

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

The IHP400 Pre-heating Plate enhances the effectiveness of the IMFS600 Rework 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.
- TFT LCD display for accurate temperature and other parameters
- Fast and convenient in-built digital temperature calibration
- Three channel temperature design for easy and fast temperature switching

Specifications:

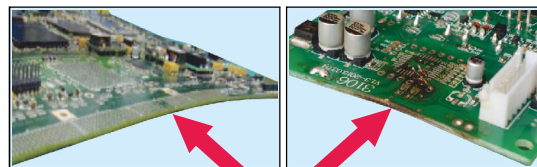
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|---------------------|--|-------------------------|------------------------------|
| • Heating Power | : 400 Watt | • Temperature Stability | : $\pm 1^{\circ}\text{C}$ |
| • Heating Area | : 130 x 130mm | • Temperature Sensor | : K-type Thermocouple |
| • Heating Source | : IR Ceramic Heater | • Measurement Range | : 0 ~ 600 $^{\circ}\text{C}$ |
| • Temperature Range | : 50 $^{\circ}\text{C}$ ~ 500 $^{\circ}\text{C}$ | • Thermometer Accuracy | : $\pm 5^{\circ}\text{C}$ |

Why bottom Preheating is recommended ?

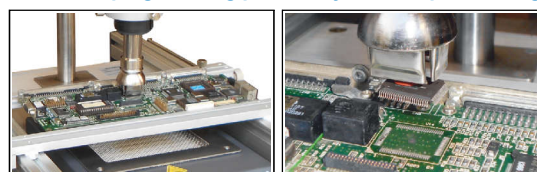
Today's electronics design has higher density of expensive devices on the multilayer PCBs which inherently require gentle pre-heating of PCBs to avoid thermal damaging of expensive SMD ICs, and also must avoid warping of PCBs.

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 $^{\circ}\text{C}$ on top side while reworking. The Pre-heater model IHP-400 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

Warranty is 12 months from the date of invoice.

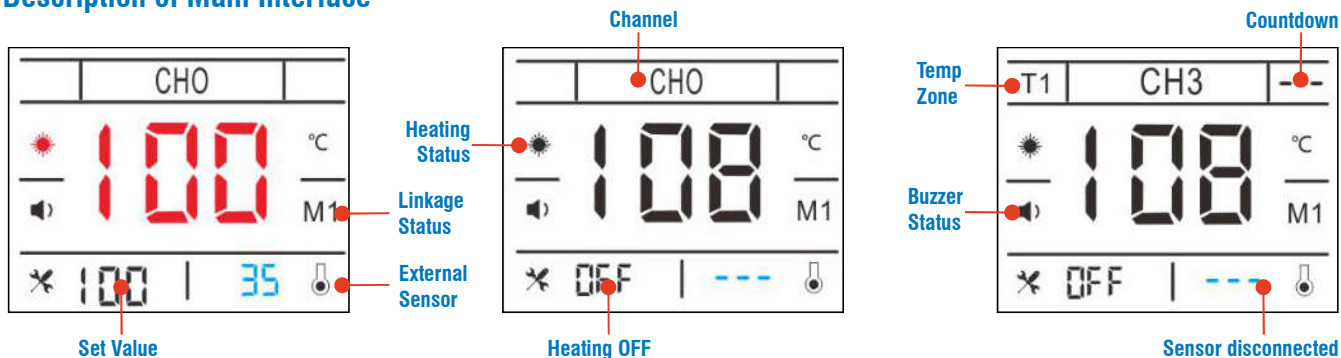
It excludes consumable parts as Heating Element, Sensor etc. and any mechanically damaged parts.

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on-site services can be provided at extra charges if pre-paid by customer in advance

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Description of Main Interface



Symbols	Descriptions
CH0, CH1 CH2, CH3	Displays which Channel is Selected
	Continuously Red Light indicates Temperature is rising to Set Temperature When Red and Black Light Flashes alternatively indicates set temperature is achieved The blue light indicates the cooling State
	Buzzer ON
200	Display the Temperature measured by external Temperature Sensor
T1/T2	T1 is Temperature Profile 1 and T2 is Temperature Profile 2

Symbols	Descriptions
	Buzzer OFF
	Currently Set Temperature Value
	Press to turn OFF or ON temperature control
	No External Temperature Sensor is connected
	Count Down

Description of Keys

KEYS	Descriptions/Function
	1. In main interface press to switch between CH1, CH2 & CH3 2. In setting interface: Return/Candle
	1. Press in the main interface to turn ON/OFF 2. In the setting interface: Advance/Save 3. In the main interface, long press 2 sec to enter the setting interface
+ and -	Press at same time to enter temperature calibration interface
+	1. In the main interface, press to increase the parameter value 2. In the setting interface: Page up
-	1. In the main interface, press to decrease the parameter value 2. In the setting interface: Page down



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