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# M K ENTERPRISES

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ESD CLEANROOM PRODUCTS AND CONSUMABLES



## ABOUT US

Established in the year 2019, m k enterprises [pune] is a highly reliable firm engaged in supplying of soldering wires, industrial consumables, tools, and fixtures, equipment's soldering pot, acid pot, temp control soldering station, heavy duty solder iron, pvc wire stripper, heating element and driver bits. We are largely acclaimed in the market for providing highly advanced range of products which is convenient to use, reliable, advanced and are long sustainable. We are pune based organization and work in a state of art infrastructure which help us to meet the rising needs of the market. Our work forces are highly experienced in designs of jigs and fixtures. We use sophisticated mechanism to cater advanced products with superior features. With our best trainings and updates, we try to enhance the skill and knowledge of our professionals in devising unmatched products. We follow the international standard of quality and ensure superlative products with complete quality assurance. Our constant efforts and quality centered approaches, help us to reach the best height of success in the market.

## STOCKEST OF ELECTRICAL MATERIALS OF FOLLOWING BRANDS

**SIEMENS**  
Ingenuity for life

**Schneider**  
Electric

**Rexford**

**TRINITY**  
TOUCH

**TEKNIC**

**elmex**  
since 1963

**BRISK**  
SAFETY FOR MANKIND

**MIMIC**

**SELEC**  
Creating Best Value

**ELETTRO**

**ID IDEAL**

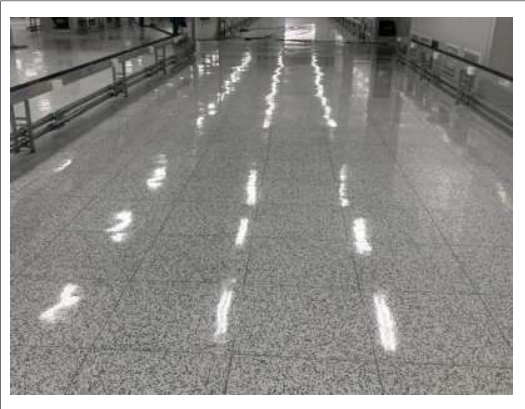
**POLYCAB**  
Connection Zindagi Ka

**MULTISPAN**

**KOSMOS**

# ESD FLOORING SYSTEM

## ESD TILES



The flooring tiles are compressed ESD Vinyl based tiles available in both conductive and static dissipative properties. The manufacturing technology ensures that the tiles remain conductive permanently and also incorporate very good mechanical properties, abrasion resistance, indentation resistance, and chemical resistance. The tiles have a low content of Plasticisers and the following are the advantages of low content of plasticisers.

1. Dimensional stability
2. Limited out gassing
3. Better chemical resistance
4. Safer in case of fire
5. Bacteriostatic
6. 100% repairable without visible traces
7. Easy to maintain



Thickness : 2mm, 3mm

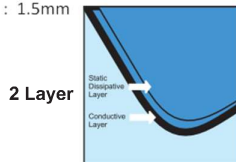
Colour Options

## ESD MAT

We at M K Enterprises, offer a complete range of ESD Flooring and other products. ESD PVC Mats with conductive layer are used to eliminate static charge. These can be layer on floor or table top. An ideal dissipative mat should not generate any triboelectric charge and should dissipate any charge brought from outside. The mat should also with stand harsh assembly environments like hot solder and corrosive chemicals.

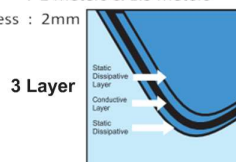
### TWO LAYER VINYL MAT

Top Layer : Static Dissipative  
 Surface Resistance : Less than  $10^9$  ohms/sq  
 Bottom Resistance : Less than  $10^5$  ohms/sq  
 (Conductive Black)  
 Standard Width : 2 Meters & 1.5 Meters  
 Standard Thickness : 1.5mm

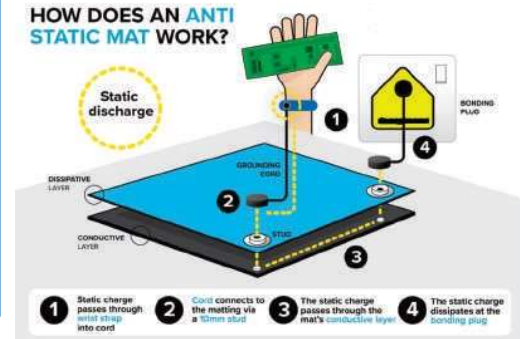


### THREE LAYER VINYL MAT

Top Layer : Static Dissipative  
 Surface Resistance : Less than  $10^9$  ohms/sq  
 Sandwich Layer : Less than  $10^5$  ohms/sq  
 (Conductive Black)  
 Bottom Resistance : Less than  $10^9$  ohms/sq  
 Standard Width : 2 Meters & 1.5 Meters  
 Standard Thickness : 2mm



### HOW DOES AN ANTI STATIC MAT WORK?



### ESD RUBBER MAT



ESD Rubber Mat - Our ESD Rubber Mats are made of two layer of 2mm thickness. The top layer is static dissipative rubber and the bottom layer is black conductive layer. Surface resistivity of the top layers is between  $10^8$  ohms/sq to  $10^9$  ohms/sq and bottom layer is less than  $10^5$  ohms/sq. These ESD Rubber Mats are also light as compared to other PVC mats.



W(M)XL(M) : 0.6X10 0.8X10 1.0X10 1.2X10  
 Thickness : 2mm 3mm



## ESD EPOXY FLOORING



The electrostatic dissipative (ESD) products is particularly designed for use in environments that contain or are handling sensitive components, gases, solvents or even explosives. Industries such as electronics manufacturing and chemical processing sectors have very prominent usage of these products.

Our ESD Flooring Systems offer a self-smoothing, hard-wearing, chemical resistant and easy to clean properties having the ability to withstand rigorous cleaning regimes. As well, these systems provide a seamless alternative to tile or vinyl finishes-creating a watertight seal that is proven to last.

Multiple Colors available

Process :

Grinding, Primer, Screed, Top Coat

ESD Process

Grinding, Primer, Copper Tape, Conductive Coat & Top Coat

# ESD WORK STATIONS



Note : Size & Design Can be customized as per customer requirements.

## Accessories



Multi Display Board



Storage Cabinet



Louvre Panel



Pin-Up Board



Tool Tray



Bin Rail

# ESD CHAIRS AND TROLLEYS



BSI-CH-101  
Fabric  
Upholstery



BSI-CH-102  
Leatherette  
Upholstery



BSI-CH-103  
Fabric  
Upholstery



BSI-CH-104  
Molded Seat



BSI-CH-105  
Molded Seat



BSI-CH-106  
Fabric  
Upholstery

## Accessories



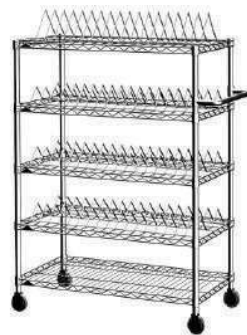
## Trolleys



SS Trolley (with Shelves)



SS Trolley



SMT Component Trolley



PCB Magazine Trolley



Shop Floor Trolley



Shop Floor Trolley



Trolley with LP



Material Handling Trolley

## ESD GROUNDING AIDS



Wrist Band with Cord (C-clip)



Wrist Band with Cord (Button)



Cordless Wireless Wrist Strap



Common Grounding Point



ESD Ground Leads  
Button to Top



ESD Ground Leads  
Button to C-Clip



ESD Ground Leads  
Button to Button



BS-GA-707  
Anti Static  
Heel Strap

## ESD FOOT WEARS



ESD Slippers



BSI-FW-201  
PU/PVC  
Anti - Static Shoes



BSI-FW-202



BSI-FW-203



BSI-FW-204  
ESD Safe Leather Shoes  
(With Metallic Safety Toe)



ANTI STATIC CPS SHOE COVER  
(Disposable)



ANTI STATIC CLOTH SHOE COVER  
(Reusable & Washable)



Shoe Cover Dispenser



Sole Cleaning Machine

# ESD CLOTHINGS

ANTI STATIC COTTON APRON



BSI-301

A/S CLEANROOM DANGRI



BSI-302

A/S UNIFORM



BSI-303

ESD Dangri



BSI-304

# ANTI STATIC POLYESTER APRONS

ANTI STATIC FABRICS



BSI 305 (Blue)



BSI 306 (Green)



BSI 307 (Yellow)



BSI 308 (Pink)



# ESD CAPS & MASKS

FULL HEAD CAP



BSI-401

ROUND CAP



BSI-402

CHEF CAP



BSI-403

SPORTS CAP



BSI-404

NON WOVEN HOOD



BSI-405

NON WOVEN MASK



BSI-406

ANTI STATIC MASK



BSI-407

# ESD HANDGLOVES

**ESD NYLON GLOVES**  
(Finger PU Coated)



**ESD CARBON FIBRE**  
(FINGER PU Coated)



**ESD CARBON FIBRE**  
(Palm PU Coated)



**ESD BOTH SIDE LINING**  
GLOVES



**LATEX GLOVES**



**ESD GLOVES MICRO**  
DOTTED GRIP



**ESD FINGER COTS**



**ESD FINGER COTS**



# ESD BRUSHES & TWEEZERS

ESD-BR-01



BRISTLE : 3 Rows, 20 Holes  
DIMENSION:33X10X16(mm)

ESD-BR-02



BRISTLE : 1 Rows, 7Holes  
DIMENSION:33X10X25(mm)

ESD-BR-03



BRISTLE : 1Rows, 17Holes  
DIMENSION:125x5x33(mm)

ESD-BR-04



BRISTLE : 5 Rows, 50 Holes  
DIMENSION:68X32X20(mm)

ESD-BR-05



BRISTLE : 1 Rows, 7 Holes  
DIMENSION:Diameter 8.5mm

ESD-BR-06



BRISTLE : 1 Rows, 9 Holes  
DIMENSION:42x2.7x25(mm)

ESD-BR-07



BRISTLE : 3 Rows, 11Holes  
DIMENSION:94x16x22(mm)



Metal Tweezer



Plastic Tweezer



Smart Tweezer



# ESD SAFE PACKING

## ANTISTATIC PACKING



ANTI STATIC BUBBLE ROLL



ANTI STATIC ZIP LOCK



ANTI STATIC PINK



ANTI STATIC COLORED BAGS

Custom Size & Thickness available

## ANTISTATIC SHIELDING BAGS & MATERIALS



Metal in

**Surface resistance**  
Top layer: < 10 ohms/sq  
Metal layer: <10 ohms/sq  
Inter kayer: <10 ohms/sq



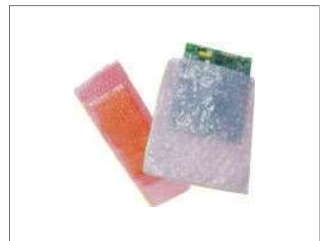
Metal out

**Surface resistance**  
Top layer: < 10 ohms/sq  
Metal layer: <10 ohms/sq  
Inter kayer: <10 ohms/sq



**Surface resistance**  
Metal layer: <10 ohms/sq  
Inter kayer: <10 ohms/sq

## A/S MOISTURE BARRIER BAGS

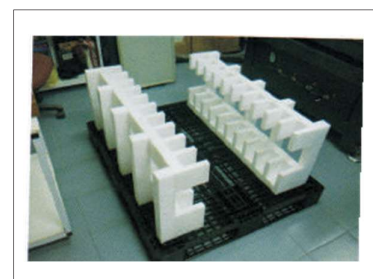


## CONDUCTIVE PU FOAM



Customized Packing Available

## EPP / EVA FOAM PACKING





**ESD Conductive Corrugated Bins**



Containers made of hollow slabs can efficiently eliminate static charge potential up on surface.

The hollow slabs are light, wearable, damp, proof anti corrosive and economical. They reduce damage ratio to electrons in production to cut down cost and increase quality of product and profit.

Application : used for containing, packaging storing and transferring electronic parts or products which are sensitive during production.

Note : Size & Design Can be customized as per customer requirements.

## ESD Blister Packaging



Note : Size & Design Can be customized as per customer requirements.

## FIXED PCD CARRIERS



**APCR1-C**

**APCR1-N**

**Size :** 458mmx140mm  
 25 slots  
 Black color for conductive  
**Art no. APCRI - C**  
 Grey Color for Non Conductive.  
**Art no. ARCR1 - N**  
 Packing : Fixed PCB Carriers are  
 Packed 5 pcs. in a Box

## FIXED PCD CARRIERS - L TYPE



**APCR4-C**

Conductive PCB carrier in Black color.  
 Non conductive PCB  
 Carriers in grey color.  
**Size :**  
 207mmx273mmx95mm  
 25 grooves, 9mm Pitch,  
 3mm width

# PCB STORAGE SYSTEM

## SMT CONDUCTIVE MAGZINE BACK

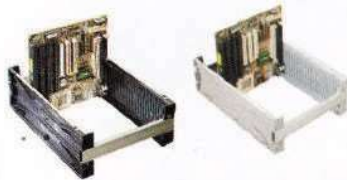


BS- 9805301B1  
**METAL**



BS- 9805301CG  
**METAL**

MODEL	MAX. TEMP.	OUTER DIMENSIONS			Adjustable Width(mm)	Base Material	Rer.Position		Pitch (m)	PCB Slots	Wight (Kg)	Fix Method
		L	W	H			A	B				
BS-9805301B1H/H2	200	320	355	563	50-255	Metal	34	34	10	50	7.5	Handle/Screw
BS-9805301CG	120	400	460	565	70-330	Metal	35	35	10	50	8.8	Handle



Conductive **APCR5-C**  
Non Conductive **APCR5-N**

### CONDUCTIVE AND NON CONDUCTIVE ADJUSTABLE PCB CARRIERS

Adjustable PCB Carrier can be used for protection of boards during storage or transport in assembly line or integrate with automatic component insertion machines they can be stacked one on each other. Each PCB Carrier had distinctly numbered on white background, 31 slots which can hold a maximum of 31 PCB's

#### ADJUSTABLE PCB CARRIER NO, 5

Useful for small to medium Board  
Size of sides 350mmx195mm  
Use different size of Aluminum guides to make 3 the configuration as per the size of PCB



Multi Use **APCRG-2 / 3 / 5**

#### CONDUCTIVE ADJUSTABLE PCB CARRIER NO, 5

Set of 2 pcs. -Color- Black ART No.-APCR-C

#### NON CONDUCTIVE ADJUSTABLE PCB CARRIER NO, 5

Set of 2 pcs. -Color- Grey ART No.-APCR5 -A (order Aluminum guides separately)

#### MULTI USE

Different size of PCB;s can be fitted in two PCB Carriers as shown in the picture.



#### ALUMINIUM GUIDES

Three standard lengths Aluminum anodized guides are available Longer lengths useful for handling different sizes of PCB's are available on request.

#### LENGTH

253mm set of 2 pcs, **Art no APCRG -2**  
353mm set of 2 pcs, **Art no APCRG -3**  
535mm set of 2 pcs, **Art no APCRG -5**



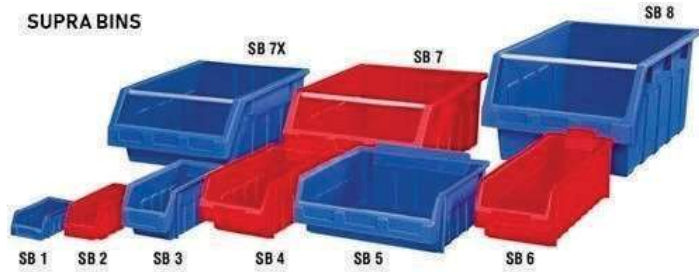
Conductive **APCR6-C**  
Non Conductive **APCR6-N**

#### ADJUSTABLE PCB CARRIER NO, 6

Useful for medium size Board  
Size of sides 350mmx 210mm  
2 set of Aluminium guides are required for Carrier no. 6

# ESD STORAGE SYSTEMS

## ESD/NORMAL BINS



### Supra Bins Dimension

Art No.	L	W	H
SB1-C	125	100	60
SB2-C	170	100	85
SB3-C	220	130	125
SB4-C	290	178	143
SB5-C	290	363	145
SB6-C	440	180	145
SB7-C	435	400	215

### Supra Bins Dimension

Art No.	L	W	H
SB1	125	100	60
SB2	170	100	85
SB3	220	130	125
SB4	290	178	143
SB5	290	363	145
SB6	440	180	145
Sb7	435	400	215
Sb8	600	425	300

Made from Polypropylene Copolymer. Strong rear lip for use with louvered panels. Strong heavy duty, with reinforced base side & stacking rim. Resistant to most industrial solvent, withstands higher temperatures. Clear access to contents. All bins with identification card holder slots. Incorporates a safetystop feature in SB 4-C, SB 5-C, SB 6-C, at the back for use in shelves.

## COMPONENT ORGANISER ESD/Normal

Conductive component organiser provides systematic storage of electrostatic sensitive devices.

It consists of a cabinet with 25 small drawers.

Size of Cabinet : 400mmx250mmx160mm

Size of Drawer : 150mmx75mmx35mm

Non Conductive Component Organisers are also available.

Art : ACO 25-C Conductive

Art : ACO 25 Non Conductive



ACO 25-C Conductive



ACO 25

## MODULAR SYSTEM-CONDUCTIVE

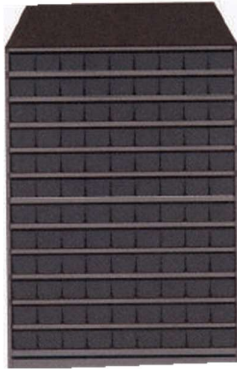
Modular system is an ideal storage system for Electrostatic sensitive devices based on standard modules which can be interlocked and stacked one on top each other. The based system is around four drawer sizes which can be inter-changed in the ratio of : 1 : 2 : 3 : 4. The cabinets can be supplied with/ without central lock.

AD 1C 360mm x 265mm x 16mm  
 AD 2C 360mm X 265mm X 39mm  
 AD 3C 360mm X 265mm X 62mm  
 AD 4C 360mm X 265mm X 87mm



MODULAR STORING SYSTEM

# ESD COMPONENT SHELVING



**ASU 6**

SHELVING UNIT SIZE  
 HEIGHT WIDTH DEPTH  
 1275mm 900mm 400mm

**ASU 6** Shelving Unit Consists of  
 1 Set of AUSB 124 Shelving Body  
 13 Nos: ASUS 400  
 1 NO. Kick plate Art No: ASUKP  
 9 Nos. PSB-401 Bins on each shelf  
 Total 108 Nos. PSB-401 Bins



**ASU 23**

SHELVING UNIT SIZE  
 HEIGHT WIDTH DEPTH  
 1875mm 900mm 400mm

**ASU 23** Shelving Unit Consists of  
 1 Set of AUSB 184 Shelving Body  
 13 Nos: Shelves  
 Art No. ASUS 400  
 1 No. Kick plate Art No: ASUKP  
 6 Nos. PSB-403 Bins on each shelf  
 Total 72 Nos. PSB-403 Bins



**ASU 40**

SHELVING UNIT SIZE  
 HEIGHT WIDTH DEPTH  
 2375mm 900mm 400mm

**ASU 40** Shelving Body  
 1 Set of AUSB 184 Shelving Body  
 14 Nos: Shelves  
 Art No. ASUS 400  
 1 No. Kick plate Art No: ASUKP  
 3 Nos. PSB-405 Bins on each shelf  
 Total 39 Nos. PSB-405 Bins



**PSB 401**

**PSB-401 BIN**  
 LENGTH 415 mm  
 WIDTH 100mm  
 HEIGHT 60mm

**PSB 402**

**PSB-402 BIN**  
 LENGTH 415 mm  
 WIDTH 100mm  
 HEIGHT 110mm

**PSB 403**

**PSB-403 BIN**  
 LENGTH 415 mm  
 WIDTH 150mm  
 HEIGHT 110mm

**PSB 404**

**PSB-404 BIN**  
 LENGTH 415 mm  
 WIDTH 220mm  
 HEIGHT 135mm

**PSB 405**

**PSB-405 BIN**  
 LENGTH 415 mm  
 WIDTH 300mm  
 HEIGHT 135mm

## CONDUCTIVE BOXES



Model	External Size
BS U64120	600x400x120
BS U64120	600x400x120
BS U64120	600x400x120

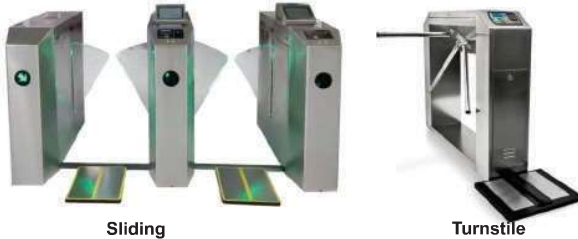
Model	External Size	Model	External Size
BS U32235	400x300x235	BS U32175	300x200x175
BS U31150	400x300x150	BS U32150	300x200x150
BS U31125	400x300x125	BS U32100	300x200x100

# ESD TESTING EQUIPMENTS

The function of the wrist strap is to ground the charges on the body in real time. At the same time the wrist strap must not compromise the safety of the operator. Therefore, it is important to check the wrist strap frequently.

## ACCESS CONTROL SYSTEM

MODEL-BS-WST-1006



Sliding

Turnstile

The Access to the EPA can be controlled by connecting the output of the WSFT to the Turnstile or Sliding Door.

## WRIST STRAP FOOTWEAR COMBO TESTER

MODEL-BS-WST-1002



This model WSFT checks both the Wrist Strap and Footwear

MODEL-BS-CT-1003  
MODEL-BS-WST-1004



This model WFM also check the wrist strap and footwear, with the advantage of checking each foot simultaneously. This reduces the total testing time by half.

## SURFACE RESISTIVITY METER

MODEL-BS-WST-1007



This is an ultra wide range, battery operated, portable instrument for measuring surface Resistivity of virtually on any flat surface. such as packing material component storage bags, and trays, work bench surface, Table and floor mats, convey or belts etc. It also has unique additional feature of surface-to-ground measurement capability where in Resistivity differential between any surface and any chosen ground can be determined. The surface Resistivity is conveniently indicated by row of LED's covering a total of 10 decades from 10E3 to 10E 12 Ohms/sq.

## WRIST STRAP TESTER

MODEL-BS-WST-1001



## STATIC CHARGE METER

MODEL-BS-WST-1005



ANALOG



DIGITAL

## HUMAN BODY VOLTAGE CHECKER

MODEL-BS-WST-1008



## 100V LCD/LED SURFACE RESISTANCE METER

MODEL-BS-WST-1009



The surface Resistance Meter measures both surface resistance and resistance to ground accurately .

Two Electrodes weighing 2.5kg each can be used as external probes

## CONTINUOUS WORKSTATION MONITOR

MODE



This model continuous monitors the wrist strap and mat connectivity. Conditions such as broken coil cords, improper connectivity to ground are instantly detected to alert the operator before serious and expensive ESD damage can occur.

## CONTINUOUS WRIST STRAP MONITOR

MODEL-BS-WST-10011



The Model WSM-03 continuously monitors the wrist strap to detect loss of the wrist strap to detect loss of continuity between operator and monitor.

# CLEANROOM & ASSESSORIES



CLEAN ROOM



Air Shower



PORTABLE CLEAN ROOM



FFU



Pass Box

## CONSUMABLE ITEMS



SIZE : 9" X 9"



SIZE : 6" X 6"



STICKY MATS



ELEP CLEANER



CLEANROOM STATIONERY

## IONIZERS



Overhead 4 Fan Ionizer



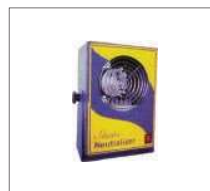
Overhead 3 Fan Ionizer



Overhead 2 Fan Ionizer



IONIZING AIR GUN



BENCH TOP IONIZER



SNAKE IONIZER

# SOLDER PASTE



## Composition :

### Leaded Solder

- Sn63/Pb37 T3, T4
- Sn60/Pb40 T3

### Lead Free Solder

- Sn99/Ag0.3/Cu0.7
- Sn96.5/Ag3/Cu0.5

\*Other International Principles are also available



Solder Bar



Solder Wire



IPA



No Clean Flux

## GLENX SMT RED GLUE



SMT Red Glue

### Product specification

**GLENX - 4012 (SMT Patch Red Rubber)**

**GLENX-4012** red glue as one-component epoxy resin adhesives, used in Surface-mount device engineering, especially for steel mesh printing process, has the following features:

1. Suitable for all kinds of components, has the stable high and then high temperature Resistant performance.
2. Suitable for stencil printing viscosity and degeneration, glue point forming good.
3. Although is a one-component epoxy resin adhesives, has a good stability.
4. High viscosity, during high speed SMT components displacement will not occur.



# GLENX SOLDERING STATION DIGITAL/ANALOG

## GX 942

### Soldering Station with Imported Alumina Ceramic Heater

<b>MODEL NO.</b>	<b>GX 942</b>
Tempertaure Range	50-450° C / 180° C
I/P Voltage	190-270vAC
O/P Voltage	24vA/c
Max Power	25 / 50 / 60 Watts
Time to Temperature	
Rising from ambient	350° C 25 Sec.
Heater Type	Alumina Ceramic
Tip to ground Resistance	<0.2ohms
Tip to ground potential	<2mV
Auto Sleep Function	yes (Optional)
Temperature Lock mode	Optional
Application	General / PV Module Soldering and High Mass Components



## REWORK STATIONS



SMD Rework station



2 in 1 Rework station



Accessories



Electric Screw Driver



Tape dispenser



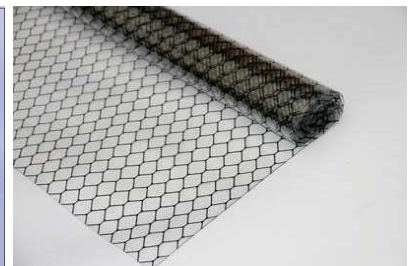
Magnifier Lamp (LED) Table Top



Magnifier Lamp (LED) with Clamp



Stencil Cleaning Roll



ESD Curtain Roll

## COMSUMABLE



SMT Splicing Tape



Floor Marking Tape



Kapton Tape



Caution Tape



Smoke Absorber



IPA/Flux Dispenser



Solder Wire Stand



Mobile Opener & Tools



PBA Fixer / PCB Holder



Digital Multimeter



Power Supply  
30V 5Ampere



Screw Driver & Hand Tools



Bopp tapes



Bubble roles



Wrapping Roles



Double side tapes



Transparent tapes



Masking tapes



Pogo pins



Routing bits

**FASTENERS**



Combi-Pan-Head-End-Cutting-Screw



Pan-Head-Phillips-B-Type-Screw



Mild-Steel-Self-Tapping-Screw



Black-Pan-Head-AB-Type-Screw



Chipboard-POP-Screw



Nickel-Plated-AB-Type-Self-Tapping-Screw



Zinc-Blue-AB-Type-Self-Tapping-Screw



B-Type-Self-Tapping-Screw

**ELECTRICALS CONSUMABLES**



Wiring cables



Buzzer



MCB And Switches

**M K ENTERPRISES**

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Mail id - mkenterprises1311@gmail.com

GST - 27BQHPK0118H1Z3