

**at about 50% cost of similar German make
with higher performance and reliability**

Heat Plate Model 870

- Heating Surface 200x180 mm
- Temperature upto 300°C
- Digital display of SET or ACTUAL temperature
- Digitized controls for precise temperature setting



**Metal Cover for
Reflow Oven
like working**



Specifications

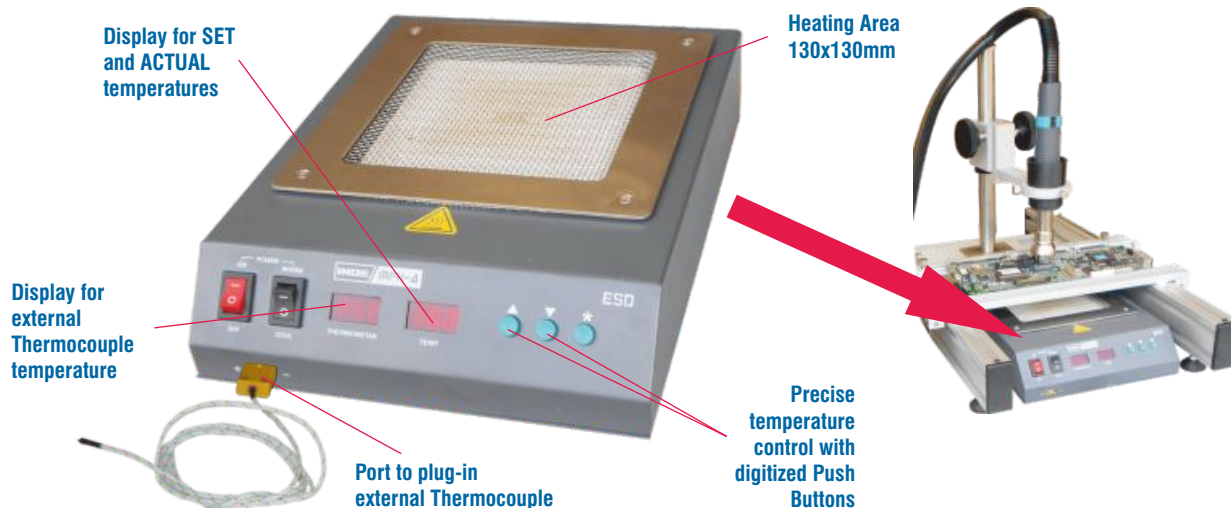
Input Power	: 230 V/ 50 Hz, 800 Watts
Heating area	: 200x180 mm
Plate material	: Aluminum
Temperature sensor	: K-type thermocouple
Temperature range	: 50° ~ 300°C
Dimensions	: 280x290x100 mm (approx.)
Weight	: 5.8 kg (approx.)

Features

- Highly reliable Heating Elements ensure surface temperature is evenly distributed on total surface area.
- Closed Loop PID Temperature Controller provides precise and stable temperature as per setting.
- Temperature can be set in steps of 100, 10 and 1. Press Star Button for 2 seconds until desired step flashes.
- Separate Switch for Power ON/OFF and separate Switch for Heating and Cooling are provided.
- There is an in-built Temperature Calibration provision to meet ISO-9000 requirements.
- Hinged Top Hood creates an oven like environment for effective reflow soldering application.
- Actual temperature of Heat Plate is also displayed even under un-heated condition to avoid injuries to operator.
- Designed for pre-heating and reflow soldering of hi-reliability aerospace type PCBs which require even heating.

designed for bottom pre-heating of multilayer & high heat sink Printed Circuit Boards

The IRPH-4 Pre-heating Plate enhances the effectiveness of the MFRS500SUSB systems. It provides bottom heating to the PCB under repair, therefore minimizing the risk of thermal damage to expensive SMD ICs and warping of expensive multilayer PCBs. Additionally it also speeds up the rework/repair process.



Features:

- High quality, long life IR Ceramic Heating Elements ensure fast and even pre-heating with high efficiency
- in-built temperature measurement with thermocouple allows continuous monitoring of PCB temperature
- Pre-set temperature is achieved accurately and remains stable due to closed loop PID control design.

Specifications:

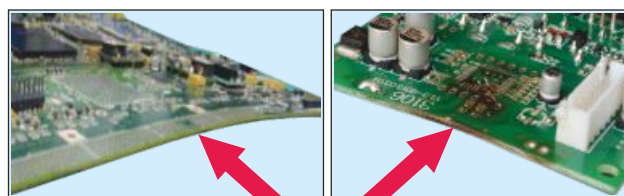
- | | | | |
|------------------|---------------------|----------------------|-----------------------|
| • Heating Power | : 600 Watt | • Temperature Sensor | : K-type Thermocouple |
| • Plate Area | : 130 x 130mm | • Temperature Range | : 50°C ~ 350°C |
| • Heating Source | : IR Ceramic Heater | • Measurement Range | : 0 ~ 600°C |

Why bottom Preheating is recommended ?

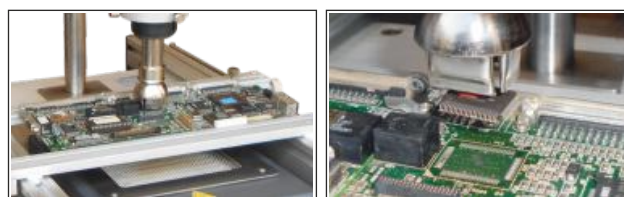
Today's electronics design has higher density of expensive devices on the multilayer PCBs which inherently require gentle pre-heating of PCBs to avoid thermal damaging of expensive SMD ICs, and also must avoid warping of PCBs.

If pre-heating is not used, it can lead to pad lifting, delamination, warping and burning of expensive PCBs & large SMD ICs during rework/repair. Beside these visible defects, the invisible defects like internal layer cracking etc. will also result if pre-heating is not used.

To avoid above failures, PCBs will normally need even pre-heating around 120°C on top side while reworking. The Pre-heater model IRPH-4 serves this purpose. PCBs are heated evenly and gently from bottom side for safe reworking of SMD ICs.



PCB warping/burning possibility without pre-heating



Safe reworking of SMD ICs using bottom Preheater

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 etc.

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.

**Adjustable Temperature Hot Air Gun with Digital Display
Model I885**



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
Air Volume	: 180 litre/minute at Step I, cold air 200 litre/minute at Step II, hot air 400 litre/minute at Step III, hot air
Weight	: 1.25 kg (approx.)

Scope of supply:

- Heat Gun
- Shrinking Nozzle
- Operating Manual

Electrically-operated (on Mains Supply) Soldering Tips Cleaner P/N: TCS-20

Motorized Soldering Tips Cleaner has soft brass brushes to clean Soldering Tips which get oxidized during production use.

- Removes oxidized undesirable deposit effectively without damaging Soldering Tips to increase life of Soldering Tips back.
- Use Tip Activator for re-tinning Soldering Tips to make them like new types.

Specifications:

Power	: 5 Watt
Dimensions	: 125x70x65 mm (approx)
Weight	: About 830 grams



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

IVS-381 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



Features

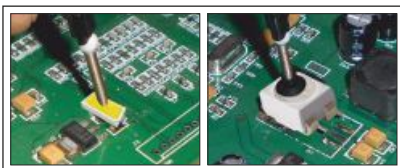
- ESD safe design avoids damage to static sensitive expensive components
- Ergonomically designed and light weight Pick-up Pen for operator's comfortable working
- Adjustable and powerful vacuum suction force up to 120g
- Different Suction Nozzles and Rubber Pads for different sizes of SMD components

Specifications

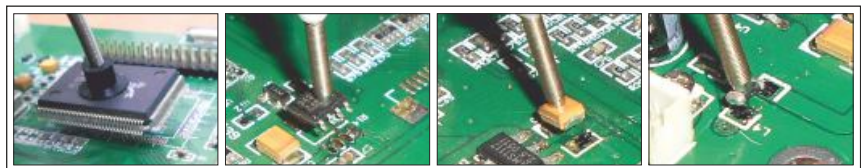
Power	: 7 Watt
Pump type	: Diaphragm
Max Suction	: 600mmHg (0.06 MPa)
Suction Pad	: Conducting Silicon Rubber
Dimensions	: 130x160x110mm (approx.)

Scope of Supply

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



Easy and safe pick and place SMD LEDs



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