MARTIN®

REWORK+DISPENSE TECHNIC

MARTIN Hot Beam 04/05
and Hot Plate 04
Underheaters for
demanding manual soldering

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Heating for experts

Thousands of Martin Hot Beam 04 Underheaters with Rapid Technology are successfully used for quick and precise manual soldering. These practical units take very little work space and with only 40 mm height are very low profile. The programming is automatic with a self teach facility.
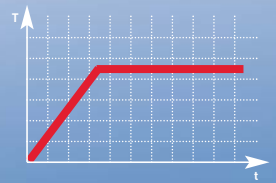
Simply gentler

The Hot Beam 04/05 efficiently supplies 50% of the required heat from below. This means a correspondingly lower soldering iron tip temperature can be used. Boards and components are thus processed much more safely and soldering bits last longer. All these advantages together accelerate and simplify the soldering process.

Even faster

The especially fast and gentle Rapid Technology makes full use of permitted thermal limits. The boards are heated very quickly and their appropriate temperature carefully maintained. The result is a 30% reduction in process time, higher throughput and assured quality!
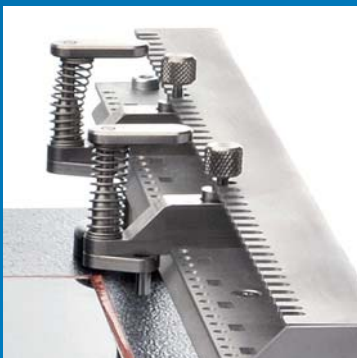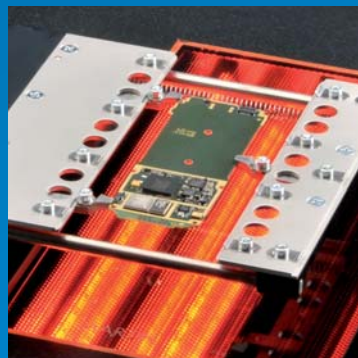
Flexible PCB support Handy Fix 04

Height adjustable clamps Handy Fix 06 with 4 magnetic holders

...also for large formats

The MARTIN Hot Beam 05 is "the big brother" of the proven MARTIN Hot Beam 04 and is designed for heating large and very large boards. These are catered for by a massive 2 KW heating capacity with four IR radiator zones. The Hot Beam 05 is just as easy to use as the smaller models.

Practical clips for especially large printed circuit boards

Board clamping holder for complex smaller boards
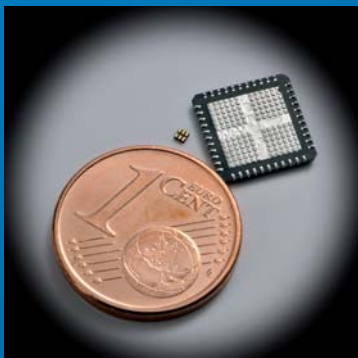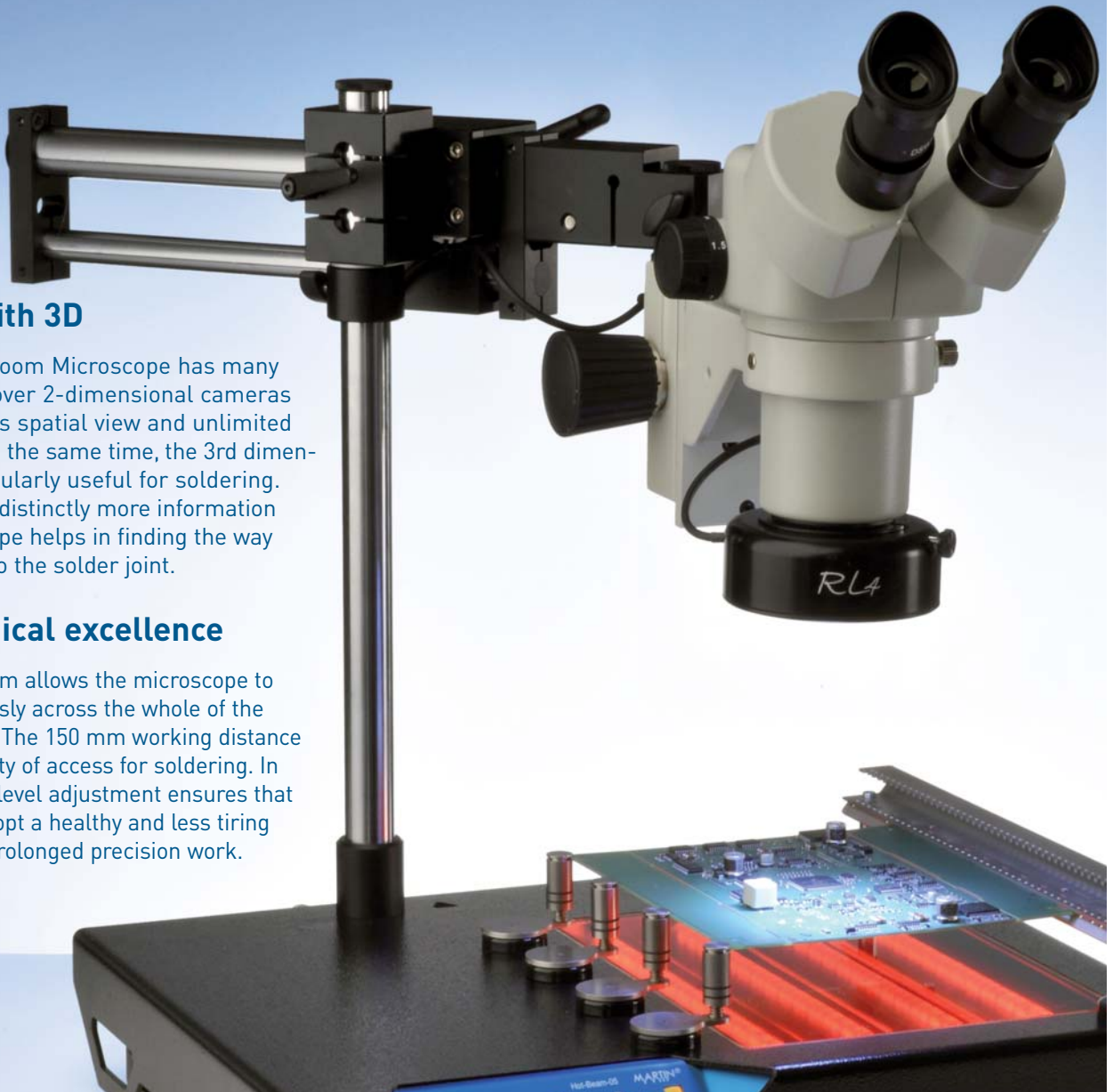
plus amazing vision

Extremely sharp, three dimensional views can be achieved with the Stereo Zoom Microscope that is available for the MARTIN Hot Beam 05. This is the ideal addition for precision viewing even the smallest component. The dimmable light ring helps in obtaining clear views of solder joints – the perfect conditions for professional results in rework and inspection.
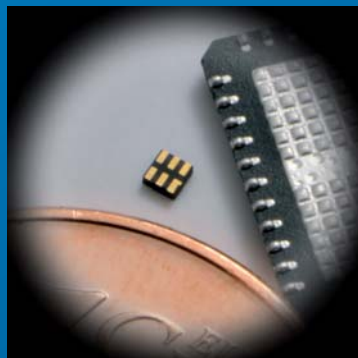
Better with 3D

The Stereo Zoom Microscope has many advantages over 2-dimensional cameras because of its spatial view and unlimited resolution. At the same time, the 3rd dimension is particularly useful for soldering. By providing distinctly more information the microscope helps in finding the way around and to the solder joint.

Ergonomical excellence

The 5 axes arm allows the microscope to float effortlessly across the whole of the PCB surface. The 150 mm working distance provides plenty of access for soldering. In addition, eye level adjustment ensures that users can adopt a healthy and less tiring position for prolonged precision work.
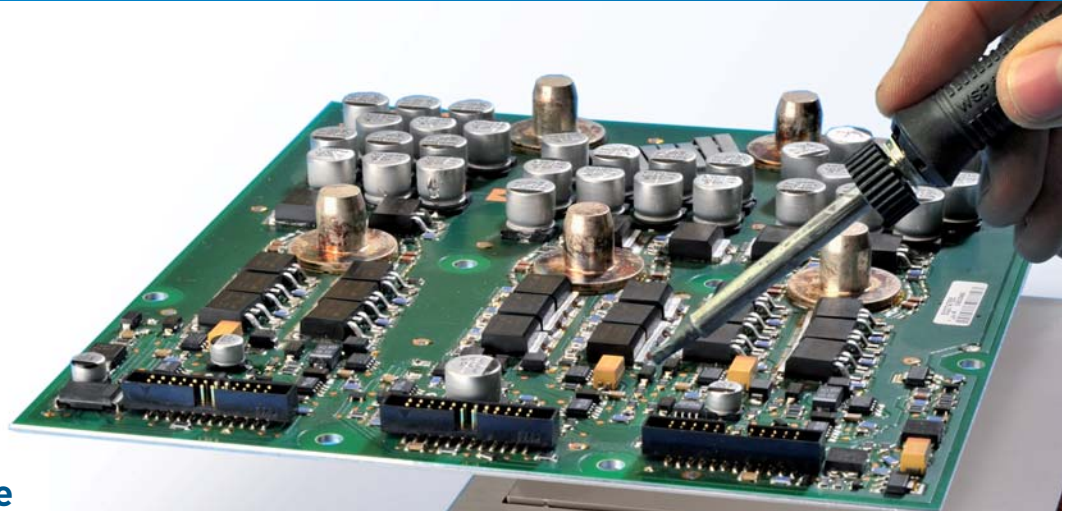
View of QFN components with pad pitches of 0.65 and 0.35 mm

View with 4.4 x zoom

Professional temperature control

The MARTIN Hot Plate 04 is a temperature regulated, programmable Underheater with a powerful heated plate. This hot plate is suitable for single sided PCBs and ceramic substrates to assist with precise and efficient professional soldering. Further advantages are: wide application range for thermally demanding applications, simplicity of use and its compact size.
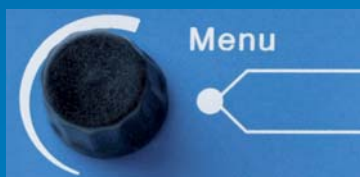
Rigorously simple

The user friendly MARTIN Hot Plate 04 is intuitively easy to operate. The menu structure is clear and limited to what is actually needed. One single knob for all settings! This saves expensive labour and increases productivity.

Value for money

27 years of success and experience are a reliable indication of the viability of MARTIN products.
Future proof technologies and thorough cost minimisation are the basis for the unique price/performance ratio.

Simple menu settings with just one knob

Trouble free soldering even of PCBs with built in metal heat sinks

MARTIN Hot Beam 04

Basic equipment

- Control unit
- 2 PCB supporter
- Ultra fine sensor, Kapton tape

Optional extras

- PCB support Handy Fix 04 with adjustable support area (208 x 230 mm)
- PCB support Handy Fix 06 with 4 height adjustable magnet holders (280 x 380 mm)
- PCB clamping holder height adjustable with 3 fingers (usable on Handy Fix 06)
- Easy Beam Software for editing and saving applications on PCs

Technical details

Dimensions	140 x 290 x 40 mm
IR area	75 or 130 x 105 mm (2 zones)
IR power	50 - 500 Watt
Heating speed	3,5°C/s
Temperature	50 - 170°C
Temperature measurement	K type sensor (just for programming)
Heating time	auto mode 8 min (can be lengthened)
Cooling time	0 - 10 min (by connectable fan)
Programs	99 applications

MARTIN Hot Plate 04

Technical details

Dimensions	140 x 290 x 40 mm
Heating area	125 x 115 mm
Heating power	700 Watt
Heating speed	1,5°C/s
Temperature	50 - 270°C
Heating time	1 - 480 min
Cooling time	0 - 10 min (by connectable fan)

MARTIN Hot Beam 05

Picture with PCB clips (optional extra)

Basic equipment

- Control unit
- PCB rail
- 4 PCB magnet holders (height 40.5 mm)
- Ultra fine sensor, Kapton tape

Optional extras

- Stereo Zoom Microscope with light ring and five-axes mechanism, magnification 5 x to 22 x, zoom 4.4 x, image size 46 to 10 mm, operation height 150 mm
- PCB clamping holder with 3 fingers (height 40.5 mm)
- PCB clips for especially large boards
- Easy Beam Software for editing and saving applications on PCs

Technical details

Dimensions	442 x 360 x 75 mm
IR area	185 x 245 mm (4 zones)
IR power	300 - 2000 Watt
Heating speed	3,5°C/s
Temperature	50 - 200°C
Temperature measurement	K type sensor (just for programming)
Heating time	manual mode 1 - 480 min program mode 20 min
Programs	99 applications

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