

HOTBEAM 05

2,000 W IR under-heating system



The high performing under heater in IR technology. This device is perfectly suitable for hand soldering tasks on mid-size and heavy PCB. The under-heating system can be used simply and comfortably in the various operating modes (consistent power, consistent temperature and profile) via the intuitive menu navigation. The innovative heating-management system ensures a reproducible circuit board temperature without overshooting at the highest long-term stability.

The Auto-Profiler feature determines required device settings (profile) automatically for the user. The exact desired circuit board

temperature is attained by executing the profile learned automatically by the device. Working processes become safer and more efficient.

The IR lamps, which are protected by a glass plate, are independently switchable. This makes cleaning of the hot area easy and simple. Furthermore, the under-heating system can control devices (e.g. for removal by suction) or configure them in such a way that they become activated by external devices (SPS or foot switches). The EASYBEAM software allows for the sorting, editing and writing of profiles via a USB connection.

Top Features

Precise preheating



Format

Flexibility in terms of the circuit board's shape and size; up to 200 x 250 mm are able to be processed



Flexibility

Preheating circuit board for the subsequent Rework process, through to curing and cracking of underfill



Process reliability

Various operating modes, e.g. for consistent power, consistent temperature and profiles



Performance

HOTBEAM and SMART DESOLDER combination for the perfect rework



Process control

Use of temperature profiles via PC software

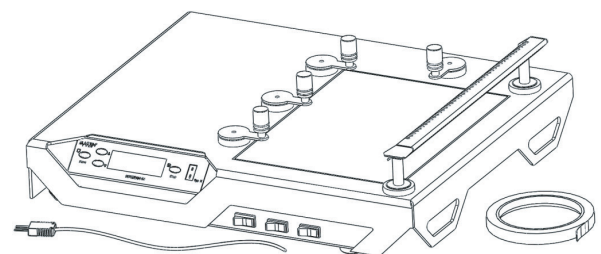


Ergonomic workstation

Table mount available

Standard equipment

- Under heater HOTBEAM 05.1
- Four magnet holder 40.5mm
- PCB magnet holder rail 40.5mm
- Thermocouple sensor (Type K)
- Manual

















Technical details




| | | |
|------------------------------------|---------------------------|--------------|
| Power consumption: | 2100 VA | |
| Power under-heating system: | 2000 W | 4 x IR-lamps |
| Size under-heating system: | 185 x 245 mm ² | |
| Max. PCB size: | 200 x 260 mm ² | |
| Temperature range: | 50 °C - 250 °C | 1°C steps |

| | |
|--------------------|-----------------------------------|
| Mains: | 1 Phase, 85 - 250 VAC, 50 - 60 Hz |
| Cooling: | Electrically, 4 x fans |
| Dimensions: | 450 x 370 x 70 mm ³ |
| Weight: | 4500 g |

HOTBEAM 05: Optional extras

| | Article nr. | Name |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------|
|  | SF03.0001 | PCB magnet holder h=20mm for installation set HB 03/04/05 |
|  | SF03.0004 | PCB magnet holder h=40.5mm for IR/IRD/IRH/IRF/HIF and DL/RD |
|  | SF03.0014 | PCB magnet holder Easy Lock h=40.5mm (snap) for IR/IRD/IRH/IRF/HIF |
|  | SF30.0004 | PCB support h=40.5mm for IRF02/06/07, pcb=1.5mm |
|  | SF03.0013 | PCB support rail, h=20mm, l=223mm for installation set HB 03/04/05 |
|  | SF03.0011 | LP-Anschlagschiene für HB03/04 Handy-Fix, H=55,5mm, L=223mm |
|  | SF33.0015 | PCB magnet holder rail, h=20mm, l=300mm for installation set HB03/04/05 |
|  | SF33.0010 | PCB magnet holder rail for IRF radiator H=40,5mm, L=300mm |
|  | SF01.0100 | PCB clip for large pcbs onto IRF handrest |
|  | SF03.0019 | PCB clamping holder with 3 fingers for mobile phone pcbs on HB05/IRx/HIF, h=40.5mm |
|  | HB00.1010 | Table Mount (Flush Mount) HOTBEAM 05 Installation Set |
|  | HB00.1011 | Arm Support HOTBEAM 05 with magnet to snap at HB 05 |
|  | HB00.0109 | USB Option for HOTBEAM 05 |
|  | HB00.0110 | Interface Option for HOTBEAM 05 for external control Consumables |

Consumables

| | | |
|-------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|
|  | HT00.0009 | Flux Pen lead free 0405 C, no clean, RELO |
|  | HT00.0062 | Kapton tape 19mm*5.5m |
|  | HT00.0013 | Sensor for temperature for HTM/DBL/HA/HB/IRF, K type, 2 pin, 1.3 m |



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More accessories and consumables at www.martin-smt.de