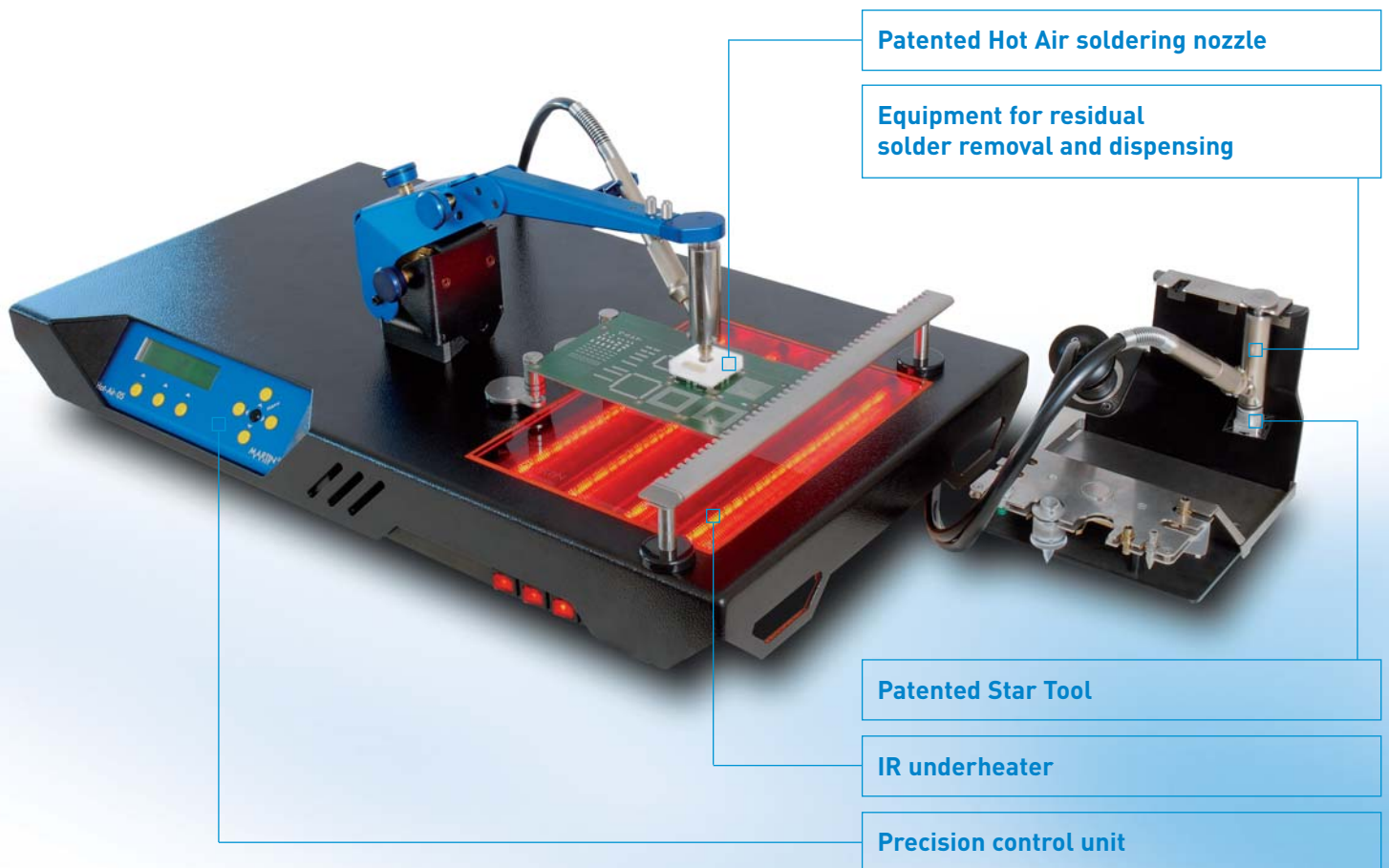


MARTIN Expert 04.6
Cost Effective Rework
for all SMD Components

Rework for Improvers

Whether for soldering, placement, removal of residual solder or dispensing: the new MARTIN Expert 04.6 ticks all the right boxes where precision rework is concerned. All this is surprisingly easy to use, highly effective and in a very compact package. This new Rework equipment offers the maximum performance for reliable solder joints at an extraordinary low price.



More Affordable

More than 25 years of Martin Know How pay dividends. The MARTIN Expert 04.6 has been further developed and is now even more application oriented and significantly more cost effective than comparable equipment.

More Versatile

A larger IR underheater and the Star Tools make the MARTIN Expert 04.6 so flexible, that almost any size of PCB and SMD component type can be processed. Ideal for a wide variety of rework situations.

Economic Placement

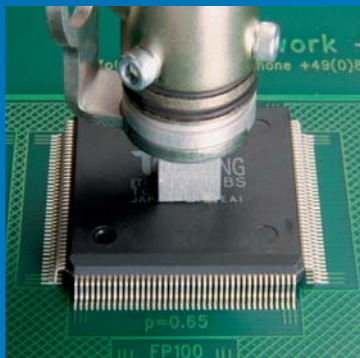
The MARTIN Expert 04.6 has established a new product class and philosophy: the complete and intuitively useable equipment for beginners. At the heart of the new MARTIN Expert 04.6 is the positioning arm which is responsible for precise placement. It has provision for interchangeable soldering and vacuum pens and four backlash free manual fine axes.

Rapid

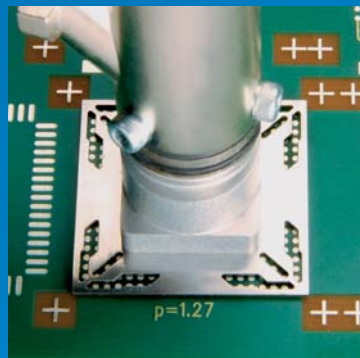
Star Tools are used to quickly determine the component position directly in relation to the pads. This location is mechanically stored and then used to simply placing the component. That's it!

On Target

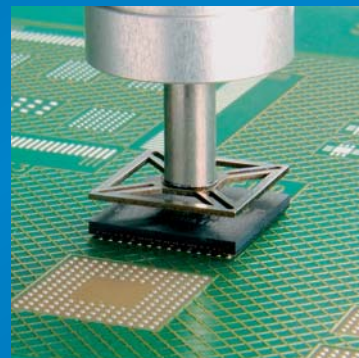
The Single Head Placer represents, together with the Star Tools, the ideal arrangement for simple and manual placement of CSPs. Also available for many more unusual types.



QFP/SO



BGA



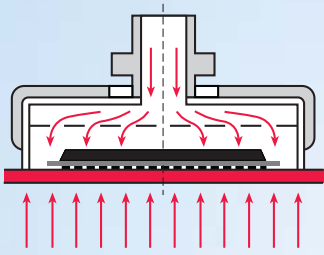
CSP/QFN

Professional Soldering

Precision hot air from the top and a large area, fast acting IR underheater are today the key to Rework success. The MARTIN Expert 04.6 utilises technology from the larger, Expert 09 automatic equipment. Overheating will be avoided, wetting is improved and process times are reduced.

Precision Hot Air

MARTIN's Precision Hot Air technology ensures that the required soldering temperature is reached without exceeding any maximum temperature specified for the SMD – within a tolerance of only +/- 1%.



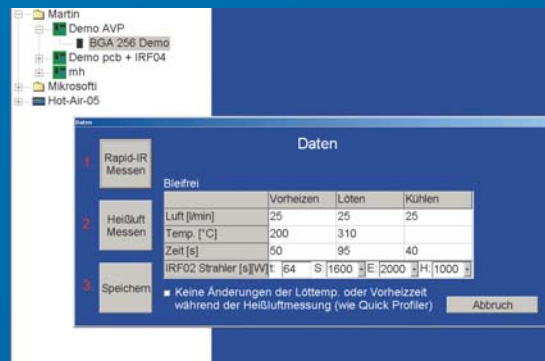
Rapid Technology

The patented Rapid Technology utilises the permitted thermal limits of the PCB. The IR underheater and hot air heat at the maximum permitted rate, and after that, maintain temperatures at the recommended level.



Temperature Monitor

The Solder Star Software documents the temperature profile.



Auto Profiler

The "expertise" of the software makes programming child's play.

Service and support around the globe.

Wherever you are, MARTIN is very close. The distinctive features of our technology are rightly also expected from our service and support: competence, reliability and quick reaction times. In addition, we also provide support through practical seminars at our training centre. By this, we offer well proven know-how with use of the most up to date MARTIN equipment.



Optional Extras



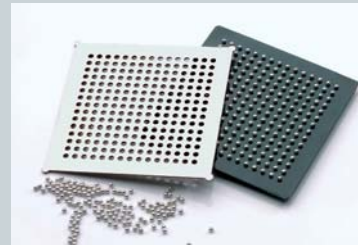
Report software

Allows access to all stored data of individual solder processes.



Soldering nozzles

Sets for all BGAs, CSPs and SOs.



Reballing Tools

Facilitates the trouble free re-use of removed components.



MARTIN Expert 04.6

The set comes complete with

- Solder station HA 05 with soldering pen, tool magazine, reballing holder, 2 soldering nozzles (4.0, 7.0 mm)
- Dis module with dispensing pen, 2 aluminium nozzles (0.3 mm), cleaning set
- Vac module with vacuum pen, 4 placement nozzles (0.7, 1.5, 6.3, 8.5 mm), 2 solder sucker nozzles (1.0, 1.4 mm), cleaner
- Measurement module with ultra fine sensors, 2 channels
- Underheater IRF 02 (2400 W)
- PCB table Smart Fix 02 with 4 PCB holders and PCB magnet holder rail
- Positioning arm SHP with 4 backlash free axis, 3 nozzles for Star Tools with samples
- Foot switch, solder paste, solder balls, flux pen, flux cream
- CSP/BGA transfer tool, SMD hook
- Set with 7 soldering nozzles for all PLCCs, QFPs
- Box with consumables
- Rework ABC (handbook)
- MARTIN Rework software Solder Star 05 (WIN 2000/XP/Vista)

Technical Details

Max. PCB width	390 mm
Max. PCB length	500 mm
Footprint	360 x 660 mm
Hot Air	2 - 35 l/min \pm 1 l/min
	50 - 400°C \pm 1,0 % (repeatability)
Underheater	300 - 2000 Watt
	185 x 245 mm
WIN software	Solder Star 05



MARTIN Expert 04.6H

Specific equipment

- Instead of underheater IRF 02: IRH radiator element (110 W)
- Instead of 7 soldering nozzles for QFPs: Set with 4 soldering nozzles for all CSPs
1 soldering nozzle for SOs (15 x 15 mm)
CSP centering device

Specific technical data

Footprint	320 x 490 mm
Underheater	20-110 Watt
	65 x 80 mm