

Hi-Quality ESD Safe Wrist Strap & Footwear Testers



P/N: 492E

Wrist Strap & Footwear Combo Tester

- · Has 2 Test Modes:
- Single Test Mode: Checks the ESD status of Wrist Strap or Footwear.
- Comprehensive Test Mode: Checks the ESD Status of both Wrist Strap and Footwear.
- Customer can connect it to Door Control System thru Access System Control Signal from this Tester.
- This Model uses micro-current testing for stable and accurate results.
- Low Voltage Alarm Function: when the battery goes low in this Tester, there will be alarm indication.



Power supply : 9V Battery

Touch-Point : Voltage ≤ 400V (peak, DC or AC)

Switching Output Switch Current ≤ 130 mA

Touch-Point Resistance of $< 30\Omega$ Qualified Testing: Touch-Point Close Disqualified Testing: Touch-point disclose

Accuracy : Wrist Strap testing: ± 10%

Footwear testing: \pm 10% (750 K Ω), \pm 20% (100 M Ω), \pm 30% (1 G Ω)

Dimensions (approx): 160 mm x 100 mm x 40 mm Weight (approx) : 0.6 kg (Test Unit only)



- Use anywhere to check personnel ESD grounding quickly
- Checks contact resistance between Wrist Strap and skin
- Power Supply: 9V Battery
 Grounding Wire: 2.5 meter

Operation

Simply touch circular surface on Tester with your hand and connect ground wire. In case of a safe ground, LED will be 'Green'. Opposite Table summarizes test indications.





LED Indication	Resistance	Buzzer
Power Low (Red)	<750ΚΩ	OFF
Good (Green)	750ΚΩ ~ 10ΜΩ	ON
High (Red)	>10MΩ	OFF

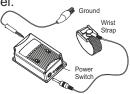
ESD Safe

Continuous Wrist Strap Monitor

Model 495 monitors the ESD integrity of operator and ground. It provides instant notification of the wrist strap or ground failure. When the production process is of very high value, reliable ESD safety and ground is must for continuous monitoring at operator level.

- Sound and light alarm
- Portable and compact, easy to use.
- Output Voltage: 8 12 VDC
- Weight: 50g approx
- Dimensions: 75Lx46Wx27H mm (approx.)

LED	Value
OK (Green)	$825 \mathrm{K}\Omega \sim 9 \mathrm{M}\Omega$
Fail (Red)	$11M\Omega$ and above
Fail (Red)	$765 \mbox{K}\Omega$ and below





P/N: 495

P/N: 498

Warranty is 12 months from the date of our invoice. It excludes any mechanically damaged part.

shown trademarks are property of their respective owners While the information contained herein in, has been carefully compiled to the best of our knowledge, nothing is intended as representation and warranty on our part; and no statement shall be construed as recommendation to infringe an patents. We accept no liability of whatsoever for any faults and errors in the information contained herein. Contents of this catalogue and specifications of the products, are subject to change without notice due to continuous im, ment shall be construed as recommendation to infringe any of existing



ESD Surface & Grounding Digital Resistivity Tester & Wrist Strap Tester



Tests antistatic materials and insulations in compliance of ASTM Standard D-257

Surface Resistivity & Grounding Tester with Digital Display (not LED indication) P/N: 499D

Surface Impedance Tester is used for measuring the surface coefficient and grounding resistance of objects, as well as the antistatic and insulating material.

Specifications:

Test range : $10^3 \sim 10^{12} \Omega$ Power : 9V battery

Resolution ratio : 0.1 order of magnitude

Precision : ±10%

Condition : 0°C ~ 49°C, RH 0%–80%

Size : 130(L)×72(W)×35(H)mm (approx.)
Weight : about 170 g (battery included)

Test Results reading

X.X E XX display means X.X raise to the power 10 (10^{xx}) Example: If display shows 9.5E10, it means $9.5*10^{10}\Omega = 95G\Omega$

Interpretation of Digital Display

bL --- It needs Battery replacement.

CE --- It means Calibration Error, needs re-calibration.

Lr --- Test resistance is less than 300Ω (3*10² Ω).

Hr --- Test resistance is more than 3TΩ ($3*10^{12}Ω$).



Digital Static Charge Meter to check ESD Safety

Checks static charge on human beings and also discharges the same

This Static Charge Checking Instrument checks and discharges electrostatic charge on human body. It displays electrostatic charge on human body digitally; and also has provision to discharge the same before personnel enter ESD protected area. It is also effective in detecting the electrostatic potential difference between two persons. This Instrument also checks the effectiveness of grounding straps, coil cords, ground pin, antistatic floors, antistatic clothes etc.

Features:

- Easy-to-use reliable and portable design
- Has provision for wall mounting outside the ESD protected area
- It can check voltages of +ve and -ve polarites

Specifications:

Test range : 0 ~ 19990 Volts

Accuracy : ±8%, ±1digit (0±10000V)

Output : Digital display

Power Supply : 9VDC Battery or AC Adaptor Dimensions : 160 x 100 x 40mm (approx.)

Weight : 230 grams (approx.)





How to read the Display values:

The voltage range of the meter is from 0V to 19990V

"0" on the display means "1" digit, so the final Voltage value is value displayed on LCD X 10.

shown trademarks are property of their respective owners.

Warranty is 12 months from the date of invoice. It excludes any mechanically damaged part.

While the information contained herein in, has been carefully compiled to the best of our knowledge, nothing is intended as representation and warranty on our part; and no statement shall be construed as recommendation to infringe any of existing patents. We accept no liability of whatsoever for any faults and errors in the information contained herein. Contents of this catalogue and specifications of the products, are subject to change without notice due to continuous improvements.

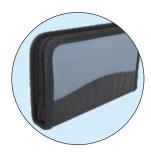
44

P/N: 193



ESD Safe Toolkit in Zipper Bag Model ITK-ESD-3141







ESD Safe Wrist Strap



ESD Safe Precision Tweezers



Zipper bag is not ESD Safe



ESD Safe Screwdrivers & Cleaning Brush



ESD Safe German Cutter & Wire Stripper

The Kit includes:

ESD Safe Screwdrivers

- Philips Screwdriver #1
- → Slotted Screwdriver 3.0mm

ESD Safe Precision Tweezers

- ESD Safe Superfine Tip Curved Tweezer
- ESD Safe Superfine Tip Straight Tweezer
- ESD Safe Soft Fine Tip Tweezer
- ESD Safe Soft Tip Tweezer

ESD Safe Cutter & Stripper

- CK Tools Germany ESD Safe Micro Cutter
- CK Tools Germany ESD Safe Precision Wire Stripper

Miscellaneous ESD Safe Tools

- ESD Safe Cleaning Brush
- ESD Safe Wrist Strap

Packaging

- Zipper Pouch (195 x 120 x 35mm)

There is no warranty for these consumable items.

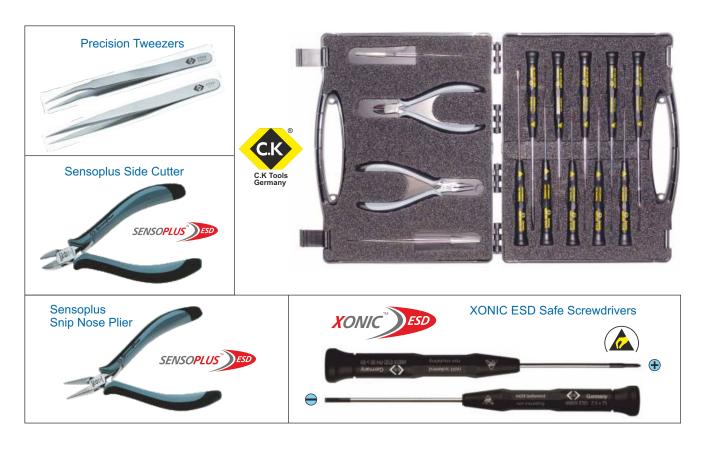
shown trademarks are property of their respective owners.

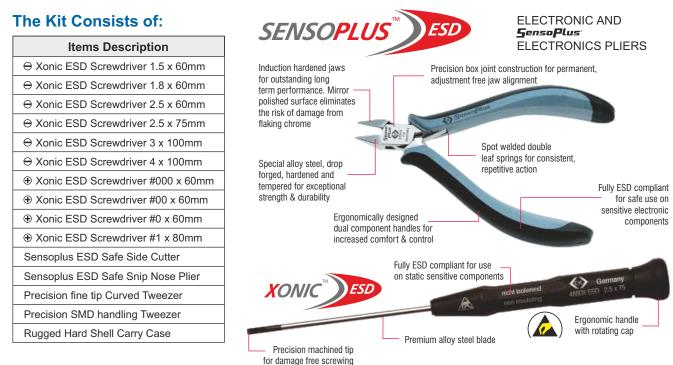


CK Tools Germany ESD Safe Electronics Toolkit Model T3707DX



Contains most commonly used electronics assembly tools





shown trademarks are property of their respective owners.

There is no warranty for these consumable items.

46







ESD Safe SMD Side Cutter (Slim - Relieved Head)

- Sharp, precision cutting edges with extra full flush cut
- Made from special tool steel blade, hardened for long-term cutting performance
- ESD handles dissipative 10⁸ Ohm
- · Dual component handle design for comfortable working
- Black oxidized finish for corrosion resistance and reduced glare
- Smooth-action return spring for convenience during repetitive work
- Cutting Capacity: 1.3mm dia wire
- Length: 140mm (approx.)



CK Tools Germany P/N: T3886

CK Tools P/N: T3799DF 110

ESD Safe Oblique Cutter

- Fully ESD compliant for safe use on static sensitive components
- Induction hardened jaws for outstanding long term performance.
- Precision box joint construction for adjustment-free jaw alignment
- Special alloy steel, drop forged, hardened & tempered for exceptional strength and durability
- Ergonomically designed dual component handles for increased comfort and control
- · Spot welded double leaf springs for consistent, repetitive action

Specifications:

Cutting capacity

- Soft Wire : 1.2mm/16AWG
- Hard Wire : 1.0mm/18AWG
- Piano Wire : 0.4mm/26AWG
• Cut type : Full Flush
• Length (approx.) : 120mm



CK Tools Germany P/N: T4741SESD

ESD Safe Screwdriver Set (6pcs of SL/PH types)

- Ergonomic tri-lobe handle design for comfort and effective delivery of torque
- Fully ESD compliant for safe use on sensitive electronic components
- Toughened alloy steel blade for exceptional strength & durability
- · Black anti-peel finish eliminates the risk of damage from flaking chrome
- Handle injection moulded directly to blade giving the ultimate bond for increased reliability and durability
- Precision Tip for exact fit and damage free screwdriving



Germany





The Set contains:

- Slotted Screwdriver 3 x 75mm
- Slotted Screwdriver 3 x 100mm
- Slotted Screwdriver 5 x 135mm
- Philips Screwdriver #0 x 60mm
- Philips Screwdriver #1 x 80mm
- Philips Screwdriver #2 x 100mm



CK Tools Germany ESD Safe Strippers & Desoldering Pump



ESD Safe Precision Wire Stripper

CK Tools Germany P/N: T3893

For safe and damage-free stripping of fine insulated solid wires where it is critical to prevent damage from electro-static charge and also to avoid any cutting nick on conductor

- Precision stripping holes guarantee the accurate size of notches for accurate stripping without any nick to the conductor
- · Laser marked gauges in AWG & mm
- Made from special tool steel blade, hardened for long-term cutting performance
- ESD handles dissipative 10⁸ Ohm
- Dual component handle design for comfortable working
- Black oxidized finish for corrosion resistance and reduced glare
- Smooth-action return spring for convenience during repetitive work
- · Also has Cutting Capacity: 3.0mm dia wire
- Length: 170mm (approx.)
- Stripping capacity: 0.25, 0.32, 0.4, 0.5, 0.6 & 0.8mm (30, 28, 26, 24, 22 & 20 AWG)

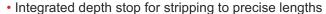






ESD Safe Precision Wire Stripper

 Compact precision Wire Strippers for repeatable and damage free stripping of PVC, Teflon & similar coated insulating wire



- Specially hardened blades for outstanding long term performance
- Fully ESD compliant for safe use on static sensitive electronic components
- Adjustable to strip 6 wire diameters:
 0.25, 0.30, 0.40, 0.50, 0.60, 0.80mm







CK Tools P/N: T3757ESD 2

ESD Safe Desoldering Pump

Large capacity Desoldering Pump specifically designed to be used in ESD Safe areas.

- ESD Safe
- · Heat resistant carbon fibre Tip
- Anti-rust long lasting spring
- Length: 210mm (approx.)



shown trademarks are property of their respective owners.

There is no warranty for these consumable items

CK Tools P/N: T6103A



Various types of ESD Safe Electronic Tweezers



P/N: ESD-14

P/N: ESD-15

P/N: ESD259A

P/N: ESD259

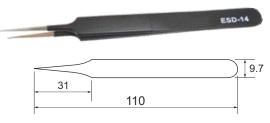
ESD Safe Straight Tweezer

for handling small parts and SMD components and fine wires

- · With ESD Safe coating
- Super fine straight tip type
- Material: Stainless Steel
- Non-Magnetic
- Length: 110mm (approx.)







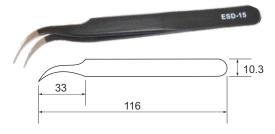
ESD Safe Curved Tweezer

for SMD IC removal with hot air application and for easy handling in confined areas

- · With ESD Safe coating
- Super fine curved tip type
- Material: Stainless Steel
- Non-Magnetic
- Length: 116mm (approx.)







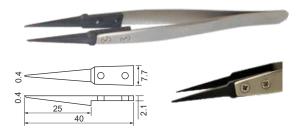
ESD Safe Soft Tip Tweezer

for handling fragile parts

- Non-Magnetic
- Resistance: < 10⁸ Ohm
- Tip Material : PPS, ESD Safe
- Length: 130 mm (approx.)
- Does not scratch surface of fragile parts and sensitive SMD ICs







ESD Safe Straight Tweezer

for handling fragile parts

- Non-Magnetic
- Resistance: < 10⁸ Ohm
- · Tip Material: PPS, ESD Safe
- · Length: 130 mm (approx.)
- Does not scratch surface of fragile parts and sensitive SMD ICs









ESD Safe Cleaning Brushes and Component Trays



Removes dirt on PCBs and on other static sensitive components. These Brushes minimize static charge generation while cleaning the PCBs.

- Material: PP Conductive Handle and PA Fiber Bristles
- Surface resistivity: 10⁶ ~10⁹Ω

Heavy Duty ESD Safe Cleaning Brush



ESD Safe Hard Cleaning Brush with Bent Grip

P/N: ICBESD-1609



- Bristle matrix: 5x10
- Bristle length: 20 mm (approx.)
- Length: 95mm (approx.)

ESD Safe Cleaning Brush vertical type with Long Bristles

P/N: ICBESD-1616



- Bristle matrix: 1x3
- Bristle length: 42 mm (approx.)
- Length: 125mm (approx.)

ESD Safe Conductive Tray

P/N: ESD-TR-9





- Surface resistance: 10⁴ ~10⁶ Ω
- 9 sections each of 100x100x10 mm size
- Internal: 300x300x10 mm (approx.)
- External: 315x315x15 mm (approx.)

ESD Safe Cleaning Brush

P/N: ICBESD-1608



 Bristle length: 18mm (approx.) Length: 150mm (approx.)

ESD Safe Cleaning Brush vertical type wide

P/N: ICBESD-1610



Length: 142mm (approx.)

ESD Safe Cleaning Brush vertical type extra wide

P/N: ICBESD-1618



- Bristle length: 26mm (approx.)
- Length: 170mm (approx.)

ESD Safe Conductive Tray

P/N: ITESD-1613





- Surface resistance: 10⁴ ~ 10⁶Ω
- Dimensions:
- Internal: 300X215X37mm (approx.)
- External: 320X230X42mm (approx.)



Hi-Quality ESD Safe Wrist Straps & other useful Aids



Anti-allergic (with Silver Fibers) Wrist Strap

P/N: IWSAAESD-1603 Elastic Polyester fabric with conductive Silver Fibres which eliminate allergic skin reaction

- In-built 1 MOhm resistor
- Available in blue colour
- Length of Cord: 8 feet
- Snap Button at one end & Banana Plug with Alligator Clip at other end



- Elastic Polyester fabric with conductive plated threads
- In-built 1 MOhm resistor
- · Length of Cord: 6 feet
- Snap Button at one end & Banana Plug with Alligator Clip at other end



P/N: IGC-1601

P/N: IWSESD-1602

Grounding Cord

Antistatic Grounding Cord used to transfer the static charge from personnel to ground to protect static sensitive electronic devices

- Both ends has Snap Button
- Length: 8 feets (approx.)
- · Cord diameter: 2.4mm (approx.)
- · Copper wire with PU protection layer
- in-built 1MOhm resistance

Grounding Cord

Designed to ground ESD Table Mats

 Provides two grounding points: one for Wrist Strap and other for connection to ground

 One end has Snap Button and 2 Banana Jacks & other end has Grounding Thimble

· Length: 2 meters (approx.)



ESD Chip Component Box

Surface resistance: 10⁴ ~10⁶ Ω

Size: 56x32x21 mm (approx.)

Spring loaded top cover

 Very useful to store miniature SMD Chip Components





P/N: ESD-BOX-M

P/N: IGC-1619

ESD Safe Slippers

- ESD Safe and skidproof
- Tenacious sole and upper
- Comfortable & convenient
- · Washable & wear-resistant • Resistivity: 10⁶~10⁹ ohm
- Colour: Black/Blue
- Size: 40, 42 and 44



P/N: EFAB-60

P/N: ISESD-1606

ESD Safe Dispensing Bottle P/N: ESD-DB-180







- · Made up of Polyethylene
- Stainless steel one touch pump top
- · Capacity: 180ml
- Surface resistivity: 10⁹ ~ 10¹⁰Ohms

ESD Safe Flux Bottle







- Stainless Steel Hypodermic Needle
- · Capacity: 80ml
- Surface resistivity: 10⁹ ~ 10¹⁰Ohms



There is no warranty for these consumable items

shown trademarks are property of their respective owners



ESD Safe Gloves, Aprons & other accessories



ESD Safe Apron P/N: IA-Series

ESD Safe Aprons are made of lint-free polyester filament, which provides good static dissipation and superior air permeability and particle filtration. This helps the operators to be comfortable. These Aprons have a conductive yarn that provides low surface resistivity of between $10^6\Omega \sim 10^7\Omega/\text{square}$ and guick static dissipation for effective control of ESD.

- Durable anti static property
- · High fastness to washing 100 times.
- High color fastness and tear strength.
- · Breathable to wear.
- Available sizes: Medium (M) & Large (L)

P/N: IAMESD-1604 for Medium size P/N: IALESD-1605 for Large size





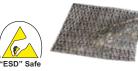


5mm Strip Fabric

ESD Safe Conductive Grid Bags

Protects stored PCBs and components from the electrostatic charges inside as well from outside through the conductive grid printed on the outside surface.

- · Blow moulded added with black carbon & cavitations agent.
- Surface resistance of 10⁴-10⁶Ω
- Size: 250 x 305mm (approx.)
- Packaging: 1000 Pieces/Bag





P/N: IGBESD-1616

ESD Warning Tape P/N: IWTESD-1614

Attention

High quality ESD Warning Tape is self-adhesive, highly visibility floor marking Tape for marking the boundaries of ESD protected areas. It is highly visible and adheres very well to synthetic floors such as PVC floor tiles, the tape will also adhere to concrete floors and can be expected to remain intact for several months depending on traffic.

- Excellent ESD Performance
- High temperature resistance
- Antistatic warning signs
- Size: 48mm width and 27.5 meters length
- · Black legend colour with yellow background







ESD Safe Gloves with PU Coated Finger Tips

P/N: IPUG-Series

- Made from soft nylon for operator's comfort
- PU coated Finger tips
- Integrated with carbon fiber
- Surface resistivity: 10⁶ ~ 10¹⁰ Ohm
- Elastic, absorbent and non-slip type

Available sizes: Medium (M) & Large (L)
 P/N: IPUGMESD-1611 for Medium size

P/N: IPUGLESD-1611 for Medium \$12



Lint-free Cleanroom Wipers (9" x 9" size)

P/N: ILFW-99

Non-woven wipers for cleanrooms

 Material: 55% cellulose, 45% polyester

• Size: 9" x 9"

Packaging: 100pcs/packExcellent absorbency with

solvents: 245ml/m²



shown trademarks are property of their respective owners.

There is no warranty for these consumable items.



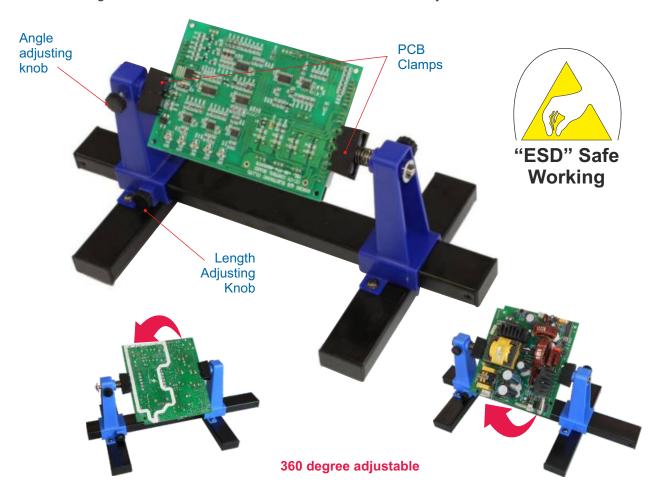
ESD Safe Adjustable PCB Holder Model IPCBH200ESD



This adjustable Circuit Board Holder is very useful for clamping PCB for comfortable working of operator during soldering, desoldering and reworking.

It features 2 adjustable grips on a retractable stand to accommodate various sizes of PCBs up to 198mm width. The adjustable clamps allow the PCB to rotate 360 degrees and stay set in any position.

The base of this rigid metal stand features four rubber feet to ensure stability.



Features:

- The PCB can be turned and rotated thru-out 360° to set the PCB to comfortable positioning to have every access (like front, back viewing) of the PCB.
- Holds circuit boards up to 200 x 130mm size.
- Spring Clamp for holding PCBs
- · Light weight, easy to move around

Operation:

- Unscrew Length Adjusting Knob for clamping as per PCB requirement and screw the knobs.
- Put the PCB into the clamping teeth
- Unscrew Angle Adjusting Knob to get the desired angle and then screw the knobs.



Highest quality Real ESD Safe PCB Magazine Racks



ESD Safe fully metallic high temperature PCB Rack P/N: COP-804L (suitable for use in ovens)



Features:

- Complete metallic body of Aluminium alloy
- Heat Resistant upto 180°C
- Side panels consists of five flashboards for easy change
- Screw adjustable type can also be used in ovens

Specifications

Surface Resistance : $10^4 \sim 10^6 \Omega$

Overall Size (approx.) : 355 x 320 x 563 mm

PCB Capacity : 50 pieces

Suitable PCB sizes : 50~250 mm PCB width PCB Guide Slot : 3.5D x 5W x 10P mm

Material:

- Side Panel : Aluminium Side Panel

- Pillars : Aluminium Pillars

- Base : Zinc coated steel base

ESD Safe easily adjustable with 4-Levers PCB Rack P/N: IPMR-805





Smooth sliding easy PCB size adjustment

Specifications

- Surface Resistance: 10⁴~10⁶Ω
- Heat Resistance: 80°C
- Size: 355 x 320 x 563 mm (approx.)
- PCB Capacity: 50 pieces
- Suitable for 50~250 mm PCB width:
- PCB Guide Slot: 3.5 x 5 x 10 mm
- Top & Bottom Plates: Plastic
- Easy-to-adjust Lever Mechanism



High quality heavy duty Screws for channels



Hi-Quality, easy-to-adjust Lever mechanism inplace of screws



High strength thick wall metallic channel