

BRIGHT TECHNOLOGIES

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Our HEATEX Soldering Stations are always there to provide the best technical support and knowledge sharing when it comes to the field of Soldering Desoldering.

We have introduced a new tool in the field of Soldering Desoldering Stations. Our products, a result of our teams R & D efforts in a unique one with no equivalent in the market..... The SMD Gun. The Gun is a multifunctional tool for different Soldering Desoldering applications. The Gun functions with integrated vacuum pick up technology in ONE SHOT for Soldering Desoldering SMD IC's. It can also be used as Hot Air Pencil for Soldering Desoldering to lift SMD components. The additional feature of the Gun application is Vacuum Placer. The light highly flexible and heat resistant Silicon Cable guarantees comfortable handling of the Gun.

All our products has been the result of the experience and the dedication of our team towards meeting the requisite parameters and in up gradation of the Soldering Desoldering needs of the customers, keeping pace with the development in related fields.

The essence of our business is producing high quality Soldering Desoldering Stations to meet the Customer's



FEATURES

- PID Control for accurate and precise temperature
- Bright display for clear visibility
- Auto tune systems control
- Closed loop temperature control
- Soft On/Off Power switch
- Modular and compact design,,ESD SAFE by design
- Quality tips for long life
- Easy to handle. Different Sized Bits & Nozzles are available.
- Monitor Bit temperature intelligently with perfect temperature offset to ensure soldering Quality.
- The HEATEX645 is an effective solution for LEAD FREE Soldering.
- The unit is digitally calibrated through advanced software.
- Burn Proof silicon cable thermal resistance up to 600 Deg.C

SYSTEMS INCLUDES

- Microprocessor based power control.
- Soldering iron
- Stand with cleaning sponge
- Cellulose tip cleaning sponge

TECHNICAL SPECIFICATIONS

- Input Voltage : 203VAC,50Hz
- Soldering Iron: 240VAC,50W/60W/80W/100W(Different wattage available)
- Temp Range : 180- 480°C
- Temperature control accuracy +/- 1 Deg.C
-

**FEATURES**

- Electronically Temperature controlled analogue soldering station
- Quality bits for long life
- Easy to handle. Different Sized Bits & Nozzles are available.
- Monitor Bit temperature intelligently with perfect temperature offset to ensure soldering Quality.

SYSTEMS INCLUDES

- Soldering iron
- Stand with cleaning sponge
- Cellulose tip cleaning sponge

TECHNICAL SPECIFICATIONS

- Input Voltage : 203VAC,50Hz
- Soldering Iron: 240VAC,50W
- Temp Range : 150- 450°C

**FEATURES**

- PID Control for accurate and precise temperature
- DC motor pump 12000 rpm/700mm/hg vacuum level, double cylinder, tested to de-solder nearly 100 joints in a minute.
- Bright display for clear visibility
- Auto tune systems control
- Closed loop temperature control
- Soft On/Off Power switch
- Modular and compact design
- Quality nozzles for long life
- High capacity through hole De-soldering iron with finger activated vacuum
- Easy to handle. Different Sized Bits & Nozzles are available.
- Monitor Bit & Nozzle temperature intelligently with perfect temperature offset to ensure soldering Quality.

SYSTEMS INCLUDES

- Microprocessor based power control unit with built in vacuum pump.
- De-soldering iron
- Stand with cleaning sponge
- Cellulose tip cleaning sponge
- Power cord
- Tool box: Fiber filters 20 Nos, solder collector glass tube 1No, Tip replace Spanner 1No, Cleaning spring 2 Nos, Silicon washers 2 sets.

TECHNICAL SPECIFICATIONS

- Input Voltage : 203VAC,50Hz
- De-soldering : 240VAC,80W
- Temp Range : 180- 480°C

HEATEX 606SD PID CONTROL SOLDERING & DESOLDERING STATION



FEATURES

- PID Control for accurate and precise temperature
- DC motor pump High vacuum level, double cylinder, tested to de-solder nearly 100 joints in a minute.
- Bright display for clear visibility
- Auto tune systems control
- Closed loop temperature control
- Soft On/Off Power switch
- Modular and compact design
- Quality nozzles for long life
- High capacity through hole De-soldering iron with finger activated vacuum
- Easy to handle. Different Sized Bits & Nozzles are available.
- Monitor Bit & Nozzle temperature intelligently with perfect temperature offset to ensure soldering
- Quality.

SYSTEMS INCLUDES

- Microprocessor based power control unit with built in vacuum pump.
- De-soldering iron
- Soldering iron
- Stand with cleaning sponge
- Cellulose tip cleaning sponge
- Power cord
- Tool box: Fiber filters 20 Nos, solder collector glass tube 1No, Tip replace Spanner 1No, Cleaning spring 2 Nos, Silicon washers 2 sets.

TECHNICAL SPECIFICATIONS

- Input Voltage : 230VAC,50Hz
- De-soldering : 24VAC,80W
- Resold pump :24VDC, 80W
- Soldering : 24VAC,50W
- Temp Range : 180- 480°C

**FEATURES**

- PID Control for accurate and precise temperature
- Hot air gun for safe and non-contact SMT component removal or replacement.
- Self contained diaphragm Air pump
- Bright display for clear visibility
- Auto tune systems control
- Closed loop temperature control
- Soft On/Off Power switch
- Modular and compact design
- Integrating the functions of hot air and soldering iron, more convenient for use and covering less work space.
- Self contained Air Pump , with air flow quantity can be adjusted softly.
- Easy to handle. Different Sized Bits & Nozzles are available.
- Monitor Bit & Nozzle temperature intelligently with perfect temperature offset to ensure soldering Quality.

SYSTEMS INCLUDES

- Power base with built in air pump & PID based power control channel with digital display
- soldering iron
- Stand with cleaning sponge
- Cellulose tip cleaning sponge
- Hot air gun for non contact soldering and de-soldering of SMD's with single hole nozzle

TECHNICAL SPECIFICATIONS

- Input Voltage : 203VAC,50Hz
- Soldering iron: 24VAC,60W
- Hot air gun : 110VAC,150W
- Air pump : 230VAC,3-24 Lt/min
- Temp Range : 180- 480°C(Soldering iron)
150- 450°C(Hot air gun)



FEATURES

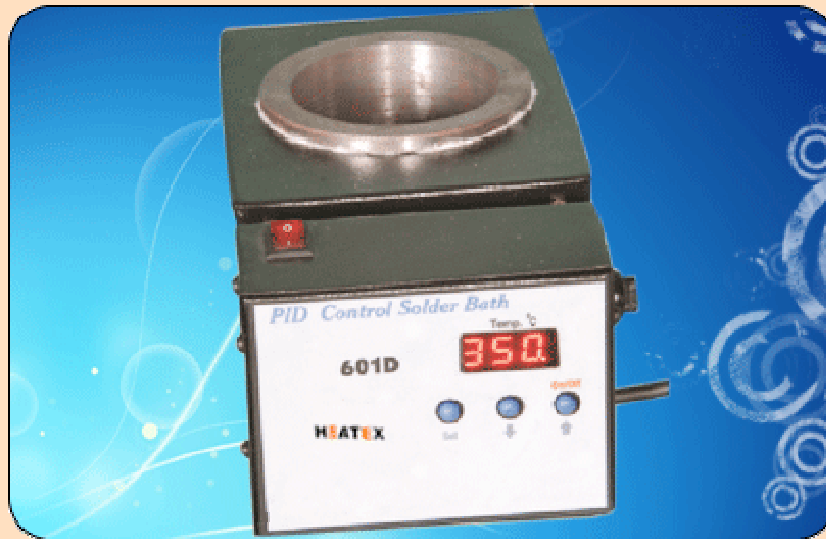
- PID Control for accurate and precise temperature
- Hot air gun for safe and-contact SMT component removal or replacement.
- Self contained diaphragm Air pump
- Bright display for clear visibility
- Auto tune systems control
- Closed loop temperature control
- Soft On/Off Power switch
- Modular and compact design
- Integrating the functions of hot air and soldering iron, more convenient for use and covering less work space.
- Self contained Air Pump , with air flow quantity can be adjusted softly.
- Easy to handle. Different Sized Bits & Nozzles are available.
- Monitor Bit & Nozzle temperature intelligently with perfect temperature offset to ensure soldering Quality.

SYSTEMS INCLUDES

- Power base with built in air pump & PID based power control channel with digital display
- Hot air gun for non contact soldering and de-soldering of SMD's with single hole nozzle
- Side attachment for Hot air gun stand

TECHNICAL SPECIFICATIONS

- Input Voltage : 203VAC,50Hz
- Hot air gun : 110VAC,150W
- Air pump : 230VAC,3-24 Lt/min
- Temp Range : 150- 450°C

**FEATURES:**

- PID Control for accurate and precise temperature
- Bright display for clear visibility
- Auto tune systems control
- Closed loop temperature control
- Soft On/Off Power switch
- Modular and compact design

TECHNICAL SPECIFICATIONS

- * Input Voltage : 230V AC \pm 10% 50Hz
- * Temp Range : 150-450°C
- * Bath Capacity : Upto 1 Kg. approx.

Mechanical Dimensions

*Control Unit 48 Dia x 48mm Depth Weight : 1 kg.

Features ESD SAFE BY DESIGN

- * Heating Element : The high capacity insulated heating ceramic elements are exchangeable and mounted on the pot. They are thermally insulated from the external sheet metal housing.
- * Operation : Solder Bath primarily used for tin plating stranded wire braids, connecting leads and cable lugs.

HEATEX 603 THERMAL WIRE STRIPPER-INSULATION REMOVER



*Control Unit L 125x W 90 x H 70mm Weight 1.9 kg.

*Stripper Handle D 20 x L 185mm Weight : 200 grms. without cable

Features ESD SAFE BY DESIGN

- * FLAT BLADES : Nichrome Super Heat flat blades for long life.
- * Element : Nichrome heating element for quick and Easy removal of sleeve.
- * Temperature : Variable Temperature 300°C to 650°C.

OPTIONAL WIRE BLADES

- * Operation : Handle will operate on the principle of crocodile Clip, i.e., by pressing the rear side of the handle the front side element holder will wide open.
- * Lock : Elements fixed on the studs will get hooked each other in a loop such that the wire will get locked in between the loop to strip the sleeve.



The HEATEX-845CR Multifunctional Rework station was developed to meet the present and future needs of the electronic industry, Service/R&D engineers and the hobbyist. The multiplication ability of this station makes it ideal for use in situations where the maximum amount of flexibility is required. The station has an in built pump to provide the air movement for the hot air gun and the vacuum for the desoldering tool and can be used to rework both surface mounted and through hole components. The 845CR control unit is the base a micro processor controlled system to regulate the solder processes.

SYSTEMS INCLUDES:

- **Power base with built in air pump & Microprocessor based power control channel with digital display**
- **Soldering iron Two Ports**
- **De-soldering iron**
- **Hot Air gun**
- **SMD Tweezers**
- **Stands with cleaning sponge**
- **Power cord**
- **Complete Tool Box ,Replacement soldering & Desoldering Bits,Cleaning springs&sponges,Ex....**

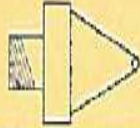

TECHNICAL SPECIFICATIONS:

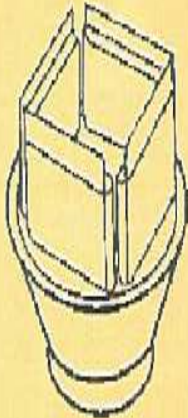
| | | |
|---------------------------------------|---|---|
| Input Voltage | : | 230VAC, 50Hz |
| Temperature Range | : | 200 C - 480C (Soldering & De-Soldering Iron) |
| | : | 100oC - 420oC (Hot- Air Gun) |
| | : | 180oC- 400oC (Tweezers) |
| De-Soldering Iron | : | 24VAC, 65W |
| Soldering Iron | : | 24VAC, 60W |
| Tweezers | : | 24VAC,50W Hot |
| Hot Air Gun | : | 230/110 VAC,150 W |
| Air Pum | : | 230 VAC, 3-24 Lt/Min |
| Vacuum Pum | : | 24 VDC,10000 RPM/700 Mm/Hg |
| Temp control accuracy | : | ± 2%, For soldering,desoldering, |
| Temp control Stability | : | ± 2°C |
| Tip Leakage Current | : | < 2 mA |
| Tip to Ground Resistance | : | < 2 Ohms |
| Tip to Ground Leakage Voltage: | : | < 2 Mv |

FEATURES:

- **Temperature Control for accurate and precise temperature**
- **Hot air gun for safe and-contact SMT component removal or replacement.**
- **Integrating the functions of hot air and soldering iron, more convenient for use and**
- **covering less work space.**
- **High capacity through hole De-soldering iron with finger activated vacuum**
- **The detachable soldering iron is engineered with a highly insulated ceramic heating element**
- **SMD Tweezers For Quick Removal SMT Components**
- **Instant Recovery Soldering Iron For Hand Soldering And Touch Up Operations**
- **Bright display for clear visibility**
- **Auto tune systems control**
- **Closed loop temperature control**
- **Soft On/Off Power switch**
- **Modular and compact design**
- **Quality nozzles /Bits for long life**
- **Easy to handle. Different Sized Bits & Nozzles are available.**
- **Monitor Bit & Nozzle temperature intelligently with perfect temperature offset to ensure soldering Quality.**
- **The unit is digitally calibrated through advanced software.**
- **Burn Proof silicon cable thermal resistance up to 600 Deg.C**
- **A more advanced version of this uses a microprocessor to monitor the temperature of the tip via thermocouple and adjusts the power to the heating element accordingly.**

REPLACEMENT TIP UNIT:

| SOLDERING BITS | Tip Dia | DE-SOLDERING NOZZLES | HOLE DIA | HOT AIR NOZZLES (SMD) SIZE IN MM |
|---|---------|--|----------|---|
| 1. Narrow Screw Driver Tip | 0.6 mm | 1. De-soldering Nozzles | 0.8 mm | QFP 14x20, 28x28, 32x32 |
| 2. Screw Driver Tip | 1.6 mm | 2. - do- | 1.0 mm | BQFP 24x24 |
| 3. - do- | 2.4 mm | 3. - do-  | 1.2 mm | SOP 4.4x10, 7.5x12, 7.5x15, 7.5x18, 7.6x12.7, 13x28, 8.6x18 |
| 4. - do- | 3.2 mm | 4. - do- | 1.5 mm | PLCC 11.5x14, 17.5x17.5, 20x20, 25x25, 30x30, 12.5x7.3, 11.5x11.5 |
| 5. - do- | 5.0 mm | 5. - do- | 1.8 mm | |
| 6. Long Screw Driver Tip | 2.0 mm | 6. - do- (extra long) | 1.0 mm | |
| 7. Conical Blunt Tip  | 1.6 mm | 7. - do- | 1.2 mm | |
| 8. - do- | 2.4 mm | | | |
| 9. - do- | 3.2 mm | | | |
| 10. - do- | 5.0 mm | | | |
| 11. Conical Tip | 0.6 mm | | | |
| 12. Conical Long Tip | 0.8 mm | | | |



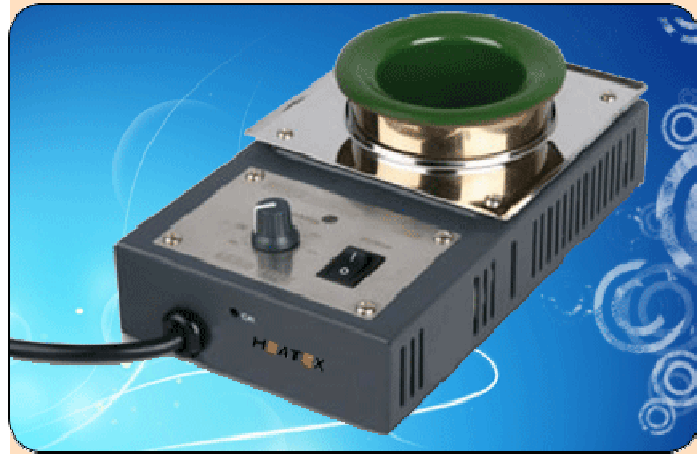
Note : Special made Nozzles for other types are also available.

OTHER MODELS :

722-PTH Desoldering Station



808ESD-Hand Held desoldering Tool



100-4C Lead Free solder Pot



203 Lead Free soldering Station

ILLUMINATED MAGNIFIERS :

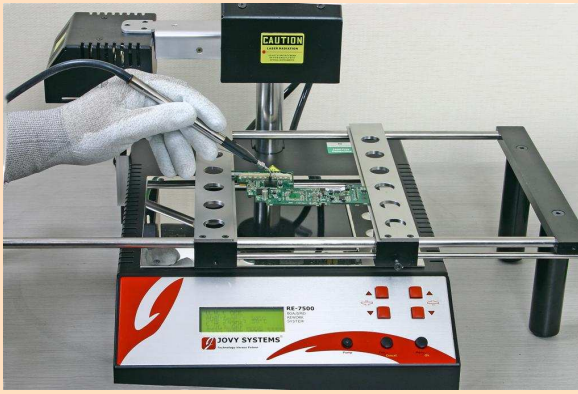


Features:

- Bright, stable and reliable light. No flash feeling and not harmful to people's sight.
- Integrated magnifying and lighting.
- Different magnification models available.
- Applications: For electronic engineer to view and check micro or mini components or densely populated P.C.B., or for medical personnel or beautician when lighting and or magnifying is needed.

Magnifiers

| Model | 208 | 228 | 228B |
|-------------------|-----------------------|------------------------------|-----------------------|
| Supply Voltage | 220V AC | 220V AC | 220V AC |
| Lens (Dia.) | 90 mm | 125 mm | 125 mm |
| Magnifications | x3 / x5 | x3 / x5 / x8 | x3 / x5 / x8 |
| Adjustable Extent | 450 mm | 1000 mm | 700 mm |
| Photochromic | Three primary Colours | Day light | Day light |
| Design | Desk-top folding arm | Table - Clamping folding arm | Desk-top, folding arm |



BGA REWORK STATION:

- **RE7500 Rework System (System only)**

The RE-7500 is engineered to be [lead free](#) compatible.

- Very flexible uses for most components including SMD, BGA CBGA, CCGA, CSP, QFN, MLF, PGA, Epoxy underfilled, μ BGA...
- The system is recommended for reworking all plastic parts, including PTH Sockets, Connectors, and even metal shields.
- Complete reworking processes are achieved, including: pre-heating, soak, re-flow and cooling stages, for an accurate and standard reworking process.
- The system uses IR with no damage to adjacent components.
- With built-in precision the thermal sensor obtains instant and accurate temperature reading and monitoring.
- Features a built in air-pick for safe, precision installation & removal of ICs.
- The Jovy RE-7500 has a manual or automatic cooling system for a complete and standard cooling stage process for PCB's.
- The system allows guaranteed safe homogeneous heat distribution.
- Features custom programmable, or automatic control of the IR heaters.
- The Jovy RE-7500 ensures guaranteed delivery of the heat energy at the precise time and location.
- Features customizable, programmable temperature profile
- Allows for real time monitoring of processes using your PC or laptop.
- Requires no nozzles or focusing, thereby avoiding hot and cold spots.
- The Jovy RE-7500 is the optimal tool for re-balling ICs.
- System operates on 220VAC. Optional [110V-220V Step-Up Transformer](#) is available separately for purchase.
- The system has a built in laser pointer for accurate positioning of PCB.
- Smooth and precise X-Y table control is included.
- Features ease of use via manual, automatic, or PC modes.
- The system is scalable for future technologies and enhancements. **Limited (1) Year Warranty**

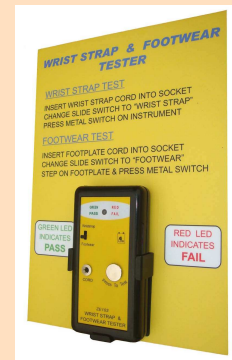
ESD Measuring Equipment's :

WRIST STRAP TESTERS Z102, ZE102

Wrist Straps are the first line of defence against electrostatic charge build up on the human body. They are designed to carry away this charge as soon as it is generated. At the same time the strap must remain electrically safe for the user. Thus, it is important to test every strap regularly. The wrist strap tester performs these checks.



WRIST STRAP & FOOTWEAR TESTERS Z103 series



The **Z103 series** checks both wrist straps and footwear. It clearly indicates whether or not the resistance of the ESD footwear including the personnel is within acceptable ranges. Can be used with Footplate or Stand. Optional Wall Stations also available.

COMBO TESTER Z124 instrument

Wriststrap & Dual footwear tester all in one



COMBO TESTER with Access Control Z134



Door Access System:

Before entering the EPA (ESD Protected Area) personnel need to test their Wrist Strap/ESD footwear. Access into the EPA is allowed by the release of the Electromagnetic lock **only** if the resistance of the Wrist Strap/ESD footwear is within the Pass limits.

DUAL FOOTWEAR TESTER Z104 TESTERS



The Dual footwear tester along with the stand or Footplate is specially designed to perform tests independently on the LEFT & RIGHT ESD footwear

FOOTPLATES FOR FOOTWEAR



CONTINUOUS WORKSTATION MONITOR ZE107

The **wriststrap** is continuously monitored to detect loss of continuity between operator and ground. Conditions such as broken coil cords and improper skin contact are detected instantly to alert the operator before expensive ESD damage can occur. Continuous monitoring reduces the need for periodic checks and audits and also ensures greater security. This

instrument also checks the **work surface** for proper grounding.

SURFACE RESISTIVITY METERS Z203, ZE203, Z203-100



ground can be determined.

The surface resistivity of any flat surface is indicated by a row of LEDs. In the circuit industry, resistance of products such as packaging materials, component storage bags and trays, work bench surfaces, floor mats, etc., need to fall within certain limits. It also has surface-to-ground measurement capability wherein the resistivity differential between any surface and any chosen





The model **Z203-100** is designed to measure **Surface Resistivity, Resistance between 2 points, and Surface to Ground** in accordance with EOS/ESD Association Std S4.1. Measurements in the conductive range are made at 10V and higher values at 100V.

Measurements can be taken with built-in parallel electrodes or special external probes. The external probes weighing 2.27Kg, 64mm dia with conductive base cushioning conforms to EN 61340-4-1



STATIC CHARGE METER Z205

This is a non-contact, compact **digital** instrument designed to measure static voltages on objects & surfaces. It features a large LCD display to indicate the magnitude and polarity of the electrostatic charge directly upto 10 Kilovolts.



HUMAN BODY VOLTAGE CHECKER Z2055

This instrument is designed to measure the Static Voltages carried on a human body. It is a good auditing tool to verify whether Personnel entering an ESD safe area are carrying any hazardous charges on themselves. It can also serve to verify whether all the ESD protection measures which have been taken to make a particular area ESD safe are effective.

It only requires the personnel under test to touch the Button on the instrument and directly read the charge

level in volts on the meter. **The Z2055A version has a hazard warning feature for Voltages over 100V**



ELECTROSTATIC ALARM Z201

It is designed to provide a quick and convenient method of locating static charges and their approximate charge levels. It is primarily intended for use in static-safe

handling areas, as an **early warning system** to alert the personnel nearby.

The hazard may be in the form of personnel who are generating static or personnel who may be holding a charged object without observing the standard safety procedures for handling static sensitive devices.



COMMON GROUND POINT Z111

As per ANSI/ESD S20:20 all conductors including Personnel must be electrically connected and attached to a known ground.

A common question about **anti-static wrist straps** is how and where to ground them. Anti-static work station operators need a convenient method of grounding their wrist straps where the ground cord won't get in the way of their work. **This convenient device** provides the means to ground anti-static wrist straps at your work

station.

STATIC NEUTRALISERS (IONIZER) Z207, Z209



The generation and accumulation of unwanted electrostatic charges, both surface and airborne, poses a serious problem in various industries and laboratories. **Bench Top model Z207** is designed to neutralise your ESD work-station or ESD protected area with a stream of ionized air. An axial fan gives the desired air flow to neutralise static on specific objects rapidly, as well as control static in the general area in front of the ionizer.

The **OVERHEAD model Z209** unit can be conveniently hung over the work area for a large coverage to neutralise the charges on personnel or on any item entering an ESD sensitive area.

It does what Wrist straps and Conductive mats cannot do - i.e. remove static charges from non-conductive objects and surfaces.



ION AIR GUN Z2072

The Ion Air Gun along with its HV Power Supply and Air Compressor forms a system which is designed to neutralise static charges upto a distance of 1m. (*Air Compressor not supplied by us*) It removes static, contaminants and dust from flat surfaces as well as solid objects prior to assembly, packaging, painting and

finishing. This makes the Z2072 an effective local area cleaner.



SOLDERING FUME ABSORBER 493

This is a compact, portable, self-standing, low noise unit which can be adjusted to any angle for maximum smoke absorption and is specially designed to suck the harmful fumes away from the operator which then gets absorbed onto an activated carbon filter. It is designed for table-top operation.

COMBO TESTER Z134 + STAND Z134S (with access control)



Wrist straps and ESD footwears are the first line of defence against electrostatic charge build up on the human body. They are designed to carry away this charge as soon as it is generated. At the same time the wriststrap/footwear must remain electrically safe for the user. Thus, it is important to test every wrist strap/footwear regularly.

The maximum wrist strap resistance should not be more than 10 meg ohms and Footwear resistance should not be more than 35 Mega ohms. Also the resistance should not be less than 0.75 Mohm as protection to the wearer from dangerous voltages.

This **COMBO TESTER** is a combination **Wriststrap & DUAL footwear tester** which checks these parameters under actual realtime operating conditions. The footwear section gives a warning if either of the Footwear is defective.

Door Access System:

Before entering the EPA (ESD Protected Area) personnel need to test their Wrist Strap/ESD footwear. Access into the EPA is allowed by the release of the Electromagnetic lock **only** if the resistance of the Wrist Strap/ESD footwear is within the Pass limits.

SPECIFICATIONS

| | |
|-----------------|---|
| Pass Range | : Wrist strap 0.75 to 10.0 meg ohm |
| | Footwear 0.75 to 35.0 meg ohm |
| Actuation | : By gently pressing TEST button |
| Accuracy | : $\pm 10\%$ |
| Power supplies | : Included |
| EM Lock | : Optional |
| Dimensions & Wt | : (instrument) 125 x 75 x 29 mm 150 gms |
| | (stand) 400 x 400 x 950 mm ht. 5 Kgs |
| Calibration | : Recommended every 12 months. |
| Traceability | : To national standards |
| Warranty | : 12 months. |