 | 100 | 5.0 | 92 x 21 | 56 g |
| 6-944 | 125 | 6.0 | 110 x 25 | 100 g |
| 6-945 | 150 | 8.0 | 110 x 25 | 146 g |
| 6-946 | 150 | 10.0 | 110 x 25 | 194 g |



CK YELLOW HANDLE SCREWDRIVERS



VDE TOOLS



WHO ON EARTH WOULD DESIGN SOMETHING LIKE THIS?



COMBICUTTER 1™

COMBICUTTER 2™

COMBICUTTER 3™

ELECTRICIANS, THATS WHO!



strips

bends

shears

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



it strips

it bends

it shears

| 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 TOOLS



WIRE STRIPPING SIDE CUTTERS. ITEM: CK 39075

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 CAPCITY mmØ | | |
|--------|-------|---------------------|----------|------|
| | | HARD | MED/HARD | SOFT |
| 431019 | 160mm | 1.6 | 2.5 | >4.0 |



BENT NOSE PLIERS. ITEM: CK 39070

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 5745

| ITEM | SIZE | CUTTING CAPCITY mmØ | | |
|--------|-------|---------------------|----------|------|
| | | HARD | MED/HARD | SOFT |
| 431015 | 200mm | 1.6 | 2.5 | >4.0 |



SIDE CUTTERS. ITEM: CK 39075

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

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



CABLE CUTTER HEAVY DUTY. ITEM: CK 3906

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 CAPCITY mmØ |
|--------|-------|---------------------|
| | | SOFT |
| 431030 | 165mm | 16 |
| 431031 | 210mm | 25.0 |



SIDE CUTTERS HEAVY DUTY. ITEM: CK 39073

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 CAPCITY mmØ | | |
|--------|-------|---------------------|----------|------|
| | | HARD | MED/HARD | SOFT |
| 431006 | 175mm | 2.0 | 2.5 | >4.0 |
| 431007 | 200mm | 2.5 | 3.0 | >4.0 |

Warning - choosing VDE approved tools is an essential first step in helping an Electrician comply with electricity at work regulations, however it is essential that the tools are examined on a regular basis. Even the slightest damage can compromise the insulation integrity and potentially expose the user to the risk of injury or even death. Encourage your customers to replace worn or damaged VDE tools.



VDE TOOLS



There are no safer screwdrivers - C.K. SensoPlus®VDE screwdrivers are fully insulated to offer safe 1000V live working and come with the protection of:

- Full compliance with European standard IEC 60900:2004.
- Individually tested to 10,000V
- Certified and independently tested and monitored by the World renowned German VDE Institute
- Blade torque performance up to 20% over the International Standard requirement
- GS safety approved
- 100% safe, the professional's choice

1. Ergonomic dual compound handle offering the ideal balance of grip and comfort
2. Contoured blade insulation for better access
3. Toughened high alloy steel blade for high wear resistance
4. Precision machined tip for the ultimate screw fit and high torque output
5. Non-roll flats - won't roll off uneven surfaces
6. Permanent tip type marking on the end of the handle for convenient identification



SLOTTED SCREWDRIVER.

| ITEM | SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|--------|--------------------|--------------|----------------|---------------|
| 341018 | Slotted 75 x 2.5 | 75mm 3" | 2.5mm 3/32" | 85mm 33/8" |
| 341019 | Slotted 100 x 3.0 | 100mm 4" | 3.0mm 1/8" | 85mm 33/8" |
| 341020 | Slotted 100 x 3.5 | 100mm 4" | 3.5mm 9/64" | 85mm 33/8" |
| 341021 | Slotted 100 x 4.0 | 100mm 4" | 4.0mm 5/32" | 95mm 35/8" |
| 341022 | Slotted 125 x 5.5 | 125mm 5" | 5.5mm 7/32" | 105mm 41/8" |
| 341023 | Slotted 150 x 6.5 | 150mm 6" | 6.5mm 1/4" | 105mm 41/8" |
| 341024 | Slotted 175 x 8.0 | 175mm 7" | 8.0mm 5/16" | 120mm 43/4" |
| 341025 | Slotted 200 x 10.0 | 200mm 8" | 10.0mm 25/64" | 120mm 43/4" |



PZD/SDV® SCREWDRIVER.

| ITEM | SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|--------|-----------|--------------|----------------|---------------|
| 341010 | PZD/SDV 0 | 60mm 23/8" | 3.5mm 9/64" | 85mm 33/8" |
| 341011 | PZD/SDV 1 | 80mm 31/8" | 5.0mm 3/16" | 95mm 35/8" |
| 341012 | PZD/SDV 2 | 100mm 4" | 6.0mm 7/32" | 105mm 41/8" |
| 341013 | PZD/SDV 3 | 150mm 6" | 8.0mm 5/16" | 120mm 43/4" |



PHILLIPS SCREWDRIVER.

| ITEM | SIZE | BLADE LENGTH | BLADE DIAMETER | HANDLE LENGTH |
|--------|------------|--------------|----------------|---------------|
| 341002 | PH 0 x 60 | 60mm 23/8" | 3.5mm 9/64" | 85mm 33/8" |
| 341003 | PH 1 x 80 | 80mm 31/8" | 5.0mm 3/16" | 95mm 35/8" |
| 341004 | PH 2 x 100 | 100mm 4" | 6.0mm 7/32" | 105mm 41/8" |
| 341005 | PH 3 x 150 | 150mm 6" | 8.0mm 5/16" | 120mm 43/4" |





VDE TOOLS

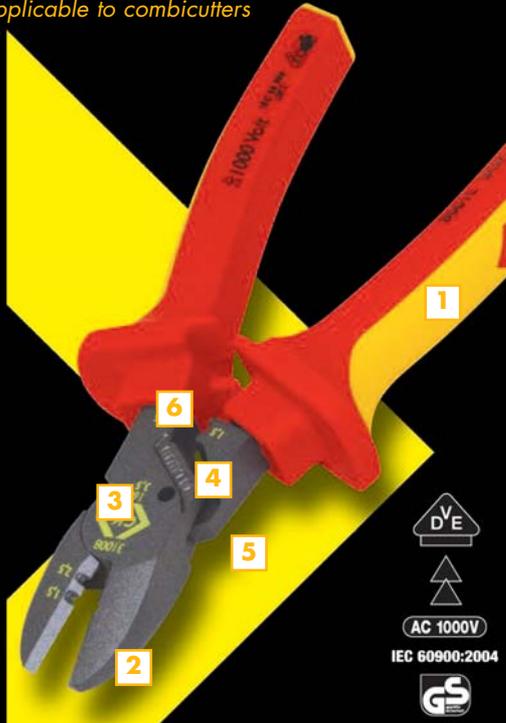


RedLine™ VDE

Our German made professional electrical pliers conform to the highest standards, manufactured in accordance with IEC 60900:2004, fully approved and independently audited by the German VDE Institute. Each plier is individually tested to 10,000V to ensure completely safe working on live equipment up to 1000V. Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94.

1. Ergonomic handles for comfort and safety
2. Hardened & precision ground cutting edges for high performance
3. The finest materials and processes guarantee strength and durability
4. Patress screw shear – damage free screw cutting*
5. Anti glare finish*
6. Wire folding anvil*
7. Wire stripping notches*

* Only applicable to combicutters



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 |



SNIPE 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.

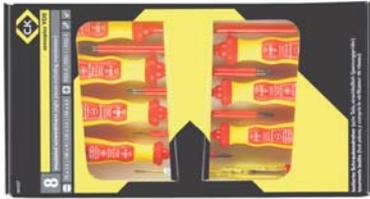
Ideal for repetitive wire stripping featuring an adjustable capacity and spring assisted opening. Wire capacity of 0.3 - 5.00mm

| ITEM | SIZE | STRIPPING CAPACITY mmØ |
|--------|-------|------------------------|
| 431012 | 160mm | 0.3 - 5.0 |





VDE TOOLS



INSULATED SCREWDRIVERS, 6 & 8 PIECE SETS.

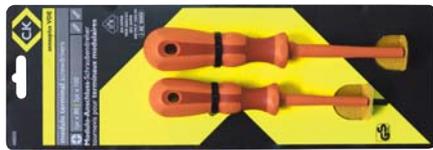
ITEM: CK 4103

Set of 5 SensoPlus® VDE screwdrivers plus mainstester, containing: Slotted screwdrivers 75 x 2.5mm, 100 x 4mm & 125 x 5.5mm. PZD/SDV screwdrivers PZD 1 x 80mm & PZD 2 x 100mm. Mainstester type 440007.

Set of 7 SensoPlus® VDE screwdrivers plus mainstester, containing: Slotted screwdrivers 75 x 2.5mm, 100 x 4mm, 125 x 5.5mm & 150 x 6.5mm. PZD/SDV screwdrivers PZD 0 x 60mm, PZD 1 x 80mm & PZD 2 x 100mm

Mainstester type 440007.

| ITEM | DESCRIPTION |
|--------|-------------------------|
| 441034 | 6 piece screwdriver set |
| 441037 | 8 piece screwdriver set |



MODULO TERMINAL SCREWDRIVERS.

ITEM: CK 440003

For special terminal screws with slotted/recessed heads. These screws are widely used in electrical equipment such as terminal, plugs, sockets etc. Eliminate the problem of quick wear of the screw heads due to better screw fit than any normal slotted or recessed head screwdriver.

| ITEM | DESCRIPTION |
|--------|-----------------|
| 422003 | screwdriver set |

24-PIECE VDE TOOL SET. ITEM: BRN 8150

12-PIECE VDE TOOL SET. ITEM: BRN 8160



24-PIECE VDE TOOL SET. ITEM: 8150 Weight: 4.100 kg NO.

- 13-106 VDE Side cutters for piano wire, 165 mm, chrome-plated, with two-colour multilayered insulation
- 13-708 VDE Combination pliers, 205 mm, chrome-plated, with two-colour multilayered insulation
- 14-601 VDE Screwdriver, insulated, blade 75 x 2.5 mm
- 14-606 VDE Screwdriver, insulated, blade 150 x 6.5 mm
- 14-632 VDE Cross-recess screwdriver, insulated, size 1
- 14-633 VDE Cross-recess screwdriver, insulated, size 2
- 15-521 VDE Cable knife with blade protection, blade 50 mm
- 15-522 VDE Cable stripping knife with blade protection, blade length 35 mm
- 16-441 VDE Socket, 10 mm A/F, with two-colour multilayered insulation
- 16-442 VDE Socket, as above, 11 mm A/F
- 16-443 VDE Socket, as above, 12 mm A/F
- 16-444 VDE Socket, as above, 13 mm A/F
- 16-445 VDE Socket, as above, 14 mm A/F
- 16-447 VDE Socket, as above, 17 mm A/F
- 16-448 VDE Socket, as above, 19 mm A/F
- 16-475 VDE T-bar, 1/2" square drive, 200 mm, with two-colour multilayered insulation
- 16-505 VDE Single-ended open-jaw wrench, 10 mm A/F, with two-colour multilayered insulation
- 16-506 VDE Single-ended open-jaw wrench, as above, 11 mm A/F
- 16-507 VDE Single-ended open-jaw wrench, as above, 12 mm A/F
- 16-508 VDE Single-ended open-jaw wrench, as above, 13 mm A/F
- 16-509 VDE Single-ended open-jaw wrench, as above, 14 mm A/F
- 16-512 VDE Single-ended open-jaw wrench, as above, 17 mm A/F
- 16-513 VDE Single-ended open-jaw wrench, as above, 19 mm A/F
- 17-531 VDE Voltage tester 'Steinel Volt Check 3'

12-PIECE VDE TOOL SET. ITEM: 8160 Weight: 2.800 kg NO.

- 13-106 VDE Side cutters for piano wire, 165 mm, chrome-plated, with two-colour multilayered insulation
- 13-207 VDE Telephone pliers, straight, 210 mm, chrome-plated, with two-colour multilayered insulation
- 13-707 VDE Combination pliers, 185 mm, chrome-plated, with two-colour multilayered insulation
- 13-806 VDE Wire strippers, 165 mm, chrome-plated, with two-colour multilayered insulation
- 14-601 VDE Screwdriver, insulated, blade 75 x 2.5 mm
- 14-602 VDE Screwdriver, insulated, blade 100 x 3.5 mm
- 14-604 VDE Screwdriver, insulated, blade 125 x 5.5 mm
- 14-606 VDE Screwdriver, insulated, blade 150 x 6.5 mm
- 14-632 VDE Cross-recess screwdriver, insulated, size 1
- 14-633 VDE Cross-recess screwdriver, insulated, size 2
- 15-521 VDE Cable knife with blade protection, blade length 50 mm
- 15-522 VDE Cable stripping knife with blade protection, blade length 35 mm



MOBILE AUTOMOTIVE NUVI 200

Our streetwise portable GPS electronics can guide you along the highways and biways - and down the beaten path - without the heavy price tag and restricting installation of permanent automotive GPS systems.



Navigate without breaking your budget with nüvi® 200. This affordable entry-level Personal Travel Assistant comes with preloaded SD Card with maps for Southern Africa . The nüvi 200 features an easy-to-use colourful touchscreen and ultra-slim design - perfect for everyday navigation.

Navigate With Ease

Simply touch the colour sunlight-readable screen to enter a destination, and nüvi takes you there with 2D or 3D maps and turn-by-turn voice directions. In addition, nüvi 200 accepts custom points of interest (POIs) such as school zones and safety cameras and lets you set proximity alerts to warn you of upcoming POIs.

OUTDOOR GPS MAPPING GPSMAP 76 CSX

Garmin® Launches "X"-treme Handheld Makeover

Whether it's hunting, hiking, or biking, Garmin products make it easy to get there and back. These rugged navigators are built to handle the Great Outdoors-and still keep you on track.



The GPSMAP 76CSx is a refreshing upgrade of the GPSMAP 76CS, one of our most popular models for outdoor and marine use. This unit features a removable microSD card for detailed mapping memory and a waterproof, rugged housing. The microSD card slot is located inside the waterproof battery

compartment. Users can load map data and transfer routes and waypoints through the unit's fast USB connection.

OUTDOOR GPS MAPPING ETREX LEGEND CX

Whether it's hunting, hiking, or biking, Garmin products make it easy to get there and back. These rugged navigators are built to handle the Great Outdoors-and still keep you on track.



Pack more detail into your adventure with the eTrex Legend Cx®. Garmin has added removable memory to these pocket handhelds, making it easy to pack light and add maps on the go.

The eTrex Legend Cx is loaded with the same popular features found in the eTrex Legend C, including sunlight-readable color and advanced GPS routing capabilities - all in a waterproof design. Download maps directly to the microSD card, BlueChart® marine cartography, and Garmap South Africa Street maps and Topo Maps.

MOBILE AUTOMOTIVE NUVI 300



Our streetwise portable GPS electronics can guide you along the highways and biways - and down the beaten path - without the heavy price tag and restricting installation of permanent automotive GPS systems.

The Ultimate Travel Companion

Introducing the nüvi: A versatile travel assistant that's approximately the size of a deck of playing cards. The nüvi is a portable GPS navigator, traveler's reference, and digital entertainment system, all in one. Combined with detailed maps, the nüvi provides automatic routing, turn-by-turn voice directions, and finger-touchscreen control-making it easy to find your way anywhere.

MOBILE AUTOMOTIVE ZUMO 500



Our streetwise portable GPS electronics can guide you along the highways and biways - and down the beaten path - without the heavy price tag and restricting installation of permanent automotive GPS systems.

Garmin International is pleased to announce the all-new motorcycle navigator Zumo 500. The Garmin Zumo is the first fully featured, no-compromises GPS navigator designed exclusively for motorcyclists. Specific features of the new Zumo include Bluetooth wireless technology. This feature allows users to place hands-free mobile phone calls when paired with a compatible phone that has Bluetooth wireless technology. Incoming calls are answered by simply tapping the Zumo's screen and speaking through the helmet mic or optional external mic.





GENERAL TOOLS



UNIVERSAL SWITCH KEY.

Multi purpose key designed for use on locking systems of gas, electric and water cupboards in industry and/or technical equipment in buildings such as air conditioning, stop valves, mains consoles etc.

| ITEM NO | DESCRIPTION |
|---------|---------------|
| 495002 | universal key |



PUNCH DOWN TOOL.

For seating Telecom and data cables into terminals - automatically trims excess wires during punch down action. Suitable for a wide range of terminal blocks, including KRONE and similar. The handle includes wire extractor hook and spudger.

| ITEM NO | SIZE (mm / inch) |
|---------|------------------|
| 495033 | 180mm / 7" |

SURE DRIVE SOCKET SET – 39 PIECE. ITEM: CK 4655

Metric socket set forged from chrome vanadium alloy steel for long Non-slip satin chrome finish for maximum resistance to shock and the ratchet features a soft grip, dual compound handle. Display packed.



- Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm
- Socket Bits: Hexagon 3, 4, 5, 6mm
- Tamper proof T 8, 10, 15, 20, 25, 27, 30, 40, PZD 1, 2, 3, PH 1, 2, 3, Slotted 4, 5.5, 7mm
- Accessories: 50mm extension, 50mm extension/driver, Universal Adaptor, 45 tooth quick release ratchet.

| ITEM | DRIVE | DESCRIPTION |
|-------|-------|-------------|
| T4655 | 1/4" | socket set |



SURE DRIVE ADJUSTABLE WRENCH. ITEM: CK 4365

The 'Sure Drive' jaw profile grips bolt heads and nuts at the flank, not at the corners thus eliminating 'rounding off'. Chrome vanadium steel, matt chromed. Comfortable soft-grip handle. Metric and inch graduations, 18% wider jaw opening than standard patterns, lightweight design and narrow jaw. Clear arrow showing correct direction of use. Features combine to ensure benefits in use over standard patterns. Display packed.

| ITEM | SIZE | DESCRIPTION |
|-----------|-------------|-------------------|
| T4365 200 | 200mm / 8" | adjustable wrench |
| T4365 250 | 250mm / 10" | |
| T4365 300 | 300mm / 12" | |



WATERPUMP PLIERS. ITEM: CK 3659

Manufactured from hot drop forged chrome vanadium steel, oil hardened and tempered to specified levels. Box jointed construction gives accuracy and long life. Slim head design for use in confined spaces. Parallelogram shaped jaws grip well on smooth and irregular surfaces. 7 position adjustment. Built in stop prevents finger nipping. Black stove enamel finish with PVC coated handles. Manufactured to DIN 5231D and ISO 8976 specifications. Display packed.

| ITEM | SIZE | JAW CAPACITY MM |
|------------|-----------|---|
| T3659A 175 | 175mm 7" | 30mm / 1 ³ / ₁₆ " |
| T3659A 240 | 250mm 10" | 32mm / 2 ¹ / ₄ " |
| T3659A 300 | 300mm 12" | 38mm / 1 ¹ / ₂ " |
| T3659A 400 | 400mm 16" | 64mm / 2 ¹ / ₂ " |



HACKSAW. ITEM: CK 903

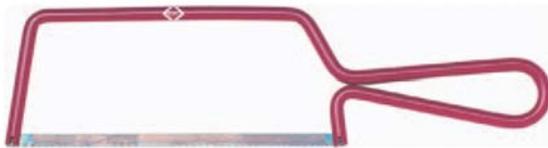
Robust heavy duty hacksaw with aluminium handle and sturdy box section steel beam. Blade tension lever integrated into handle for quick change of blades. Blade adjustable in 45° position. Supplied with CeKaflex HSS bi-metal blade 933 300mm / 24 tpi. Supplied loose.





GENERAL TOOLS

| ITEM | TPI | SIZE |
|-------|-------|-----------|
| T0903 | 12 24 | 300mm 12" |



JUNIOR HACKSAW. ITEM: CK 834

Red epoxy coated steel frame 58mm / 2 1/4" deep. Pins of blade are fixed in frame and do not therefore, protrude to injure the hand. Top quality 150mm / 6" 32tpi blade fitted plus one spare supplied. Display packed.

| ITEM | TPI | SIZE |
|-------|-----|----------|
| T0834 | 32 | 150mm 6" |



ALUMINIUM LEVEL. ITEM: 3494

Aluminium box section level with powder coating. Barrel shaped vials are of clear solid Plexiglass and are virtually unbreakable. Guaranteed leak-proof for 3 years. Highly accurate at 0.057" (1mm per 1m) in overhead and normal measuring position. Shockproof yet lightweight. All sizes except 1200mm with metric graduation. Sizes 400mm and 600mm with 1 level and 1 plumb, other sizes with 1 level and 2 plumbs. Hanging hole. Sold loose.

| ITEM | LENGTH | DESCRIPTION |
|----------|------------|-----------------|
| T3494 24 | 600mm 24" | aluminium level |
| T3494 32 | 800mm 32" | |
| T3494 40 | 1000mm 40" | |
| T3494 48 | 1200mm 48" | |



SOCKET. ITEM: GDR19

Bi-Hexagon Profile. Manually operated sockets with knurled base. CHROME VANADIUM steel - 31CrV3. 3/8" square drive. Chrome plated and polished.

| ITEM | DESCRIPTION |
|------|-------------|
| D19 | sockets |



SOCKET SET. ITEM: GDR 19 TMZ/TMAZ

Manually operated 1/2" sockets and accessories. Supplied in blue powder coated steel case with black matt finish insert. Dimensions: 435x170x50.

| ITEM | | | |
|--------------|----------|----|----|
| Contents: | | | |
| 1993Z-94 | 1985 | | |
| 1987 | 1990/125 | | |
| 1990/250 | 1995 | | |
| Sockets: C19 | | | |
| 8 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 21 |
| 22 | 24 | 26 | 27 |
| 29 | 30 | 32 | |



COMBINATION SPANNER. ITEM: GDR 1B+ SIZE

CHROME VANADIUM steel- 31CrV3. Chrome plated, polished rings. Rings - thin walled with deep offset, UD profile. Same size on each end.



DOUBLE OPEN-ENDED SPANNER. ITEM: GDR 6+ SIZE

CHROME VANADIUM steel- 31CrV3. Chrome plated, polished shoulders. Slim pattern - Oval shaft.





GENERAL TOOLS



ADJUSTABLE WRENCH. ITEM: GDR 62 + SIZE.

Chrome Vanadium steel- 31CrV3. Swedish pattern - Jaw set at 15°. Blackened finish. Ground head.

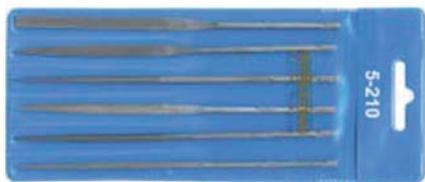
| NO. | MM |
|------------|-----|
| 62 / 150mm | 150 |
| 62 / 200mm | 200 |
| 62 / 250mm | 250 |
| 62 / 300mm | 300 |
| 62 / 375mm | 375 |
| 62 / 450mm | 450 |
| 62 P 24" | 610 |



BALL PEIN HAMMERS.

Heads: Drop-forged. Striking faces induction hardened and precision ground. Magnaflux crack-detection tested. Blue epoxy powder coated. Handles: Imported "GRAPIA" hardwood

| NO. |
|-------------|
| 8601 / 300 |
| 8601 / 500 |
| 8601 / 700 |
| 8601 / 1000 |
| 8601 / 1200 |
| |
| |



NEEDLE FILES WITHOUT HANDLE. ITEM: BRN 5-210-6



TAPES. ITEM: 3442

Accurate to 73/362/EEC Class II, the st tape range is constructed from tough, soft touch ABS plastic bodies with full lock and pause button facilities plus a belt clip. The blades are abrasion resistant nylon coated for wear and corrosion resistance and feature continuous metric/imperial graduations, 16" joist centre markings, and true zero hooks. Recoil dampers are provided on larger models for blade protection.

| ITEM | SIZE | DESCRIPTION |
|----------|-----------|--------------|
| T3442 10 | 3m 10ft | tape measure |
| T3442 16 | 5m 16ft | tape measure |
| T3442 25 | 7.5m 25ft | tape measure |



POCKET LEVEL. ITEM: 3482

Multi-purpose pocket level with detachable mini level. The pocket level has 1 horizontal vial, 1 vertical vial and a magnetic base. The removable mini level also has a magnetic base and can be used as line level. Display packed.

| ITEM | SIZE | DESCRIPTION |
|-------|------------|--------------|
| T3482 | 210m 81/4" | pocket level |

TEST EQUIPMENT



DIGITAL CLAMP-METER. ITEM: BKM T2138

- Jaw Size 40mm
- Back Light and Clamp Light
- Data Hold
- Resistance
- Frequency
- Overmould
- Diode



TEST EQUIPMENT



DIGITAL CLAMP METER. ITEM: BKM TCM 02

- Jaw Size 23mm
- Min/Max
- Data Hold
- Bargraph
- Diode
- Continuity
- Auto Range



DIGITAL CLAMP-METER. ITEM: BKM T2102

- Jaw Size 28mm
- Data Hold
- Diode
- Continuity
- Analogue bar graph
- Zero mode



DIGITAL CLAMP-METER. ITEM: BKM T8056

- Jaw Size 42mm
- Duty Cycle
- Diode
- Continuity
- Auto Power Off
- Relative Zero
- Data Hold

DIGITAL MULTIMETER. ITEM: BKM

TBM811/TBM811XEX

- Splash/Drop Proof
- 1000 VAC/DC
- RS232 Interface
- Diode
- Continuity
- Data Hold



DIGITAL MULTIMETER.

ITEM: BKM TBM811/TBM811XEX

- Splash/Drop Proof
- 1000 VAC/DC
- RS232 Interface
- Diode
- Continuity
- Data Hold



DIGITAL MULTIMETER.

ITEM: BKM TBM812 / TBM812XEX

- Splash/Drop Proof
- 6kV Transient Protection
- 1000 VAC/DC
- RS232 Interface
- Diode
- Continuity
- Data Hold



DIGITAL SINGLE DC POWER SUPPLY. ITEM: LDS 8300, 8200, 8301, 8201

- Constant Voltage range
- Constant Current range



POWER SUPPLY ITEM: ORYX POWER SUPPLIES

- 0-30V 0-5A". Fixed 5V & 12V rails. Digital and analogue available. Constant current & temperature overload.



Oryx



EZ DIGITAL

LODESTAR



OSCILLOSCOPES

OSCILLOSCOPE.

ITEM: EZ OS 5030 30MHz
2ch dual trace

- DC to 30MHz BandWith, 2CH - dual trace
- 6" Rectangular CRT with internal graticule
- Sensitivity 1mV / div
- ALT. triggering function (Vert Mode)
- CH2 Polarity inversion switch
- High sensitivity X - Y mode
- Sweep magnification(X10)
- TV sync. separator circuit for stable TV signal observation
- 400V maximum. input voltage



OSCILLOSCOPE PROBE. ITEM: LF-190E 60MHZ

OSCILLOSCOPE.

ITEM: OS 5020
20MHz 2ch dual trace

- DC to 20MHz BandWith, 2CH - dual trace
- 6" Rectangular CRT with internal graticule
- Sensitivity 1mV / div
- ALT. triggering function (Vert Mode)
- CH2 Polarity inversion switch
- High sensitivity X - Y mode
- Sweep magnification(X10)
- TV sync. separator circuit for stable TV signal observation
- 400V maximum. input voltage



OSCILLOSCOPE PROBE. ITEM: LF-210E 100MHZ

OSCILLOSCOPE.

ITEM: EZ OS 5020G
200MHz 2ch dual trace
Bult-in 1MHz function generator

- DC to 20MHz, 2CH - dual trace
- Built - in 1MHz function generator with TTL output
- CH2 polarity inversion switch
- High sensitivity X - Y mode
- Vertical deflection magnification, X5
- Sensitivity : 1mV / div
- Variable hold - off for observation of wave forms with complex periods
- Employment of TV sync. separator circuit allows the instrument to observe TV signals stably
- Sweep magnification, X5



OSCILLOSCOPE PROBE. ITEM: LF-250 250MHZ



DIFFERENTIAL PROBE. ITEM: HP-025 25MHZ

- Make floating measurements simply and safely
- Compatible with analog or digital storage oscilloscopes

 **EZ DIGITAL**

LODESTAR



MULTIMETERS

FLUKE®



**VERSATILE METERS FOR
FIELD SERVICE OR BENCH
REPAIR 170 SERIES**



**THE FLUKE T100 SERIES.
THE FAST AND EASY
SOLUTION TO VOLTAGE
CONTINUITY AND
RESISTANCE
MEASUREMENTS.**



**THE FLUKE 110 SERIES
COMPRISES OF FOUR
TRUE-RMS DMMs**



**THE FLUKE 2042 IS A
PROFESSIONAL GENERAL
PURPOSE CABLE
LOCATOR.**



**THE RIGHT METER FOR
AUTO-ELECTRIC
DIAGNOSIS
FLUKE 88V**



**THE FLUKE 1550B IS A
DIGITAL INSULATION
TESTER CAPABLE OF
TESTING SWITCHGEAR,
MOTORS, GENERATORS
AND CABLES AT UP TO
5000V DC.**



**FLUKE EXPANDS ITS
EXISTING LINE OF
QUALITY CLAMP METERS
FLUKE 330 SERIES**



**THE NEW FLUKE 1620
SERIES EARTH GROUND
TESTERS**



**THE FLUKE 321 AND 322
ARE DESIGNED TO
VERIFY THE PRESENCE OF
LOAD CURRENT, AC
VOLTAGE AND
CONTINUITY OF
CIRCUITS, SWITCHES,
FUSES AND CONTACTS.**



**THE FLUKE 1650 SERIES
TESTERS VERIFY THE
SAFETY OF ELECTRICAL
INSTALLATIONS IN
DOMESTIC, COMMERCIAL
AND INDUSTRIAL
APPLICATIONS.**



MULTIMETERS

FLUKE®



POINT, PRESS AND READ TEMPERATURE

**FLUKE 68
FLUKE 66
FLUKE 63
FLUKE 62**



**SCOPEMETER 190 SERIES
HIGH PERFORMANCE
OSCILLOSCOPES.**

FLUKE 61



**THE COMPACT
SCOPEMETER 120 SERIES**



**THE THERMAL IMAGER
FOR EVERYDAY
MAINTENANCE AND
INSPECTION**

FLUKE TI20



**THE FLUKE 771 IS THE
LATEST INNOVATIVE
APPROACH TO
MEASURING mA LOOP
SIGNALS.**



**THE FLUKE 435 AND 434
THREE-PHASE POWER
QUALITY ANALYZERS
HELP YOU LOCATE,
PREDICT, PREVENT AND
TROUBLESHOOT
PROBLEMS IN POWER
DISTRIBUTION SYSTEMS.**



**THE FLUKE 787 AND 789
PROCESSMETERS.**



ANTISTATIC AIDS



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



ECOSTAT-DF POLYCAN-WL. ITEM: 1131.7035.9

- Application without conductive layer
 - Water based, 2 component epoxy paint
 - Glossy surface
 - Colour grey ~ RAL 7035, other colours available on request
 - Medium abrasion resistance
 - Suitable for hard floors in EPA's
 - Suitable for new and existing floors
 - Easy application and rework using a roller
- Typical resistance to ground RG = 105 - 107 Ohm

| ITEM | DESCRIPTION |
|-------------|-------------|
| 1131.7035.9 | 9kg |

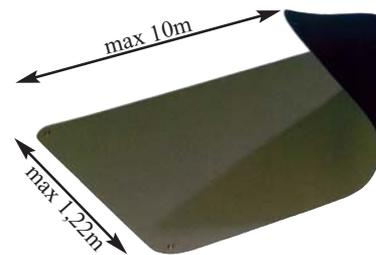


TABLE MATS. ITEM: 1402.662.Z

- 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



- 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 |



| 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) |



WOMENS / MENS SHOES. ITEM: 2590.1572

- Breathable Air-Mesh inner lining
- 2 interchangeable inner soles
- Complies with EN ISO 2037:2004
- Complies with DIN EN 4843/part 100

| ITEM | SIZE |
|-----------|---------|
| 2590.1572 | 37 - 48 |

WOMENS SHOES. ITEM: 2590.1572

- Breathable Air-Mesh inner lining
- 2 interchangeable inner soles
- Complies with EN ISO 2037:2004
- Complies with DIN EN 4843/part 100



| ITEM | SIZE |
|------------|---------|
| 2590.31596 | 37 - 48 |



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.



SERVICE KIT. ITEM: SCS 2400.673

Portable static controlled station for mobile personnel

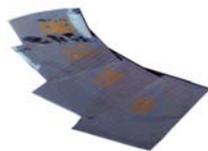
- Rugged, dissipative Vinyl material
- Includes a 610 x 610 mm mat with two pockets
- Carrying wallet with a snap fastener
- Includes a coil cord with an adjustable wrist strap, a 3 m grounding cord and a large alligator clip (VDE)
- Typical resistance to ground RG = 107 - 108 ohm



BRUSHES. ITEM: SCS 6100

HIGHSHEILD. 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



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 | - | - |



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
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 40 seconds
- 45 minute run time
- Piezo self Igniting
- 13 assorted spare tips
- Safety cut-off switch
- Available as kit



PRO PIEZO TIPS & ACCESSORIES

| ITEM | DESCRIPTION | SIZE INCHES | SIZE MM |
|--------|------------------------|-------------|---------|
| PP-1 | butane soldering iron | - | - |
| PPT-6 | double flat solder tip | 3/32 | 2.4mm |
| PPT-7 | double flat solder tip | 1/8 | 3.2mm |
| PPT-8 | double flat solder tip | 3/16 | 4.8mm |
| PPT-9 | hot air blower tip | - | - |
| PPT-10 | hot knife tip | - | - |
| PPT-11 | hot air deflector | - | - |
| PPT-12 | flame tip | - | - |
| PPT-14 | operating instructions | - | - |
| PPT-15 | storage cases | - | - |
| PPT-16 | wire stand | - | - |
| PPT-17 | cleaning sponge & cup | - | - |



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



TECHNIC TIPS

| ITEM | DESCRIPTION | SIZE INCHES | SIZE MM |
|------|------------------------|-------------|---------|
| PGCT | single flat solder tip | 1/32" | 1.0mm |
| PGCT | single flat solder tip | 3/32" | 2.4mm |
| PGCT | single flat solder tip | 1/8" | 3.2mm |
| PGCT | single flat solder tip | 3/16" | 4.8mm |
| PGCT | hot knife tip | - | - |

GLUE GUNS

GLUE GUN. ITEM: ORX G 125

- 125 Watts of power
- Ergonomic handle grip
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 3 minutes
- 90 minutes run time
- Piezo self-igniting
- STD. 12mm glue stick
- Thermostatically controlled
- Gas view window



GLUE GUNS

SOLDERING IRONS

MAGNUM®

GLUE GUN. ITEM: ORX G 150

- 175 Watts of power
- Ergonomic handle grip
- Refill with butane lighter gas
- 10 second refill time
- Heats up in 4 minutes
- 150 minutes run time
- Piezo self-igniting
- STD.12mm glue stick
- Thermostatically controlled
- Gas view window
- 3.2mm Bead 300mm long squeeze
- 4 assorted spare nozzles
- Available as a kit



MAGNUM 2004 STATION

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

TWEEZERS



UNIVERSAL TWEEZERS 115 MM 4.1/2"

ITEM: CK 2301

Tip width 1 mm. Fine blunt points, finely milled inside. Polished

| ITEM | DESCRIPTION |
|------|-------------|
| 2301 | tweezers |



UNIVERSAL TWEEZERS 150 MM 6". ITEM: CK 2314

Tip width 1.5 mm. Fine blunt points, bent 15 mm. Finely milled inside. With guide pin. Polished and fine nickel plated. Serrated grips.

| ITEM | DESCRIPTION |
|------|-------------|
| 2314 | tweezers |



PRECISION TWEEZERS 105 MM 4.1/8"

ITEM: CK 2316

Fine straight points. Finely polished. Austenitic, stainless steel, anti-magnetic and acid resistant.

| ITEM | DESCRIPTION |
|------|-------------|
| 2316 | tweezers |



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.

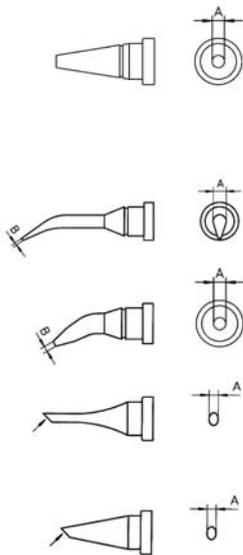


MAGNUM 2000 STATION

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

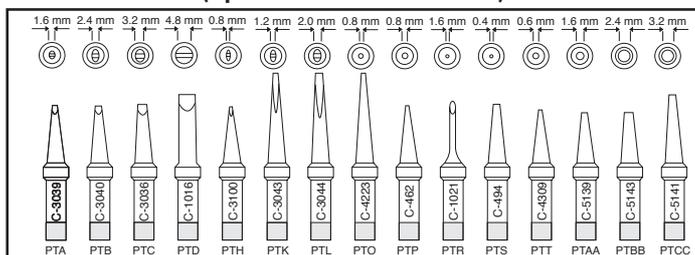


SOLDERING TIPS FOR WP 80, WSP 80, FE 75, AND MPR 80, WS81,WSD81

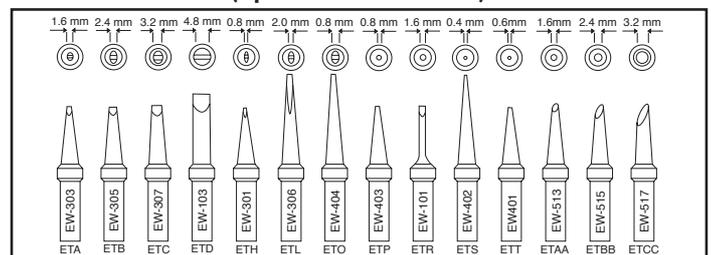


| ITEM | MODEL | DESCRIPTION | WIDTH | LENGTH |
|---------------|---------|---|-----------|---------|
| 005 44 435 99 | LT 1 | Round, single packaged | Ø 0,25 mm | 14,0 mm |
| 005 44 401 00 | LT 1 | Round, bulk | Ø 0,25 mm | 14,0 mm |
| 005 44 401 11 | LT 1 | Round, packaged 100 pcs | Ø 0,25 mm | 14,0 mm |
| 005 44 489 99 | LT 1A | Round, single packaged | Ø 0,5 mm | 14,0 mm |
| 005 44 404 00 | LT AS | Round, bulk | Ø 1,6 mm | 13,5 mm |
| 005 44 404 11 | LT AS | Round, packaged 100 pcs | Ø 1,6 mm | 13,5 mm |
| 005 44 411 00 | LT CS | Round, bulk | Ø 3,2 mm | 13,5 mm |
| 005 44 426 99 | LT 1SLX | Round slim bent 30° single packaged | Ø 2,0 mm | 20,5 mm |
| 005 44 425 99 | LT 1X | Round bent 30° single packaged | Ø 0,4 mm | 12,5 mm |
| 005 44 421 00 | LT 4 | Round sloped 45° slim bulk | Ø 1,2 mm | 15,0 mm |
| 005 44 421 11 | LT 4 | Round sloped 45° slim packaged 100 pcs. | Ø 1,2 mm | 15,0 mm |
| 005 44 408 00 | LT F | Round sloped 45°, bulk | Ø 1,2 mm | 13,5 mm |
| 05 44 408 11 | LT F | Round sloped 45° packaged 100 pcs. | Ø 1,2 mm | 13,5 mm |

C-Tips for Magnastatic Irons (Tip has a number at the rear)



EW - TIPS FOR TEMTRONIC IRONS (Tip is hollow at the rear)



MAGNASTAT CONTROLLED LINE VOLTAGE SOLDERING IRONS. ITEM: W61



| MODEL | DESCRIPTION |
|-------|---|
| W 61 | Line voltage soldering iron 60 W, 230 V Magnastat controlled • complete with soldering tip CT5 B7 and safety rest |

MAGNASTAT CONTROLLED LINE VOLTAGE SOLDERING IRONS. ITEM: W201



| MODEL | DESCRIPTION |
|-------|--|
| W201 | Line voltage soldering iron 200 W, 230 V Magnastat controlled • complete with soldering tip CT2 F7 and safety rest |



Weller SOLDERING STATIONS

ELECTRONIC CONTROLLED SOLDERING STATION. ITEM: WD 1M



| MODEL | DESCRIPTION |
|-------|---|
| WD 1M | <p>Power Unit digital 80 W, 230 V for Micro Soldering Iron WMRP and Micro Tweezers WMRT with USB-Interface</p> <ul style="list-style-type: none"> • Soldering Tools to be ordered separately • High Speed Regulation for Micro Soldering Tools WMRP and micro tweezers WMRT • PT Regulation for all Weller Soldering Tools up to 80 W • Temperature range 50°C– 450°C • high contrast LCD-Display • three short-keys for self programmable preset temperatures • special function menu for custom specific calibration, Set-Back, Lock, Remote ID for ISO applications • automatic tool recognition • safety class 1 (power unit), safety class 2 (soldering iron) • potential-free plug (factory set hard grounded) • dimensions: 134 x 108 x 147 mm (L x B x H) • USB-interface |

ELECTRONIC CONTROLLED SOLDERING STATION. ITEM: WD 2M



| MODEL | DESCRIPTION |
|-------|---|
| WD 2M | <p>2 Channel Power Unit digital 160 W 230 V for Micro Soldering Iron WMRP and Microtweezer WMRT with USB-Interface</p> <ul style="list-style-type: none"> • Soldering Tools to be ordered separately • basic functions as WD 1M • simultaneous use of 2 soldering tools up to 80 Watt • When using a soldering tool with 150W, the second channel will automatically be switched OFF • Temperature range 50°C– 450°C (550 C° with Soldering Iron WSP 150) • dimensions: 134 x 108 x 147 mm (L x B x H) • USB-interface |

ELECTRONIC CONTROLLED SOLDERING STATION. ITEM: WSD 81



| MODEL | DESCRIPTION |
|--------|---|
| WSD 81 | <p>Soldering station digital 80 W, 230 V with 80 W Silver Line soldering iron</p> <ul style="list-style-type: none"> • Digital controlled electronic for soldering tools up to 80 W • Temperature range 50°C– 450°C • Temperature control via buttons • 3-position digital display • Calibration box WCB 2 (see page 160) may be connected for CALIBRATION, LOCK OUT or OFFSET function • Key switch • Protection class 1 • Antistatic housing • Equipotential bonding (normal state hard grounded) • Automatic tool recognition • Dimensions: 166 x 115 x 101 |

mm



Weller SOLDERING STATIONS

ELECTRONIC SOLDERING STATION. ITEM: W 1000M



| MODEL | DESCRIPTION |
|---------|---|
| W 1000M | <p>Mirco Soldering station digital 80 W, 230 V with soldering pencil WMRP</p> <ul style="list-style-type: none"> • The high-grade heat transfer system ensures perfect stability of tip-temperature • Control unit WD 1M and soldering pencil WMRP • When placing the iron in the stand WDH 50 the power is switched OFF at once or with time delay • Soldering tips can be changed solely by hand, no other tool needed • Heating-up time max. 4 sec. |

WELLER WDC - DRY CLEANER. ITEM: WDC



| MODEL | DESCRIPTION |
|-------|--|
| WDC | <ul style="list-style-type: none"> • Weller WDC – Dry Cleaner <p>The solution for cleaning from lead free solder!</p> |

ELECTRONIC CONTROLLED SOLDERING STATION. ITEM: WSD 151



| MODEL | DESCRIPTION |
|---------|---|
| WSD 151 | <p>Soldering station digital 150 W, 230 V</p> <ul style="list-style-type: none"> • 150 W soldering iron WSP 150 for high temperature soldering • Digital controlled electronic for soldering tools up to 150 W • Temperature range 50°C–550°C (automatically limited to 450°C if any other tool than WSP 150 is connected) • Temperature control via buttons • 3-position digital display • Calibration box WCB 2 (see page 160) may be connected for CALIBRATION, LOCK OUT or OFFSET function • Protection class 1 • Antistatic housing • Equipotential bonding (normal state hard grounded) • Automatic tool recognition • Dimensions: 166 x 115 x 101 mm |



Weller SOLDERING STATIONS

ELECTRONIC CONTROLLED SOLDERING STATION. ITEM: PUD 151R



| MODEL | DESCRIPTION |
|----------|---|
| PUD 151R | <p>Soldering station digital 150 W, 230 V for use with solder robots</p> <ul style="list-style-type: none"> • Digital controlled electronic for soldering tools up to 150 W • Temperature range 50°C– 550°C • Temperature window adjustable $\pm 99^\circ\text{C}$ • Temperature control via buttons • 3-position digital display • Calibration box WCB 2 (see page 160) may be connected for CALIBRATION, LOCK OUT or OFFSET function • Protection class 1 • Antistatic housing • Equipotential bonding (normal state hard grounded) • Automatic tool recognition • Potential free contact 24 V / 20 mA • Dimensions: 166 x 115 x 101 mm |

ELECTRONIC CONTROLLED SOLDERING STATION. ITEM: WS 81



| MODEL | DESCRIPTION |
|-------|--|
| WS 81 | <p>Soldering station analog 80 W, 230 V with 80 W Silver Line soldering iron</p> <ul style="list-style-type: none"> • Analog controlled electronic for soldering tools up to 80 W • Temperature range 150°C– 450°C • Temperature control via rotary potentiometer • Protection class 1 • Antistatic housing • Equipotential bonding (normal state hard grounded) • Automatic tool recognition • Dimensions: 166 x 115 x 101 mm |

SOLDERING STATION FOR USE WITH SOLDER ROBOTS. ITEM: WS 51



| MODEL | DESCRIPTION |
|-------|--|
| WS 51 | <p>Soldering station analog 80 W, 230 V with soldering iron LR 21, 50 W</p> <ul style="list-style-type: none"> • Analog controlled electronic for soldering tools up to 80 W • Temperature range 150°C– 450°C • Temperature control via rotary potentiometer • Protection class 1 • Antistatic housing • Equipotential bonding (normal state hard grounded) • Automatic tool recognition • Dimensions: 166 x 115 x 101 mm |



Weller SOLDERING STATIONS

FERRO MAGNETIC CONTROLLED SOLDERING STATION (MAGNASTAT). ITEM: WTCP 51



| MODEL | DESCRIPTION |
|-------|---|
| WS 51 | Soldering station Magnastat 50 W, 230 V <ul style="list-style-type: none"> • On / Off controller • Temperature control variable by soldering tip exchange • Protection class 1 • Antistatic housing • Hard grounded • Dimensions: 166 x 115 x 101 mm |

ELECTRONIC CONTROLLED DESOLDERING STATIONS. ITEM: W



| MODEL | DESCRIPTION |
|----------|--|
| WR 3000M | Desoldering station with multi-digital 420 W, 230 V with soldering iron DSX 80 and internal pump <ul style="list-style-type: none"> • 3 tool channels with automatic tool detection • Hot air iron, soldering iron and desoldering iron • Own vacuum channel for pick up • USB-port • Comprehensive PC software • All high-speed micro tools can be connected • Dimensions L x W x H (mm): 237 x 235 x 102 • Weight approx. 6,5 kg • Safety class I and III, housing antistatic • Fuse: overcurrent release 2 A (4 A) • Temperature control of channels: soldering and desoldering irons stepless 50°C – 550°C (150°F – 999°F) • Temperature accuracy: ± 9°C) • Temperature stability: ± 5°C • Pump (periodic duty (30/30) s): max. vacuum 0,7 bar max delivery rate 18 l/min, hot air max. 15 l/min • Equipotential bonding: via 3,5 mm pawl socket on back of device |

VARIOUS SOLDERING ITEMS



CHEMTRONICS SOLDERWICK



**ORX 50-220+
ORX 305-220**



KESTER FLUXES



KESTER SOLDER PASTE



E BAR SOLDER



DESOLDERING STATIONS

HOT AIR STATION. ITEM: WMD 1A



| MODEL | DESCRIPTION |
|--------|---|
| WMD 1A | Hot air station multi digital 175 W, 230 V with internal pump <ul style="list-style-type: none">• 1 channel• Digital controlled electronic for soldering, desoldering and hot air tools up to 150 W• Temperature range 50°C–550°C (HAP 1)• Air volume hot air 1–10 l/min• Protection class 1• Antistatic housing• Equipotential bonding (normal state hard grounded)• Automatic tool recognition• Dimensions: 240 x 270 x 105 mm |

SOLDER DISPENSER. ITEM: SD 1000



| MODEL | DESCRIPTION |
|---------|--|
| SD 1000 | Solder dispenser <ul style="list-style-type: none">• for coils up to 1000 g• for use of coil up to:<ul style="list-style-type: none">length 95 mm, core Ø > 17 mmlength 84 mm, core Ø < 12 mm |

SOLDER DISPENSER. ITEM: ABW 2



| MODEL | DESCRIPTION |
|-------|--|
| ABW 2 | Extension for additional reel <ul style="list-style-type: none">• to be fixed on SD 1000• for coils up to 1000 g• for use of coil up to:<ul style="list-style-type: none">length 95 mm, core Ø > 17 mmlength 70 mm, core Ø < 12 mmlength 84 mm, core Ø < 12 mm |

Weller





AEROSOL SPRAYS

CONFORMAL COATING.
ITEM: CONCO



ALL PURPOSE WATER REPELLING PENETRATING SPRAY.

ITEM: ALLPUR



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



RECHARGEABLE MAGLITE
ITEM: MGL ML1701



HEADLAMP 12 LED
KAR KLT 12 LED



9 LED HANDHELD TORCH
ITEM: KAR KLT115



30 LED 3D CELL TORCH
ITEM: KAR KLT023



INSPECTION LAMPS
ITEM: FEM SL-114



KNIVES



SAFETY KNIFE. ITEM: CK 969

Blade retracts automatically when the lever is released thus reducing likelihood of injury. Ideal product for commercial use and within the home. Ergonomic, lightweight design with a matt finish for safer grip. Metal casing slightly covers blade giving greater protection. Simple blade change. Display packed.

| ITEM | DESCRIPTION |
|-------|--------------|
| T0969 | safety knife |



TRIMMING KNIFE. ITEM: CK 956-2

Manufactured to the highest standards. Heavy duty die cast alloy with enamelled finish and anti slip surface. Supplied with five standard Solingen steel blades held in handle. Blades can be fitted at the slotted end to form a scraper.

| ITEM | SIZE | DESCRIPTION |
|-------|--------------|----------------|
| T0960 | 160mm 6 1/4" | trimming knife |

VICES

CLAMPING VICES SPANNFIX. ITEM: BRN 9-205

BERNSTEIN clamping equipment is constructed on ball-and-socket joints, thus enabling it to be rotated and set firmly, in order to create maximum possibilities for work. Small vice on ball-and-socket joint rotatable in any direction and capable of being set securely. The "Spannfix" vice simplifies many jobs in precision engineering, in laboratories, in test rooms and all engineering and electronics workshops.



SPANNFIX. ITEM: BRN 9-205 screw-on vice for work benches with a max. table thickness of 80 mm. The small vice with ball-and-socket joint can be mounted quickly and easily onto a work bench or table. Slight pressure on the lever is sufficient, and the clamped workpiece can be moved into any suitable position.

| TECHNICAL DATA |
|--------------------------------|
| Clamping pressure 150 kp |
| Clamping capacity 70 mm |
| Clamping depth 38 mm |
| Jaw width 50 mm |
| Jaws (interchangeable) plastic |
| Weight: 1.450 kg |

SPANNFIX. ITEM: BRN 9-215
for permanent mounting using bolts



| TECHNICAL DATA |
|----------------------------|
| as 9-205 |
| Size of base: 150 x 105 mm |
| Weight: 1.350 kg |

SPANNFIX. ITEM: BRN 9-261
bench mounted base with universal ball joint and threaded stud M 12 x 1.5 for permanent mounting using bolts.



| TECHNICAL DATA |
|----------------------------|
| Size of base: 150 x 105 mm |
| Weight: 0.800 kg |



BERNSTEIN

VICES

PANAVISE®



SPANNFIX VICE WITH VACUUM BASE. ITEM: BRN 9-220
for portable applications

PV JR. HEAD. ITEM: PAN 203



STANDARD HEAD. ITEM: PAN 303



TECHNICAL DATA

as 9-205
Size of base: 150 x 105 mm
Weight: 2.000 kg

LOW PROFILE HEAD. ITEM: PAN 304



CIRCUIT BOARD HOLDER. ITEM: PAN 315



TECHNICAL DATA

M 12 x 1.5
(consisting of 9-211 and 9-261)
Weight: 1.500 kg

FIXTURING HEAD. ITEM: PAN 337



WIDE OPENING HEAD. ITEM: PAN 366



SPANNFIX VACUUM BASE. ITEM: ITEM 9-211 only to be used in conjunction with 9-215 or 9-261

LOW PROFLIE BASE. ITEM: PAN 305



STANDARD BASE. ITEM: PAN 300



TECHNICAL DATA

Weight: 0.650 kg

PANAVISE®

VACUUM BASE. ITEM: PAN 380



WEIGHTED BASE MOUNT. ITEM: PAN 308



SURFACE PLATE BASE MOUNT. ITEM: PAN 310



BENCH CLAMP BASE MOUNT. ITEM: PAN 311



PARTS TRAY BASE MOUNT. ITEM: PAN 312



UNIQUE COMPONENT SYSTEM.

Create a custom work holding tool for your specific needs with the PanaVise system of interchangeable Heads, Bases and Base Mounts. All PanaVise Bases include the patented "split-ball" which allows a Head to be positioned through 3-planes: 90° Tilt, 360° Turn & 360° Rotation. All 300 series Bases accept any 300 series Head - a multitude of useful options at your fingertips!



THE CHRISTENSEN A-Z DIRECTORY

(All of which may not necessarily

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 GRINDERS
- 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



OF PRODUCTS WE STOCK OR SOURCE

be featured in this catalogue)

O

- OBLIQUE CUTTERS
- OFFSET SCREWDRIVERS
- ORYX SOLDERING IRONS
- OSCILLOSCOPES

P

- 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

Q

- QFP DESOLDERING

R

- RADIAL COMPONENT PREPARATION MACHINES
- RATCHET DRIVERS
- REFLOW OVENS
- REWORK STATIONS
- RIVETING PLIERS

S

- SAFE BLOCK MAINS CONNECTOR
- SAWS
- SCISSORS
- SCREWDRIVERS
 - ENGINEERS
 - ELECTRICAL
- SCREW STARTERS
- SHIFTERS
- SHOES - ANTISTATIC

- SIGNAL GENERATORS
- SMD TOOLS, STATIONS
- SOCKET SETS
- SOLDER FUME EXTRACTORS
- SOLDER POTS
- SOLDER SUCKERS
- SPANNERS
- STORAGE BINS
- STRIPPERS

T

- TAPE MEASURES
- T-HANDLE ALLEN KEYS
- TINNING OIL
- TIN SNIPS
- TOOL
 - BAGS
 - BELTS
 - CASES
 - KITS
- TONER VACUUM CLEANER
- TORQUE
 - SCREWDRIVERS
 - WRENCHES
- TORX - KEYS, SCREWDRIVERS
- TWEEZERS
- TRANSFORMERS
- TUBE SPANNERS
- TRIMMING TOOLS

U

- ULTRASONIC CLEANERS
- UNISPANN VICES
- UNIVERSAL SNIPS

V

- VDE - 1000 VOLT PLIERS
- VERNIERS
- VICES
- VICEGRIPS

W

- WATERPUMP PLIERS
- WAVE SOLDER MACHINES
- WELLER PRODUCTS
- WIRE STRIPPERS
- WRISTSTRAPS - ANTISTATIC

X

- XCELITE PRODUCTS
- XURON MICROSHEARS

Z

- ZERO SMOG
- ZIPCASES - KITS



