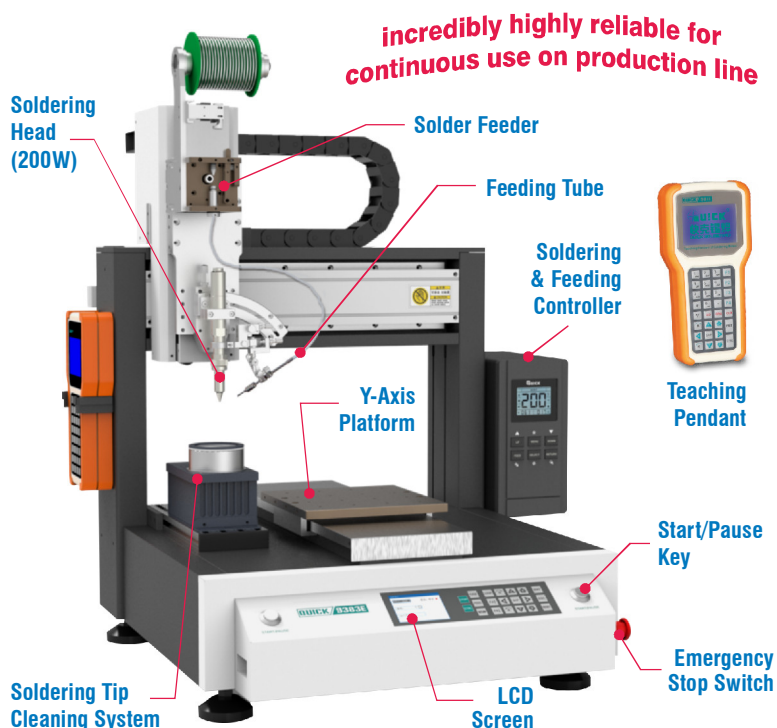


3-Axis highly reliable Soldering Robot Model ET9383E

increases production with less hands • ensures soldering quality for each joint



Features

- The ET9383E Desktop Soldering Robot features a 300x300mm movement platform, a robust high power soldering system with a superior closed loop temperature sensor capable of delivering and maintaining a stable and accurate tip temperature
- This Robot is complete with a 200W Power Supply, a Solder Feeder, 3-Axis movement and a auto Tip Cleaning System
- Built-in intelligent temperature compensation system with accurate and stable temperature
- Built-in alarm when solder wire is blocked or no solder wire
- Digital temperature calibration, password lock function
- Process can be controlled online by connecting to MES system due to availability of control signal O/P & I/P
- Hand-held Teaching Pendant for easy programming

Scope of Supply:

- 3-Axis 300x300 mm Soldering Robot
- Hand-held Teaching Pendant
- Soldering & Wire Feeding Controller
- Soldering & Wire Feeding Head
- 911G Series Soldering Tip
- Soldering Tip Cleaning System

Few user references (many with repeat orders) in India for Robotic solutions by Quick

- Minda Stoneridge, Pune (more than 10 in repeat....repeat orders in the last 3 years)
- Amphenol, Chennai (repeat orders)
- Nokia, Chennai (repeat orders)
- Mag Power, Pune
- Precision Electronics Hyderabad
- Mindarika, Gurgaon
- Flash, Pune
- Interface, Gurgaon
- BG LI-IN, Aurangabad
- Nidec, Neemrana (Japanese MNC) more than 5
- Tyntix, Bangalore

Specifications

Input Supply		100-240V AC, 50 Hz
Power Consumption		200W
Temperature Range		50 ~ 500°C (as per working mode)
Number of Axis		3
Movement Range	X & Y	300mm
	Z	100mm
Speed Range	X & Y	0.1 ~ 800mm/sec
	Z	0.1 ~ 300mm/sec
Repeat Accuracy	X, Y & Z	±0.01mm
Teaching File Numbers		≤999, Max 60000 points in total
Process File Number		≤255 Files
Dimensions (WxDxH)		500 x 530 x 670mm

4-Axis highly reliable Soldering Robot Model ET9494F

increases production with less hands • ensures soldering quality for each joint



Features

- The ET9494F Desktop Soldering Robot features a 400x400mm movement platform, a robust high power soldering system with a superior closed loop temperature sensor capable of delivering and maintaining a stable and accurate tip temperature
- This Robot is complete with a 200W Power Supply, a Solder Feeder, 4-Axis movement and a auto Tip Cleaning System
- Built-in intelligent temperature compensation system with accurate and stable temperature
- Built-in alarm when solder wire is blocked or no solder wire
- Digital temperature calibration, password lock function
- Process can be controlled online by connecting to MES system due to availability of control signal O/P & I/P
- Hand-held Teaching Pendant for easy programming

Scope of Supply:

- 4-Axis 400x400 mm Soldering Robot
- Hand-held Teaching Pendant
- Soldering & Wire Feeding Controller
- Soldering & Wire Feeding Head
- 911G Series Soldering Tip
- Soldering Tip Cleaning System

Few user references (many with repeat orders) in India for Robotic solutions by Quick

- Minda Stoneridge, Pune (more than 10 in repeat....repeat orders in the last 3 years)
- Amphenol, Chennai (repeat orders)
- Mag Power, Pune
- Mindarika, Gurgaon
- Interface, Gurgaon
- Nidec, Neemrana (Japanese MNC) more than 5
- Nokia, Chennai (repeat orders)
- Precision Electronics Hyderabad
- Flash, Pune
- BG LI-IN, Aurangabad
- Tyntix, Bangalore

Specifications

Input Supply		100-240V AC, 50 Hz
Power Consumption		200W
Temperature Range		50 ~ 500°C (as per working mode)
Number of Axis		4
Movement Range	X & Y	400mm
	Z	100mm
	R	300°
Speed Range	X & Y	0.1 ~ 800mm/sec
	Z	0.1 ~ 300mm/sec
	R	0.1 ~ 600°/sec
Repeat Accuracy	X, Y & Z	±0.01mm
	R	±0.2°
Resolution	X, Y & Z	0.01mm
	R	0.2°
Speed Control		≤999, Max 60000 points in total
Process File Number		≤255 Files

shown trademarks are property of their respective owners.

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering/Desoldering Tips, Cleaning Sponges etc., and any sort of mechanically damaged parts. 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.

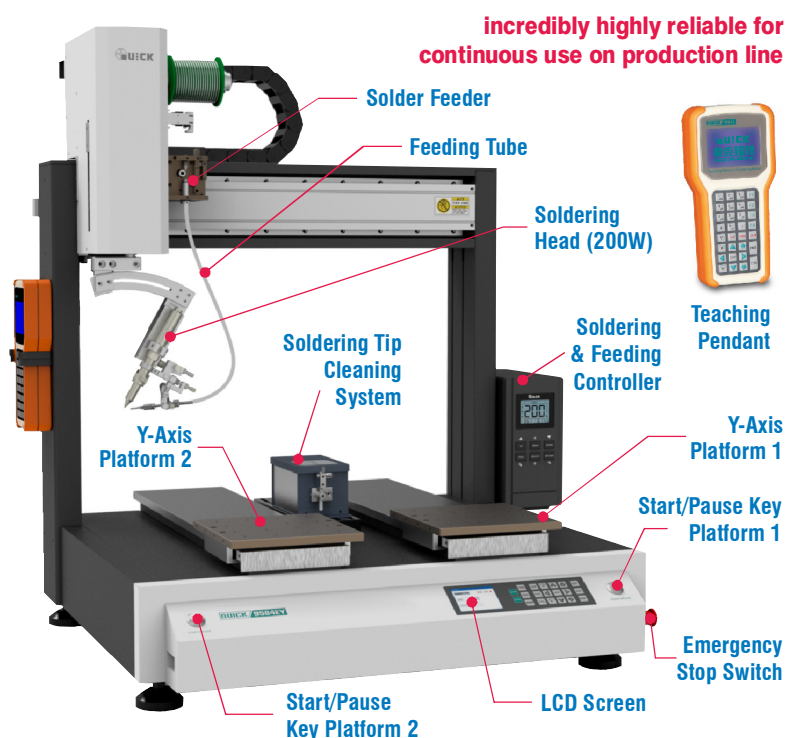
4-Axis highly reliable Dual Platform Soldering Robot Model ET9584EYA

INDE
reliable & caring since 1976

increases production with less hands • ensures soldering quality for each joint

Features

- The ET9584EYA Desktop Soldering Robot features a robust high power soldering system with a superior closed loop temperature sensor capable of delivering & maintaining a stable and accurate tip temperature
- This Robot is complete with a 200W Power Supply, a Solder Feeder, 4-Axis movement, Adjustable End Effector, a Tip Cleaning System, and Dual Sliding Y-Axis Platforms
- This system is ideal for fast paced production lines due to dual platform as one Y-Axis Platform can be unloaded and subsequently loaded while the other Platform is under soldering process.
- Robot has a 500mm x 400mm movement range
- Line Soldering & Point Soldering functions
- Control signal O/P & I/P available
- Auto cleaning of Soldering Tip
- Hand-held Teaching Pendant for easy programming



Scope of Supply:

- 4-Axis 500x400 mm Soldering Robot
- Hand-held Teaching Pendant
- Soldering & Wire Feeding Controller
- Soldering & Wire Feeding Head
- 911G Series Soldering Tip
- Soldering Tip Cleaning System

Few user references (many with repeat orders) in India for Robotic solutions by Quick

- Minda Stoneridge, Pune (more than 10 in repeat....repeat orders in the last 3 years)
- Amphenol, Chennai (repeat orders)
- Mag Power, Pune
- Mindarika, Gurgaon
- Interface, Gurgaon
- Nidec, Neemrana (Japanese MNC) more than 5
- Nokia, Chennai (repeat orders)
- Precision Electronics Hyderabad
- Flash, Pune
- BG LI-IN, Aurangabad
- Tyntix, Bangalore

Specifications

Input Supply		100-240V AC, 50 Hz
Power Consumption		200W
Temperature Range		50 ~ 500°C (as per working mode)
Number of Axis		4
Movement Range	X	500mm
	Y	400mm
	Z	100mm
	R	300°
Speed Range	X & Y	0.1 ~ 800mm/sec
	Z	0.1 ~ 300mm/sec
	R	0.1 ~ 600°/sec
Repeat Accuracy	X, Y & Z	±0.01mm
	R	±0.2°
Resolution	X, Y & Z	0.01mm
	R	0.2°
Speed Control		≤999, Max 60000 points in total
Process File Number		≤255 Files

shown trademarks are property of their respective owners.

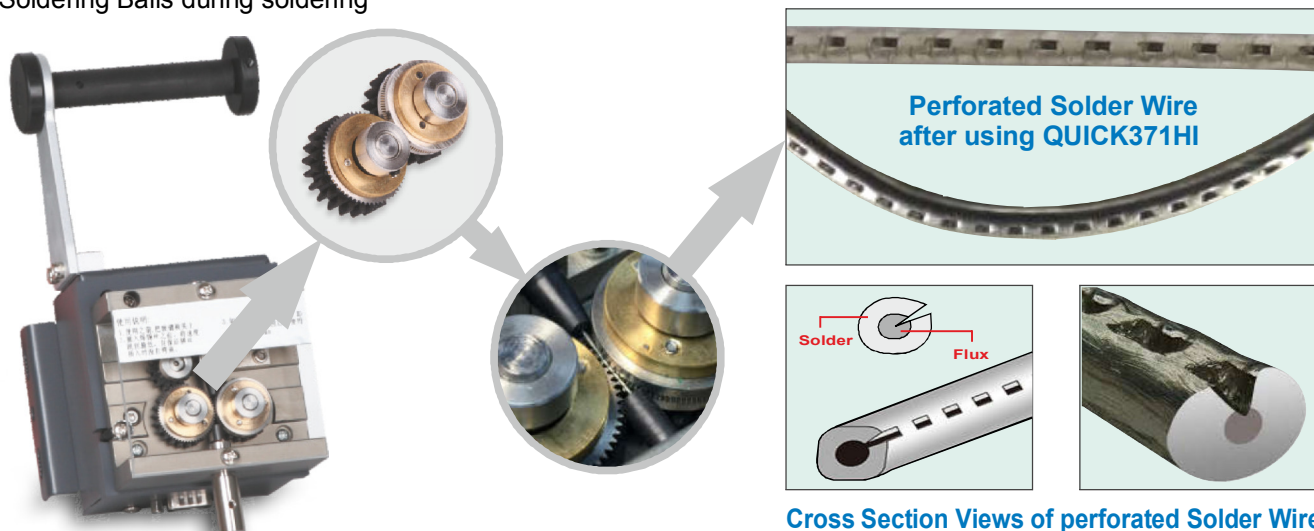
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increases production with less hands • ensures soldering quality for each joint

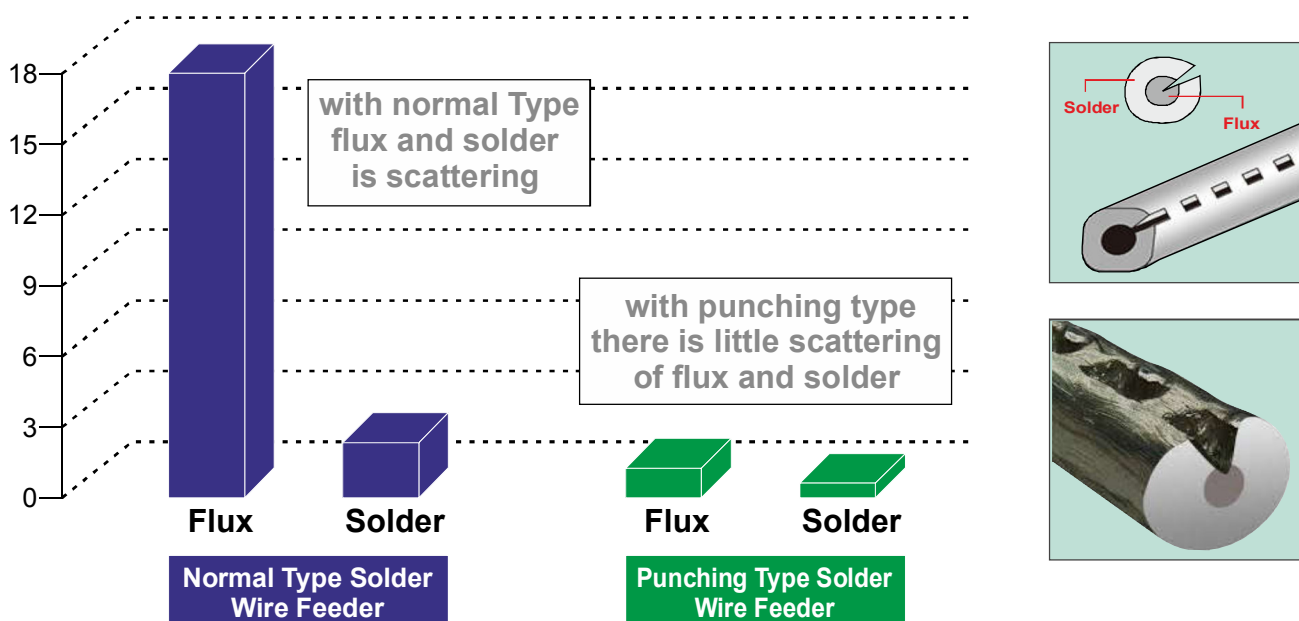
Highly reliable & Precise Solder Wire Feeder with hole Punching Model 371HI

Selection of Solder Wire Feeder is also critical and important to avoid Solder Balls formation and splashing of solder and flux during Soldering

Latest Technology Punching/Perforated Type We recommend latest technology Punching type Soldering Wire Feeder for Robotic Soldering which punches holes in soldering wires at regular interval and allows better Flux flow and out-gassing during the soldering process which avoids SOLDER FLUX SPLASHES and avoids formation of Soldering Balls during soldering



Graphical representation of micro Solder Balls and Flux Scattering



shown trademarks are property of their respective owners.

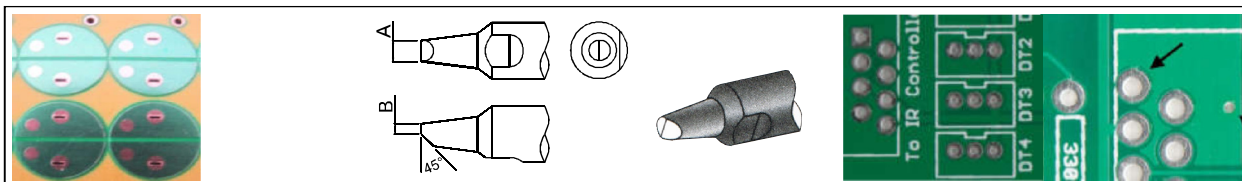
Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering/Desoldering Tips, Cleaning Sponges etc., and any sort of mechanically damaged parts. While the information contained herein in, has been carefully compiled to the best 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.

increases production with less hands • ensures soldering quality for each joint

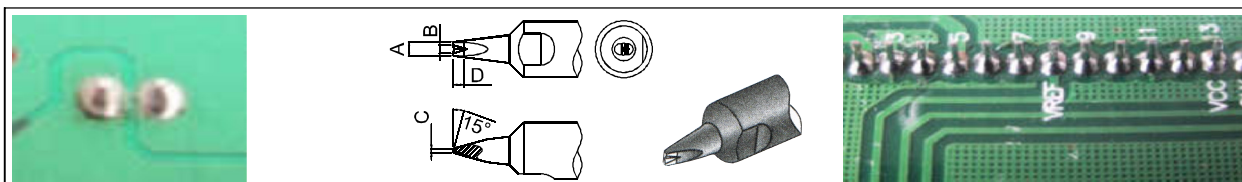
Why selection of correct Soldering Tip is critical and important to ensure quality of each Soldering Joint and also to achieve practically zero rejection for Solder Joints

Soldering Tip selection plays an important role to optimize soldering quality. That is why it is necessary to select the most suitable Soldering Tip. Below are few illustrations for selection of Soldering Tips for different applications.

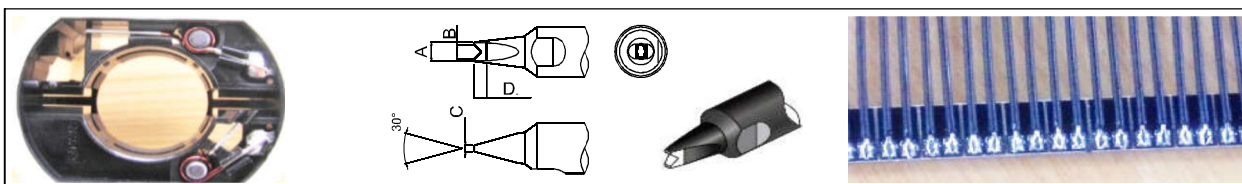
PC type of Soldering Tip is recommended for large pads



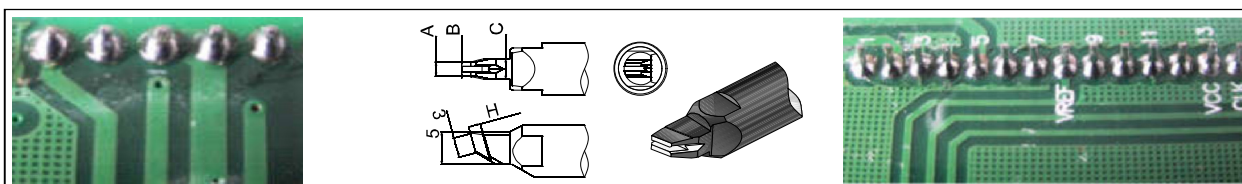
DV1 type of Soldering Tip is recommended for thru hole leads & connector/LCD pins



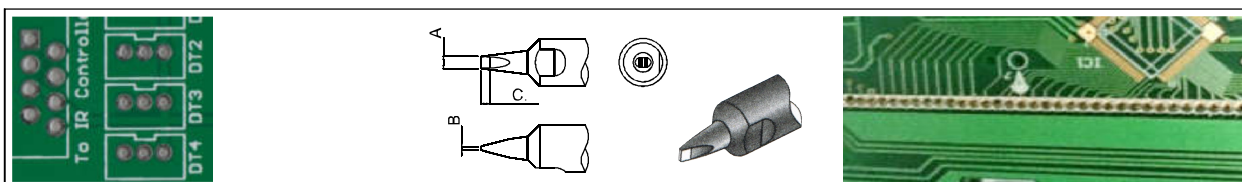
DV2 type of Soldering Tip is recommended for wire harnessing



N type of Soldering Tip is recommended for drag soldering of row of connectors



D type of Soldering Tip is recommended for line and point soldering on PCBs



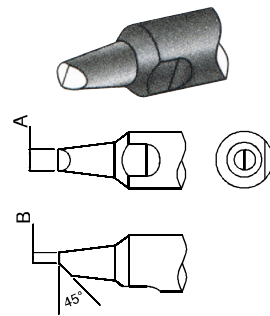
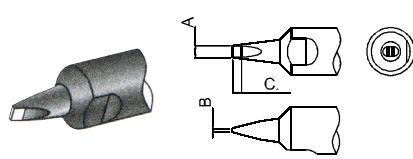
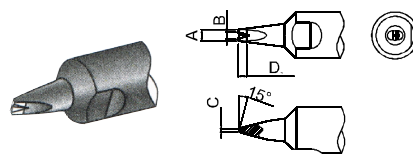
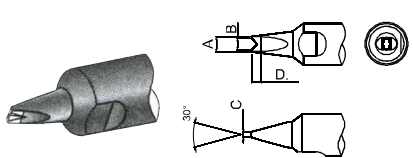
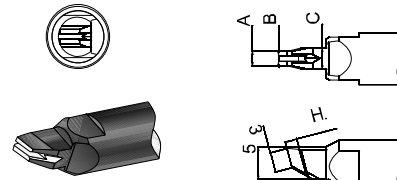
We will be able to help you to select correct Soldering Tip, for that we need following from you:

- a) Photo/s of your Jobs on which you want to solder
- b) Photo/s of your components which you want to solder

Please either email these at romesh1947@gmail.com or Whatsapp on Cell: 9316134502

Customized Soldering Robot Tips are possible to meet specific requirements

911B, 911G, 912 and 913-Series Soldering Tips for various Soldering Robots

Types	Part Number	Size (A)	Size (B)	Size (C)	Size (D)
Sloped Type 	*** -10PC	1.0mm	0.5mm		
	*** -13PC	1.3mm	0.65mm		
	*** -16PC	1.6mm	0.8mm		
	*** -20PC	2.0mm	1.0mm		
	*** -24PC	2.4mm	1.2mm		
	*** -30PC	3.0mm	1.5mm		
	*** -40PC	4.0mm	2.0mm		
Chisel Type 	*** -16D	1.6mm	0.6mm	1.5mm	
	*** -20D	2.0mm	0.8mm	1.5mm	
	*** -24D	2.4mm	0.8mm	1.5mm	
	*** -30D	3.0mm	1.0mm	2.0mm	
	*** -40D	4.0mm	1.2mm	2.5mm	
V-Notch Type 	*** -16DV1	1.6mm	1.0mm	0.6mm	1.5mm
	*** -20DV1	2.0mm	1.2mm	0.8mm	1.5mm
	*** -24DV1	2.4mm	1.4mm	0.8mm	1.5mm
	*** -30DV1	3.0mm	1.6mm	1.0mm	2.0mm
	*** -40DV1	4.0mm	2.0mm	1.2mm	2.5mm
V-Notch Type 	*** -16DV2	1.6mm	1.0mm	0.6mm	1.8mm
	*** -20DV2	2.0mm	1.4mm	0.8mm	1.5mm
	*** -24DV2	2.4mm	1.6mm	0.8mm	2.0mm
	*** -30DV2	3.0mm	2.2mm	1.0mm	2.3mm
	*** -40DV2	4.0mm	3.0mm	1.2mm	2.8mm
N Type 	*** -22N08H18	2.2mm	0.8mm	3.2mm	1.8mm
	*** -28N08H15	2.8mm	0.8mm	3.6mm	1.5mm
	*** -30N10H20	3.0mm	1.0mm	4.0mm	2.0mm
	*** -32N12H23	3.2mm	1.2mm	4.0mm	2.3mm
	*** -32N12H28	3.2mm	1.2mm	4.0mm	2.8mm

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to automate dispensing materials with higher productivity and consistent repeatability

BENEFITS

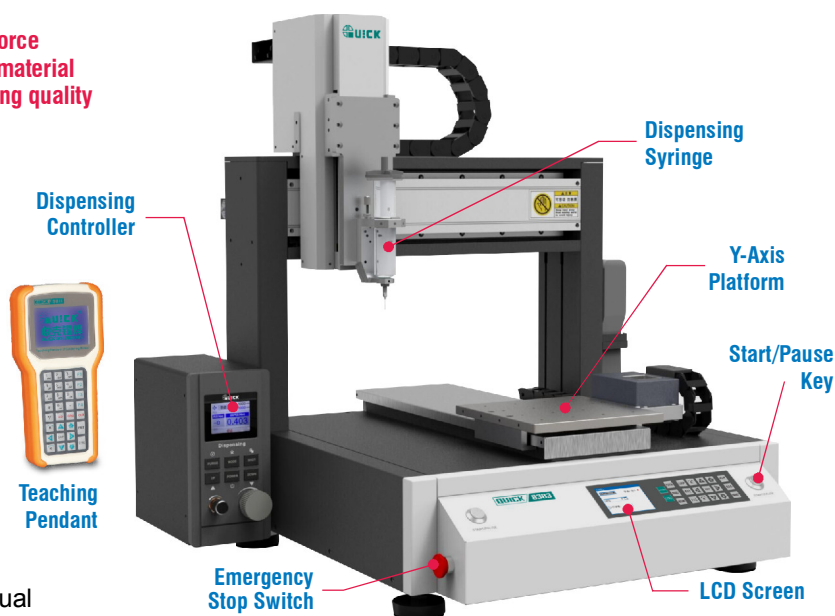
High Production with minimum workforce
Virtually zero wastage of dispensing material
Same consistent & accurate dispensing quality

Demo unit available in
Chandigarh Office, customers are welcome to
visit us with their samples for trial

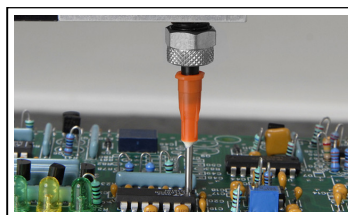
[Click here to view video links for
various Dispensing Applications](#)

Scope of Supply:

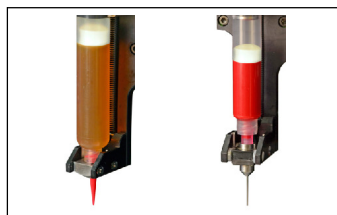
- 3-Axis 300x300 mm Dispensing Robot
- Teaching Pendant with Interface Cord
- Dispensing Controller with Cord
- Nozzles (12 Pcs) • Adaptor • Allen Key Box
- PU tube (8mm dia x 2.5 meter length)
- Dispensing Barrel & Piston • Instruction Manual



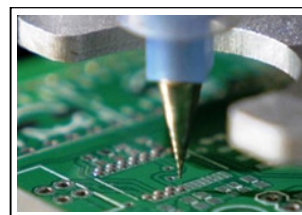
Sealant Dispensing



Conformal Coating Dispensing



Glue & Adhesive Dispensing



Solder Paste Dispensing

This desktop Robot is designed for the automation of dispensing operation to minimize working hands. Besides increasing productivity, it also lowers production cost because there is no wastage of dispensing materials. It is a fully-automatic & high resolution control system with 3 axis movement. This unit also provides easier programming instructions, more parameters, a larger memory space and a higher speed. It increases production rate.

Few supply user references (many with repeat orders) in India for Robotic solutions by Quick

- Precision Electronic Components Mfg. Co., Hyderabad
- Kostal India Private Limited, Vellore (Tamil Nadu)
- Mag Power, Pune
- Sahyadri Udyog, Pune
- Vishal Engineering, Pune (repeat order)
- Intelux Electronics Private Limited
- Reanu Micro Electronics Pvt. Ltd., Pune
- Mindarika Private Limited, Manesar
- Nidec India Private Limited, Neemrana
- muP Electronics, Nashik

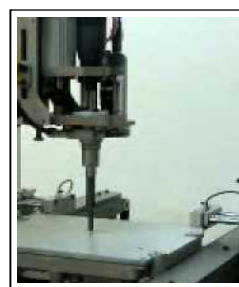
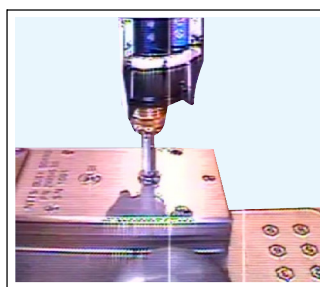
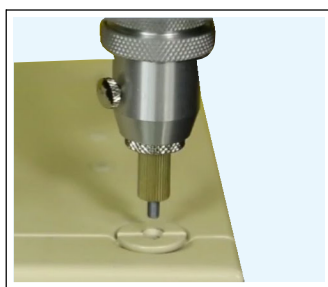
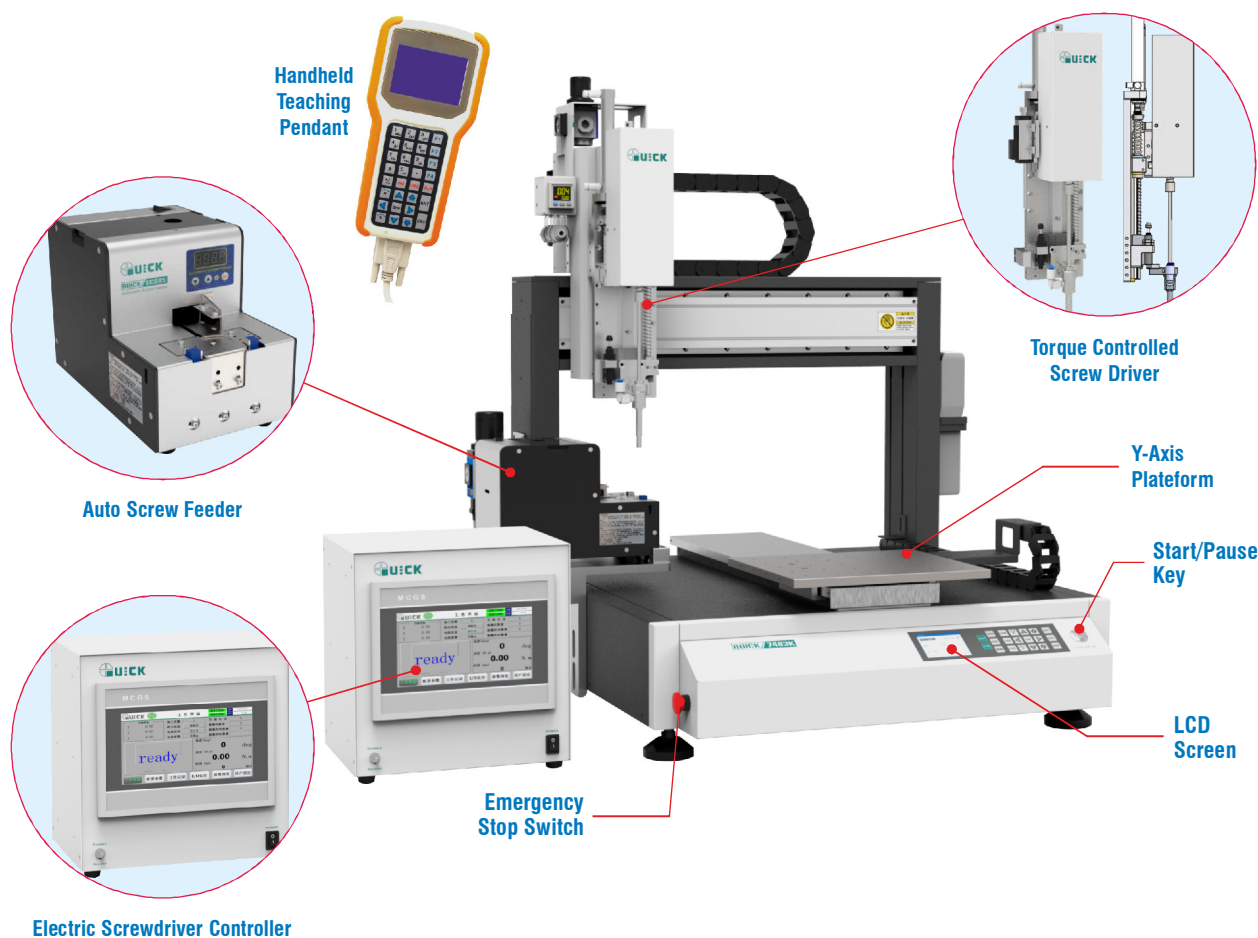
Specifications

Input Supply		100~240V AC, 50 Hz
Number of Axis		3
Movement Range	X & Y	300mm
	Z	100mm
Speed Range	X & Y	0.1 ~ 800mm/sec
	Z	0.1 ~ 300mm/sec
Repeat Accuracy	X, Y & Z	±0.01mm
File Capacity		≤999, Max 60000 points in total
Process File Number		≤255 Files
Dimensions (WxDxH)		610 x 650 x 630mm

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Nozzles, Barrel etc. and any physically damaged parts.

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shown trademarks are property of their respective owners.



These Desktop Screw Fastening Robots are designed for automation of screw locking process to minimize work force on production line. Besides increasing productivity, without adding working hands, these also provide reliable type consistent screw fastening with same torque.

Features

- Single/Double Head for fast working, greatly improves productivity
- Automatically picks and tightens screws
- Continuous Screw feeding with counting, also prevents missing screws
- Constant torque with screw slip teeth and floating lock detection
- The device has an external job status indicator prompting
- Hand-held programming Pendant

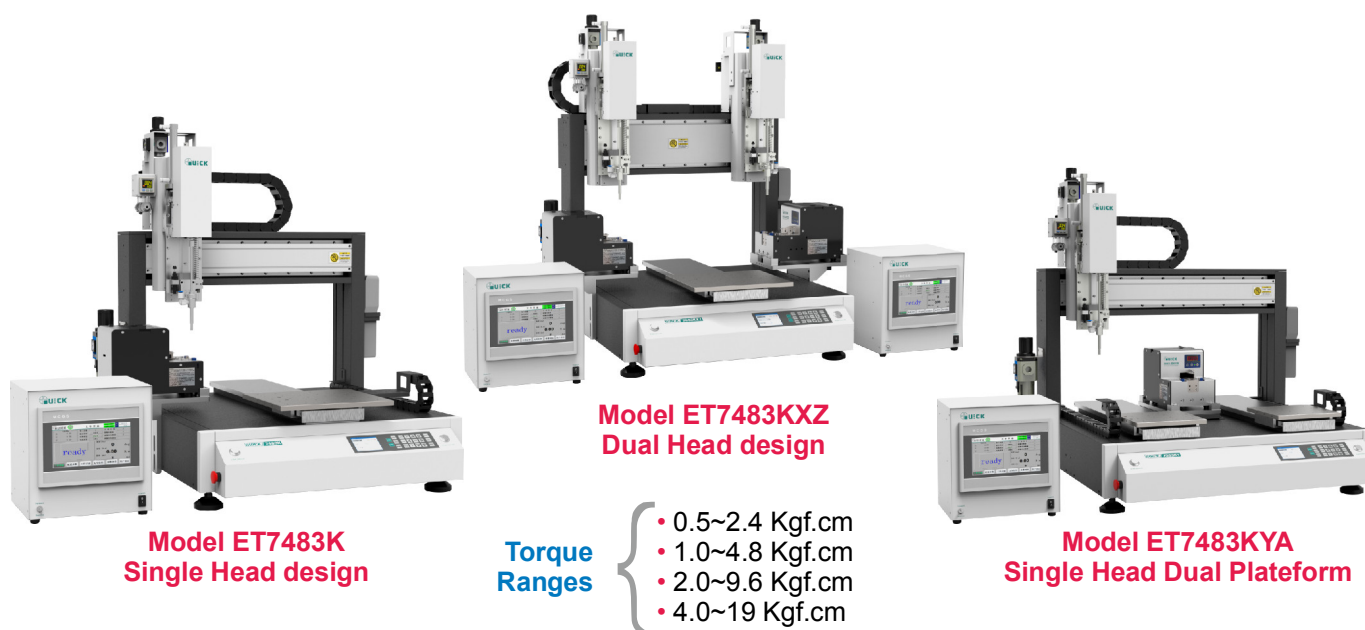
Scope of Supply:

- Main Robotic Unit
- Teaching Pendant
- Auto Screw Feeder
- Electric Screwdriver
- Instruction Manual

Affordably Priced, Highly Reliable & Precise Screw Fastening Robots

Screws feeding with counting at high production rate & also prevents missing of screws

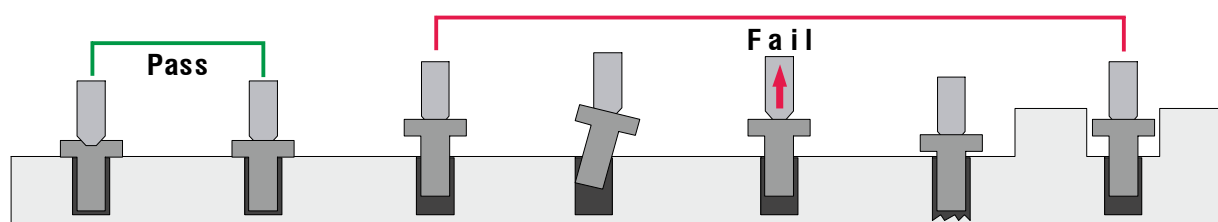
INDE
reliable & caring since 1976



Specifications:

Model		ET7483K	ET7483KXZ	ET7483KYA
Input Supply		100 ~ 240V AC, 50 Hz		
Number of Axis		3	3	3
Movement Range	X	400mm	400mm	500mm
	Y	400mm	400mm	400mm
	Z	100mm	150mm	100mm
Movement Speed Range	X	0.1 ~ 1000 mm/sec		
	Y	0.1 ~ 1000 mm/sec		
	Z	0.1 ~ 300 mm/sec		
Repeatability	X/Y/Z	±0.01 mm		
Y-Axis Load		8 Kg		
Screw Feeding		Air Suction		
Screwing Range (X/Y)		360x370mm	340x370mm	170x370mm
Suitable for		M1 ~ M5 Screws		
Air Pressure		0.4MPa ~ 0.6MPa		
Demo File Number		Max. 255 Files, Max 60000 Points		
Process File Number		Max. 128 Files		
Dimensions (approx)		750Wx690Dx810H mm	810Wx690Dx860H mm	820Wx690Dx810H mm

Will show pass if screw is fastened correctly otherwise will show as fail



Warranty is 12 months from the date of invoice. It excludes all wear & tear type parts and any physically damaged parts.

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Electric Screwdriver Controller



Smart Control: 3 ways and 16 lock parameters

Process Monitoring: Real-time lock data like torque profile, real torque value, angle, time and lock result etc. displayed on screen

Smart Detection: Missing lock, Floating lock and thread loose etc. defects can be detected

Data Collection: Real-time data can be controlled in the controller, standard 4G memory can store 4 millions on screw data, torque profile can be saved in USB or PC.

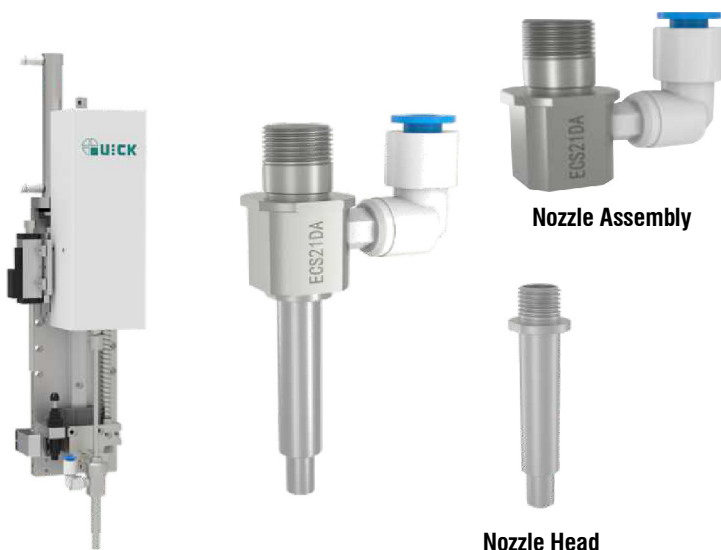
History Tracing: Locking data can be viewed and exported for analysis. It is recommended to use with code scanner

Communication: RS232, RS485, USB and Ethernet available

Specifications of Screwdrivers used in Screw Fastening Robots

Model	Output Torque Range			Rotating Speed (r.p.m) $\pm 5\%$	Bit Specifications
	N.m	kgf.cm	lbf.in		
ECS80T-50A	0.05~0.24	0.5~2.4	0.44~2.12	1500	
ECS80T-100A	0.1~0.48	1.0~4.8	0.89~4.25		
ECS80T-200A	0.2~0.96	2.0~9.6	1.77~8.5		
ECS80T-400A	0.4~1.9	4.0~19	3.54~16.82		

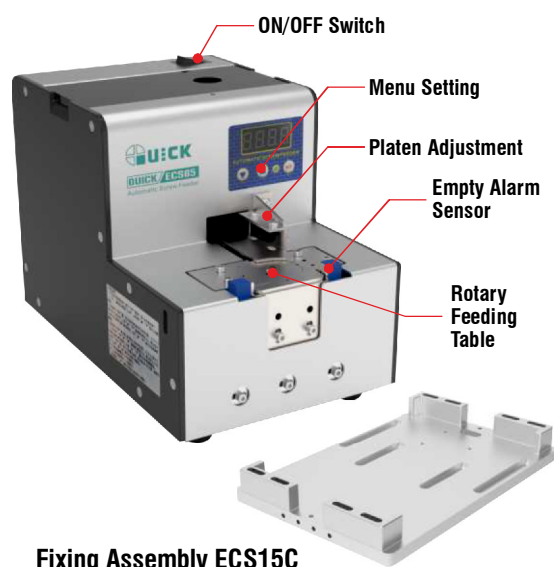
Electric Screwdriver Nozzle Assembly



Nozzle Assembly Model	Bit Diameter (mm)
ECS21DA-Z4	Ø4mm
ECS21DA-Z5	Ø5mm

Note: Nozzle Assembly, Nozzle head and bit depend on application

ECS65A Screw Feeder for Screw length upto 15mm



Features:

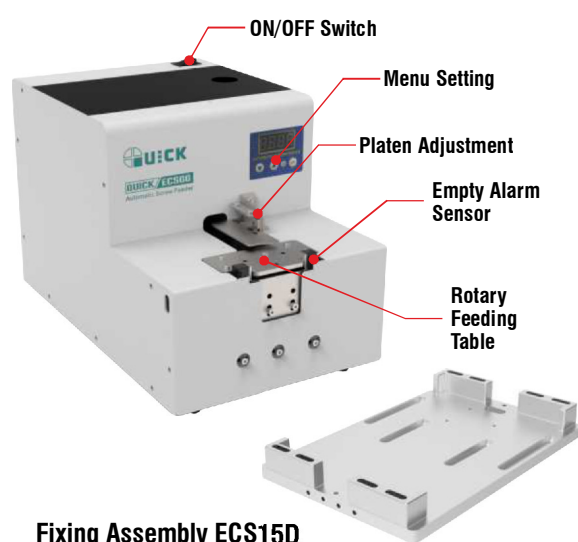
- Lead rail and rotary feeding table can be adjusted and replaced for screws M1.0 ~ M5.0 with length upto 15mm
- Volume 0.15L, maximum 600 pcs of M3x8 pan-head screws can be put inside
- Reliable screw feeding, feeding speed 50-80 pcs/min
- Precise feeding, repeatability $\pm 0.02\text{mm}$
- Signal output available when screws are ready for auto machines
- Record screw feeding quantity
- Feeding speed and feeding delay are adjustable
- Dimensions (WxDxH): 125 x 202 x 150mm
- Weight: 3.5 kg (approximately)

Fixing Assembly ECS15C

Specifications:

Model	Input Voltage	Output Voltage	Applicable Screws	Applicable Length	Volume
EC65A	AC100~240V, 50Hz	DC15V/1.5A	M1.0 ~ M5.0	$\leq 15\text{mm}$	0.15L

ECS66A Screw Feeder for Screw length upto 18mm



Features:

- Lead rail and rotary feeding table can be adjusted and replaced for screws M2.0 ~ M6.0 with length upto 18mm
- Volume 0.45L, maximum 1800 pcs of M3x8 pan-head screws can be put inside
- Reliable screw feeding, feeding speed 50-80 pcs/min
- Precise feeding, repeatability $\pm 0.02\text{mm}$
- Signal output available when screws are ready for auto machines
- Record screw feeding quantity
- Feeding speed and feeding delay are adjustable
- Dimensions (WxDxH): 165 x 265 x 180mm
- Weight: 4.8 kg (approximately)

Fixing Assembly ECS15D

Specifications:

Model	Input Voltage	Output Voltage	Applicable Screws	Applicable Length	Volume
EC66A	AC100~240V, 50Hz	DC15V/1.5A	M2.0 ~ M6.0	$\leq 18\text{mm}$	0.45L

Dehumidifying Dry Storage Cabinet Model IDSC-180-2D-1050

INDE
reliable & caring since 1976

ESD Safe • Powerful Desiccators for fast recovery • normally immediate delivery

Wide applications of ESD Safe Dehumidifying Dry Storage Cabinets for safe storage of:

Moisture Sensitive IC Packages, assembled & bare PCBs, Silicon Wafers, Solar Cells, Ceramic Substrates, Surgical Instruments, Pharmaceuticals samples, Video Tapes, Micro Films, Camera Lenses and Cameras, Tea Samples, Coffee Samples, Night Vision Equipments, Seed samples etc.



Features:

- Capacity: 180 litres (approx.)
- Tampered Toughened Glass Windows
- Digital Display for Temperature and Humidity
- Humidity Controller maintains stable RH Level
- Accuracy: $\pm 3\%$ RH (It is not $\pm 3\%$)*

* If the set humidity is 10%RH. Then the actual value will be within 7%RH & 13%RH. If it is set at 25%RH then actual value will be within 22%RH & 28%RH.

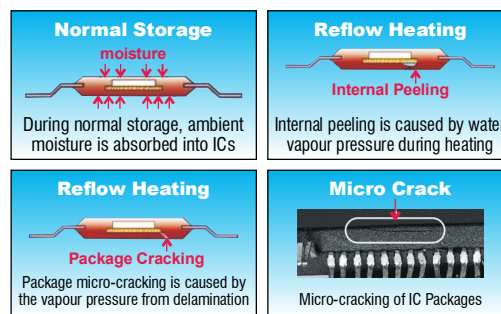
Specifications:

Humidity Range	: 10% ~ 50%RH
Humidity Technique	: Semi-permanent dry desiccant
Internal Dimensions	: 398W x 370D x 1225H mm approx.
External Dimensions	: 400W x 400D x 1395H mm approx.
Material	: Cold Roll Steel with Black Paint
No. of Doors/Shelves	: 2 Doors/5 Shelves
Input Supply	: 220V ~ 240V, 50Hz

ESD Safe Dehumidifying Storage Cabinets are must to maintain high reliability of Bare/Assembled PCBs, expensive SMD ICs & other components to avoid Micro Cracks, depanelling and delamination

Miniaturization in electronics field require use of expensive large size SMD ICs which are not only static charge sensitive but are also moisture sensitive. They need higher level of moisture control as otherwise they will have internal cracking during reflow process because of moisture expansion. Prevention lies in storing the same in ESD Safe and humidity controlled Dry Storage Cabinets.

Normally these defects occurs during reflow process. incase of lead free soldering process, risk of defects increases almost 3 times as the soldering temperature requirement is higher. To avoid these soldering process defects, all such moisture sensitive devices needs to be stored in humidity controlled cabinets.



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

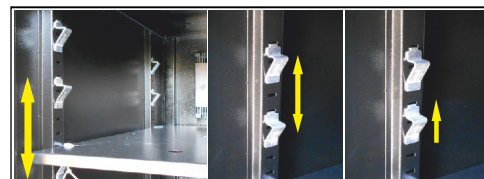
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Distance between 2 Shelves is adjustable as per requirement

The distance between shelves of this Dehumidifying Dry Storage Cabinet is adjustable as per requirement of stored articles. The Cabinet uses track design with detachable clamps to adjust the distance in steps of 2.54 mm. To adjust the distance, just lift the shelf to detach all the clamps. Fix the clamps again at required positions and place the shelf back on the clamps.

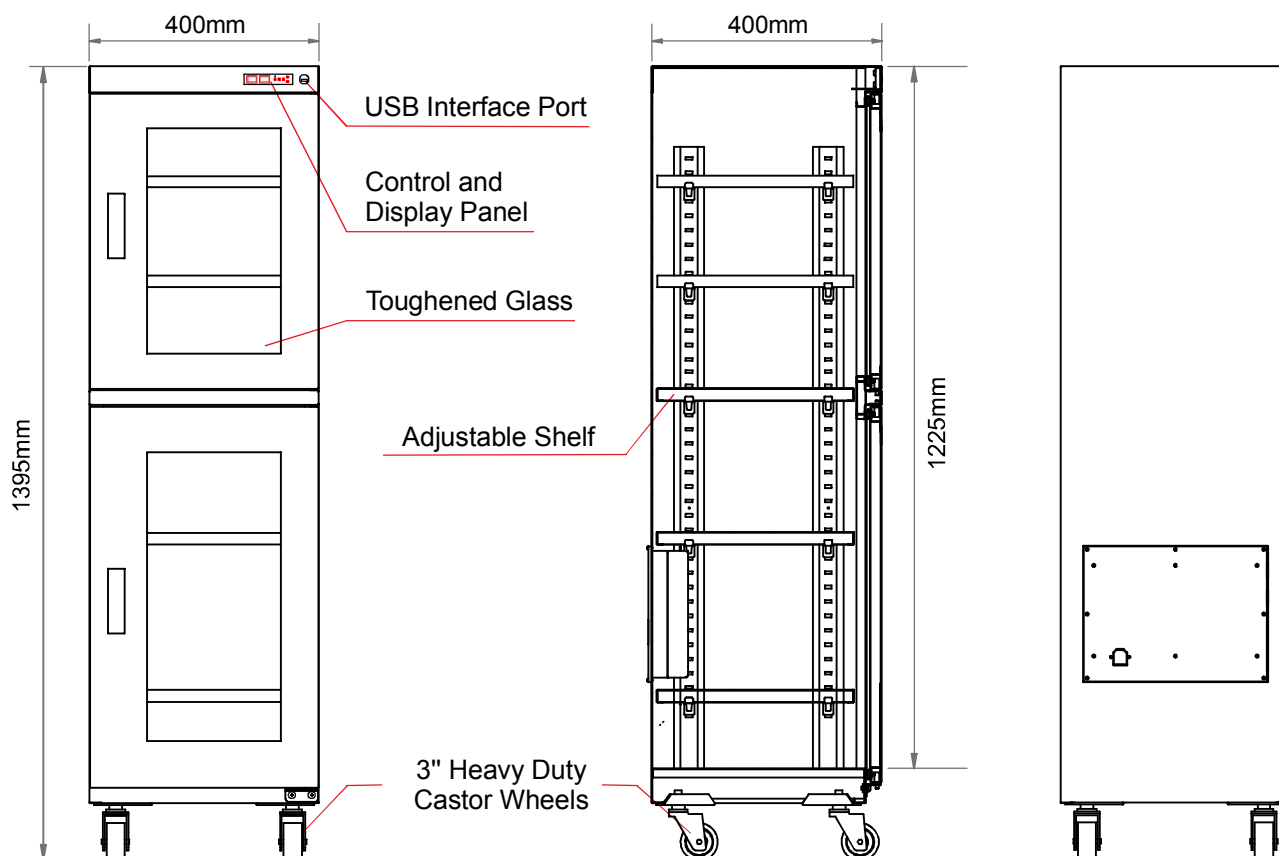


inside Humidity level can not be more than ambient humidity level Temperature will be ambient only and can not be controlled

This is a dehumidifying cabinet and not humidity generator. inside humidity %RH level can never be achieved beyond ambient humidity level for this reason. incase higher humidity is to be set, customer need to buy Humidity Chamber.

This is not a temperature cycling chamber, does not have forced heating and also refrigeration type cooling. For this reason, temperature can not be set and can not be controlled; displays ambient temperature as is inside the Cabinet.

Dimensional Drawing of Dehumidifying Dry Storage Cabinet



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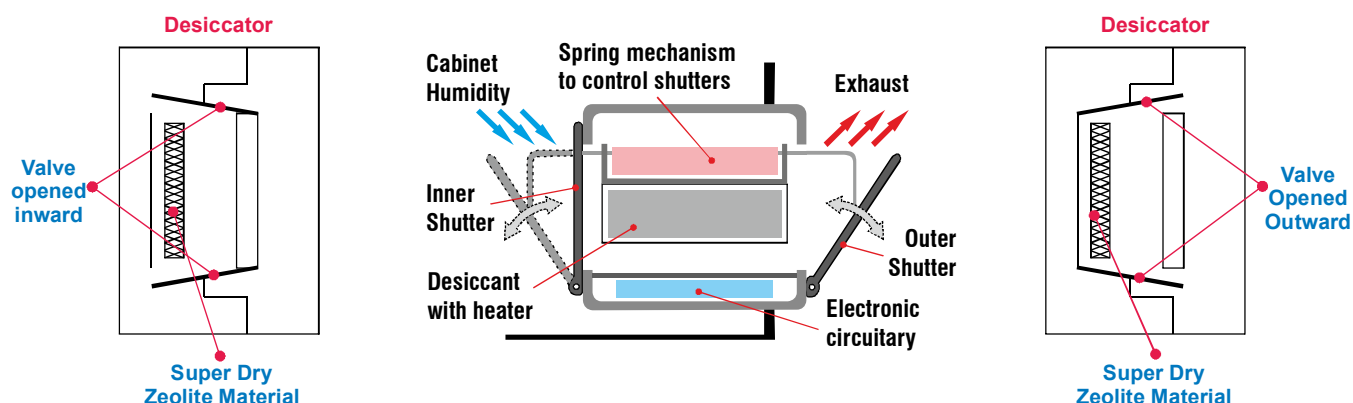
Desiccant based technology used in this Dehumidifying Dry Storage Cabinet is virtually maintenance-free. Zeolite material of desiccators does not virtually need any replacement

Desiccant technology uses highly porous crystalline material belonging to aluminosilicates class, called Zeolite. Zeolite desiccant is refreshed by controlled heating and allows the trapped moisture in it to escape thru the vents located at the back side of the Cabinet. Once Zeolite desiccant material is refreshed thru heating, it seals off the back side vents and opens to the interior side for dehumidification to set level as programmed. The dehumidification level inside is continuously compared to the preset level till it achieves the desired RH level.



Zeolite material

Re-heating of the Zeolite desiccant material starts only when the humidity inside the cabinet exceeds the absorption capacity of Zeolite drying material. Normally the re-generation of the Zeolite desiccant material thru just 8 minutes heating, suffices for many weeks of dehumidification process.



Absorption Stage: Valves are opened inward and closed outward in order to absorb moisture from the Cabinet and stored articles to maintains the set humidity with repeated process

Exhaustion Stage: Valves are closed inward and opened outward in order to exhaust moisture from saturated desiccators to atmosphere outside the dehumidifying dry cabinet

User never needs lower than 1%RH step settings

Accuracy of humidity level is $\pm 3\%RH$ (and not $\pm 3\%$). If set humidity is 10%RH, then actual value will be within 7%RH and 13%RH. If it is set at 25%RH, then actual value will be within 22%RH & 28%RH. If it is set at 50%RH, then actual value will be within 47%RH & 53%RH. For this reason user never needs lower than 1%RH step settings.

No Spare Parts and No AMC is required for this Dehumidifying Dry Storage Cabinet

As explained above, this desiccant based technology works for years together reliably, without replacement of Zeolite material at all. For this reason, user neither needs any spare parts nor any annual maintenance contract.

Why user does not need any installation and operation training ?

This Dehumidifying Dry Storage Cabinet merely needs Mains AC Power Supply switching ON. User need to set %RH level as he wants from the front panel. The Cabinet will start working. Few points worth practicing are:

- 1) Dehumidifying Cabinet should not kept near an air outlet such as air conditioning slot, exhaust fan slot, under the fan, near the door etc. also these should not be kept under direct sunlight in the room. These will affect the stability of Humidity Control.
- 2) Ensure at least 20 cm gap between Dehumidifying Cabinet and any nearby wall.

How to achieve low humidity level and higher humidity level inside the Cabinet

For achieving higher humidity level, user should switch ON only one (main) desiccator. For achieving lower humidity level, user must switch ON all 4 desiccators together. As an example for achieving humidity range between 45 ~60 %RH, user should switch ON 1 desiccator only; for humidity range between 30~45%RH, user should switch ON 2 desiccators only; for humidity range between 15~30%RH, user should switch ON 3 desiccators; for humidity range between 1~15%RH, user should switch ON all 4 desiccators.

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SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	509 Army Base Workshop, Agra	3	35	Encardio-Rite Electronics(P) Ltd. Lucknow	2
2	Aamstech Solution, Coimbatore	1	36	F. J.Tech Pvt. Ltd., Bangalore	1
3	ACD Communications Pvt.Ltd. Hyderabad	1	37	Gallium Arsenide Eanabling Tech. Centre, Hyderabad	5
4	Aforeserve Comm Ltd.,Bangalore	2	38	Goodrich Aerospace Services Pvt. Ltd., Bangalore	5
5	Air Force Station, Pune	1	39	GVK Metal Form (P) Ltd., Jalandhar	5
6	Alligator Designs Pvt. Ltd. Bangalore	1	40	Hindustan Aeronautics Ltd., Hyderabad	38
7	Alan Electronic Systems Pvt. Ltd., Ambernath	4	41	Hindustan Aeronautics Ltd., Korwa	57
8	Amar Raja Batteries Ltd., Karakambadi	1	42	Hi-Rel Tech Private Limited, Hosur	1
9	Ananth Technologies Ltd., Hyderabad	5	43	Indian Institute of Science Education & Research, Mohali	3
10	Apex Electronics, Secunderabad	6	44	Indian Institute of Technology, Chennai	1
11	Applied Electro-Magnetics Pvt. Ltd., Noida	1	45	Indian Institute of Technology. Hyderabad	5
12	Autotech Systems Pvt. Ltd., Bangalore	1	46	Indian Institute of Technology. Mumbai	2
13	Axiom Research Labs Pvt. Ltd. Bangalore	7	47	Indian Institute of Technology, Roorkee	2
14	Bharat Electronics Ltd.-Jalahalli, Bangalore	61	48	Infineon Technologies India Pvt. Ltd., Bangalore	1
15	Bharat Electronics Ltd., Chennai	11	49	Institute of Plasma Research, Gandhinagar	1
16	Bharat Electronics Ltd., Ghaziabad	2	50	Ind Sphnix Precision Ltd., Parwanoo	1
17	Bharat Electronics Ltd.-Kotdwara	6	51	Innove3D Private Ltd., Pune	1
18	Bharat Electronics Ltd., Panchkula	3	52	Iqor Global Services Pvt. Ltd., Gurgaon	2
19	Bharat Electronics Ltd., Machilipatnam	2	53	Instruments Research & Development Estt., Dehradun	6
20	Bharat Dynamics Ltd., Visakhapatnam	3	54	ISRO Inertial System Unit, Trivandrum	13
21	Blue Chip Electronics, Secunderabad	1	55	KELTRON, Trivandrum	4
22	Bluechip Infotech, West Bengal	1	56	KMV Vacuum Technologies, Bangalore	1
23	BEL-Thales Systems Ltd., Bangalore	2	57	Kokuku Intech India Pvt. Ltd., Alwar	1
24	Centum Electronics Ltd. Bangalore	1	58	Liquid Propulsion Systems Centre, Trivandrum	10
25	Computronic Sales Corporation Allahabad	1	59	Locolines, Vijaywada	4
26	Centre for Development of Telematics, New Delhi	1	60	Logic Solutions, Ernakulam	3
27	Centre for High Energy System and Sciences (CHESS)	1	61	Lucas-TVS Limited, Pondicherry	1
28	Cinehive Web Technologies Pvt. Ltd. Chennai	4	62	Maestros Electronics & Telecomn System Ltd., Mumbai	1
29	China Steel Corporation India Pvt. Ltd.	1	63	Mar Baselios College of Engineering, Trivandrum	1
30	Continental Automotive Brake Systems, Gurgaon	3	64	Maytech Systems, Hyderabad	1
31	D-Link (India) Ltd., Karnataka	1	65	Meenakshi Metal Forms, Pune	1
32	Delta Electric Corporation, Channai	1	66	Merritronix Pvt. Ltd., Hyderabad	1
33	Electro-Scientific Solutions, Agra	2	67	Micropack Pvt. Ltd., Bangalore	1
34	Electronics & Radar Development Estt., Bangalore	3	68	Motherson Sumi Systems Ltd., Noida	1

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69	MRM Procom Pvt. Ltd., Faridabad	1	103	Toshiba Transmission & Distribution, Medak Distt. (TG)	1
70	O/E/N Connectors Limited, Ernakulam	1	104	Trident Infosol Pvt. Ltd., Bangalore	1
71	Olympus Medical Systems India Pvt. Ltd., Gurgaon	6	105	Tyrtix Technologies Pvt. Ltd., Bangalore	1
72	PCP Electronics (P) Ltd., Mysore	1	106	Vanmadhav Moolchand Suppliers, Kanpur	1
73	Physical Research Laboratory, Ahmedabad	3	107	Vikram Sarabhai Space Centre, Trivandrum	53
74	Prima Hikvision India Pvt. Ltd., Palghar	4	108	Young India Power Pvt. Ltd., Kolkata	1
75	Quantum SMT Technologies Pvt. Ltd., Gurgaon	1			
76	Raja Ramana Centre for Advanced Technology, Indore	10			
77	Rajshree Electro-Systems, Thane	2			
78	Raman Research Institute, Bangalore	1			
79	BARC thru Rajshree Electro-Systems, Thane	2			
80	Rashi Peripherals Pvt. Ltd., Chandigarh	3			
81	Refurb Tech, Chennai	1			
82	Research Centre Imarat, Hyderabad	2			
83	Saalf Tech Pvt. Ltd., Mysore	1			
84	Sahajanand Laser Technology Ltd., Gandhinagar	1			
85	Salzer Electronics Ltd., Unit-II, Coimbatore	1			
86	Secure Meters Ltd., Udaipur	1			
87	Sai Techno Vision, Panvel	1			
88	Sentec India Co. Pvt. Ltd., Manesar	1			
89	Shakti Pumps (India) Limited, Pithampur	1			
90	S. H. Enterprises, Mumbai	1			
91	Shiv Nanadar University, UP	27			
92	Sidhi Vinayak Enterprises, Chennai	1			
93	Sivavasu Industries, Trivandrum	1			
94	SLN Technologies Pvt. Ltd., Bangalore	1			
95	Solid State Physics Laboratory, Delhi	2			
96	Space Application Centre, Ahmadabad	4			
97	Spectrum Infotech Pvt. Ltd., Bangalore	2			
98	SS Technology, Mysore	1			
99	Sumitron Exports Pvt. Ltd., Delhi	1			
100	TAK Technologies Pvt. Ltd., Noida	2			
101	The Controller of Stores & Purchase, Thiruvananthapuram	1			
102	Thermosystems, Trivandrum	1			

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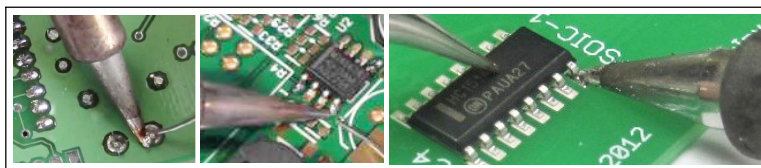
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Low capital investment + low running cost, uses lower priced Soldering Tips

Few 1000's working reliably all over India in repeat...repeat orders with high quantity users. See partial user list enclosed here. Main Control/Display PCB does not fail which customers frequently face with light weight competitors' Soldering Stations. Much lower priced high quality Soldering Tips available with immediate delivery as we keep high quantity in stock.



[Click here to view Video](#)



Specifications

- Power : 90 Watts
- Input Supply : 230 VAC, 50 Hz
- Temperature Range : 80°C ~ 480°C
- Temperature Stability : $\pm 2\%$ of final value
- Tip to Ground Potential : < 2mV
- Tip to Ground Resistance : < 2 Ohm

Optional SMD Thermal Tweezer ITW50 can be connected with Controller for reworking of SMD Chip Capacitors, Chip Resistors, SOD Diodes, SOT Transistors and SOICs

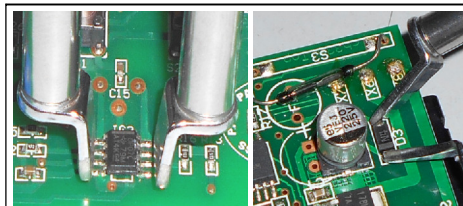
Specifications

- Power : 50 Watt
- Input Supply : 220VAC, 50Hz
- Temperature Range : upto 480°C



Features

- Twin-tube Tip Inserts heat SMD Chip components directly without disturbing adjacent components.



How it works:

1. Switch ON Power and set desired temperature.
2. Grip the chip component and hold for few seconds till solder melts
3. Pick up chip component.

LED Digital Display

Rugged 3-digit 7-segment LED display for SET and ACTUAL temperatures
Displays actual temperature



Password Protection

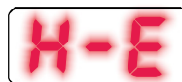
The Soldering Station has provision of password locking. After password locking, operator cannot change the programming parameters

Temperature Offset for Calibration

The Soldering Station has in-built digital temperature offset provision during calibration to meet ISO9000 requirements. Customer does not need to open the unit and adjust the trim pots.

Error Messages

The Soldering Station has self diagnostic feature. It displays the fault of the Soldering Pencil. If the display shows H-E, it means Heating Element is faulty. And if it shows S-E, it means Temperature Sensor is faulty.



Scope of Supply

- Power & Control Unit
- Soldering Pencil fitted with Soldering Tip
- Iron Holder with Cleaning Sponge


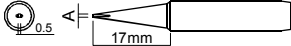

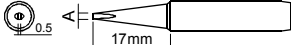





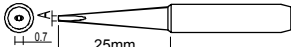

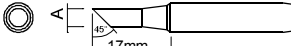

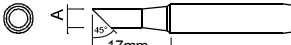









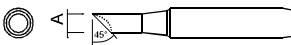


Variety of SMD Tip inserts to suit different components

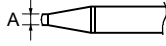


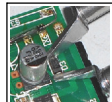
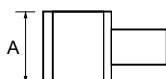


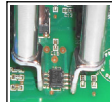
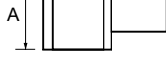





Low capital investment + low running cost, uses lower priced Soldering Tips

Wide range of Soldering Tips for different soldering applications

Description	Actual Picture	Dimensional Diagram	Width A (mm)	Part Number
Chisel Tip for leadfree soldering			0.8	960-T-0.8D
Chisel Tip for leadfree soldering			1.6	960-T-1.6D
Chisel Tip for leadfree soldering			2.4	960-T-2.4D
Chisel Tip for leadfree soldering			3.2	960-T-3.2D
Long Chisel Tip for leadfree soldering			1.2	960-T-1.2LD
Sloped Tip for Solar Panels			Ø3	960-T-3C
Sloped Tip for Solar Panels			Ø4	960-T-4C
Sloped Tip for Solar Panels			Ø5	960-T-5C
Round Tip for fine soldering			R0.5	960-T-I
Round Tip for fine soldering			R2.0	960-T-B
Knife Tip for SMD soldering			5.0	960-T-K
Tip for SMD Soldering			Ø3	960-T-3CM

Useful Tip Inserts for SMD Thermal Tweezer ITW50 for reworking of SMD Chips and SOICs

P/N	Size (A)	Diagram	Shape	Applicable for
A1388	1.5mm			SMD Chips  
A1380	8mm			8 Pin SO ICs  
A1384	20mm			20 Pin SO ICs  

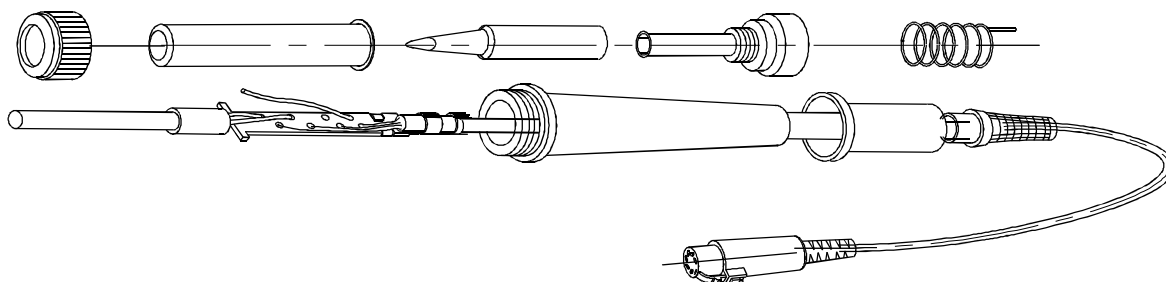
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Low capital investment + low running cost, uses lower priced Soldering Tips

Assured availability, normally ex-stock, of Spare Parts for Soldering Pencil



Description	Actual Picture	Remarks
DSP36 Soldering Pencil		Whenever required
Barrel & Nut Assembly		Whenever required
Heater Enclosure		Whenever required
Heating Element		Replace if display shows H-E/S-E
Cord with Connector		Whenever required
Connector Assembly		Whenever required

Low Cost and popular Digital Calibration Meter for Soldering Stations

P/N: I191-AD

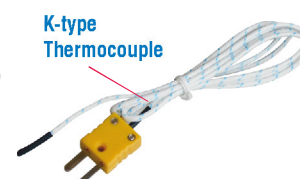
- Measures soldering tip temperature quickly
- Auto shut-off, MAX HOLD functions
- Both Celsius and Fahrenheit types readings possible.
- K-type & Star type thermocouples for surface and tip temperature measurement

Specifications

- Resolution : 1°C (1°F)
- Measurement Range : 0~800°C (32~1500°F)
- Accuracy : ±5°C (±10°F)
- Sensor : K-type Thermocouple
- Battery Indication : Alarm
- Power Supply : 9 Volt DC Battery
- Dimensions/Weight : 147x35x85mm/250 grams (approx.)

Scope of Supply

- Digital Calibration Meter
- K-type Thermocouple
- Star type Temperature Sensors set of 10 pcs



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Partial User References (not complete list) of our DSS36 Soldering Station

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	509 Army Base Workshop, Agra	1	48	Blue Chip Electronics, Secunderabad	281
2	Aadd Technologies Pvt. Ltd.	4	49	Raja Rammana Center for Advanced Technology, Indore	1
3	Accel Systems, Pune	2	50	Bandesha Enterprises	1
4	Accelor Microsystem, Chandigarh	1	51	Center Industriels Ltd., Mumbai	2
5	Ace Sales Corporation, Faridabad	5	52	Century LED Ltd., Howrah	61
6	Adarsha Workshop, Bangalore	1	53	Cetronics Technologies Pvt. Ltd., Trivandrum	1
7	ACD Communication Secunderabad	1	54	Chara Technologies, Chennai	1
8	ADC India Communications Ltd., Bangalore	2	55	Champion Trading Co., Panchmahal (Gujarat)	4
9	ADI Electronics Manufacturing Tech. Pvt. Ltd., Bangalore	8	56	Chloride Power Systems and Solutions Ltd., Kolkata	1
10	Adroit Control Engineers Pvt. Ltd., Faridabad	6	57	CLS Industries, New Delhi	12
11	Air Force Station, Kumbhigram, Assam	2	58	Continental Automotive Comp. (I) Pvt. Ltd., Bangalore	2
12	All India Radio and Television, Chennai	1	59	Coramondal Electronics, Chennai	4
13	Allengers Medical Systems Ltd., Derabassi	20	60	Crompton Trading Co., Bangalore	2
14	Allengers Global Healthcare Pvt. Ltd., Baddi	6	61	C&S Electric Ltd., Noida	21
15	Alpha Design Technologies Private Ltd., Bangalore	4	62	Cyber Communication	3
16	Alpha Electronics, Jaipur	2	63	Cygni Energy Pvt. Ltd., Hyderabad	2
17	Amarjit Singh, Jalandhar	1	64	Cyient DLM Pvt. Ltd., Mandya	20
18	Altoo Research Pvt. Ltd., Gurgaon	2	65	Cypress Semiconductor Technologies P. Ltd., Bangalore	5
19	Ammini Energy Systems Pvt. Ltd., Kerala	3	66	Data Care Systems Pvt. Ltd., Bangalore	5
20	Amanpreet Singh, Bareilly	3	67	Data Care Networks, Bangalore	2
21	Amrita Research Lab.	3	68	DCIO, Imphal	1
22	Amatra Digital Gadgets Pvt. Ltd., Bangalore	3	69	Deciblepro Pvt. Ltd., New Delhi	1
23	Anand Industrial Enterprises, Bangalore	46	70	Deepak Enterprises, Ferozpur	3
24	Anshul Enterprises	1	71	Department of Atomic Energy, Chennai	5
25	Andy Solar P Ltd., Panchkula	11	72	Defence Electronics Applications Lab., Dehradun	1
26	Anuvidyut Private Ltd., Roorkee	6	73	Defence Electronics Research Laboratory, Hyderabad	1
27	Apex Electronics, Secunderabad	2	74	Delta Systems	2
28	Apex Electronics, Solan	9	75	Dinesh Electronics, Coimbatore	1
29	Applied Technosystem, Gurgaon/Faridabad	4	76	Rotex, Vadodara thru Divine Techno Engineers	2
30	Aparajita Electronics	5	77	Matrix Telecom, Vadodara thru Divine Techno Engineers	10
31	Arcomm Tech Solutions Pvt. Ltd., Chennai	2	78	Divine Techno Engineers, Vadodara	36
32	Aristocrat Technology India Pvt. Ltd., Noida	2	79	Durga Communication	1
33	Army Base Workshop, Akhnoor	4	80	Dynalog India Ltd., Mumbai	2
34	Army Field Workshop, Amritsar	1	81	Dynamic Trading Co., Pathankot	1
35	Army Field Workshop, Manipur	1	82	Ecotech Industries Pvt. Ltd., Pithampur	1
36	Ascension Electronics, New Delhi	1	83	EEO Insta Power Pvt. Ltd., Alwar	19
37	Asquire Automation Systems, Faridabad	1	84	E6 Energy, Mohali	3
38	Avnet India Pvt. Ltd., Bangalore	1	85	Electrical Controls & Systems (Unit-II), Vadodara	26
39	Aya Singh, Chandigarh	1	86	Electronic Relays (India) Pvt. Ltd., Bangalore	31
40	Bagla Electricals and Electronics Pvt. Ltd., Aurangabad	1	87	Eltrac Technologies Pvt. Ltd., Bangalore	2
41	Balaji Sales, Indore	13	88	Embedded Controls, Mohali	16
42	Beas Hospital, Beas	2	89	EME Workshop, Delhi Cantt	1
43	BG-LI-IN, Aurangabad	2	90	EME Workshop, Meerut	3
44	BG Tronics, Hyderabad	1	91	EME Workshop Tumulpur Assam	1
45	Bharat Electronics Ltd., Bangalore	1	92	Emmvee Photovoltaic Power Pvt.Ltd., Bangalore	4
46	BioGenex Lift Sciences Pvt. Ltd., Hyderabad	1	93	EON Electric Ltd., Haridwar	10
47	Bits N Bytes Soft Private Limited, Gurgaon	4	94	Epcos India Private Limited, Nashik	104

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SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
95	E Power Technologies Pvt. Ltd., Bangalore	1	142	Indian Institute of Science, Bangalore	1
96	Ess Dee Industries, Aurangabad	3	143	Indian Institute of Science Education & Research, Mohali	1
97	ESS ESS Enterprises, Fazilka	3	144	Indian Institute of Technology, Chennai	29
98	ETOE Interconnections Pvt. Ltd., Bangalore	6	145	Indian Institute of Technology, Kanpur	1
99	Excel Autocomp Industries Pvt. Ltd., Chakan	1	146	Indian Institute of Technology, Roorkee	2
100	Excel-Par Electronics Pvt. Ltd., Mysore	2	147	Icomm Tele Ltd., Hyderabad	1
101	Ever Electronics Pvt. Ltd., Pune	10	148	IND Micro Devices, Kolkata	4
102	Evitha, Bangalore	2	149	India Metalman Software Pvt. Ltd., Chennai	1
103	Filatech Enterprises Pvt. Ltd., Gurgaon	3	150	Indian Institute of Technology, Varanasi	1
104	Finlabs Audio (P) Ltd., Mohali	2	151	Innovative Solution, Chennai	1
105	Flin Technology Pvt. Ltd., Mumbai	1	152	Instruments Research Associates Pvt. Ltd., Bangalore	6
106	Garden Reach Shipbuilders & Engineers Ltd., Kolkata	6	153	JSN Solutions, Gandhinagar	1
107	Gautam Solar Pvt. Ltd.	16	154	Jassi Electronics	1
108	Genus Innovation Limited, Haridwar	6	155	JST Enterprises, Chennai	5
109	Genus Power Infrastructures Ltd., Haridwar	139	156	JV Enterprises, Bangalore	2
110	Genus Power Infrastructures Ltd., Guwahati	19	157	Jyoti Electrocom, Kolkata	1
111	Genus Power Infrastructures Ltd., Jaipur	30	158	KC Electro Lab	1
112	Gilbarco Veeder Root India Pvt. Ltd., Coimbatore	1	159	Kaizan Switchgear Products, Vadodara	2
113	Global Electronics Solution Pvt. Ltd., Bangalore	2	160	Kalika Electricals & Electronics, Delhi	1
114	GM Solar Power, Bangalore	25	161	Kaynes Interconnection Systems (I) Pvt. Ltd., Bangalore	50
115	Girimaji Equipment, Bangalore	1	162	Kaynes Technologies India Pvt. Ltd., Mumbai	11
116	Gobind Electronic Controls, Ludhiana	1	163	Koti Systems, Bangalore	2
117	Goodrich Aerospace Services Pvt. Ltd., Bangalore	5	164	Konark Industria Pvt. Ltd., Bangalore	1
118	Green Brilliance Energy Pvt. Ltd., Vadodara	5	165	Krishna Traders, Amritsar	1
119	GreenPole Power Solutions, Bangalore	1	166	Army Workshop Patiala thru Lalit Gases, Patiala	1
120	Goyal Enterprises, Chandigarh	1	167	Lalit Kumar Jain, Agra	1
121	Gupta Mobile Shop, Ludhiana	1	168	Landis Gyr Ltd., Kolkata	9
122	Halonix Technologies Pvt. Ltd., Haridwar	2	169	Larsen & Toubro Ltd., Mysore	78
123	Hanuman Electronic Components Pvt. Ltd., Mumbai	1	170	Lifetex Medical Systems (P) Ltd., Mysore	1
124	Harness Overseas Pvt. Ltd., Mohali	1	171	Lineage Power (I) Pvt. Ltd., Bangalore	39
125	HCL Technologies Ltd., Chennai	4	172	Lansar Business Solutions, Surat	1
126	HD Medical Services (India) Pvt. Ltd., Bangalore	1	173	Lapp India Pvt. Ltd., Bangalore	1
127	Highline Engineers, Visakhapatnam	4	174	Luminous Power Technologies Pvt. Ltd., Baddi	75
128	Himachal Energy Private Ltd., Solan	44	175	Luminous Power Technologies Pvt. Ltd., Gagret	30
129	Himalyan Auto, Guwahati	2	176	Lapp India Pvt. Ltd., Bangalore	1
130	Hind Rectifiers Ltd., Mumbai	7	177	Mag Power, Pune	2
131	Hindustan Aeronautics Ltd., Bangalore	3	178	Margen Impex Ltd., Gujarat	1+3
132	Hindustan Aeronautics Ltd., Hyderabad	2	179	Mascot Marketing, Ahmedabad	1
133	Hindustan Aeronautics Ltd., Korwa	56	180	Melange Systems Private Ltd.-Bangalore	1
134	Hi-Rel Tech Private Ltd., Husur	1	181	Master Control Facility, Hasan	7
135	Honeywell Technology Solutions Lab Pvt. Ltd., Bangalore	2	182	Methode Electronics India Pvt. Ltd., Bangalore	3
136	HPL Electric & Power Pvt. Ltd., Sonapat	55	183	Mettwa Electricals & Appliances Pvt. Ltd., Delhi	2
137	H Ratilal & Co., Mumbai	4	184	Micronics, Hyderabad	5
138	Icomm Tele Ltd., Hyderabad	2	185	Micro Technologies, Mysore	1
139	IE Power Technologies Pvt. Ltd., Bangalore	2	186	Mikado Electronics, Kolkata	8
140	Imagin Technology, Bangalore	4	187	Mikronix Gauges Pvt. Ltd., Aurangabad	1
141	Incredible Advance Technologies Pvt. Ltd., Hyderabad	2	188	Mitsuba Sical India Ltd., Chennai	1

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189	Maxeye Technologies Private Limited, Bangalore	1	236	PT Communications Systems Pvt. Ltd., Delhi	3
190	Melange Systems Pvt. Ltd., Bangalore	2	237	PVR Controls, Mumbai	8
191	Modern Hi-Tech Systems, Chandigarh	1	238	Quntum Power Systems	2
192	Modi International, Guwahati	1	239	Rahul Vijayaraghavan, Bangalore	1
193	Molex India Pvt. Ltd., Bangalore	12	240	Rainbow Denim Limited, Lalru	1
194	Monolithic Power Systems, Bangalore	1	241	Mazagaon Dock Ltd., Mumbai	10
195	Moser Baer India Limited, Noida	7	242	Bhabha Atomic Research Center, Mumbai	9
196	Motherson Sumi Systems Ltd., Faridabad	1	243	Raja Ramanna Centre for Advance Technology, Indore	2
197	Motherson Sumi Systems Ltd., Noida	2	244	Rajshree Electro-Systems, Thane	15
198	Mr. Karan Sekhri, Jammu	2	245	R K Enterprises, Bangalore	1
199	MRM Procom Pvt. Ltd., Faridabad	5	246	Ramtel Solution, New Delhi	5
200	Multilink, Mysore	5	247	Rangsons Electronics Pvt. Ltd., Mysore	24
201	Multitech, Pathankot	2	248	ReNew Services Pvt. Ltd., Bhopal	2
202	Army Workshop Jammu	7	249	RenewSys India Pvt. Ltd., Hyderabad	1
203	Mr. Prasanth Nair, Nellore	1	250	Rensyn Green Energy Private Limited, Udaipur	1
204	Mr. Venkat, Bangalore	2	251	Revon Computer, Chandigarh	1
205	Mr. Vikas, Chandigarh	2	252	RK Fabricators, Bangalore	1
206	MRO-TEK Limited, Bangalore	3	253	Rise Appliances Pvt. Ltd. Noida	5
207	Multilink, Mysore	7	254	Rishab Industries, Goa	1
208	Nahar Industrial Enterprises Ltd., Lalru	2	255	Rishi Spinning Pvt. Ltd., Chennai	1
209	Northsun Solar Corporation, Mohali	1	256	RIZZIN Technology Pvt. Ltd., Bangalore	3
210	Next Generation Systems	2	257	Robert Bosch Engg. & Business Solutions, Bangalore	1
211	NTEX Marketing	1	258	R.R. Engineering & Consultants, Bilaspur	1
212	Nucon Aerospace Pvt. Ltd., Hyderabad	1	259	Rudra Microwave Products, Hyderabad	4
213	Nutronix Corporation, Ahmedabad	11	260	Saalf Tech. Pvt. Ltd., Mysore	13
214	O/E/N India Ltd., Ernakulam	1	261	Salzer Electronics Ltd., Coimbatore	5
215	Om Agencies, Kanpur	1	262	Sambe Electronics Pvt. Ltd., Nashik	42
216	Orange Sorting Machines India Pvt. Ltd., Coimbatore	1	263	Saatvik Green Energy Pvt. Ltd., Ambala	26
217	Orbit Tele Systems, Amritsar	1	264	Sangeeta Electronics, Chandigarh	1
218	Panacea Medical Technologies Pvt. Ltd., Karnatka	1	265	Saugata Ghosh, Kolkata	3
219	Paras Wires Private Ltd., Bangalore	2	266	Sankalpa Lighting Solution LP, Secunderabad	5
220	Pavan Supply Corporation, Assam	24	267	Sanghwal Sales Corp., Pathankot	3
221	Pearl Electronics and Power System, Roorkee	1	268	Saurer Textile Solutions Pvt. Ltd., Ahmedabad	13
222	Peninsula Electronics, Bangalore	14	269	Saurer Textile Solutions Private Limited, Mohali	8
223	Perto India Pvt. Ltd., Jaipur	10	270	Saurer Textile Solutions Pvt. Ltd., Coimbatore	10
224	Phoenix Contact India Pvt. Ltd., Palwal	2	271	SBOA School & Junior College, Tamil Nadu	1
225	Powermate Devices, Pune	4	272	Schneider Electric India Pvt. Ltd., Bangalore	1
226	Power & Controls, Kolkata	2	273	Secure Meters Ltd., Udaipur	1
227	Prasad Sales & Marketinig, Rajathan	1	274	Sedemec Machatronics Pvt. Ltd., Pune	31
228	PRADEEP KUMAR, Ludhiana	3	275	SGS Tekniiks Manufacturing Pvt. Ltd., Manesar	1
229	Premier Electronics	1	276	Shapetronics Services Pvt. Ltd., Mysore	2
230	Prince Switchgear, Ankleshwar	1	277	Shalin Anand SLD, Chandigarh	1
231	P. S. Computers, Pathankot	1	278	Shree Pooja Industries, Mumbai	1
232	Pulse Engineering, Mohali	1	279	Shree Raghavendra Technical Services Ltd., Ahmedabad	1
233	Pushwinder Singh	1	280	Shreesai Enterprises, Palghar Maharashtra	15
234	Probus Smart Things Pvt. Ltd., New Delhi	4	281	Shree Pactronix Ltd., Pathampur	1
235	Proteck Machinery Pvt. Ltd., Chennai	2	282	Shri Balaji Enterprises, Ferozpur	1

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284	Shiv Nadar University, Noida	5	331	Versabyte Data Systems Pvt. Ltd., Bangalore	8
285	Shiv Sales, Zirakpur	1	332	V-Guard Industries Limited, Cochin	4
286	Shree Pacetronic Ltd., Pithampur	2	333	V-Guard Industries Limited, Coimbatore	1
287	Silk Fabric and Fashions, Salem	1	334	Vidya Academy of Sci. & Tech., Thiruvananthapuram	6
288	Shylendra Electronics, Bangalore	1	335	Vikas Instruments, Kolkata	15
289	SIET Transformers Pvt.Ltd.,	2	336	Victor Services Media Shop, Jalandhar	1
290	Siricom Techonologies Pvt. Ltd., Bangalore	1	337	Vinyas Innovative Technologies Pvt. Ltd., Mysore	45
291	Skanray Technologies Pvt. Ltd., Bangalore	3	338	Volvo India Pvt. Ltd., Bangalore	1
292	SNA Power Engg. Pvt. Ltd., Chandigarh	1	339	Vyoda Pvt. Ltd., Mysore	2
293	SNS Industries, Bangalore	4	340	Walnut Medical Pvt. Ltd., Ambala	6
294	Society for Integrated Circuit Technology, Bangalore	1	341	Wylie Indicators Limited, Ghaziabad	2
295	Solana Solar Power, Bangalore	10	342	Yokogawa India Ltd., Bangalore	2
296	Sonodyne International Pvt. Ltd., Mumbai	13	343	Zonje Solar LLP, Bangalore	15
297	Air Force Station Chandigarh	6	344	Zreyas Technology Private Limited, Kolkata	4
298	Solid State Physics Lab, Delhi	1			
299	SFO Technologies Pvt. Ltd., Cochin	3			
300	Solphin India Pvt. Ltd., Faridabad	1			
301	SPM Systems, Gandhinagar	1			
302	S.S Global Solutions	5			
303	SS Technologies, Mysore	1			
304	Standard Loadcells, Vadodara	2			
305	Suman Electronics, Thane	21			
306	Sumukha Solutions, Bangalore	1			
307	Surinder Kumar, Chandigarh	1			
308	Swiss Elmech Private Limited, New Delhi	7			
309	Synergy Enterprises, Chandigarh	2			
310	Syscon Instrumrnts Pvt. Ltd., Bangalore	1			
311	Tata Consultancy Limited, Bangalore	1			
312	Tata Elxi Ltd., Bangalore	1			
313	Technilab Instruments, Bangalore	5			
314	Teknix Electronics, Calicut	1			
315	Tescom, Bangalore	68			
316	Tessolve Semiconductor Pvt. Ltd., Bangalore	2			
317	The Motwane Manufacturing Co. Pvt. Ltd., Nashik	3			
318	Titan Company Ltd., Bangalore	1			
319	Transducers & Allied Products, Bangalore	2			
320	Triphase Technologies Pvt. Ltd., Parwanoo	14			
321	Trylo Industries, Surendranagar	1			
322	TSI Elecpower Pvt. Ltd., Vadodara	2			
323	TVS Training and Services Ltd., Chennai	6			
324	Tycon Innovations Technology, Mysore	4			
325	Tymtix Technologies Pvt. Ltd., Bangalore	1			
326	Unique Communication & Traders, Arunachal Pradesh	5			
327	Universal Traders, Zirakpur	1			
328	University & Institute of Advanced Research Gandhinagar	10			
329	U R Rao Satellite Centre, Bangalore	1			

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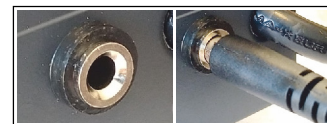
Very lightweight Soldering Pencil & easy-to-replace Plug-in type Heating Element

SINGLE Soldering Station for Lead Free, Fine Pitch SMD Chips, Solar Panel and Hi-power automotive & other components

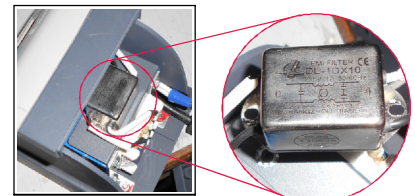
[Click here to view Video](#)



Integrated single piece Tip & Barrel fully encase Metallic Heating Element. This uniqueness results in high heat energy storage for faster heat transfer



Socket to connect the grounding wire to meet the ESD requirements is provided at the back side

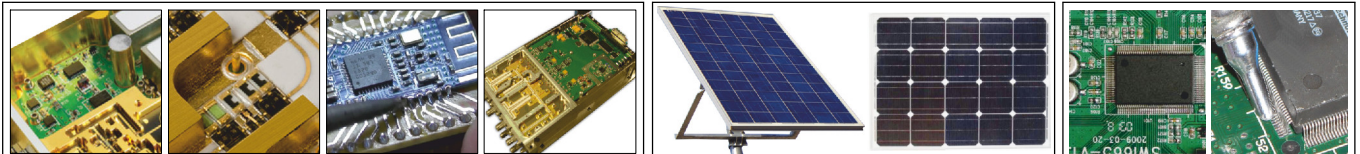


Main Power & Control Unit also has EMI & Surge Suppression Filter to suppress transients of mains power line.

Salient Features

- Power/Control unit has in-built following features:
 - Password protection
 - In-built temperature calibration
 - Sleep Timer for longer life
 - Error message indication
 - One touch temperature recalling
- Similar European Soldering Stations are 3 times costlier
- Reliable heating element does not require frequent changing
- Low running cost due to low priced/long life soldering tips
- Every spare part is available ex-stock to minimize down time.

Multiple soldering applications with SINGLE 120 Watt Soldering Station is suitable for highly reliable Aerospace soldering, SMD ICs, Solar Cells and High Mass soldering jobs



Aerospace high reliability soldering on Ceramic substrates Monocrystalline PV Solar Panel soldering Hi-end Leadfree Soldering

Model DSSLF120 is a **Value-For-Money (VFM)** Soldering Station with intelligent features as supervisor can program two most commonly used production process temperatures for instant recalling during operation. He can also lock limits of temperature range (i.e if he sets mode 01 or 11 for upper temperature limit of 400°C, operator cannot solder beyond that temperature). It displays both SET temperature and ACTUAL temperatures simultaneously. It also has in-built digital temperature offset calibration feature to meet ISO 9000 requirements. Unique integrated design of Soldering Tip, Barrel and complete encasing of Metallic Heating Element, provides reliable soldering joints with higher production rate.

Specifications

- Power : 120 Watts
- Temperature Range : 100°C ~ 500°C
- Temperature Stability : $\pm 2\%$ of final value
- Tip to Ground Potential : < 2 mV
- Tip to Ground Resistance : < 2 ohm

Features

- It has a password locking function
- Push-button control with an auto-sleep function
- Various types of long life Soldering Tips available

Scope of Supply

- ESD Safe Main Power & Control Unit
- ESD Safe light weight Soldering Pencil fitted with 200G-2.4D Chisel 2.4mm Soldering Tip
- Combined Dry & Wet Tip Cleaner Support Rack

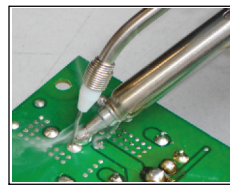
- Lightweight and comfortable for fatigue-free working
- Real and fully electrostatic safe ESD design
- in-built calibration feature to meet ISO requirements

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Very lightweight Soldering Pencil & easy-to-replace Plug-in type Heating Element

Add optional Auto Solder Wire Feeder to raise production rate & to avoid solder wire wastage



Solder Feeder and attachment for Soldering Pencil

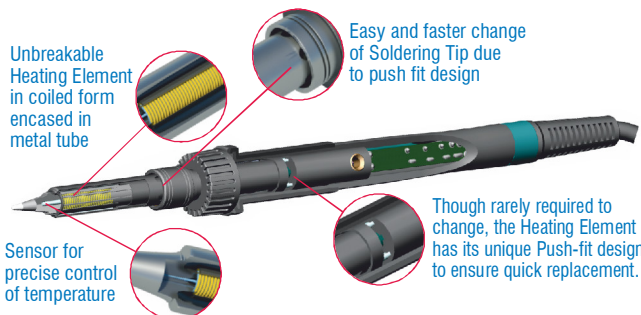
Standard type is for 0.8mm dia Solder Wire.

Also available for 1.0/1.2/1.6/1.8/2.0 mm

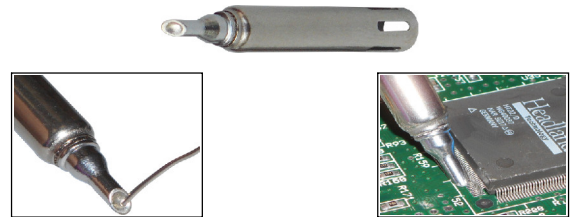
Today's highly competitive environment, always demand high possible productivity of each operators as well saving every paisa.

For such demanding requirements, the optionally available Auto Solder Feeder Model SFS81 with Digital Soldering Station DSSLF120 is the right choice. Besides increasing productivity of operator, it also provides consistent quality for each solder joint as same amount of solder wire with pre-programmed feeding is applied.

Unbreakable, far longer life & lower priced Heating Element of Soldering Pencil

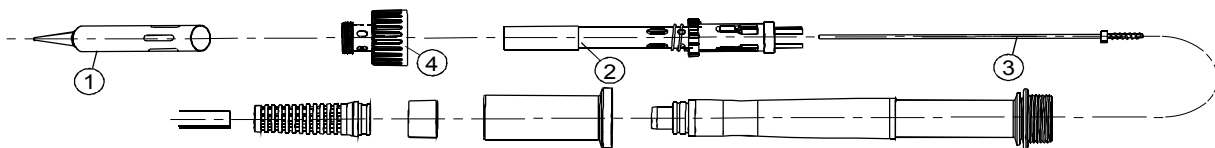


Unique Soldering Tip for soldering ultra-fine pitch large size SMD ICs



Specially designed 200G-CM SMD Soldering Tip has concave cavity to hold molten solder. It helps to solder one side of large size SMD IC completely in a single run by dragging Soldering Tip on all PCB pads smoothly to ensure bridge-less soldering

Assured availability (normally ex-stock) of Spare Parts for Soldering Pencil




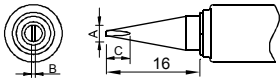

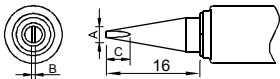

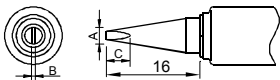

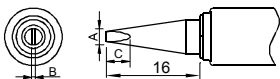

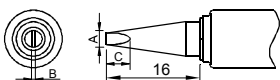

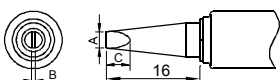

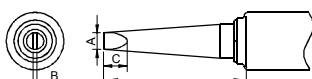

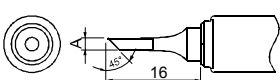

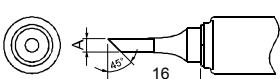



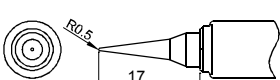

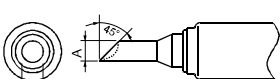
Description	Actual Picture	Remarks
DSPLF04A Soldering Pencil		Whenever required
② Heating Element		Replace if display shows H-E
③ Temperature Sensor		Replace if display shows S-E
④ Heater Enclosure		Whenever required
Cord with Connector		Whenever required

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Very lightweight Soldering Pencil & easy-to-replace Plug-in type Heating Element

Wide range of Soldering Tips are available for different soldering applications

Description	Actual Picture	Dimensional Diagram	Width A (mm)	Part Number
Chisel Tip for leadfree soldering			0.8	200G-0.8D
Chisel Tip for leadfree soldering			1.2	200G-1.2D
Chisel Tip for leadfree soldering			1.6	200G-1.6D
Chisel Tip for leadfree soldering			2.4	200G-2.4D
Chisel Tip for leadfree soldering			3.2	200G-3.2D
Chisel Tip for heavy mass soldering			4.2	200G-4.2D
Long Chisel Tip for heavy mass soldering			5.0	200G-5LD
Sloped Tip for Solar Panels			Ø3	200G-3C
Sloped Tip for Solar Panels			Ø4	200G-4C
Sloped Tip for Solar Panels			Ø5	200G-5C
Round Tip for Fine Soldering			Ø0.5	200G-B
Tip for SMD Soldering			2	200G-2CM

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts. 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.

shown trademarks are property of their respective owners.

Sl. No.	Customer's Name & City	Qty
1	ADI Electronics Manufacturing Tech Pvt. Ltd., Bangalore	6
2	Astra Microwave Products Ltd., RR Distt.	10
3	Blue Chip Electronics, Secunderabad	7
4	Greenfuel Energy Solutions Pvt. Ltd., Gurgaon	7
5	Hero Motocorp Ltd.,Jaipur	3
6	Hi-Rel Tech Pvt. Ltd., Hosur	1
7	Icon Power Solutions (P) Ltd., Gurgaon	1
8	Mersen India Pvt. Ltd., Bangalore	1
9	Nutec Urethane,Bangalore	1
10	Salzer Electronics Ltd. ,Coimbtour	2
11	Sark Telecom,New Delhi	1
12	Sasmos HET Technologies Pvt. Ltd., Bangalore	11
13	Saurer Textile Solutions Private Limited, Mohali	1
14	Saurer Textile Solutions Pvt. Ltd, Ahmedabad	1
15	Sealed Energy Systems, Ambala Cantt	4
16	Secure Meters Limited, Udaipur	10
17	Skanray Technologies Pvt. Ltd.,Mysore	1
18	Syrma Technology Pvt. Ltd., Barpur, Krishnagiri	40
19	Syrma Technology Pvt. Ltd., Bawal	5
20	Syrma Technology Pvt. Ltd.,Chennai	282
21	Tessolve Semiconductor Pvt. Ltd., Bangalore	5
22	United Telecom Limited., Bangalore	6
23	Wings Automobile Products Pvt. Ltd.,Faridabad	22

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts. 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.

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Hi-Power 150 Watt Digital Soldering Station Model DSSHPO3G

INDE
reliable & caring since 1976

Custom designed Soldering Tips can be also made on special request with MOQ.

150 Watt high power for heavy soldering applications, affordably priced for production line use

Micro-controller based Control Unit with close loop precise PID temperature control

Digital display of temperatures

Pushbuttons for precise temperature control

Heavy Duty Wobble-free Holder for Soldering Pencil

Metal Wool Dry Cleaner

Light Weight 150 Watt Soldering Pencil

Plug-in type Heating Element for easy change-over

[Click here to view Video](#)

Our 150 Watt Soldering Station DSSHPO3G is far far reliable (Heating Element life and Circuit Board) than available in market at lower price but of low quality. Many customers later replaced low cost, low quality types with our Model DSSHPO3G Soldering Station



Power Capacitors soldering



Solar Panels & Cells reliable soldering



High Mass Automotive Components soldering



Model DSSHPO3G Soldering Station is best value-for-money in place of investing in 3~4 Soldering Stations as this one single Soldering Station is adequate to achieve similar production rate because of its faster thermal recovery and higher heat power. Additionally it has higher temperature range upto 500°C to do heavy mass type soldering jobs. Other features are: In-built Temperature Off-Set for Digital Calibration to meet ISO requirements, in-built function of Auto-Sleep and Auto Shut-Off which get activated automatically. Upto 16 mm wide Chisel type Soldering Tips are available. Supervisor can lock the optimum process temperature so operator cannot change.

Specifications

- Power Consumption : 150 Watt, 220V/50Hz
- Temperature Range : 50°C ~ 600°C
- Temperature Stability : $\pm 2\%$ of final value
- Tip to Ground Resistance : $< 2\Omega$
- Tip to Ground Potential : $< 2\text{mV}$
- Dimensions(LxWxH) : 200 x 130 x 100mm

Scope of Supply




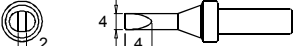



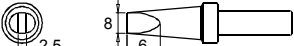

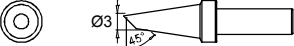



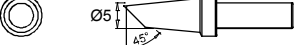

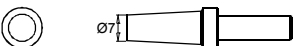
- DSSHPO3G Power & Control Unit
- DSP03G Soldering Pencil
- Soldering Tip
- Heavy Duty Support Rack
- Cleaning Sponge

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts. 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.

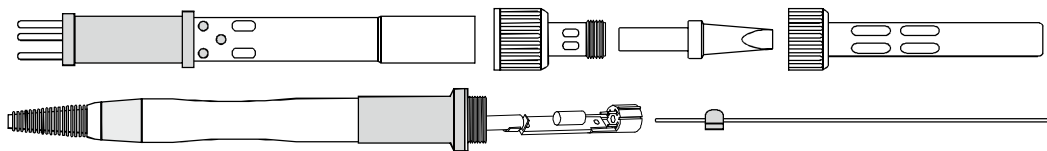
shown trademarks are property of their respective owners.







Custom designed Soldering Tips can be also made on special request with MOQ.

Wide range of Soldering Tips for normal to heavy mass soldering are available.

Description	Actual Photo	Dimensional Diagram	Width (mm)	Thick (mm)	Model
Chisel Tip for Leadfree soldering			3.5	2.0	500-3.5D
Chisel Tip for Film Capacitors			4.0	2.0	500-4D-03
Chisel Tip for Film Capacitors			5.0	2.5	500-5D
Chisel Tip for Film Capacitors			8	2.5	500-8D
Sloped Tip for Solar			Ø3	-	500-3C
Sloped Tip for Solar			Ø4	-	500-4C
Sloped Tip			Ø5	-	500-5C
Round Tip for Solar			Ø7	-	500-7P-1

Assured availability, normally ex-stock, of Spare Parts for Soldering Pencil



Description	Actual Picture	Remarks
DSP03G Soldering Pencil		Whenever required
Barrel & Nut Assembly		Whenever required
Heater Enclosure		Whenever required
Heating Element		Replace if display shows H-E
Temperature Sensor		Replace if display shows S-E
Cord with Connector		Whenever required

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts. 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.

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SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	ABB Limited, Bangalore	3	36	Genus Power Infrastructures Ltd., Guwahati	2
2	ACE Antenna India Pvt. Ltd., Kanchipuram	5	37	Genus Power Infrastructures Ltd., Jaipur	3
3	ADI Electronics Manufacturing	4	38	Genus Power Infrastructure Ltd., Haridwar	22
4	Aimtron Electronics Pvt. Ltd, Vadodara	2	39	Gilard Electronics Private Limited, Mohali	1
5	Akal Industion, Phagwara	1	40	Govindsons Intelligent Equipment Co., Ltd., Nashik	2
6	Alligator Designs Pvt. Ltd., Bangalore	1	41	Green Brilliance Renewable Energy LLP, Vadodara	6
7	Amphenol Interconnet India Pvt. Ltd., Bangalore	1	42	Harness Overseas Private Limited, Mohali	2
8	Avant Computer Technologies Systems, Mumbai	1	43	HPL Electric & Power Limited, Sonapat	4
9	Bagla Electricals and Electronics Pvt. Ltd., Aurangabad	2	44	HTL Limited, Chennai	3
10	Bharat Electronics Ltd., Pune	6	45	Icon Power Solutions (P) Ltd., Gurgaon	1
11	Bharat Electronics Ltd., Hyderabad	2	46	I-Workz Automotive Pvt. Ltd., Bangalore	2
12	Bharat Dynamics Ltd., Hyderabad	6	47	India Nippon Electricals Ltd., Hosure	26
13	Bharati Electricals (Unit-II) Vadodara	2	48	Inductotherm (India) Pvt. Ltd., Ahmedabad	7
14	Balaji sales	3	49	Institute of Plasma Research, Gandhinagar	2
15	BG-LI-IN Electricals Limited, Aurangabad	10	50	Jaicom, Delhi	1
16	Bharat Products, New Delhi	1	51	Jaivic Electromech Engg. Pvt. Ltd., Nashik	1
17	Blue Chip Electronics, Secunderabad	8	52	Jay Switches India Pvt. Ltd., Gurgaon	4
18	Century LED Limited, Hawrah	14	53	Johnson Lifts Private Limited, Chennai	2
19	Chef Solutions, New Delhi	5	54	Jyotitech Solar LLP, Mumbai	9
20	Chinar Enterprises, New Delhi	1	55	K-Three Appliance, Baddi	1
21	Continental Automotive Components (I) Pvt. Ltd., Pune	3	56	Kaizan Switchgear Products, Vadodara	2
22	Cygni Energy Private Limited, Hyderabad	1	57	Koti Systems, Bangalore	13
23	Defence Electronics Applications Lab., Dehradun	1	58	Landis + Gyr Ltd., Solan	7
24	Denso India Pvt. Ltd., Noida	7	59	Landis + Gyr. Ltd., Kolkata	1
25	Department of Automic Energy	1	60	Larsen & Toubro Ltd., Mysore	1
26	EFD Induction Private Limited, Bangalore	1	61	Larsen & Turbro Ltd., Mumbai	1
27	Electrical Controls & Systems (Unit-II, Vadodara	3	62	Live Braille Wearable Solutions Pvt. Ltd., Chandigarh	1
28	Electronics Corp. Of India Ltd., Hyderabad	4	63	Lovely Electronics, Sahnewal, Ludhiana	1
29	Emitec Emission Control Technology)I) Ltd., Pune	2	64	Lucas TVS Ltd., Chennai	7
30	EOS Power India Pvt. Ltd., Mumbai	2	65	Lucas TVS Ltd., Pantnagar	2
31	Epcos India Private Limited, Bawal	27	66	Lucas TVS Ltd., Pondicherry	8
32	Epcos India Private Limited, Nashik	65	67	Marathon Electric India (P) Ltd., Faridabad	3
33	Excel-Par Electronics Private Limited, Mysore	1	68	Mersen India Pvt. Ltd., Bangalore	3
34	Fiber Optic Telecom Solutions, Secunderabad	6	69	Methode Electronics India Pvt. Ltd., Bangalore	1
35	Finlabs Audio (P) Ltd., Mohali	2	70	Multitech, Pathankot	2

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts.

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SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
71	Mundra Solar Pvt. Ltd., Mundra (Kutch)	95	106	Tata Motors Ltd., Ahmedabad	1
72	National Aluminium Company Ltd., Angul (Odisha)	2	107	Tata Power Solar Systems Ltd., Bangalore	25
73	New Jonaki Electronics ,Tripura	1	108	TDK India Private Limited, Nashik	91
74	Novateur Electrical & Digital Systems Pvt. Ltd., Nashik	2	109	Techno Electromech Pvt. Ltd., Vadodara	2
75	Orange Sorting Machines (P) Ltd., Coimbatore	1	110	Telmar Network Technology, Gurgaon	1
76	Parkinson-San Systems Pvt. Ltd., Bangalore	4	111	Transcon Interconnections Systems Pvt. Ltd., Bangalore	5
77	Powermate Devices, Pune	3	112	Usha Enterprises, Panchkula (for Essel Propack, Nalagarh)	5
78	Picanol India Pvt. Ltd., Delhi	1	113	Versabyte Data Systems Pvt. Ltd., Bangalore	1
79	Pulse E Technologies Pvt. Ltd. Gurgaon	1	114	Vikram Sarabhai Space Centre, Thiruvanthapuram	1
80	P.V. Power Technologies Pvt. Ltd., Thane	4	115	Viz Technologies Pvt. Lt., Hyderabad	7
81	Rajshree Electro Systems, Thane	10	116	Wings Automobile Products Pvt. Ltd., Faridabad	12
82	Rangsons Electronics Pvt. Ltd., Mysore	14	117	Yash Capacitors Pvt. Ltd., Nashik	18
83	Research Centre IMARAT, Hyderabad	1	118	Yash Enterprises, Pune	3
84	Rewnewsys Indian Pvt. Ltd., Hyderabad	32			
85	Saint Gobain Glass India Ltd., Kanchipuram	1			
86	Sasmos HET Technologies Pvt. Ltd., Bangalore	2			
87	SATTVAeTECH India Pvt. Ltd., Bangalore	1			
88	Saatvik Green Energy Pvt. Ltd., Ambala	10			
89	Sasmos HET Technologies Pvt. Ltd., Bangalore	2			
90	Schneider Electric India Pvt. Ltd., Bangalore	3			
91	Secure Meters Ltd., Udaipur	12			
92	Secure Meters Ltd., Sanand Ahmedabad	18			
93	SGS Teknicks Manufacturing Pvt. Ltd., Manesar	2			
94	Sieko-Maraica Electrical Mfg. India Pvt. Ltd., Chennai	2			
95	Sigma Pi Power Pvt. Ltd., Chennai	1			
96	Sona Electricals, Bhopal	4			
97	Sona Koyo Steering Systems Ltd., Gurgaon	5			
98	Southern Sensors, Chennai	1			
99	Spot Trading Co., Delhi	1			
100	Sumitron Exports Pvt. Ltd., Delhi	10			
101	Sun Electromec Industries, Bangalore	1			
102	Swelect Energy Systems Ltd., Bangalore	6			
103	Synergy Enterprises, Chandigarh	26			
104	Synthetic Moulders Ltd., Baddi	1			
105	T.B.R.L.,Chandigarh	1			

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Very High Power 320 Watt Soldering Station for very heavy mass soldering applications

Specifications

- Power : 320 Watts
- Input Supply : 220VAC, 50Hz
- Temperature Range : 50°C ~ 600°C
- Temperature Stability : $\pm 2\%$ of final value
- Tip to Ground Resistance : $< 2 \text{ Ohm}$
- Tip to Ground Potential : $< 2\text{mV}$

Scope of Supply

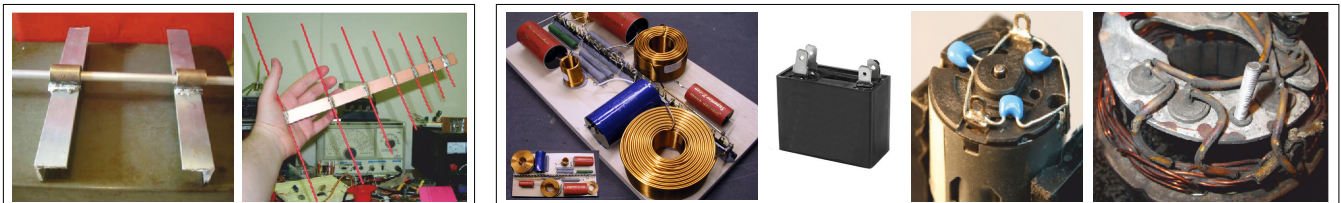
- Power & Control Unit
- Soldering Pencil
- Soldering Tip 8 mm Chisel
- Heavy Duty Support Rack
- Cleaning Sponge

Features

- Precise temperature settings by pressing push buttons
- In-built temperature offset provision for digital calibration
- In-built programming functions of auto sleep and shut-off
- Supervisor can lock optimized process temperature
- 6~12 mm wide Soldering Tips for different applications




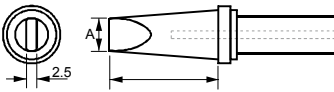

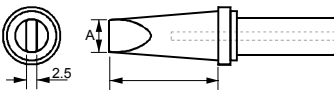
Few examples of Automotive Components, Power Capacitors and Large Coils soldering applications



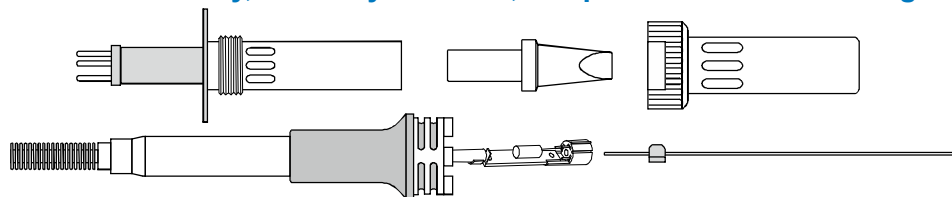
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Wide range of Soldering Tips for very high mass soldering applications are available.

Description	Actual Picture	Dimensional Diagram	Width A (mm)	Part Number
Chisel Tip for leadfree soldering			8	502-8D
Chisel Tip for leadfree soldering			12	502-12D

Assured availability, normally ex-stock, of Spare Parts for Soldering Pencil



Description	Actual Picture	Remarks
DSP03G Soldering Pencil		Whenever required
Barrel & Nut Assembly		Whenever required
Heating Element		Replace if display shows H-E
Temperature Sensor		Replace if display shows S-E
Cord with Connector		Whenever required

Partial User References (not complete list) of our DSSH300 Soldering Station

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	Balaji Sales, Indore	1	11	RenewSys India Pvt. Ltd., Andhra Pradesh	2
2	BG LI-IN Electricals Ltd., Aurangabad	1	12	Rishab Instruments Pvt. Ltd., Nashik	5
3	Bharat Electronics Limited, Mumbai	5	13	Schneider Electric India Pvt. Ltd., Bangalore	5
4	Blue Chip Electronics, Secunderabad	8	14	Secure Meters Limited, Ahmedabad	6
5	GRD Induction, Jalandhar	1	15	Secure Meters Limited, Udaipur	8
6	Hindustan Aeronautics Ltd., Koraput Odisha	3	16	Synergy Enterprises, Chandigarh	1
7	Koti Systems, Bangalore	3	17	TDK India Private Limited, Nashik	44
8	Lead Enterprises, Bangalore	1	18	Terminal Ballistics Research Laboratory, Chandigarh	4
9	Nitin Jain, Nashirabad	1	19	Voxelgrids Innovations Pvt. Ltd., Bangalore	2
10	Rangsons Electronics Pvt. Ltd., Mysore	1			

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts. 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.

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K-type & Star type thermocouples for surface and tip temperature measurement

Features

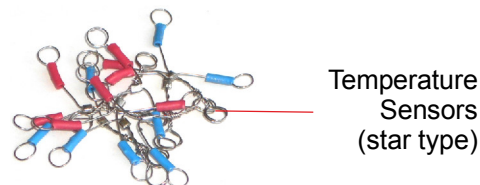
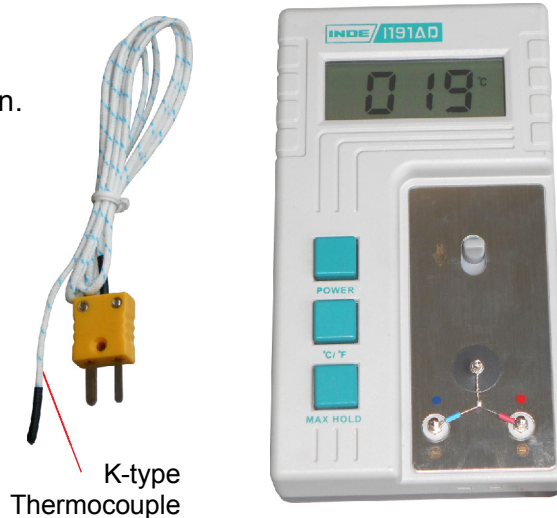
- Measures soldering tip temperature quickly
- Auto shut-off function prolongs the life of Battery.
- Holds max temperature on pressing [MAX HOLD] Button.
- Both Celsius and Fahrenheit types readings possible.
- K-type & Star type thermocouples for surface and tip temperature measurement

Specifications

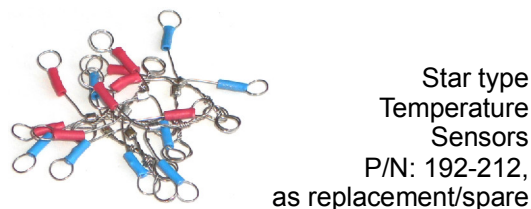
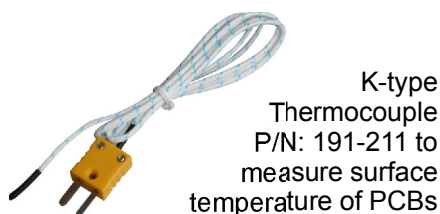
- | | |
|----------------------|-----------------------------|
| • Resolution | : 1°C (1°F) |
| • Measurement Range | : 0~800°C (32~1472°F) |
| • Accuracy | : ±5°C |
| • Sensor | : K-type Thermocouple |
| • Display | : 3.5 digit LCD |
| • Battery Indication | : Alarm |
| • Power Supply | : 9 Volt DC Battery |
| • Dimensions | : 146 x 35 x 83mm (approx.) |
| • Weight | : 250 grams (approx.) |

Scope of Supply

- Digital Calibration Meter
- K-type Thermocouple for surface temperature measurement
- Star type Temperature Sensors set of 10 pcs for Soldering Tips temperature measurement



Spare Thermocouples (normally available ex-stock)



How to use

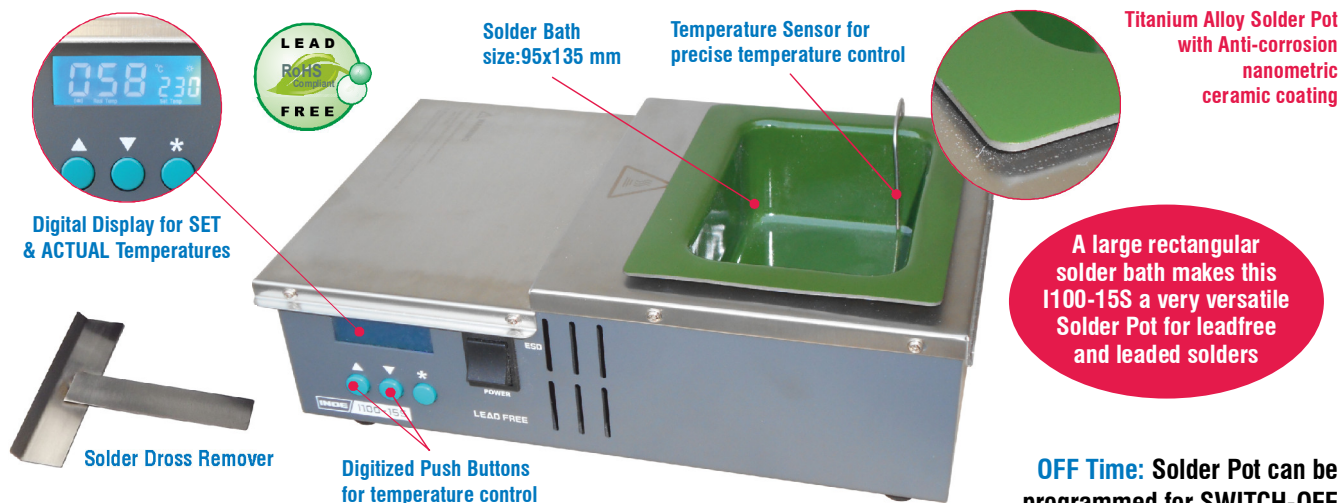
- Fit the star type Temperature Sensor
- Switch on the Calibration Meter
- Put a drop of solder on the soldering tip
- Put the hot soldering tip on the center of the sensor
- Display will show the tip temperature
- If you press the MAX HOLD button, it will hold the value of maximum tip temperature
- To measure temperature of any surface/PCB, use the K-type Thermocouple



Expensive nanometric ceramic coating prevents solder baths from corrosion

Digital Display, Closed Loop Temperature Control Solder Bath: 95x135 mm size, 600 Watt heating Model I100-15S

Model I100-15S is an excellent, portable and easy-to-use rectangular Solder Pot for leadfree and leaded soldering. It is ideal for wire tinning and for small PCB soldering and desoldering of components. This model is ideal for manufacturers seeking a cost-effective solution for pre-tinning components or wires.



Specifications

- Solder Bath internal dimensions: 95x135x60 mm (LxWxH) approx.
- Temperature Range: 100°C ~ 450°C
- Input Supply: 220V/50Hz
- Power consumption: 600 Watt
- Solder Pot Capacity: 5.5 kg (approx.)
- LCD type Digital Display

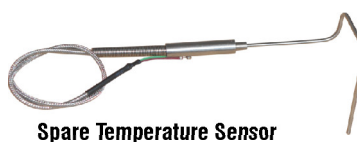
Features

- Micro-controller based controls
- Closed loop temperature control
- Anti-Corrosion high temperature resistant nanometric ceramic coating inside of Solder Bath
- In-built digital temperature calibration
- Rapid heating with stable temperature

OFF Time: Solder Pot can be programmed for SWITCH-OFF time. The Power of Solder Pot will automatically switched-off after this set time. This time is adjustable from 000~999 hours.

Work Time: This shows the accumulative working time of the Solder Pot

Assured availability, normally ex-stock, of Spare Parts for Digital Solder Pot Model I100-15S

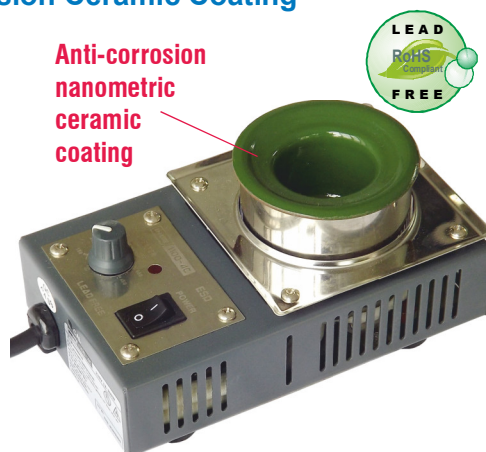
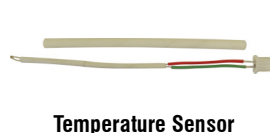


36 mm dia, 200 Watt Lead Free Solder Pot with Anti-Corrosion Ceramic Coating Model SP-200

Specifications:

Solder Pot Size(approx.)	: 36mm dia x 30mm depth
Temperature range	: 150° ~ 500°C
Solder Capacity	: 650 gms (approx.)
Input Supply	: 220 VAC/50 Hz
Power Consumption	: 200 Watt

Normally ex-stock availability of Spare Parts



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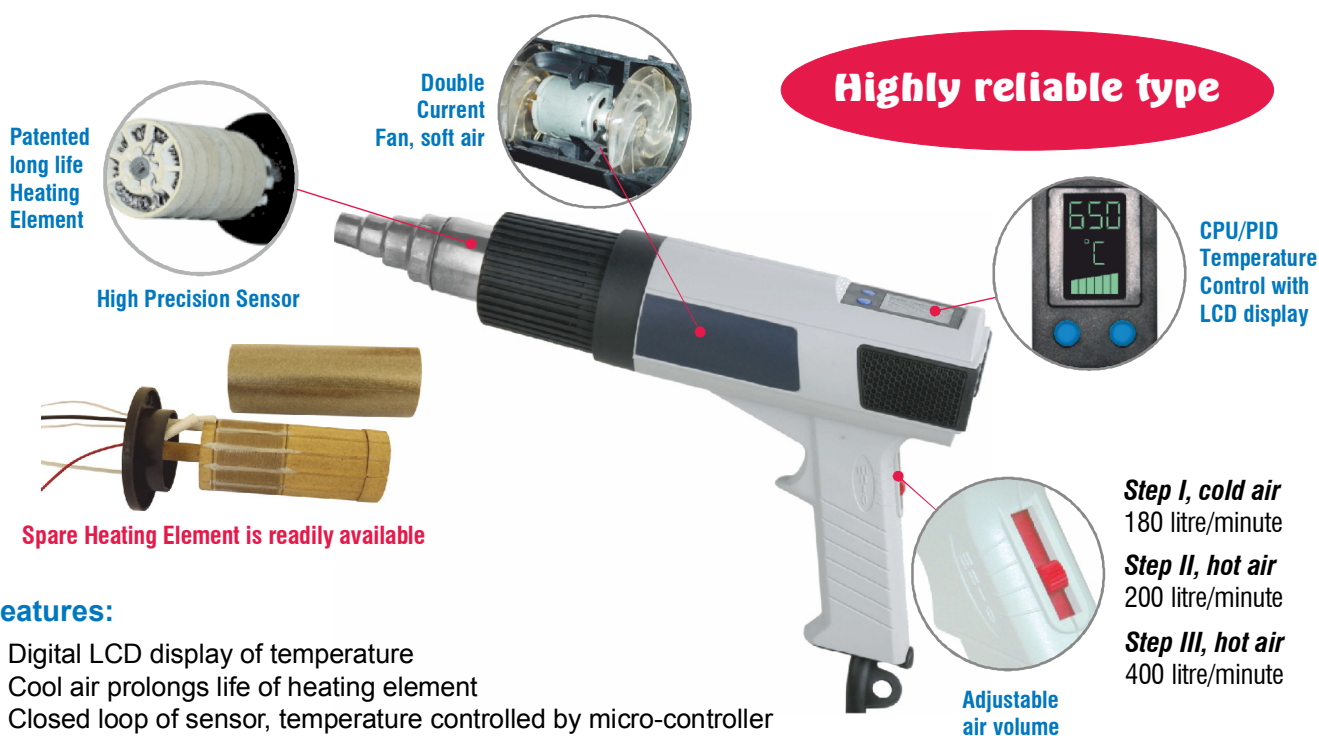
Partial User References (not complete list) of our Leadfree Solder Pots

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	ADI Electronics Mfg. Tech. Pvt. Ltd., Bangalore	1	34	Moser Baer India Limited, Noida	1
2	ADS Sensortechnik Pvt. Ltd., Bangalore	1	35	Motherson Sumi Systems Ltd., Faridabad	2
3	Ananth Technologies Ltd., Trivandrum	1	36	Motherson Sumi Systems Ltd., Noida	3
4	Astra Microwave Products Ltd., Hyderabad	2	37	Novateur Electrical & Digital Systems Pvt. Ltd., Jalgaon	1
5	Avery India Limited, Ballabgarh	1	38	Nuflex Electromagnetics Pvt. Ltd.,	1
6	BG LI-IN Electricals Ltd., Aurangabad	1	39	Om Nano Tech Pvt.Ltd., Noida	1
7	Blue Chip Electronic, Secunderabad	2	40	Perto India Pvt. Ltd., Jaipur	2
8	CG Cables & Wires India Pvt. Ltd., Bangalore	2	41	Phoenix Control India Limited, New Delhi	1
9	Control Print Limited, Nalagarh	1	42	Qualifour Auto Products (P) Ltd., Hosur	3
10	DCX Cable Assemblies Pvt. Ltd., Bangalore	3	43	Rangsons Defence Solutions (P) Ltd., Bangalore	1
11	Divine Techno Engineers, Vadodara	2	44	Russell Systems, Bangalore	2
12	Eaton Power Quality Pvt. Ltd., Pondicherry	1	45	Salzer Electronics Ltd. Unit-II, Coimbatore	1
13	Elin Electronics Ltd.,Ghaziabad	20	46	Secure Meters Limited, Sanand, Ahmedabad	7
14	Ess Dee Industries, Aurangabad	3	47	Shivalik Industries,Parwanoo	1
15	Excel-Par Electronics Pvt.Ltd., Mysore	25	48	Sinicon Controls Pvt. Ltd., Palakkad	1
16	FCI OEN Connectors Ltd., Cochin	1	49	Sirio India Inductive Components Pvt. Ltd., New Delhi	3
17	Flextronics Tech (I) Pvt. Ltd., Sriperumbudur	2	50	SNS Industries, Bangalore	1
18	Fokkar Elmo Sasmos Interconnection Sys. Ltd., Bangalore	1	51	Southern Electronics (Bangalore) Pvt. Ltd., Bangalore	2
19	Goodrich Aerospace Services Pvt. Ltd., Bangalore	2	52	Spark Controls, Bangalore	1
20	HTL Limited, Chennai	2	53	The Aluminium Industries Ltd., Trivandrum	1
21	Hi-Rel Tech Pvt. Ltd., Hosur	1	54	Toyota Techno Park India Pvt. Ltd., Badadi (Karnataka)	1
22	Indelox Technologies Pvt. Ltd., Bangalore	1	55	Transquill Power System Pvt. Ltd., Bangalore	5
23	Keltron Electro Ceramics Ltd., Kuttipuram, Kerala	1	56	Transpace Technologies Pvt. Ltd.,Bangalore	1
24	Kent RO System Ltd., Noida	6	57	Triphase Technologies Pvt. Ltd., Parwanoo	1
25	Lineage Power (I) Pvt. Ltd., Bangalore	1	58	Vidya Academy of Science & Technologies, Trivandrum	1
26	Mag Power, Pune	3	59	Voxelgrides Innovations Pvt. Ltd., Bangalore	1
27	Magnatech, Mysore	4			
28	Magsol Technologies (P) Ltd., Bangalore	1			
29	Mersen India Pvt. Ltd., Bangalore	1			
30	Micropack Pvt. Ltd., Bangalore	1			
31	Microtek International Pvt. Ltd., Parwanoo	1			
32	MIL Power Converter Tech. India Pvt. Ltd., Gurgaon	1			
33	Molex India Pvt. Ltd., Bangalore	45			

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Solder Cups etc.

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Features:

- Digital LCD display of temperature
- Cool air prolongs life of heating element
- Closed loop of sensor, temperature controlled by micro-controller zero voltage triggering, stable - not affected by air volume
- High power with rapid heating

Specifications:

Power consumption : 2100 Watt
 Temperature Control : 50°C to 650°C
 Input Supply : 230VAC, 50Hz
 Weight : 1.25 kg (approx.)

Scope of supply:

- Heat Gun
- Shrinking Nozzle
- Operating Manual

Partial User References (not complete list) of our Hot Air Gun

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	AIL Dixon Technologies Pvt. Ltd., Chittoor	1	15	Koyo SMS (India) Pvt. Ltd., Chennai	5
2	Apex Electronics, Hyderabad	1	16	Multitech Engineers, Mumbai	2
3	Bharat Dynamics Ltd., Hyderabad	1	17	Osram Continental India Pvt. Ltd., Bangalore	1
4	Bharat Electronics Ltd., Ghaziabad	20	18	Radmax Communication Pvt. Ltd., New Delhi	1
5	Blue Chip Electronics, Secunderabad	3	19	Rajshree Electro-Systems, Panvel	5
6	BrahMos Aerospace Pvt. Ltd., Secunderabad	1	20	Ruda Micro Products, Hyderabad	1
7	Centre for Development of Advanced Computing,	1	21	Sealed Energy Systems, Amabala Cantt	1
8	Centum Electronics Ltd., Bangalore	7	22	Shiv Nadar University, Gautam Budh Nagar (UP)	1
9	Dynalog India Ltd., Mumbai	2	23	Sytem Controls Technology Solutions Pvt. Ltd., Bangalore	2
10	Essen Electronics Systems Pvt. Ltd., Visakhapatnam	1	24	Titam Company Limited, Bangalore	1
11	Ever Electronics Pvt. Ltd., Pune	3	25	Vikram Sarabhai Space Centre, Trivandrum	3
12	HCL Technologies Ltd., Chennai	3	26	Wingtech Mobile Communications (I) Pvt. Ltd., Chittoor	5
13	Hindustan Electronics Ltd., Korwa	15	27	Zobebe India Pvt. Ltd., Daman	1
14	Khurana Commercial Corporation, Delhi	1			

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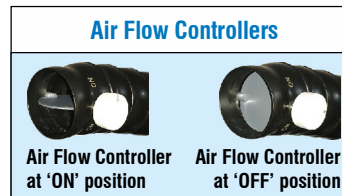
Couple of 100's (in repeat orders) working reliably all over India for the last many years

3-Stage Filters for 99.97% fumes cleaning
Silent operation with low noise < 55 dBA*
Reliable and powerful brushless Turbine
Ready-to-use type, no plumbing required

[Click here to view Video](#)



FumePRO201
Main Extraction
Control Unit



Air Flow Controllers

Air Flow Controller
at 'ON' position

Air Flow Controller
at 'OFF' position



Rigid Gooseneck Arms can
be positioned anywhere on
table and will stay
in same
place

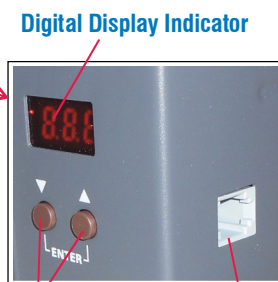
Burn-proof Silicon
Rubber Round Hoods
105mm dia

No Plumbing
required just
position on or
under the Table
as needed

Ready-to-use
Complete
Package



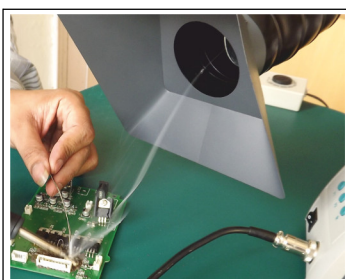
System Choke Alarm:
When display shows
circular movement
clockwise plus OFF
and system beeps,
it means any of Filters
needs replacement.



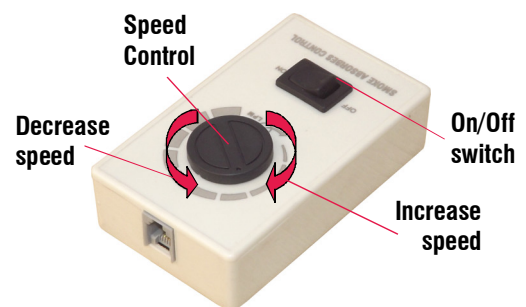
Digital Display Indicator

Airflow
Setting
Switches

Speed Control
Regulator
Connector



Solder fumes extraction during hand soldering on PCB & Solder Pot tinning



Speed
Control

Decrease
speed

On/Off
switch

Increase
speed

Speed Control Regulator

Scope of Supply

- 1x FumePro201 Main Extraction Unit
- 2x Extraction Arms (50mm dia, 1 meter long)
- 2x Silicon Rubber Round Hoods (105mm dia.)
- 2x Air Flow Controllers
- 1x Speed Control Regulator
- 2x Spare Pre-Filters

Specifications

- Input Power Supply : 230V/50Hz, 250W
- No of Workplaces : 2
- Stationary Pressure : 3000 Pa
- Maximum Airflow Rate : 240m³/h
- Filtering Efficiency (0.3um) : 99.97%
- Noise Level : <55dB*
- Dimension (LxWxH) (approx) : 470x230x500mm

* at distance of 1 meter & also at typical speed of turbine

shown trademarks are property of their respective owners.

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Filters, Extraction Arms and Hoods

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Couple of 100's (in repeat orders) working reliably all over India for the last many years

Features

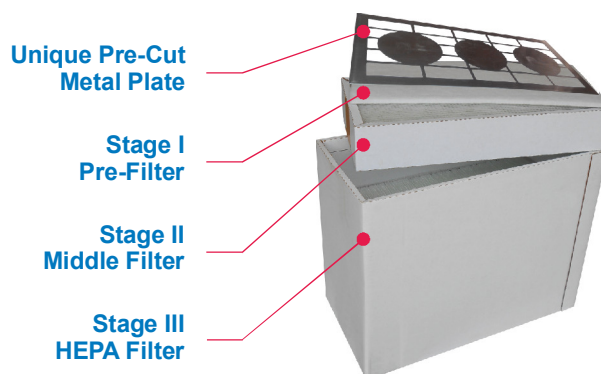
- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuvre positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 55 dBA) in operation continuous running
- Filters design removes hazardous gaseous/adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock



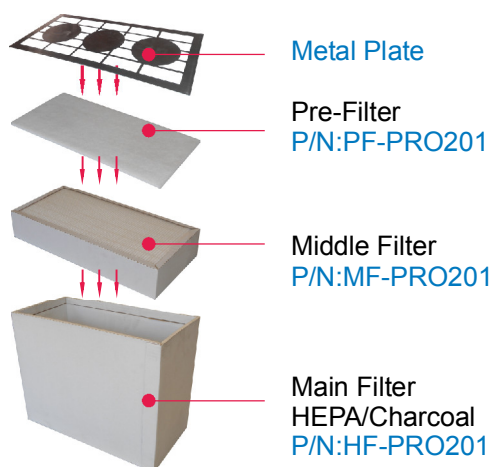
Length of the Extraction Arm is easily adjustable, as this is made from press-fit type small sections which are easily adjustable in length by selection of these sections as per required length.

FumePRO201-50LC is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

2-operators ready-to-use Solder Fumes Extraction System Model FumePRO201-50LC is fitted with **3-stage Filters**: Pre-Filter, Middle Filter and HEPA/Charcoal Filter. Combination of these Filters cleans polluted air by separating 99.9% contaminated solder fumes. This System is designed for use both in industrial and laboratory environment. All it needs is mains input Power Supply only.



Details of 3-Stage Filters used in this Fume Extraction System



- **Metal Plate:** Metal Plate on top to increase the life of Filters
- **Stage I Pre-Filter (F7):** The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
- **Stage II Middle Filter:** It filters coarse size fume particles to prolong life of expensive HEPA/Charcoal Filter
- **Stage III Main HEPA/Charcoal Filter (H13):** This Filter is a combination of HEPA (filters fine size fume particles) and Activated Charcoal (absorbs harmful gas substances) Filters to provide clean air finally.

1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.

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2-Operators **powerful** Solder Fumes Extraction System FES2-75ESDLC

INDE
reliable & caring since 1976

Couple of 100's (in repeat orders) working reliably all over India for the last many years

3-Stage Filters for 99.97% fumes cleaning
Pre-Cut Metal Plate increases life of 3 Filters
Silent operation with low noise < 60 dBA*
Reliable and powerful brushless Turbine

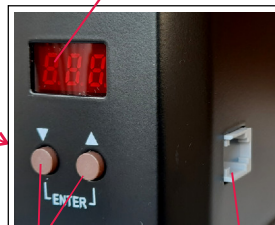


Main Extraction Control Unit

ESD Safe Fume Extraction Body with Caster Wheels for easy mobility

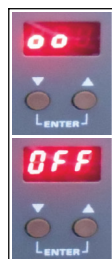


Digital Display Indicator



Airflow Setting Switches

Speed Control Regulator Connector



System Choke Alarm:
When display shows circular movement clockwise plus OFF and system beeps, it means any of Filters needs replacement.

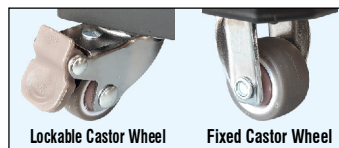
Rigid Gooseneck Arms can be positioned anywhere on table and will stay in same place



Burn-proof Silicon Round Hoods

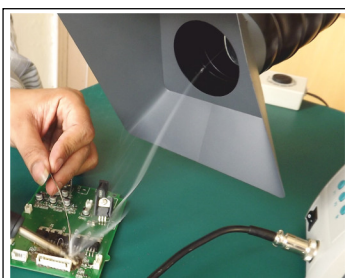
No Plumbing required just position on or under the Table as needed

Ready-to-use Complete Package

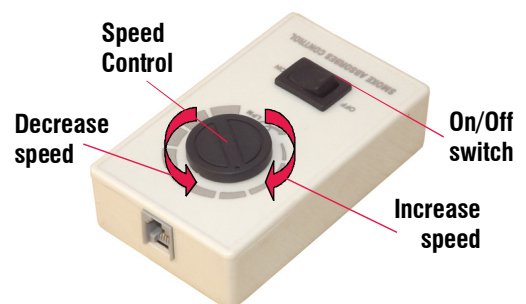


Lockable Castor Wheel Fixed Castor Wheel
Caster wheels for easy & effortless mobility

[Click here to view Video](#)



Solder fumes extraction during hand soldering on PCB & Solder Pot tinning



Speed Control Regulator

Scope of Supply

- 1xESD Safe Black Colour Main unit
- 2xESD Safe Extraction Arms (75mm dia, 1.2 meter long)
- 2xBurn proof Round Silicon Rubber Hoods
- 1xSpeed Control Regulator
- 2xSpare Pre-Filters

Specifications

- Input Power Supply : 230V/50Hz, 250W
- No of Workplaces : 2
- Stationary Pressure : 3000 Pa
- Maximum Airflow Rate : 240m³/h
- Filtering Efficiency (0.3um) : 99.97%
- Noise Level : <60dB*
- Dimension (LxWxH) (approx) : 470x230x500mm

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* at distance of 1 meter & also at typical speed of turbine

Couple of 100's (in repeat orders) working reliably all over India for the last many years

Features

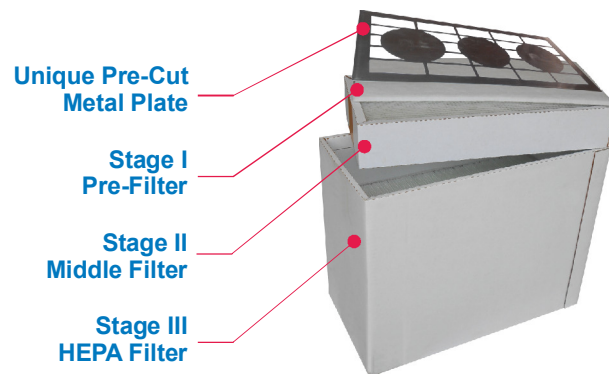
- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuvre positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 60 dBA) in operation continuous running
- Filters design removes hazardous gaseous/adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock



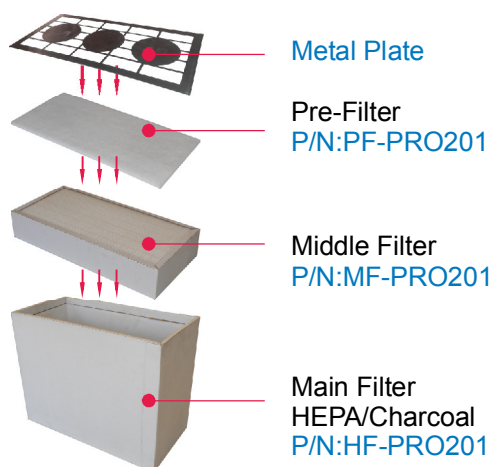
Length of the Extraction Arm is easily adjustable, as this is made from press-fit type small sections which are easily adjustable in length by selection of these sections as per required length.

FES2-75ESDLC is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

2-operators ready-to-use Solder Fumes Extraction System Model FES2-75ESDLC is fitted with **3-stage Filters**: Pre-Filter, Middle Filter and HEPA/Charcoal Filter. Combination of these Filters cleans polluted air by separating 99.9% contaminated solder fumes. This System is designed for use both in industrial and laboratory environment. All it needs is mains input Power Supply only.



Details of 3-Stage Filters used in this Fume Extraction System



- **Metal Plate:** Metal Plate on top to increase the life of Filters
- **Stage I Pre-Filter (F7):** The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
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1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.

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HEPA Filter (High-efficient Filter Paper: Material - Fiberglass)

Refers to Q/320000BXS16-2006 Efficiency and resistance tested by sodium flame			
Item	Test	Specification	Test results
1	Appearance	White and even	White and even
2	Thickness: mm	0.32-0.34	0.33
3	Gram weight: g/m ²	/	75.8
4	Strength: KN/m	≥1.2 (Portrait)	1.33
		≥0.5 (Lateral)	0.724
5	Efficiency: 0.321/min.c m ²	≥98 (0.3um)	99.97 (0.3um)
6	Resistance: 0.321/min.c m ²	≤220	196
7	Stiffness: Mn.m	≥1.2	1.55

Middle Filter (Middle Filter Paper: Material - Fiberglass)

Refers to Q/320000BXS16-2006 Efficiency and resistance tested by sodium flame			
Item	Test	Specification	Test results
1	Appearance	White and even	White and even
2	Thickness: mm	0.32-0.34	0.34
3	Gram weight: g/m ²	/	69.7
4	Strength: KN/m	≥1.2 (Portrait)	1.44
		≥0.5 (Lateral)	0.733
5	Efficiency: 0.321/min.c m ²	≥60	66.67
6	Resistance: 0.321/min.c m ²	30-40	36
7	Stiffness: Mn.m	≥1.2	1.75

Pre-Filter (Filter Material - Polypropylene)

Item	Gram per square meter: g/m ²	Free state thickness: mm	Filter speed: m/s	Initial resistance: Pa	Artificial dust efficiency: %	Dust capacity: g/m ²
1	350	5-6	1	323	78	110

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SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	ABB Ltd., Bangalore	9	43	Ericsson India Pvt. Ltd., Jaipur	2
2	ABB Global Industries & Services Pvt. Ltd., Bangalore	1	44	EL GI Rubber Co. Ltd., Coimbatore	1
3	ACE Manufacturing Systems Ltd., Bangalore	5	45	F.J.Tech. Pvt. Ltd., Bangalore	3
4	ADS Sensortechnik Pvt. Ltd., Bangalore	1	46	Flextronics Tech (I) Pvt. Ltd., Kanchipuram	37
5	Airtech Enterprises, New Delhi	2	47	Fokkar Elmo Sasmos Interconnection Sys. Ltd., Bangalore	1
6	Alstrut India Private Limited, Chennai	1	48	Gallium Arsenide Enabling Technology Centre, Hyderabad	3
7	Amphenol Omniconnect India Pvt. Ltd., Tamilnadu	3	49	Gamesa Renewable Pvt. Ltd.-Chennai	1
8	Anicad Systems, Bangalore	5	50	Genus Power Infrastructures Ltd., Jaipur	32
9	Apex Electronics, Hyderabad	5	51	Genus Power Infrastructures Ltd., Haridwar	10
10	Army Base Workshop, Agra	28	52	Genus Power Infrastructures Ltd., Guwahati	3
11	Arya Electronics, Trivandrum	1	53	Goodrich Aerospace Services Pvt. Ltd., Bangalore	90
12	Astra Microwave Products Ltd., Telangana	4	54	Hanning Motors Pvt.Ltd., Vadodara	1
13	Atlantic Maritime Services Pvt. Ltd., Mumbai	1	55	HCL Technologies Ltd., Chennai	2
14	Aviohelitronics Systems Pvt. Ltd., Bangalore	1	56	Hella India Automotive Pvt. Ltd., Gurgaon	1
15	Balaji Sales, Indore	1	57	Hindustan Aeronautics Ltd., Hyderabad	46
16	Bharat Electronics Ltd., Jalahalli, Bangalore	226	58	Hindustan Aeronautics Ltd., Korwa	6
17	Bharat Electronics Ltd., CRL, Bangalore	3	59	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	11
18	Bharat Electronics Ltd., Ghaziabad	6	60	Honeywell Technology Solutions Lab. Pvt. Ltd., Madurai	2
19	Bharat Electronics Ltd., Machilipatam	2	61	Honoch Automotive Pvt. Ltd., Cochin	2
20	Bharat Electronics Ltd., Taloja, Navi Mumbai	2	62	IJPN Technologies (I) Pvt. Ltd., Pinjore	10
21	Bharat Electronics Ltd., Pune	18	63	Inductotherm (India) Pvt. Ltd., Ahemdabad	1
22	Bharatiya Reserve Bank Note Mudran Ltd., Mysore	2	64	Intellic Systems, Bengaluru	1
23	Bhavyabhanu Electronics (P) Ltd., Hyderabad	4	65	ISRO Inertial Systems Unit, Trivandrum	15
24	Bloom Energy India Pvt. Ltd., Bangalore	2	66	ISRO Satellite Centre, Bangalore	3
25	Blue Chip Electronics, Secunderabad	37	67	ITI Ltd., Palakkad	6
26	BPL Medical Technologies Ltd., Palakkad	1	68	Jay Cee & Company, New Delhi	1
27	BTL India Pvt. Ltd., Bangalore	1	69	JNS Instruments Limited, Gurgaon	3
28	Buffalo Grid Private Ltd., New Delhi	1	70	Kaynes Technology India Pvt. Ltd., Manesar	1
29	CET Power Solutions India Pvt. Ltd., Chennai	3	71	Kent RO System Ltd., Roorkee	3
30	Centum Electronics Ltd., Bangalore	5	72	Kent RO System Ltd., Noida	4
31	Chara Technologies, Chennai	1	73	Keltron Electro Ceramics Ltd., Kuttipuram (Kerala)	2
32	Continental Automotive Comp. (I) Pvt. Ltd., Bangalore	1	74	KELTRON, Thiruvananthapuram	43
33	Cyient DLM Private Ltd., Mandya	7	75	Landis Gyr Ltd., Kolkata	1
34	Danfoss Industries Pvt. Ltd., Chennai	1	76	Larsen & Turbo Ltd., Mysore	7
35	Danlaw Electronics Assembly Ltd., Goa	2	77	Larsen & Turbo Ltd., Mumbai	2
36	Deptt. of Atomic Energy, Chennai	1	78	Larsen & Turbo Ltd., Bangalore	3
37	Dhiman Associated, Chandigarh	1	79	L&T Technology Services Ltd., Bangalore	1
38	Divine Techno Engineers, Vadodara	13	80	Liquid Propulsion Systems Centre, Trivandrum	6
39	EFD Induction Pvt. Ltd., Bangalore	2	81	Lupin Ltd., Pune	1
40	Effee Induction Pvt. Ltd., Bangalore	1	82	Luwa India Pvt. Ltd., Bangalore	1
41	Efftronics Systems Pvt. Ltd., Vijayawada	1	83	Marathon Electric India Pvt. Ltd., Faridabad	2
42	Epcos India Pvt. Ltd., Nashik	1	84	Marquardt India Pvt. Ltd., Pune	1

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85	Mediatek India Technologies Pvt. Ltd., Noida	1	127	Sieko-Maracia Electricals Mfg. (I) Pvt. Ltd. Chennai	1
86	Mersen India Private Limited, Bangalore	14	128	Siemens Ltd., Aurangabad	1
87	Motherson Sumi System Limited., Noida	1	129	Sigma Microsystems Pvt. Ltd.	1
88	Microchip Technology India Pvt. Ltd., Chennai	1	130	Sigma Freudenberg NOK Pvt. Ltd., Basma/Mohali	2
89	Molex India Pvt. Ltd., Bangalore	21	131	SLN Technologies Pvt. Ltd., Bangalore	1
90	Molex India Business Services Pvt. Ltd., Bangalore	2	132	Smash Electronics, Pune	1
91	Mr. Bhatia, Mumbai	1	133	Songrow Developers India Pvt. Ltd., Bangalore	1
92	NR Oils, Halol, Gujarat	1	134	SMC Pneumatic (India) Pvt. Ltd., Bangalore	1
93	Muffalddal Tool & Hardware, Bangalore	2	135	Space Application Centre, Ahmedabad	3
94	Multilink, Mysore	4	136	Spectrum Infotech Private Limited, Bangalore	2
95	Narayana Hrudayalaya Ltd., Bangalore	3	137	Stead Fast Engineers Pvt. Ltd., Faridabad	6
96	National Atmospheric Research Laboratory, Godanki	1	138	Stellar Information Technology Pvt. Ltd., Gurgaon	1
97	Nuclear Power Corporation of India Ltd.	2	139	Success Solutions, Nashik	1
98	Nucon Aerospace Pvt. Ltd., Telangana	1	140	Suprajit Engineering Limited, Bangalore	1
99	Ordnance Cable Factory, Chandigarh	14	141	Synergy Enterprises, Chandigarh	24
100	Panasonic India Private Ltd., Gurgaon	1	142	Syrma Technology Pvt. Ltd., Chennai	14
101	Payal Mechanical & Engineering Works, Chandigarh	26	143	System Control Technology Solution (P) Ltd., Bangalore	1
102	PICL (India) Pvt. Ltd., Faridabad	5	144	SVS Industries	1
103	PVR Control, Mumbai	3	145	Tata Power Company Limited, Bangalore	1
104	Raja Ramanna Centre for Advanced Technology, Indore	1	146	TE Connectivity India Pvt. Ltd., Bangalore	2
105	Rajshree Electro Systems, Thane	12	147	Texas Instrumets (I) Pvt. Ltd., Bangalore	1
106	Rama Exports, Mumbai	1	148	Terminal Ballistics Research Laboratory, Chandigarh	1
107	Rangsons Electronics Pvt. Ltd., Mysore	27	149	The Aluminium industries Ltd., Trivandrum	11
108	Raphe MPhibr Pvt. Ltd., Noida	1	150	Titan Industries Ltd., Hosur	3
109	Rcube Technologies, Noida	1	151	Titan Company Ltd., Bangalore	1
110	Refurb Tech. Chennai	1	152	Titan Tyrecare Products Ltd., Coimbatore	1
111	Research Centre Imarat (RCI), Hyderabad	10	153	Toyota Techno Park India Pvt. Ltd., Ramnagar	1
112	Rieter India Pvt. Ltd., Coimbatore	1	154	Tractors & Form Equipment Ltd., Chennai	2
113	Robert Boss Engg. Business Solutions P. Ltd., Bangalore	2	155	Trascon Interconnections Systems Pvt. Ltd., Bangalore	1
114	RP Network System, Bangalore	1	156	Urban Engineering Association Pvt. Ltd., Kolkata	1
115	R. R. Rao Satellite Centre, Bangalore	2	157	Varroc Engg. Pvt. Ltd., Aurangabad	2
116	Rudrapur Repair Centre Schneider Electric, Rudrapur	2	158	Venimadhav Moolchand Suppliers, Kanpur	6
117	Russel TechSys (Division of Russel (I) Ltd.), Bangalore	4	159	V-Guard Industries Ltd., Cochin	1
118	Salzer Electronics Ltd., Coimbatore	1	160	Vikram Sarabhai Space Centre, Thiruvananthapuram	63
119	SAMEER, Chennai	3	161	Zones Corporate Solution Pvt. Ltd.	1
120	Sasmos HET Technologies Pvt. Ltd., Bangalore	10			
121	Schneider Electronic India Pvt. Ltd., Bangalore	1			
122	Schneider Electronic India Pvt. Ltd., Hyderabad	4			
123	Semi-Conductor Laboratory, Mohali	8			
124	Semikron Electronics Pvt. Ltd., Navi Mumbai	2			
125	Shivalik Bimetal Controls Limited, Solan	5			
126	Shree Annapurna Enterprises, Bangalore	1			

shown trademarks are property of their respective owners.

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Filters, Extraction Arms and Hoods

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Optical White Glass Lens does not stress user's eyes for longer period working

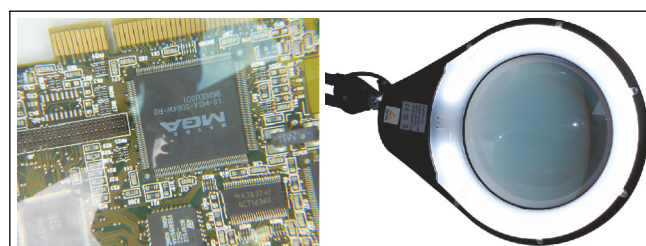
7 inch diameter Extra Wide View Lens
Fully ESD Safe against static charges

Model IML7WLSA-ESD



Features:

- Optical white glass lens does not strain user's eyes
- Real ESD Safe design for static-free working
- Optimum Magnification 5X diopter avoids strain on eyes (higher magnification always make user uncomfortable)
- Very wide view Lens size of 180mm (7 inch) diameter
- LED Light Source is longer lasting (not like CFL Tube type which need replacement periodically)
- Flip Over Cover protects Lens from dust when not in use
- Operates on Mains input supply of 220~240V, 50 Hz
- Nett Weight: 3750 gms (approx.)
- Gross Weight: 4450 gms (approx.)
- Average Power: 12 Watt
- Arm Length: 85 cm
- ESD Safety: $10^6 \sim 10^7$ (Surface Resistivity)



Non-reflecting LED light cover for inspection of shiny surfaces

Why LED types are preferred over CFL types ?

Type	Lifetime (hours) approx.	Power Consumed	Light Quality	Heat Generation	Toxic Mercury	ON/OFF Switching Cycles	Maintenance Running Cost
LED	>30000	6-8 Watt	Stable and Flicker-free	Virtually zero	Nil	Has No Effect	Virtually zero
CFL	8000	22 Watt	Unstable Flickering	High	Yes	Yes, it can reduce lifespan drastically	Need periodic replacement, also very fragile

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ESD Safe Portable & Light Weight LED Illuminated QC Magnifier

Model ITMESD-1706

- Magnification: 3 diopter + 12 diopter
- Lens Material: Glass
- 100mm (4 inch) Lens dia.
- Body Colour: ESD Safe Black
- Light Source: SMD LEDs
- Input Supply: 230V, 50 Hz
- Nett Weight: 1480 gms (approx.)
- Gross Weight: 1820 gms (approx.)
- Average Power: 4 Watt
- ESD Safety: 10^7 (Surface Resistivity)



ESD Safe design Table Clamp type LED Illuminated QC Magnifier

Model ICNESDO-5

- Magnification: 5 diopter
- Lens size: 125mm (5 inch) dia.
- Light Source: 56 pcs SMD LEDs
- Lens material: Optical grade Glass
- Input Supply: 220~240 V, 50 Hz
- Average Power: 9 Watt
- Body Colour: Black
- Mounting: Table clamp
- Arm Length: 80 cm



Real ESD Safe design for inspection of static sensitive PCBs



Non-reflective Translucent Cover on LEDs to avoid reflection of LEDs on object/surface to be magnified



The IDM-5MP Handheld Digital Microscope is a cost-effective digital microscope designed for electronics industries. This USB-powered microscope is capable of capturing still photos and videos with 5 megapixel resolution. The portable computer-powered design makes this unit at home anywhere a laptop can go. The Micro Capture Plus software allows users to analyze, annotate, manipulate, and save the transmitted images from the digital microscope. An included USB cable also allows real-time images to be displayed. The Handheld Digital Microscope includes a height-adjustable stand that adds to functionality. The magnification zoom range is suited for almost any specimen, including slides and three-dimensional objects. LED illuminators near the microscope objective provide incident and adjustable brightness lighting using a rotary switch integrated in the Microscope. The built-in 5MP camera, height-adjustable stand and feature-rich software make the Handheld Digital Microscope a well-equipped instrument for QC inspection in field, laboratories etc.

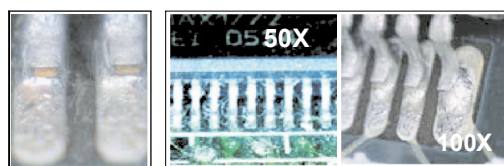
Specifications:

Image sensor	: 5 Megapixels
Magnification	: 20x ~ 300x
Focus range	: Manual focus (10 to 50mm)
Frame Rate	: 30f/s under 600 lux brightness
Snap shot	: Software
Still image resolution	: 2592x1944, 2048x1536, 1920x1080, 1280x1024 pixels
Video capture resolution	: 1920x1080, 1280x1024
Flicker control	: 50Hz/60Hz
Light source	: 8 x LEDs with adjustable brightness
Magnification ratio	: 20x ~ 200x and 300x (at 5MP res)
Power source	: USB
Dimensions	
- Microscope	: 110(L) x 33(Dia)mm,
- Stand	: 165(H) x 165(L) x 118(W)mm

Scope of Supply:

Description	IDM-5MP	IDM-5MP-Lap**
Digital Microscope	✓	✓
Adjustable Stand	✓	✓
Software CD	✓	✓
Calibration Scale	✓	✓
Laptop**		✓

** Laptop Computer supplied will be of any reputed make as DELL, with minimum or higher configuration: Dual Core Processor, 250 GB HDD, 1GB RAM, Window 7 Home Basic Operating System. We will not be responsible for any after-sales-services or support both for hardware and software. Customer will have to contact the respective Computer Vendor's Service Centre directly.



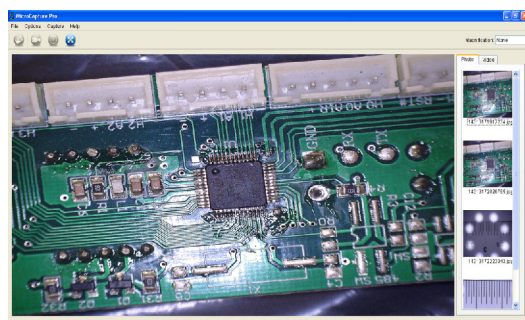
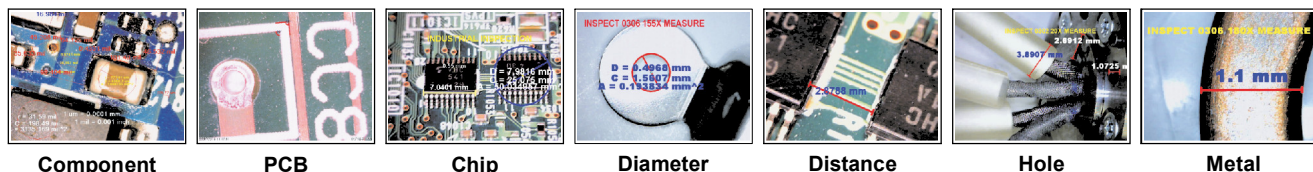
Leadfree & SMD Soldering QC Inspection

shown trademarks are property of their respective owners.

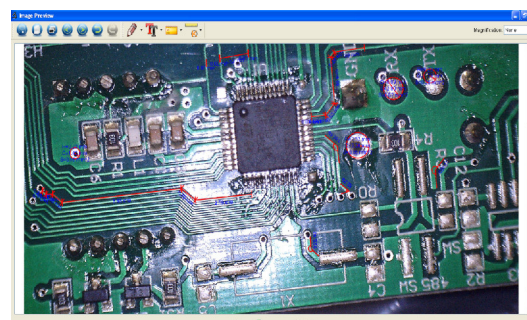
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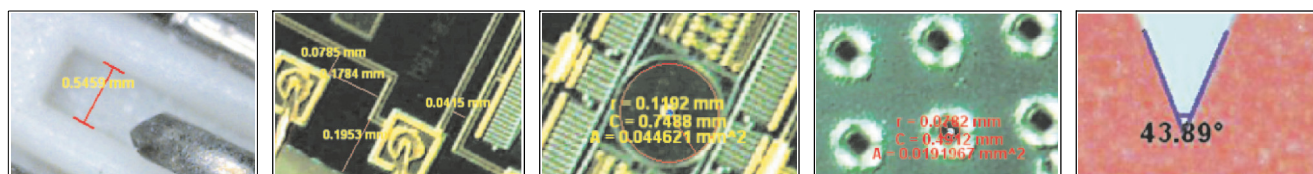
Measurement sample images taken with IDM-5MP Digital USB Video Microscope



Main menu of preview software screen



Main menu of Measurement software screen



Line: provides measurement from one point to other point

Continuous Line: provides measurement of multiple lines

Radius: provides measurement of radius, circumference & area of circle

Diameter Circle: measures diameter, circumference and area of circle

Angle: measures angle. Click and extend to desired angle

Salient Features:

- The USB connection eliminates the need for interface cards.
- The easy & convenient to use software for the collection and processing and measurement is included.
- Manual LED brightness control
- Calibration feature for accurate measurement

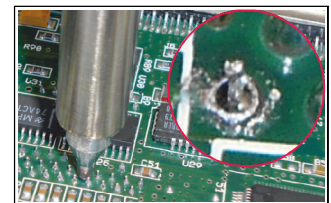
Specifications	
Image sensor	5 Mega Pixels
Still capture resolution	2592x1944, 2048x1536, 1920x1080, 1280x1024
Video capture resolution	1920x1080, 1280x1024
Focus Range	Manual focus from 10mm to 50mm
Magnification Ratio	20x~200x and 300x
Video format	AVI
Photo format	JPEG or BMP
Light source	8 LEDs with adjustable brightness
PC interface	USB2.0
Power source	5V DC from USB port
Operation system	Windows XP/Vista/Win7/ Win8/Mac 10.6~10.8
Bundle software	MicroCapture with measurement
Size Microscope	110mm (L) x 33mm (R)
Professional Stand	165mm(L) x118mm(W)x12mm (H)

No more clogging of desoldering nozzles



Salient Features

- Power/Control unit has in-built following features:
 - Password protection
 - In-built temperature calibration
 - Sleep Timer for longer life
 - Error message indication
- Reliable heating element does not require frequent changing
- Low running cost due to low priced/long life Desoldering Nozzles
- Every spare part is available ex-stock to minimize down time.



Thru-hole desoldering

[Click here to view Video](#)

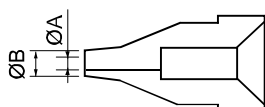
Specifications

- Input Supply : 230 VAC, 50Hz
- Heating Power : 90 Watt
- Temperature Range : 200°C ~ 480°C
- Vacuum Pressure : 600mm Hg
- Tip to Ground Potential : <2mV
- Tip to Ground Resistance : <2 Ohm

Scope of Supply

- DDS01 Power & Control Unit
- DDG01 Desoldering Gun
- Desoldering Bit
- Heavy Duty Support Rack
- Cleaning Sponge
- Operating Manual

Desoldering Nozzles for DDS01 Desoldering Station



P/N	Ø A mm	Ø B mm
A1005	1.0	2.5
A1006	1.3	3.0
A1007	1.6	3.0

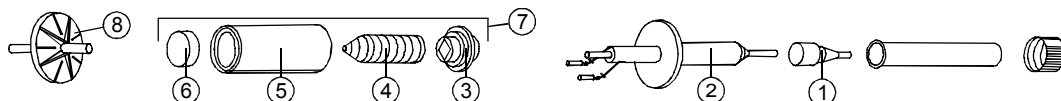


Ceramic Filters



Cleaning Pins

Assured availability, normally ex-stock, of Spare Parts of Desoldering Gun



SN	Description	Remarks
1	Desoldering Nozzle	Replace if worn out
2	Heating Element	Replace when display shows H-E/S-E
3	Front Holder	Replace if damaged
4	Spring Filter	Replace if damaged

SN	Description	Remarks
5	Filter Pipe	Replace if damaged
6	Ceramic Paper Filter	Replace look yellow in colour
7	Filter pipe Assembly	Replace if damaged
8	External Filter	Replace if suction is less

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Sl. No.	Customer's Name & City	Date of Sale	Qty
1	Adroit Control Engineers Pvt. Ltd., Faridabad	10.05.2017	1
2	Air Force Station, Gautambudh Nagar (U.P)	11.09.2018	1
3	Air Force Station, Betul (MP)	31.08.2019	1
4	Asquare Automation Systems, Faridabad	26.08.2020	1
5	Bharat Electronics Ltd., Pune	13.03.2018	1
6	Blue Chip Electronics, Secunderabad	11.09.2018	1
	Blue Chip Electronics, Secunderabad	30.10.2018	1
7	Champion Trading Co., Panchmahal	03.03.2020	3
8	EFD Induction Private Limited, Bangalore	03.10.2019	1
9	Finlabs Audio (P) Ltd., Mohali	30.11.2019	1
10	Harness Overseas Pvt. Ltd., Mohali	26.03.2019	1
11	Himanshu Lohani, Noida	28.02.2019	1
12	Hi-Rel Tech Private Limited., Hosur	27.07.2019	1
13	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	12.07.2019	1
14	Ind Micro Devices, Kolkata	03.06.2017	1
	Ind Micro Devices, Kolkata	07.03.2018	1
15	Landis Gyr Ltd., Kolkata	19.12.2018	1
	Landis Gyr Ltd., Kolkata	21.06.2019	1
16	Larsen & Toubro Limited., Mysore	05.03.2019	1
17	Laser Experts India LLP, Hosur	16.10.2018	1
18	Northern Coalfields Ltd., Nigahi (MP)	12.04.2019	1
19	Nucon Aerospace Pvt. Ltd., Hyderabad	01.04.2019	1
20	Panasonic India Pvt. Ltd., Gurgaon	17.10.2019	2
21	Premkumar Krishna, Chennai	05.02.2019	1
22	Punjab Trading Co., Amritsar	05.11.2017	1
	Punjab Trading Co., Amritsar	13.03.2018	1
23	Rajshree Electro-Systems, Panvel	09.11.2019	1
24	S.P & Sons, New Delhi	03.05.2017	1
25	Schneider Electric India Pvt. Ltd., Bangalore	26.12.2017	1
	Schneider Electric India Pvt. Ltd., Bangalore	13.07.2020	1
26	Schneider Electric IT Business Pvt. Ltd., Bangalore	13.03.2020	1
27	Shri Balaji Ji Enterprises, Ferozepur	07.09.2018	1
28	Sumuka Solutions, Bangalore	22.04.2019	1
29	Syrma Technology Pvt. Ltd., Bawal	19.07.2018	1
30	Tescom, Bangalore	05.12.2018	1
31	Trylo Industries, Surendranagar	21.08.2020	1
32	Versabyte Data Systems Pvt. Ltd., Bangalore	05.10.2018	1
33	Vivesvaraya Industrial and Technological Museum, Bangalore	16.11.2017	1

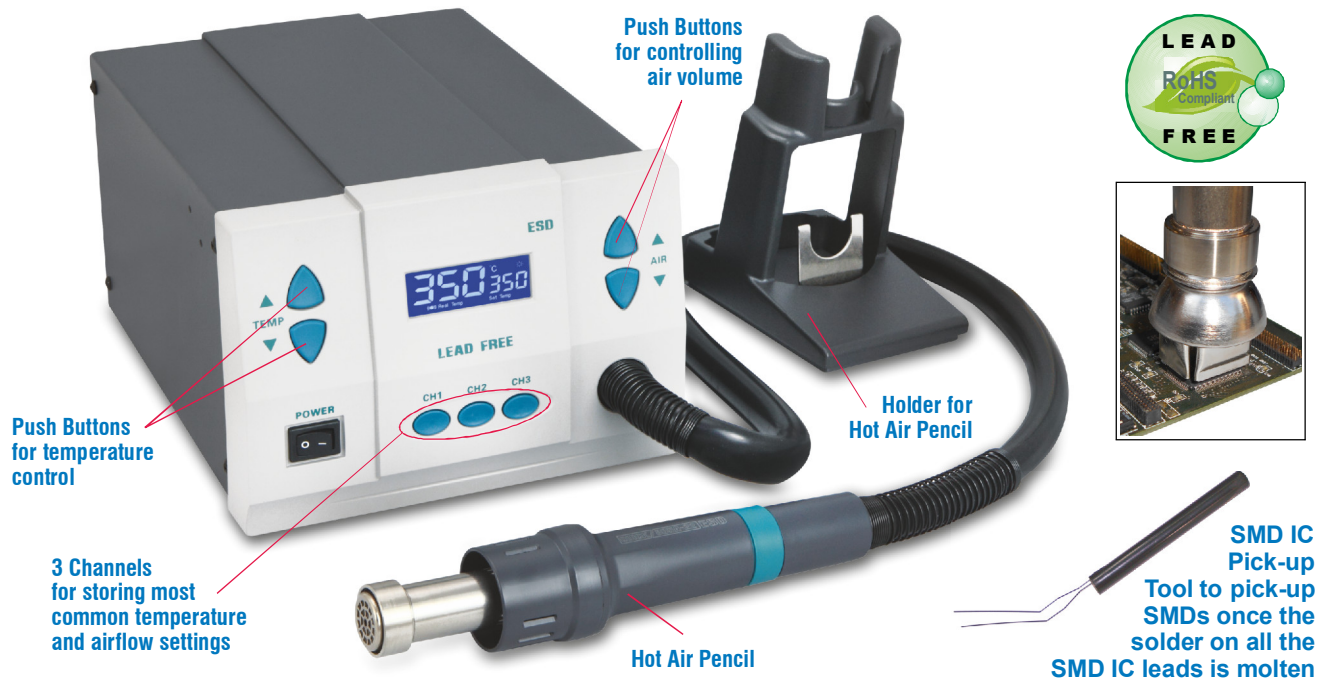
1000 Watt High Power Hot Air Rework Station Model HAS6DW

INDE
reliable & caring since 1976

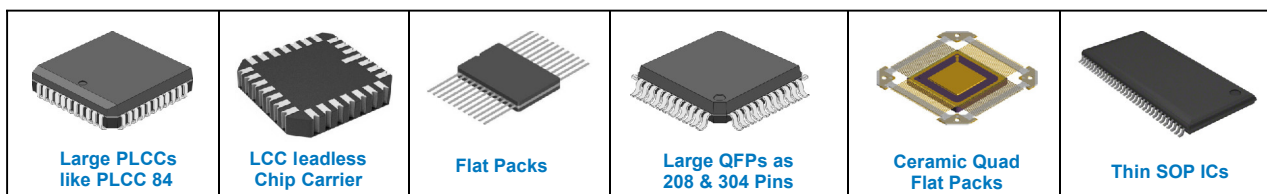
One Station suffices 0402 miniature Chips to large size (42.5x42.5 mm) SMD ICs

lower cost version yet very powerful

[Click here to view Video](#)



Wide range of Hot Air Nozzles are available to solder and desolder Fine-Pitch QFPs, PLCCs and SMD ICs up to 42.5x42.5mm size



Features

- High heat power and high air flow volume provides easy and fast desoldering of large QFPs & PLCCs
- Variety of Hot Air Nozzles available for different sizes of SMD ICs like QFPs, PLCCs, SOPs.
- Push Buttons for precise temperature adjustment
- Precise temperature control, not affected by airflow
- Has a powerful maintenance-free **Brushless** Motor
- Airflow is adjustable with Push Buttons
- Suitable for desoldering leadfree components
- In-built feature to store 3 'favourite' Temperature & Air Flow settings in Channels "CH1, CH2 & Ch3".
- In-built password protection and key-lock functions
- Auto-sleep feature allows system to go into stand-by mode to prolong the life of heater.
- Auto cooling also prolongs the life of heater and protect the handle from heating

Specifications

- Power : 1000 Watt
- Input Supply : 230VAC, 50Hz
- Temperature Range : 100°C ~500°C
- Airflow Range : 1 ~ 120 litre/min
- Dimension (approx.) : 188x245x135mm
- Weight (approx.) : 3.65 Kg

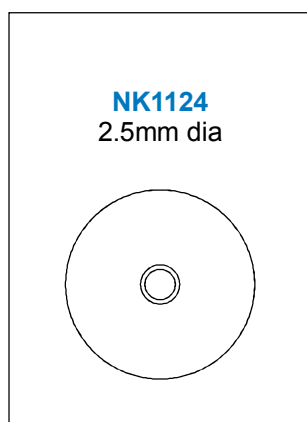
Scope of Supply

- HAS6DW Main Power & Control Unit
- Hot Air Pencil
- Support Rack
- Pick-up Tool
- One Round Hot Air Nozzle

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One Station suffices 0402 miniature Chips to large size (42.5x42.5 mm) SMD ICs



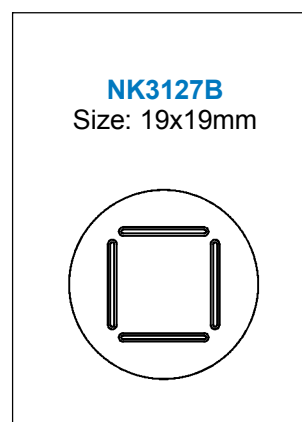
Suitable for SMD Chips



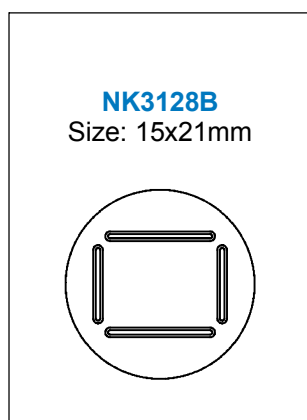
Suitable for SOTs



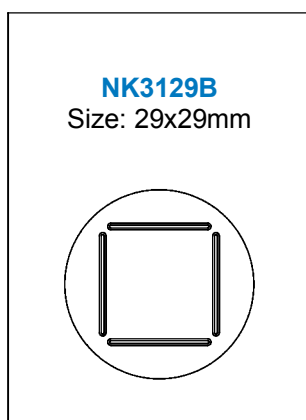
Suitable for SOTs



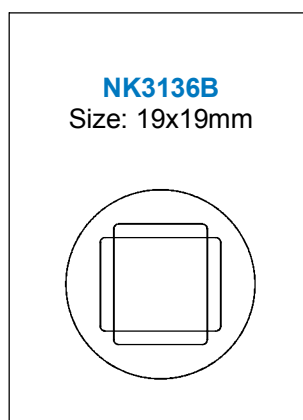
Suitable for QFP100



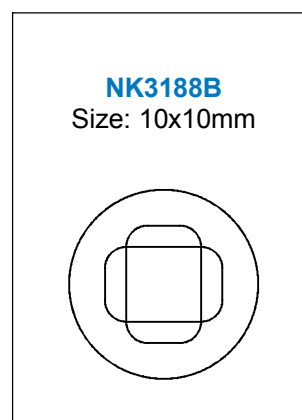
Suitable for P-QFP128



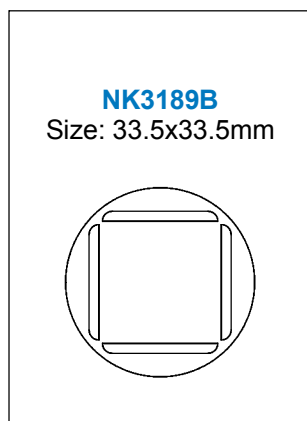
Suitable for C-QFP64



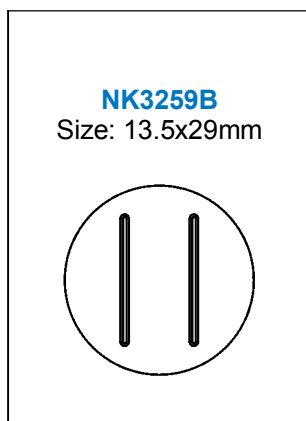
Suitable for PLCC 52



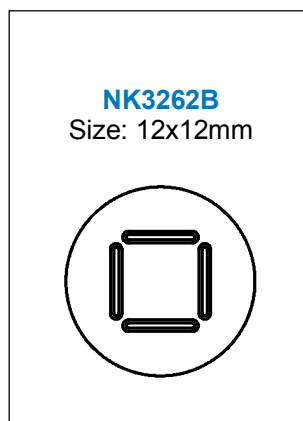
Suitable for PLCC 20



Suitable for PLCC100



Suitable for TSOP44



Suitable for TQFP44



Suitable for BQFP84

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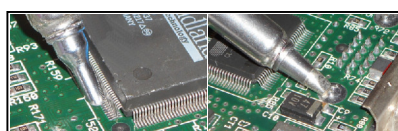
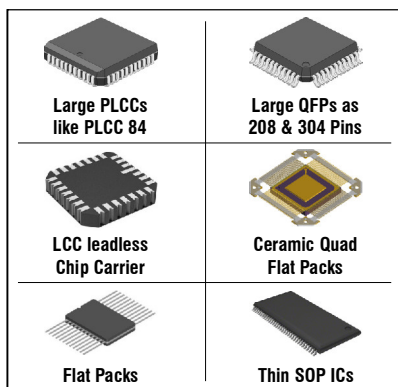
Partial User References (not complete list) of our Hot Air Stations

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	AB Industries, Bangalore	1	34	IPC Solutions, Gurgaon	2
2	Accelor Microsystem, Panchkula	1	35	Jabil Circuits India Pvt. Ltd., Pune	4
3	ADI EMT Pvt. Ltd., Bangalore	1	36	Livington India Pvt. Ltd., Gurgaon	1
4	Adlex System Manufacturing, Solan	1	37	Lovely Electronics, Sahnewal, Ludhian	2
5	Anand Electronics, Chandigarh	1	38	Multi Sphere Power Solutions Pvt. Ltd., Gurgaon	1
6	Astra Microwave Products Ltd., Andhra Pradesh	2	39	Nastroj India Pvt. Ltd., Ghaziabad	1
7	BEL Optronic Devices Ltd., Pune	2	40	National Atmospheric Research Lab., Gadanki	1
8	Blue Chip Electronics, Secunderabad	2	41	Panasonic India Pvt Ltd., Gurgaon	1
9	BPL Medical Technologies Ltd., Palakkad	1	42	Perfect Team Engineering Pvt. Ltd., Navi Mumbai	1
10	BSF FTR HQ, Srinagar	2	43	Prama Hikvision India Pvt. Ltd., Palghar	17
11	Cem Solutions Pvt. Ltd., Bangalore	1	44	Punjab Trading Co., Amritsar	2
12	Cyient DLM Pvt. Ltd., Bangalore	1	45	Qualcomm India Pvt. Ltd., Hyderabad	9
13	Cyient DLM Pvt. Ltd., Mysore	4	46	Rajshree Electro-Systems, Panvel	4
14	Component Master, Mumbai	1	47	Sasmos HET Technologies Ltd., Bangalore	1
15	Continental Automotive Comps (I) Pvt. Ltd., Bangalore	2	48	Schneider Electric India Pvt. Ltd., Bangalore	1
16	Deciblepro Pvt. Ltd., New Delhi	1	49	Sealed Energy System, Ambala Cantt	1
17	Denso India Pvt. Ltd., Haridwar	3	50	Sangam (India) Limited., Bhilwara	1
18	Distrionix, Kolkata	1	51	Saurer Textile Solutions Pvt. Ltd., Ahmedabad	1
19	Doordarshan Kendra, Trivandrum	1	52	Saurer Textile Solutions Pvt. Ltd., Mohali	1
20	Dr. DeepakTalreja, Kolhapur	1	53	Saurer Textile Solutions Pvt. Ltd., Coimbatore	4
21	EFD Induction Pvt. Ltd., Bangalore	1	54	Sehaj Synergy Technologies Pvt. Ltd., Jaipur	1
22	ESS ESS Enterprises, Fazilka	1	55	SGD Pharma India Ltd., Mahabदनगर	1
23	Flextronics Tech (I) Pvt. Ltd., Sriperumbudur	64	56	Shri Balaji Enterprises, Ferozepur Cantt	1
24	GVM Rail Pvt. Ltd., Mohali	1	57	Syrma Technology Pvt. Ltd., Chennai	2
25	Global Technologies, Bangalore	1	58	Syrma Technology Pvt. Ltd., Bawal	3
26	Electro Circuits Systems, Bangalore	1	59	System Controls Tech. Solutions Pvt. Ltd., Bangalore	1
27	Hella India Automotive Pvt. Ltd., Pune	2	60	TDK India Private Ltd., Nashik	1
28	Himanshu Lohani, Noida	1	61	Technomac, New Delhi	1
29	Honeywell Technology Solutions Pvt. Ltd., Bangalore	1	62	Tescom, Bangalore	2
30	Frog Cellset Ltd., Noida	1	63	Uniphos Environtronics Pvt. Ltd., Valsad	1
31	Icon Power Solution (P) Ltd., Gurgaon	1	64	Zobe India Pvt. Ltd., Daman	1
32	Indian Institute of Technologies, Roorkee	1	65	Vortex Engineering Pvt. Ltd., Chennai	1
33	Ind Micro Devices, Kolkata	1	66	V5 Semiconductors, Bangalore	1

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in-built Password Lock Function & Digital Temperature Calibration provision

Wide range of Hot Air Nozzles are available to solder and desolder Fine-Pitch QFPs, PLCCs and SMD ICs up to 42.5x42.5mm size



Fine pitch SMD and Thru-hole Soldering



SMD IC Pick-up Tool to pick-up SMDs once the solder on all the SMD IC leads is molten

Features

Rework Section

- High heat power and high air flow volume provides easy and fast desoldering of large QFPs & PLCCs
- Variety of Hot Air Nozzles available for different sizes of SMD ICs like QFPs, PLCCs, SOPs.
- Push Buttons for precise temperature adjustment
- Precise temperature control, not affected by airflow
- Has a powerful maintenance-free **Brushless** Motor
- Airflow is adjustable with Push Buttons
- In-built password protection and key-lock functions
- Auto-sleep feature allows system to go into stand-by mode to prolong the life of heater.
- Auto cooling also prolong the life of heater and protect the handle from heating

Specifications Soldering Section

Power Consumption	: 90W
Temperature Range	: 50°C ~ 500°C
Sleep Temperature Range	: 50°C ~ 200°C
Sleeping Time Range	: 0 ~ 250min
Temperature Stability	: $\pm 2^\circ\text{C}$ (stationary air, no load)
Tip to Ground Resistance	: $< 2\Omega$

Soldering Section

- Push Buttons for precise temperature adjustment
- Precise temperature control
- Suitable for soldering leadfree & SMD components
- In-built password protection and key-lock functions
- Auto-sleep feature allows system to go into stand-by mode to prolong the life of heater and Soldering Tips
- in-built digital temperature calibration facility to meet ISO requirements
- Various error message indication enables the user to rectify the fault immediately.
- Lightweight and comfortable for fatigue-free working

Scope of Supply:

- Main Power & Control Unit
- HAP2C Hot Air Pencil with Stand & Hot Air Nozzle
- SP2CESD Soldering Pencil fitted with Soldering Tip
- Stand with Cleaning Sponge for Soldering Pencil
- SMD IC Pick-up Tool

Specifications Rework Section

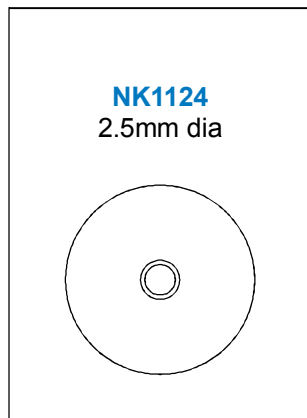
Power Consumption	: 1000W
Temperature Range	: 100°C ~ 500°C
Air Volume	: 1 ~ 120 Litre/min
Temperature Stability	: $\pm 2^\circ\text{C}$

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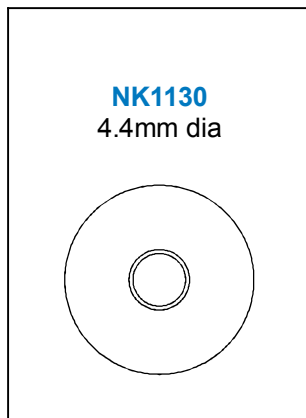
Warranty is 12 months from the date of invoice. It excludes all consumable parts as Heating Elements, Temperature Sensors, Soldering/Desoldering/Hot Air Tips, Cleaning Sponges, Cleaning Brass Wool and mechanically damaged parts.

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Hot Air Nozzles for IRS2C Hot Air and Soldering Rework Station



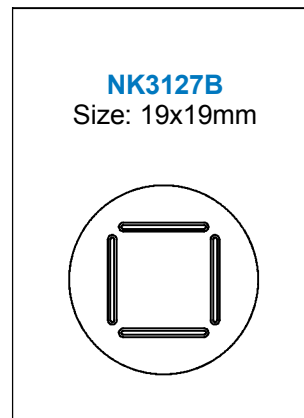
Suitable for SMD Chips



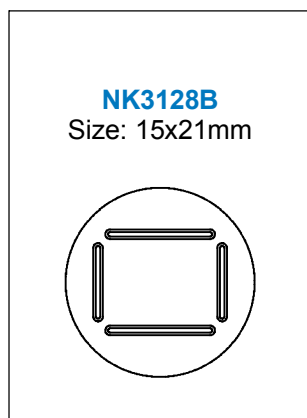
Suitable for SOTs



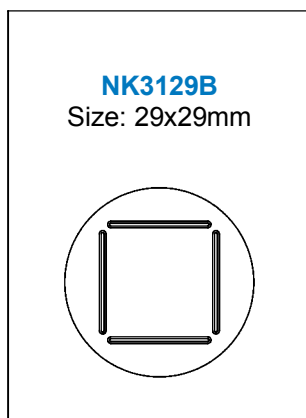
Suitable for SOTs



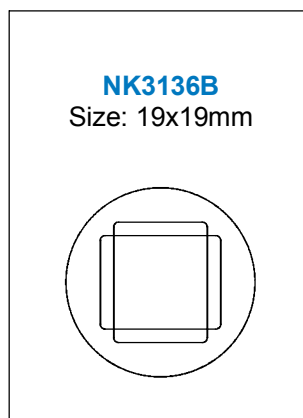
Suitable for QFP100



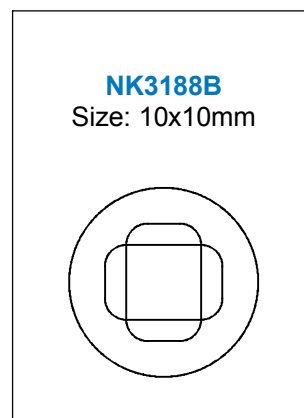
Suitable for P-QFP128



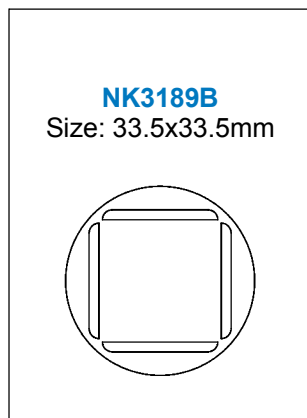
Suitable for C-QFP64



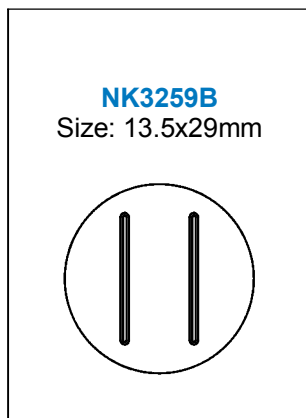
Suitable for PLCC 52



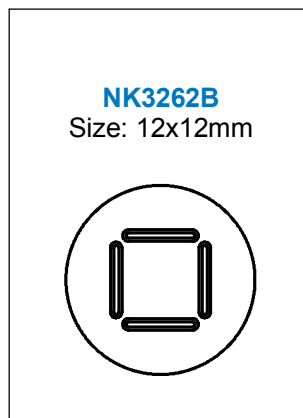
Suitable for PLCC 20



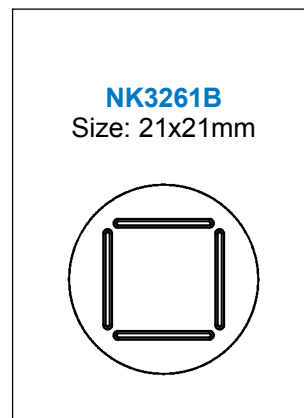
Suitable for PLCC100



Suitable for TSOP44



Suitable for TQFP44


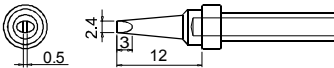

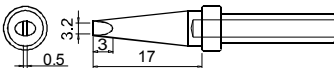

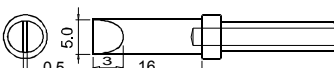

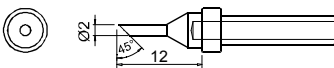

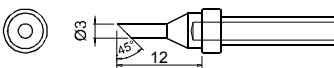

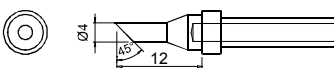

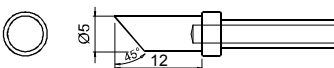

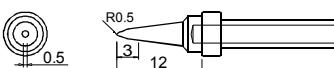

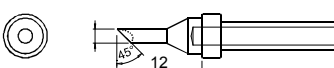


Suitable for BQFP84

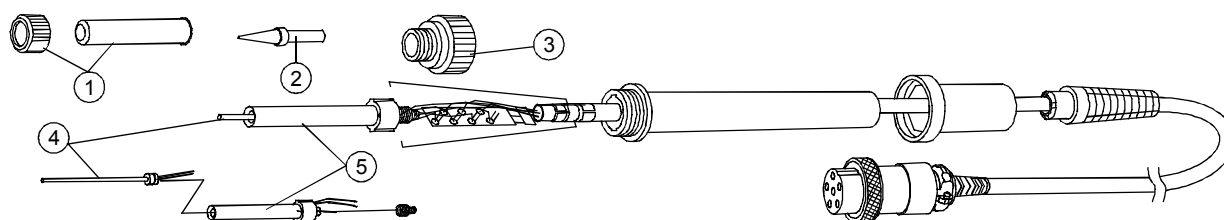
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Wide range of Soldering Tips are available for different soldering applications

Description	Actual Picture	Dimensional Diagram	Width A (mm)	Part Number
Chisel Tip for leadfree soldering			2.4	200-2.4D
Chisel Tip for leadfree soldering			3.2	200-3.2LD
Chisel Tip for leadfree soldering			5.0	200-5LD
Sloped Tip for leadfree soldering			Ø2	200-2C
Sloped Tip for Solar Panels			Ø3	200-3C
Sloped Tip for Solar Panels			Ø4	200-4C
Sloped Tip for Solar Panels			Ø5	200-5C
Round Tip for leadfree soldering			R0.5	200-B
Soldering Tip for SMD Soldering			3.0	200-3CM

Assured availability, normally ex-stock, of spare parts for Soldering Pencil



SN	Description	Remarks
1	Barrel & Nut Assembly	Whenever required
2	Soldering Tip	Replace if worn out
3	Heater Enclosure (Nipple)	Whenever required
4	Temperature Sensor	Replace when display shows S-E
5	Heating Element	Replace when display shows H-E

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Siborg is also a re-seller like Inde, they are not manufacturer of Smart Tweezers

SMART TWEEZERS

Additional Features in latest ST5S

- Smart Tweezers™ LCR meter allows you to test various component types, including secondary components of Dissipation Factor (D), Quality Factor (Q). This handheld model also includes other functions that result in a more detailed component analysis.
- The in-built ESR mode (Equivalent Series Resistance) helps you better understand the inherent resistance - behavior typically found in capacitors across selected frequencies.
- in its DIODE mode, Smart Tweezers™ tests diode polarity and indicates if it is short.
- This Smart Tweezers™ has a continuity detector for variable beeper sounds for resistance reading below set thresholds. Additionally, this function helps to locate shorted conductors (e.g. on a PCB)
- In manual mode, the Smart Tweezers™ measures a specific circuit parameter like L, C, R, Z or ESR. Manual modes also improves overall component type identification for in-circuit tests.
- Variable test signal output from 0.5 to 1.0 Vrms, allows to improve testing precision in different situation e.g. for in-circuit measurement and loose leaded ceramic capacitors.
- Visible and audible tolerance mode allows to perform component sorting.
- Math null function allows to store a pre-measured offset and improves measurement precision.

To avoid damage to SMART TWEEZER and to avoid electrical shock

- Disconnect circuit power supply & discharge all high-voltage capacitors before testing R, L & C
- Don't attempt to measure any in-circuit components when your circuit is alive or active
- Don't apply external voltage of more than 1.6V
- To charge the battery use only DC5V charger

Advance Devices, Inc. Canada is the **ORIGINAL** and **ONLY** Single manufacturer of Smart Tweezers in the world. Inde Enterprises is their Indian distributor and after-sales-service partner. We keep all spare parts to provide our proven after-sales-service.



Technical Specifications

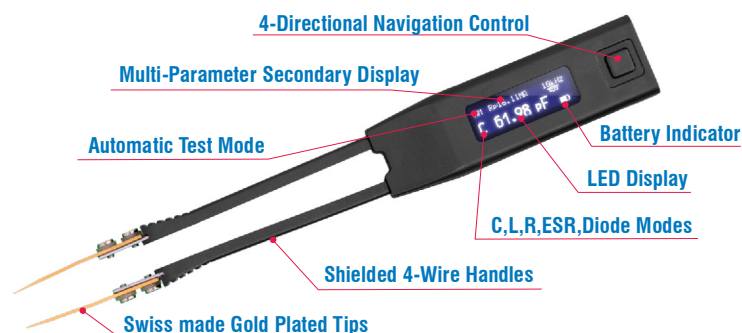
AC Test Mode frequency	: 1kHz, 10kHz, 120Hz, 100Hz
Test Signal Level	: 0.5/1.0 +/- 5% V _{rms} Sine wave
Test frequency accuracy	: 50PPM (0.005%)
Source Impedance	: 100Ω +/- 1%

Measurement Ranges

Resistance R	: 0.05Ω to 9.9 MΩ
Capacitance C	: 0.5 pF to 9999 uF
Inductance L	: 0.5 uH to 999 mH
Quality factor Q	: 0.001 to 1000
Dissipation factor D	: 0.001 to 1000

Other Specifications

Size	: 15.0 x 1.8 x 1.5 cm approx.
Weight	: 29 grams approx.
Battery Type	: 3.7V LiPO rechargeable 180mAH
Battery Life (continuous)	: 20 hours, 3 hours changing cycle



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An Efficient and Convenient Way to Test SMD Chip Components

- Built-in high-precision LCR probe
- Convenient one-hand operation
- Ideal for Surface Mount Devices
- Automated component identification
- Automated test range selection
- Manual C, R, L, Z and ESR Modes
- Adjustable test signal levels
- Swiss-made precise test leads
- Diode Polarity/Short Testing
- Secondary D, Q and ESR parameters
- Extensive in-circuit test capabilities
- Built-in Li-PO battery



Smart Tweezers™ greatly simplifies testing and troubleshooting process.

Resistance, capacitance and inductance can be measured with automatic selection of the test parameters and range.

Smart Tweezers™ is a handheld LCR meter of a new concept. It provides perfect solution for test and identify SMD Chip parts as well helps in troubleshooting of complex electronic systems. Its unique mechanical and electronic design combines a pair of precision gold-plated tweezers and a digital LCR meter in compact, lightweight, battery powered instrument. It measures resistance, capacitance, inductance with high accuracy, also identifies component identifications automatically.

Testing SMDs (Surface Mount Devices)

Surface mount devices are usually tiny and without wire leads, making them more difficult to test and identify than conventional leaded components. Smart Tweezers™ gives users an easy way to sort and evaluate loose components and to perform on-board measurements and debugging.

Precise Tips reliably contact even the smallest SMD components and take measurements from already soldered devices. The Probe can also be used to test conventional components with wire leads too short to insert into the test terminals.

Automated Measurements

The Smart Tweezers™ measures quickly and accurately using the automatic component identification feature, thus eliminating unnecessary trial and error time. Smart Tweezers™ automatically specifies L, C, or R with parallel and series mode and selects a proper measurement range and test frequency for high accuracy measurements. The unit displays component type and more detailed component analysis such as Z and ESR.

Lightweight and Ergonomic

The integrated measurement Tips allow the operator to use one hand and focus attention on the tested component and on the job at hand. Sorting, testing and troubleshooting become more efficient and cost effective. 4-wire shielded Smart Tweezers™ assures low capacitance measurement and resistance offset

High Precision Gold Plated Test Lead Tips

Spare High Precision Straight Tips



Optional High Precision Bent Tips



Siborg is also a re-seller like Inde, they are not manufacturer of Smart Tweezers

Accuracy Specifications

Resistance (Impedance)

Range	Resolution	100 Hz	1 kHz	10kHz
1 Ω	0.001 Ω	0.7% + 50	0.7% + 50	0.7% + 50
10 Ω	0.01 Ω	0.7% + 8	0.7% + 8	0.7% + 8
100 Ω	0.01 Ω	0.2% + 3	0.2% + 3	0.2% + 3
1000 Ω	0.1 Ω	0.2% + 3	0.2% + 3	0.2% + 3
10 k Ω	0.001 k Ω	0.2% + 3	0.2% + 3	0.2% + 3
100 k Ω	0.01 k Ω	0.5% + 5	0.5% + 5	0.5% + 5
1000 k Ω	0.1 k Ω	0.5% + 5	0.5% + 5	0.5% + 5
10 M Ω	0.001 M Ω	2.0% + 8	2.0% + 8	5.0% + 8

Accuracy for the ranges 1 R ~ 100 R is specified after subtract of the offset resistance.

Capacitance

Range	Resolution	100 Hz	120 Hz	1 kHz	10 kHz
1000 μ F	0.1 μ F	0.5% + 5	0.5% + 5	NA	NA
100 μ F	0.01 μ F	NA	0.3% + 3	0.5% + 5	NA
10 μ F	0.001 μ F	NA	0.2% + 3	0.2% + 3	0.5% + 5
1 μ F	0.1 nF	NA	0.2% + 3	0.2% + 3	0.2% + 3
100 nF	0.01 nF	NA	0.2% + 3	0.2% + 3	0.5% + 3
10 nF	0.001 nF	NA	0.5% + 5	0.2% + 3	0.5% + 3
1000 pF	0.1 pF	NA	NA	0.5% + 5	0.5% + 3
100 pF	0.01 pF	NA	NA	0.5% + 10	0.8% + 20
10 pF	0.001 pF	NA	NA	NA	1.0% + 50

Accuracy for the ranges of 10 pF~1000 pF is specified after subtract of stray capacitances for test leads.

Inductance

Range	Resolution	100 Hz	1 kHz	10 kHz
10 μ H	0.001 μ H	NA	NA	1.0% + 5
100 μ H	0.01 μ H	NA	1.0% + 5	0.7% + 3
1 mH	0.1 μ H	0.7% + 10	0.5% + 3	0.5% + 3
10 mH	0.001 mH	0.5% + 3	0.2% + 3	0.5% + 3
100 mH	0.01 mH	0.5% + 3	0.2% + 3	NA
1 H	0.1 mH	0.2% + 3	NA	NA NA

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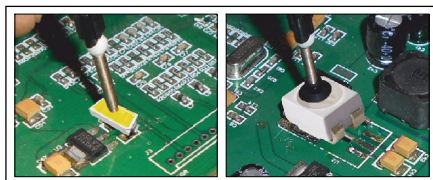
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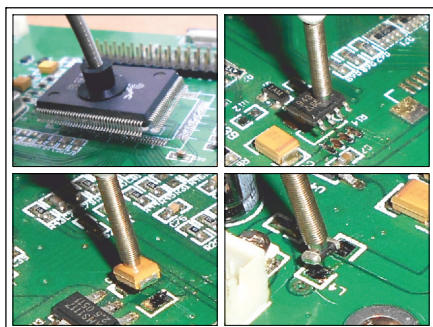
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high vacuum pick-up is effective from as small as 0204 Chip to large LED Chips

IVS-381A Electrically-operated very powerful Vacuum Pick-up Pen is designed for pick and place large SMD components as LED chips, large chip capacitors, large chip resistors and large size SMD ICs. Additionally this ensures no damage to all such expensive SMD components during picking and placing



Easy and safe pick and placing of SMD LEDs



Easy and safe pick and place large size SMD components as QFPs, PLCCs, TSOPs, SOICs



Features

- ESD safe design avoids damage to static sensitive expensive components
- Ergonomically designed and light weight Pick-up Pen for operator's comfortable working
- Adjustable and powerful vacuum suction force up to 120g
- Different Suction Nozzles and Rubber Pads for different sizes of SMD components

Specifications

Power	: 7 Watt
Pump type	: Diaphragm
Max Suction	: 600mmHg (0.06 MPa)
Dimensions	: 130x160x110mm (approx.)

Scope of Supply

- Main Unit
- Straight Suction Nozzle (1.45 mm outer dia)
- Bent Suction Nozzle (1.45 mm outer dia)
- Operating Manual

Partial User References (not complete list) of our Vacuum Pick-up Pen

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	Anuvidyut Private Limited, Roorkee	1	13	Integrated Electronics Technologies Pvt. Ltd., Thane	2
2	Balaji Sales, Indore	1	14	Jabil Circuits India Pvt. Ltd., Pune	5
3	Bionic Hope Private Limited, Patna	1	15	Micro Separations, Ghaziabad	1
4	Blue Chip Electronics, Secunderabad	1	16	O/E/N India Limited, Ernakulam	1
5	Cooper Connections Pvt. Ltd., New Delhi	1	17	Prima Automation (India) Pvt. Ltd., Gandhinagar	2
6	Dixon Technologies India Ltd., Chittoor	2	18	Predictive & Proactive Technologies Pvt. Ltd., Vadaodara	1
7	DRI India Relays Pvt. Ltd., Bangalore	2	19	SMC Pneumatic (India) Pvt. Ltd., Noida	1
8	EME Automation, Goa	1	20	TDK India Pvt. Ltd., Bawal	1
9	Hindustan Platinum Pvt. Ltd., Navi Mumbai	1	21	The Tata Power Co Ltd., Bangalore	8
10	Hi-Rel Tech Private Ltd., Hosur	1	22	Vikram Sarabhai Space Centre, Thiruvananthapuram	6
11	Hitach Hi-Rel Power Electronics Pvt. Ltd., Sanand	4	23	Vortex Engineering Pvt. Ltd., Chennai	1
12	Indian Institute of Technology, Roorkee	2			

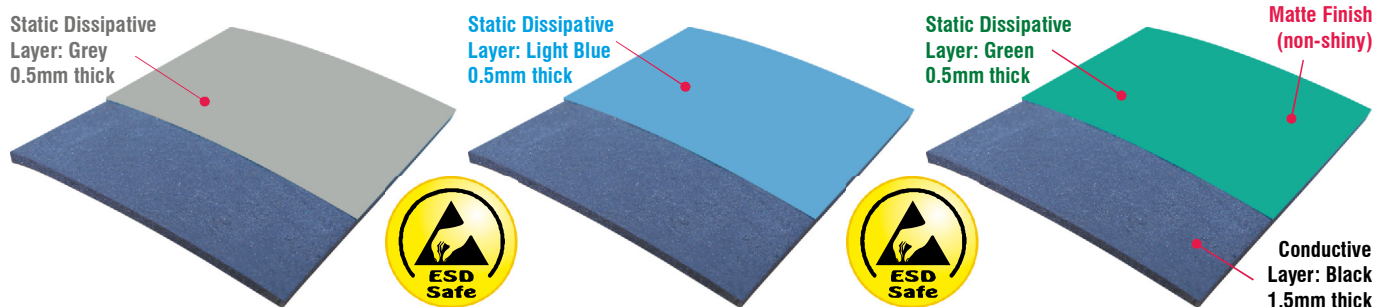
Warranty is 12 months from the date of invoice. It excludes all consumable parts as suction cups etc and all mechanically damaged parts as Needles. shown trademarks are property of their respective owners. While the information contained herein in, has been carefully compiled to the best of our knowledge, nothing is intended as representation and warranty on our part; and no statement shall be construed as recommendation to infringe 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.



Ready-to-use **Hi-Quality ESD Safe Rubber Table Mats** as per your size

INDE
reliable & caring since 1976

Creates ESD Safe environment against damaging static charges



2-Layer ESD Rubber Mats have a top layer of static dissipative rubber layer laminated to a black conductive rubber bottom layer. Surface resistivity of the top layer is $10^6 \sim 10^9 \Omega$ and the bottom layer is $10^3 \sim 10^5 \Omega$. Our 2-layer ESD Rubber Mats are resistant to commonly used solvents in electronics assembly/repair work.

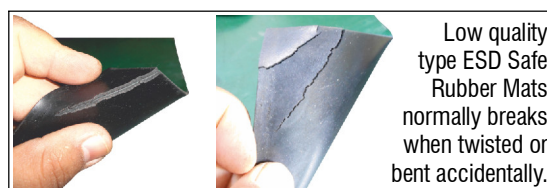
These Table Mats are strongly recommended as first basic requirement when setting-up ESD Safe Workstation for electronic assembly/repair/field servicing. ESD Safe working environment is necessary to protect expensive micro-electronic devices.

Specifications:

- Resistivity of surface layer : $10^6 \Omega \sim 10^9 \Omega$
- Resistivity of bottom layer : $10^3 \Omega \sim 10^5 \Omega$
- Wear rate : 0.02g/cm^2
- Electrostatic dissipation time : $< 0.1 \text{s}$
- Impact Brittleness : -250°C without destruction
- Temperature (no incision)
- Colour/Finish : Blue/Green/Grey, Matte
- Thickness : 2 mm
- Tensile strength : 4 ~ 6Mpa
- Elongation at break : 250%
- Tear Strength : 20.6KN/m (Right Angle Type)
- Temperature resistant : 120°C



Our Hi-end Top most quality long lasting ESD Safe Rubber Mats



Low cost & Low quality ESD Rubber Mats others supply

We specialize in supplying ready-to-use ESD Safe Table Mats as per sizes of customers



Following sizes are what we are supplying commonly to many customers at present

Part Number	Size (Feet)
ESDTM-0204	2 x 4
ESDTM-0205	2 x 5
ESDTM-0206	2 x 6
ESDTM-0207	2 x 7

Part Number	Size (Feet)
ESDTM-02505	2.5 x 5
ESDTM-02506	2.5 x 6
ESDTM-02507	2.5 x 7
ESDTM-02508	2.5 x 8

Part Number	Size (Feet)
ESDTM-0304	3 x 4
ESDTM-0305	3 x 5
ESDTM-0306	3 x 6
ESDTM-0307	3 x 7

Part Number	Size (Feet)
ESDTM-0405	4 x 5
ESDTM-0406	4 x 6
ESDTM-0407	4 x 7
ESDTM-0408	4 x 8

You are welcome to contact us for custom sizes as per your required sizes.

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No Warranty is applicable for these consumable items.



Grounding Cord

P/N: IGC-1619

- Protect static sensitive devices from static charge
- Both ends has snap button
- Length: 8 feet (approx.)
- Cord diameter: 2.4mm (approx.)
- Copper wire with PU layer
- in-built 1MOhm resistance



ESD Safe Wrist Strap

P/N: IWSESD-1602

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



Common Grounding Point

P/N: ESD-CGP-4H

- Designed for use at workstations
- Provides grounding points for two Wrist Straps as well for Table Mat and Runners
- One end has 2 Snap Buttons and 2 Banana Jacks & other end has Ring Terminal
- Length: 6 feet (approx.)



Grounding Cord

P/N: IGC-1601

- Designed to ground ESD Table Mat
- 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 Safe Shielding Grid Bags

P/N: ISBESD-0054

Protects stored PCBs and components from the static charges inside as well from outside through the static dissipative coating on the outer surface.

- Material: Polyester/polyethylene +static dissipative coating
- Surface resistance of 10^6 - $10^{10}\Omega$
- Size: 250 x 305mm (approx.)
- Colour: Silver Grey
- Thickness: 2-4 mil
- Static Decay: **<0.03 s**



ESD Safe Conductive Bags (Pink Colour)

P/N: ICBESD-0051

Protects stored PCBs and components from the static charges inside as well from outside through the static dissipative coating on the outer surface.

- Material: Low density polyethylene
- Surface resistance of 10^8 - $10^{10}\Omega$
- Size: 250 x 297mm
- Colour: Pink
- Static Decay: <2 s

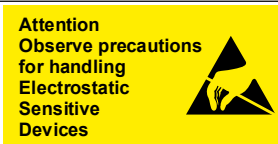


ESD Warning Tape

P/N: IWTESD-1614

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 Chip Component Box

P/N: ESD-BOX-M



- Surface resistance: $10^4 \sim 10^6 \Omega$
- External size: 56x32x21 mm (approx.)
- Internal size: 40x26x16 mm (approx.)
- Spring loaded top cover
- Useful to store miniature SMD Chip Components

ESD Safe Conductive Tray

P/N: ESD-TR-9



- Surface resistance: $10^4 \sim 10^6 \Omega$
- 9 sections each of 100x100x10 mm size
- Internal size: 300x300x10 mm (approx.)
- External size: 315x315x15 mm (approx.)

ESD Safe Conductive Tray

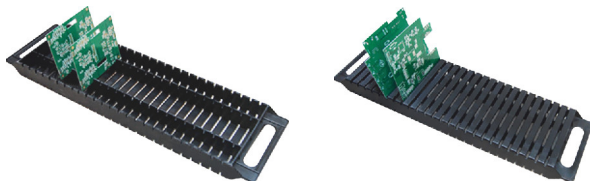
P/N: IESDT-3204



- Surface resistance: $10^4 \sim 10^6 \Omega$
- External size: 435x335x67mm (approx.)
- Internal size: 420x320x60mm (approx.)
- Very useful to store and clean static sensitive devices

ESD Safe PCB Tray

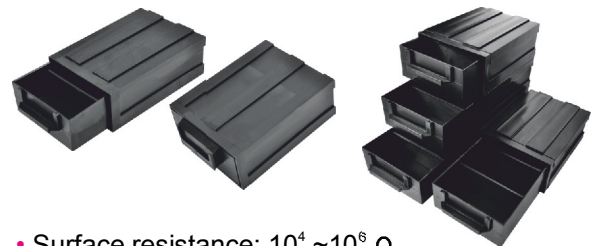
P/N: IPCBT-3134



- Economical carrier for handling soldered or bare PCBs of any size
- Surface resistance: $10^4 \sim 10^6 \Omega$
- Size: 435x160x30 mm (approx.)
- 25 slots to carry 25 PCBs

ESD Safe Component Box

P/N: IESDCB-3105

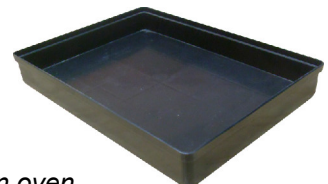


- Surface resistance: $10^4 \sim 10^6 \Omega$
- External size: 138 x 96 x 48mm (approx.)
- Internal size: 120 x 82 x 36mm (approx.)
- Easy-to-use slide-in drawer types
- Very useful to store SMD Chip Components
- Horizontally and vertically stackable design

ESD Safe Conductive Tray

P/N: IESDT-3203

heat resistant
upto 180°C



*Many customers use in oven
for pre-baking of electronics components*

- Surface resistance: $10^4 \sim 10^6 \Omega$
- External size: 320X230X42mm (approx.)
- Internal size: 300X215X37mm (approx.)
- Heat resistant upto 180°C

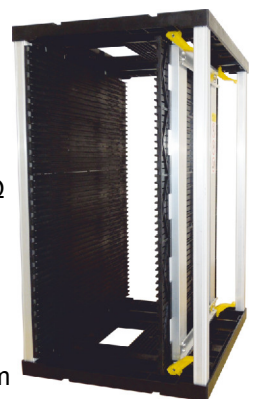
Durable Hi-Quality ESD Safe PCB Rack

P/N: IPMR-805

easily adjustable
with 4-Levers

Specifications

- Surface Resistance: $10^4 \sim 10^6 \Omega$
- Heat Resistance: 80°C
- Approximate Size: 355x320x563 mm
- PCB Capacity: 50 pieces
- PCB Size: 355 x 50~250 mm
- Guide Slot: 3.5Dx5Wx10P mm
- Top & Bottom Plates: Plastic
- Easy-to-adjust Lever Mechanism



Hi-quality heavy
duty Screws
for channels



Hi-Quality,
easy-to-adjust
Lever mechanism



High strength
thick wall
metallic channel

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There is no warranty for these consumable type items.



ESD Safe Soft Tip Reverse Action Straight Tweezer

P/N: ESD-259AX

- Anti Magnetic
- ESD Safe Precision Tweezers
- Non-Corrosive & Non-Glare type
- Stainless Steel
- Length: 140 mm

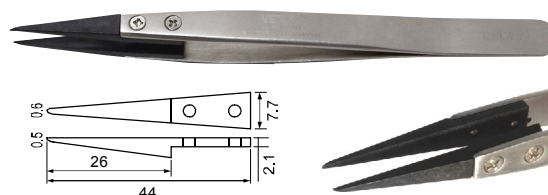


ESD Safe Soft Tip Straight Tweezer

P/N: GCP-147

for handling fragile SMDs. Does not scratch surface of fragile parts and sensitive SMD ICs

- Non-Magnetic
- Resistance: $< 10^8$ Ohm
- Tip Material : PPS, ESD Safe
- Length: 130 mm (approx.)

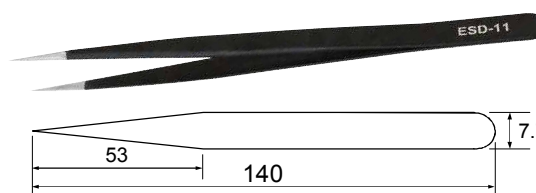
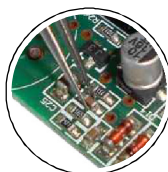


ESD Safe Longer Length Straight Tweezer

P/N: ESD-11

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: 140mm (approx.)

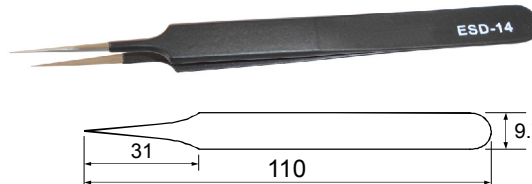
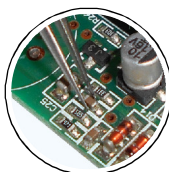


ESD Safe Straight Tweezer

P/N: ESD-14

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.)

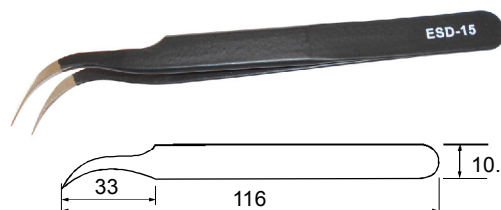
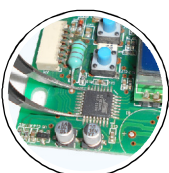


ESD Safe Curved Tweezer

P/N: ESD-15

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.)





Heavy Duty ESD Safe Cleaning Brush

P/N: ICBESD-1607

Removes dirt on PCBs & on other static sensitive components and also discharge static charge
Brushes minimize static charge generation and dissipate static charge

- Conductive plastic brush
- Surface resistivity: $10^6 \sim 10^9 \Omega$
- Bristle matrix: 3x12
- Bristle length: 19 mm (approx.)
- Length: 170mm (approx.)



ESD Safe Cleaning Brush P/N: ICBESD-1608



- Conductive plastic brush
- Surface resistivity: $10^6 \sim 10^9 \Omega$
- Bristle matrix: 2x6
- Bristle length: 18mm (approx.)
- Length: 150mm (approx.)

ESD Safe Cleaning Brush P/N: ICBESD-1616

vertical type with Long Bristles



- Conductive plastic brush
- Surface resistivity: $10^6 \sim 10^9 \Omega$
- Bristle matrix: 1x3
- Bristle length: 42mm (approx.)
- Length: 125mm (approx.)

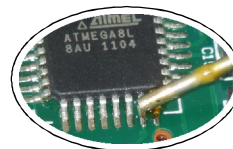
ESD Safe Dispensing Bottle P/N: ESD-DB-180



- Made up of Polyethylene
- Stainless steel one touch pump top
- Capacity: 180ml
- Surface resistivity: $10^9 \sim 10^{10} \Omega$

ESD Safe Flux Bottle P/N: EFABN-60

P/N: EFABN-60

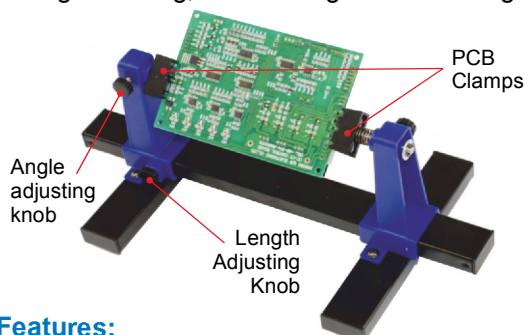


- Made up of Polyurethylene
- Stainless Steel Hypodermic Needle
- Capacity: 80ml
- Surface resistivity: $10^9 \sim 10^{10} \Omega$

Adjustable PCB Holder

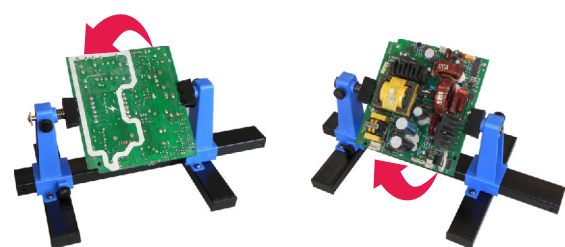
P/N: IPCBH200ESD

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



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
- The metal stand has 4 rubber feet to ensure stability



360 degree adjustable

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.

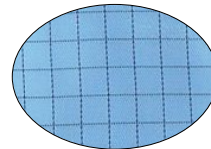


ESD Safe Apron in Blue Colours

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 $10^6\Omega \sim 10^7\Omega$ and quick static dissipation for effective control of ESD.

- Durable anti static property
- High color fastness and tear strength.
- Breathable to wear.
- Available colour: Blue and White
- Available sizes: Medium (M) & Large (L)
- Ordering codes:
 - IAMESD-1604 for Medium size
 - IALESD-1605 for Large size



5mm Strip Fabric



ESD Safe Gloves with PU Coated Finger Tips

P/N: IPUG-Series

- Surface resistivity: $10^6 \sim 10^9\Omega$
- Made from soft nylon for operator's comfort
- PU coated Finger Tips
- Elastic, absorbent and non-slip type
- Integrated with Carbon Fiber
- Sizes: Medium (M) & Large (L)
- Ordering codes:
 - IPUGMESD-1611 for Medium size
 - IPUGLESD-1612 for Large size



Static Dissipative



ESD Safe Fabric Shoe Covers (Reusable type)

P/N: IESDFSC-26108

- Material: 98% polyester, 2% conductive yarn and 5mm grid
- Surface resistance: $10^6 \sim 10^9\Omega$
- Colour: Blue
- Size: Standard
- **Reusable and washable**



ESD Safe Slippers

P/N: ISESD-1606

- ESD Safe and skidproof
- Tenacious sole and upper
- Comfortable & convenient
- Washable & wear-resistant
- Resistivity: $10^6 \sim 10^9\Omega$
- Colour: Blue
- Size: 42 and 44



ESD Safe Pink Finger Cots (1440 Pcs/Bag)

P/N: IESDPFC-086

These Finger Cots avoid skin allergy, prevent perspiration pollutants of the components to the fingertips. These are widely used in electronic assembly, photonics, medical and pharmaceutical manufacturing.

- Surface resistivity: $10^8 \sim 10^9\Omega$
- ESD Safe, powder free
- Made from 100% latex material
- Meets MIL-STD-105E for holes, tear, stains and electrostatic properties
- Specially in rolled form so that these can easily put on the fingers
- Soft, comfortable and good wear resistance





Wrist Strap Tester

P/N: ISM-498

Wrist straps are the primary method to minimize the static charge on the human body. They must be able to drain this charge as rapidly as it is generated. For this reason it is important to test wrist straps on a regular basis to ensure they are working properly. To ensure the proper working of Wrist Straps, this model 498 is used to check the grounding quickly.

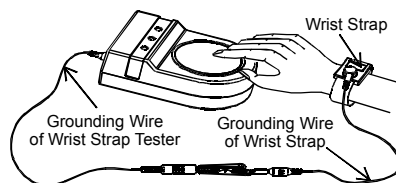
- Use anywhere to check personnel ESD grounding quickly
- Checks contact resistance between Wrist Strap and skin

Specifications:

- Resistance Test Range : 750KΩ ~ 10MΩ
- Power Supply : 9-volt battery
- Changeover Point : ±10%
- Dimensions (approx.) : 117mm (L) x 80mm (W) x 40mm (H)
- Weight (approx.) : 110 grams

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.



Scope of Supply:

- Wrist Strap Tester Model 498
- Power Supply: 9V Battery
- Grounding Wire

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

Continuous Wrist Strap Monitor

P/N: 495

Model 495 Continuous Wrist Strap Monitor continuously monitors the ESD integrity of wrist strap and its 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.

Features:

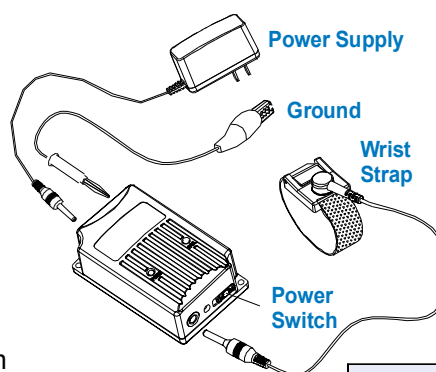
- Sound and light alarm
- Portable and compact, easy to use
- Real time monitoring of Wrist Straps
- Real time monitoring of grounding

Specifications:

- Input Voltage : 6 ~ 12 VDC
- Working Current : <50mA (12VDC)
- Weight (approx.) : 50 grams
- Dimensions (approx.) : 75Lx46Wx27H mm

Scope of Supply:

- Wrist Strap Monitor
- Grounding Cord
- Power Supply Adaptor (DC 6-12V)



LED	Value
OK (Green)	825KΩ ~ 9MΩ
Fail (Red)	11MΩ and above
Fail (Red)	765KΩ and below



Digital Static Charge Meter to check ESD Safety

P/N: 193

Checks static charge on human beings and also discharge the same

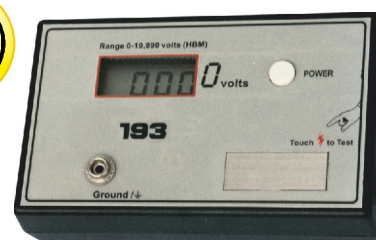
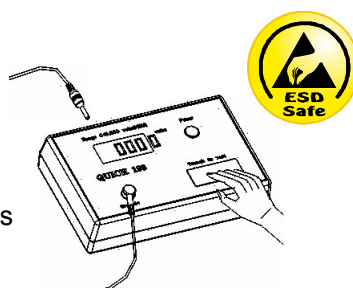
This Static Charge Checking Instrument checks and discharges electrostatic charge on human body. It displays electrostatic charge on human body digitally; and also has provision to discharge the same before personnel enter ESD protected area. It is also effective in detecting the electrostatic potential 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 polarities

Specifications:

Test range	: 0 ~ 19990 Volts
Accuracy	: $\pm 8\%$, ± 1 digit ($0 \pm 10000V$)
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.

Routine ESD Surface Resistivity Tester with Digital Display

P/N: 499D

(not mere LEDs indication as in low priced models)

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	: $\pm 10\%$
Condition	: $0^\circ C \sim 49^\circ C$, 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 $9.5 \times 10^{10}\Omega = 95G\Omega$

Interpretation of Digital Display

- bL** --- It needs Battery replacement.
- CE** --- It means Calibration Error, needs re-calibration.
- Lr** --- Test resistance is less than 300Ω ($3 \times 10^2\Omega$).
- Hr** --- Test resistance is more than $3T\Omega$ ($3 \times 10^{12}\Omega$).



Electrods on the back side



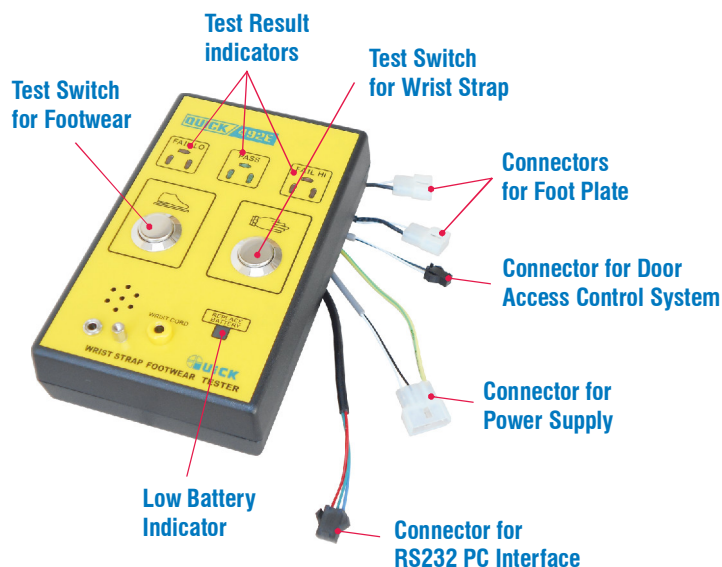
Digital display readout



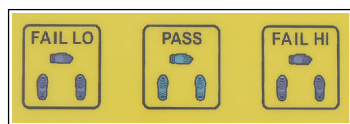
Top-of-the-line Wrist Strap & Footwear Combo ESD Tester Model 492E

used by many MNCs in repeat orders • ANSI ESD S20.20 Compliant

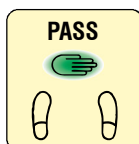
INDE
reliable & caring since 1976



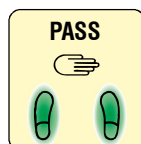
Test Result Indications



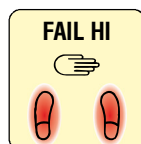
Nine Test Lights for Wrist Strap and Foot Wear testing (3 Pass Green, 3 Fail Low & 3 Fail high)



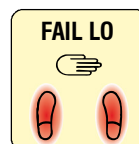
Wrist Strap PASS Resistance in range



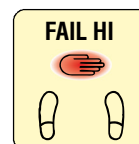
Foot Wear PASS Resistance in range



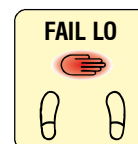
Foot Wear FAIL Resistance High



Foot Wear FAIL Resistance Low



Wrist Strap FAIL Resistance High



Wrist Strap FAIL Resistance Low

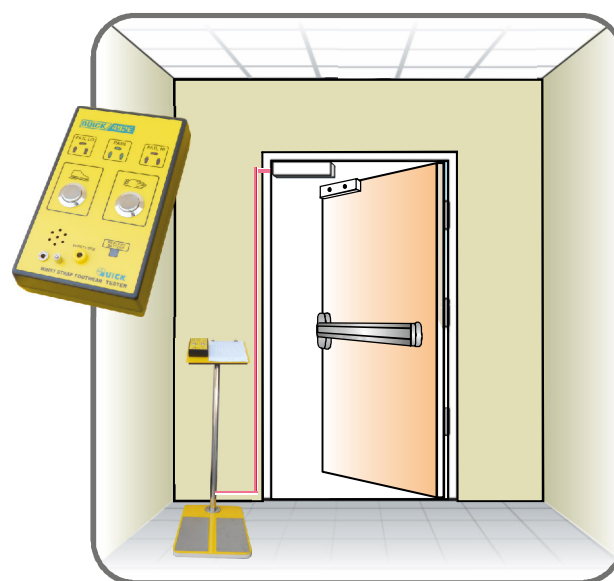
Features

- 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.

Specifications

Power supply	: 9V Battery
Touch-Point	: Voltage $\leq 400V$ (peak, DC or AC)
Switching Output	: Switch Current ≤ 130 mA
	: Touch-Point Resistance of $< 30\Omega$
	: Test PASS: Touch-Point Close
	: Test FAIL: Touch-point open
Accuracy	: Wrist Strap testing: $\pm 10\%$
	: Footwear testing: $\pm 10\%$ (100 K Ω), $\pm 20\%$ (100 M Ω), $\pm 30\%$ (1 G Ω)
Access Control	: $\pm 400V$ (Peak DC/AC); 100mA
Signal Output	: (Recommended Relay KAQW214)
Dimensions (approx.)	: 160 mm x 100 mm x 40 mm
Weight (approx.)	: 0.6 kg (Test Unit only)

Interfacing with Door Access System will have to be done by the customers only



This Combo Tester can be connected to Door Control System thru Access Control System Signal from this Tester. It gives signal of $\pm 400V$ (Peak DC/AC); 100mA to operate relay (KAQW214) of Access Control System

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

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Stainless Steel Body Static Charge Eliminator

P/N: ESDSET28

- Compact size, light weight, portable design with adjustable angle
- Rapidly neutralizes static charges
- Adjustable fan speed can generate large range of ion stream
- Stable ion balancing
- Long lifetime magnetic transformer protect the unit from short circuit
- Built-in emitter cleaner for easy cleaning
- Stainless steel housing, ideally suitable for clean room applications

Specifications

Power consumption	: 30 Watt
Output Voltage	: 5.6 KVAC
Ion Balance	: $\pm 10V$
Air Volume	: $\leq 2.4m^3/min$
Effective range	: 400 x 1500mm
Ozone production	: $\leq 0.03ppm$ (150mm from centre of air outlet)
Noise	: 45dB
Dimensions	: 140x84x220mm (approx.)
Weight	: 2.4 Kg (approx.)

**Stainless Steel body
for Cleanroom
applications**



Ionizing Air Gun + High Voltage Power Supply

P/N: 445D+446

The 445D Ionizing Air Gun is used for removing static charge and dust of the inaccessible charged object. It will easily clean the parts from static charge and also will keep the same static free after that.

Features

- Compact design for easy operation
- Rapidly neutralizes static charges
- Built-in regulator of remnant voltage for effective ion balancing
- Two ionizing Air Guns can be connected with Power Supply model 446

Specifications

Input Voltage	: 220VAC/50Hz
Secondary Output Voltage	: 4.0 KVAC (0 ~ -40%)
Power Consumption	: 20 Watt
External Air requirement	: 0.1 ~ 0.7MPa (Dry & Clean)
Effective Distance	: within 1000mm
Discharge Time	: 0.4S (Test Distance: 15cm)
Standard length of Cable	: 3 meter (approx.)

Time for Static Neutralizing

Pressure	Air Flow	Decay Time	Noise
0.2MPa	0.06m ³ /min	1.2s	$\leq 71dB$
0.4MPa	0.12m ³ /min	0.6s	$\leq 88dB$
0.6MPa	0.18m ³ /min	0.4s	$\leq 95dB$
0.7MPa	0.20m ³ /min	0.3s	$\leq 98dB$

Note: Testing distance 15 cm from the outlet of the air gun



**Model 445D
Ionizing Air Gun**



**Model 446
High Voltage Power Supply**



ESD Safe SMD Side Cutter (Slim - Relieved Head)

CK Tools Germany P/N: T3886

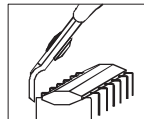
- Sharp, precision cutting edges with extra full flush cut
- Special tool steel blade, hardened for long term cutting performance
- ESD handles - dissipative 10^8 Ohm
- Dual component handle design for comfortable working
- Smooth-action return spring for convenience during repetitive work
- Cutting Capacity: 1.3mm dia wire
- Length: 140mm (approx.)



ESD Safe Side Cutter (Reverse action cutting blades)

CK Tools Germany P/N: T3884

- Special reverse action cutting blades ~ for accurate cutting of DIP pins
- Micro, tapered head for greater access in confined spaces
- Special tool steel, blade hardened for long term cutting performance
- Black oxidized finish for corrosion resistant and anti-glare
- Dual component handle for comfortable working
- Smooth-action return spring for convenience during repetitive work
- Cutting Capacity: 1.3mm dia copper wire
- ESD handles - dissipative 10^8 Ohm
- Length: 132mm (approx.)
- Cutting angle: 48°

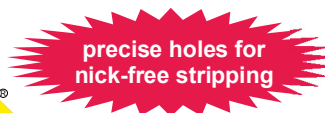


ESD Safe Precision Wire Stripper

CK Tools Germany

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

- ESD handles - dissipative 10^8 Ohm
- Dual component handle design for comfortable working
- Black oxidized finish for corrosion resistance
- Smooth-action return spring for repetitive work
- Also has Cutting Capacity: 3.0mm dia wire
- Precise stripping notches for nick-free stripping



CK Tools Germany P/N: T3893

- Stripping capacity: 0.25, 0.32, 0.4, 0.5, 0.6 & 0.8mm (30, 28, 26, 24, 22 & 20 AWG)

CK Tools Germany P/N: T3894

- Stripping capacity: 0.4, 0.5, 0.6, 0.8, 1.0 & 1.3mm (26, 24, 22, 20, 18 & 16 AWG)

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

CK Tools Germany P/N: T4741SESD

- 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



The Set contains:

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

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CK Tools Germany Classic Precision Side Cutters

- Special alloy steel, drop forged, hardened & tempered for exceptional strength & durability
- Precision box joint construction for permanent adjustment free jaw alignment
- Induction hardened jaws for outstanding long term performance
- Mirror polished surface eliminates the risk of damage from flaking chrome
- Spot welded double leaf springs for consistent, repetitive action
- PVC handles for comfort & grip



CK Tools P/N: T3774



CK Tools P/N: T3775

- Cutting Capacity: 1.5mm dia wire
- Length: 120mm (approx.)

- Cutting Capacity: 2.0mm dia wire
- Length: 135mm (approx.)

CK Tools Germany Classic 8 inch Combination Plier

CK Tools Germany P/N: T3621B8

- Induction hardened jaws for outstanding long term performance
- High quality steel, drop forged, hardened and tempered for exceptional strength and durability
- Heads polished and lacquered for corrosion protection
- Wipe clean PVC handles for added convenience
- Length 200mm (8 inch)
- Precision engineered jaws for exceptional grip
- Cutting capacity:
 - Hard wire upto 2.0mm dia
 - Medium wire upto 2.8mm dia
 - Soft wire upto 4.0mm dia



Precision Cutting Plier

P/N: CHP-170

- Cutting capacity: 1.3mm dia copper wire
- Comfortable TPR coated grip for fatigue-free working
- Light weight, easy to handle
- Length: 132mm (approx.)
- Equipped with a return spring. Return spring increases ease of cutting with an automatic opening of jaws



Precision Cutter

P/N: GPL-133

- Cutting capacity: 1.0mm dia copper wire
- Comfortable TPR coated grip for fatigue-free working
- Light weight, easy to handle
- Length: 130mm (approx.)
- Equipped with a return spring. Return spring increases ease of cutting with an automatic opening of jaws



Precision Tweezer with Serrated Tips and Serrated Grips

P/N: OOD-SA

- For applications requiring strong grip tips
- Fine straight tip with serrations
- Material: Stainless Steel
- Length: 120mm (approx.)



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Spring Loaded No-Clean Flux Pen

P/N: 8100

For precision flux application in a convenient micro tip Pen format.

Gently press the chiseled tip against work surface to start the flow. The dispensing mechanism eliminates dripping, pooling and wastage.



Super Fine Mesh 1.5 mm width Desoldering Wick

- High quality Desoldering Wick with no clean flux
- Pure oxygen-free copper wire
- Width: 1.5mm
- Length: 1.5 meter



Dry Metal Wool type Soldering Tip Cleaner

P/N: ISTC-1615

Tip Cleaner is perfect tool for cleaning the hot Soldering Tips without decreasing the temperature of soldering tip while cleaning, as happens in normally while cleaning with wet sponges



P/N: ISTCW-1618
Spare Dry Wool

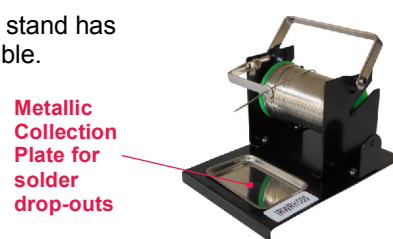
- Made from brass wire and comes with a convenient holder for easy use.
- It features low abrasive brass wire which helps to clean the Soldering Tips thoroughly.

Solder Wire Reel Stand

Solder Wire Reel Stand with guide is used to hold the Solder Wire Reel. This stand has Collection Plate also for drop-out solder wire to avoid mess on the working table.

- Holds upto 1 kg roll of Solder Wire
- Maximum Solder Spool width: 80mm
- Shaft Diameter: 15mm
- Keeps Work Bench neat and clean
- Provides smooth draw out of Solder Wire
- Size: 145(L) x 113(W) x 120(H)mm (approx.)

P/N: IRWRH500



Metallic
Collection
Plate for
solder
drop-outs

Pre-Cut Cleaning Sponge P/N: ICS-XXXX

- Sponge cleans surface oxidation from Soldering Tips
- Made from natural cellulose
- Does not stick on Soldering Tips
- Available Sizes:
 - P/N: ICS-5570 (55x70mm)
 - P/N: ICS-3055 (30x55mm)



How to use these Cleaning Sponge:

- Dip the Sponge in water and squeeze it maximum.
- Only moist sponge cleans soldering tips thoroughly.
- Excess water in sponge damages the Soldering Tips

Weller Tip Activator

for prolonging the life of Soldering Tips

- Regular use will prolong the life of Soldering Tips.
- It is compatible with leadfree and non-leadfree solders
- Rotate the hot soldering tip on solid paste surface for regeneration.



Note: There is no shelf life for this.

Handheld LED Illuminated Magnifier P/N: GS-378

- Magnification: 4X
- Lens diameter: 60mm
- Lens material: Acrylic
- Material: ABS
- LED illumination
- Uses three AAA batteries



1000 Pcs Assorted Cable Ties P/N: CVK-1000



- 1000 Pcs assortment Kit
- 10 Colours Cable Ties
- Length: 4 inch
- Packed in transparent round barrel with handle



Universal 360 Degree Swivel Table Clamp Vise

P/N: GV-190

This handy vise can be placed anywhere on workbench. The ball cup allows the vise to be adjusted to any angle for extreme versatility.

- Padded rubber jaws open upto 78mm
- Mounts to bench top up to 50mm thick
- Rotates 360 degree
- 0 to 90 degree swivel position



Professional Cable Tie Gun P/N: GTA-312

- For cable ties of 2.2 to 4.8mm width
- Professional quality Cable Tie Gun
- Tension adjustment mechanism
- For tie thickness: <1.6mm
- Automatic cut-off
 - Just pull the trigger and the tie will automatically tightened and cut



Knife with Aluminium handle P/N: GKN-014

- Blades are made from surgical steel and honed for fine cutting
- 4 Jaws Chuck holds the blade securely
- High impact plastic safety cap
- Spare 10 pcs blades set available optionally



Desoldering Pump P/N: ZD-192A



- Durable construction, fully Aluminium body
- Long lasting rust-free spring
- High efficiency in a very compact design
- Suction Capacity: 30cm-Hg
- Light weight, easy to operate

Mains-operated Soldering Iron 50 Watt

P/N: ZD-30CN



- Ideal for general purpose soldering
- Cushion grip for comfort gripping
- Input supply: 230VAC
- Power: 50 Watt
- Fitted with long life Soldering Tip
- Ceramic heating element for consistent heating

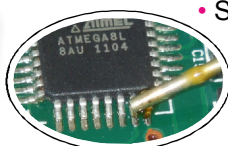
Flux Application Bottles with Needle

P/N: IFABN-100 & IFABN-60

Ideal for dispensing flux or any other liquids Squeeze bottle for precise liquid dispensing

- IFABN-100: Capacity 100ml
- IFABN-60: Capacity 60ml

- Easy to re-fill
- Stainless Steel Fine Tip Needle
- Made up of Transparent Polyethylene



Flux Application Bottles with Needle

P/N: WTS-001

Ideal for dispensing flux or any other liquids Squeeze bottle for precise liquid dispensing

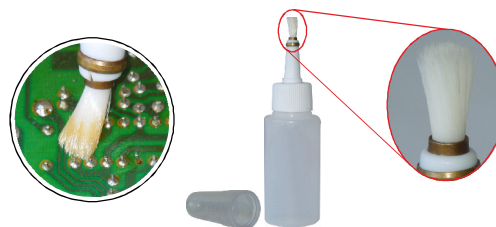
- Stainless Steel Fine Tip Needle
 - Made from Transparent Polyethylene
 - Easy to re-fill
 - Capacity: 60ml



Flux Application Bottle with Brush

P/N: IFABB-60

- Dispenses flux smoothly
- Integrated dispensing brush for smooth application of flux.
- Cap to cover the brush when not in use to avoid evaporation of flux.
- Capacity: 60 ml



Alignment Tool for Trimming applications

P/N: IAT-200

- Ideal for trimming applications
- Stainless Steel Tip
- Length: 200mm
- Tip Width: 2mm



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55CC Dispensing Barrels with Piston

P/N: IDB-XXX

- Suitable for optical light sensitive adhesives
- Straight design in conjunction with high precision piston

- Excellent flow properties
- Achieve precise dispensing



P/N: IDB-A55CC
TE Amber UV Resistant Barrel



P/N: IDB-B55CC
TE Black UV Resistant Barrel



P/N: IDB-T55CC
TE Transparent Barrel

Adaptor for 55CC Barrels

P/N: IDA-55CC

The Adaptor connects the Dispensing Barrel to the air output of the Liquid Dispensing System

- Suitable for 55CC barrels
- Designed with a safety locking action to prevent accidental disengagement
- Precision molded for easy to install and remove with minimal effort
- Molded Adaptor with flexible polyurethane air hose



100CC Dispensing Barrel with Piston Transparent colour

P/N: IDB-T100CC

- Suitable for commonly used liquid materials
- Straight design in conjunction with high precision piston
- Excellent flow properties
- Achieve precise dispensing



Dispensing Needles

Each needle is made using precision machining, precision polishing needle tube wall, no edges, to ensure continuous dispensing accuracy.

Plastic base Syringe Needle P/N: IFDNG-18G



Specifications	Inner Dia	Colour
18G	0.84mm	Green

Plastic base Syringe Needle P/N: IFDNP-20G



Specifications	Inner Dia	Colour
20G	0.60mm	Grey

Plastic base Syringe Needle P/N: IFDNB-19G



Specifications	Inner Dia	Colour
19G	1.27mm	Black

All-Plastic Declined Needle P/N: IFDNG-16G



Specifications	Inner Dia	Colour
16G	1.20mm	Grey

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