

EXPERT 10.6 Product Family Automated Rework

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MARTIN[®]
a finetech company

Top Performance in Rework

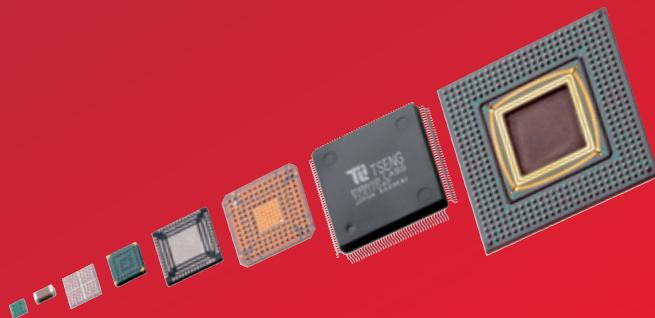
Clear and functional defines the new standards set for automated rework. With the intuitive and precise functions of the EXPERT 10.6 Rework Stations, even the most demanding processes become easily manageable tasks. Reliably reworked components are our best testimonial.



Precision Controller

Placement Nozzle with
Automatic 4 - Axes Control

High Resolution Camera



Flexible

Prepare for tomorrow's challenges. Thanks to the patented Hybrid Heating Technology, the EXPERT 10.6 is the ideal choice for complex printed circuit boards.

Various successfully tested tools allow the rework of small QFNs to larger processor sockets.

Proven

Join thousands of satisfied customers who successfully and satisfied used MARTIN's patented technology.

Our commitment to extensive application support, high quality and precision have driven our solutions for nearly 30 years.

Efficient

The new Hybrid Underheater transfers heat directly and uniformly distributed to the PCB, proving more efficient and faster.



Hot Air Soldering Tool

Hybrid Underheater with IR
and convection

Equipment for residual solder removal
and dispensing

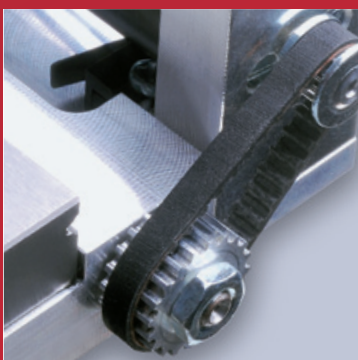
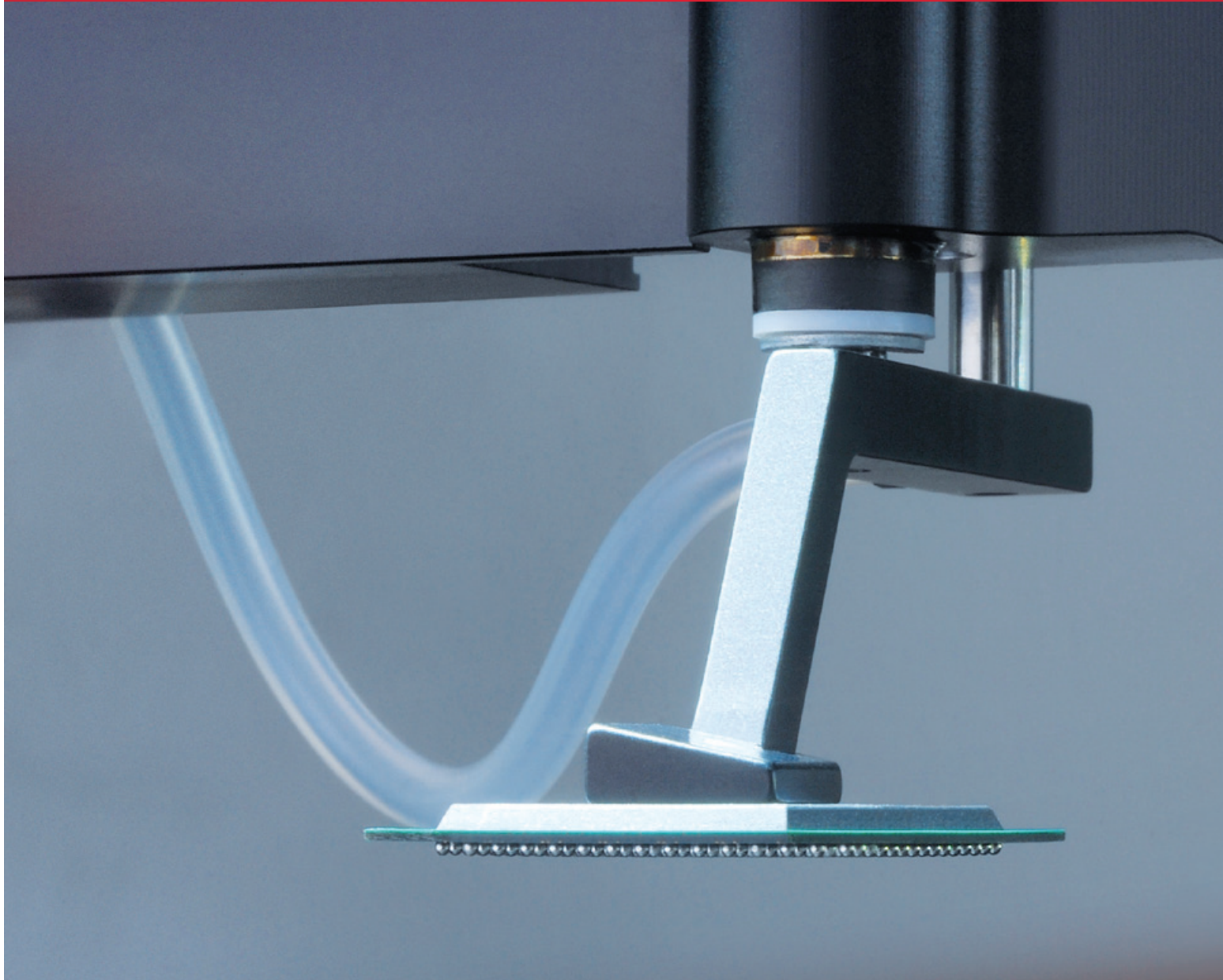


Cared For

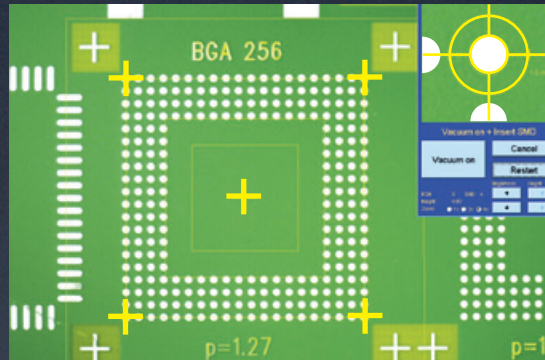
Wherever you are, MARTIN is there to support you. The reliability of our products extends to our service and support. Competence and responsiveness are guaranteed, around the globe.

Precise Placement

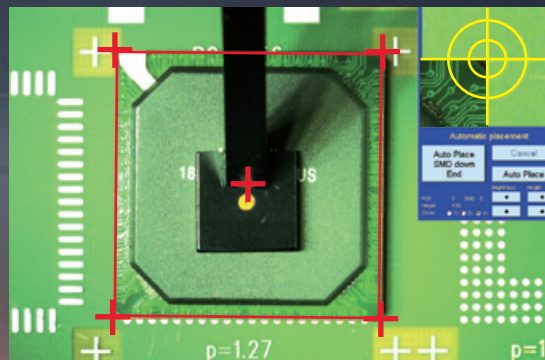
The EXPERT 10.6 incorporates a high-precision, camera driven alignment system which manages the automatic placement process from pre-alignment to error-free component placement.



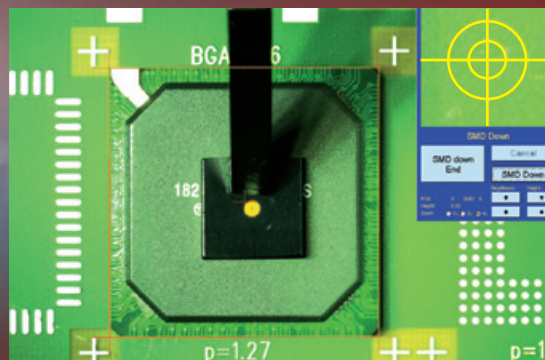
Automatic and Precise



Capture the exact location with just three mouse clicks.



Generate SMD coordinates in the software.



Place the device onto the pad array automatically.

Auto Vision Technology

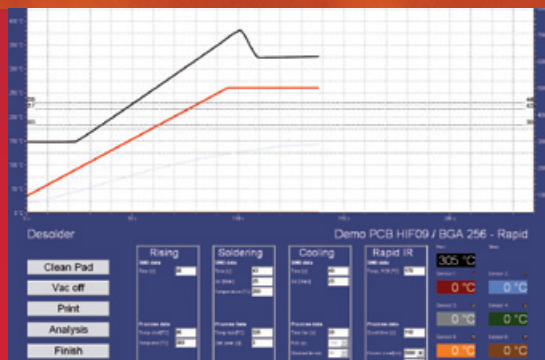
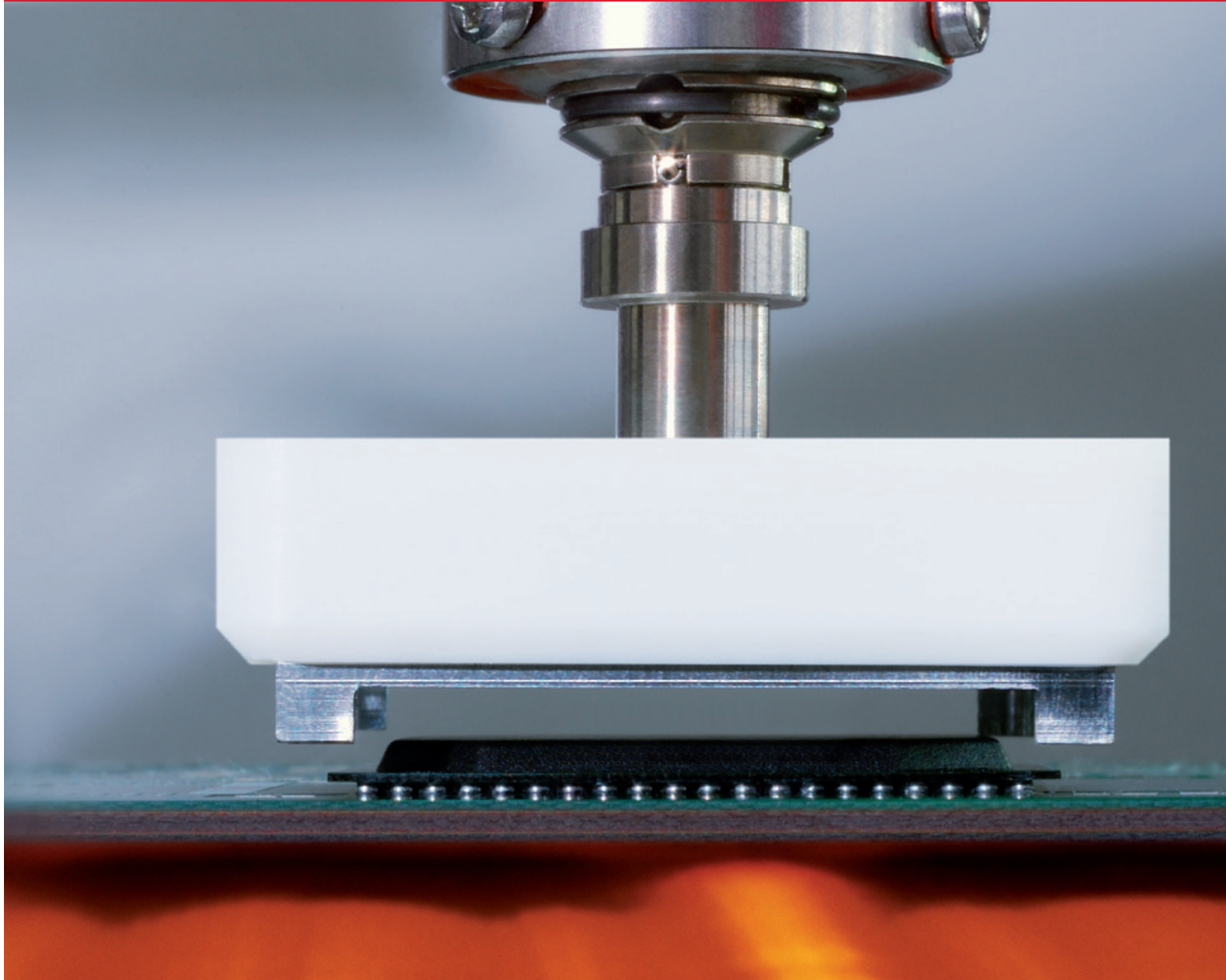
The automated placement of surface mount devices could not be any easier: The layout shown on the screen is marked, the position of the component identified with 3 mouse clicks, and the process started.

This is followed by the automatic placement of the component onto the PCB and then the soldering process.

The fast, safe and most exact way to repair SMD assemblies.

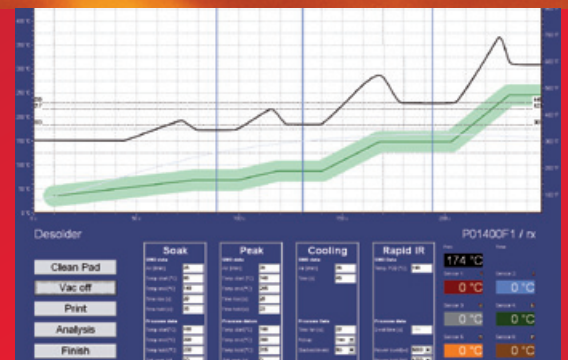
Advances in Soldering

The EXPERT 10.6 fulfills the most stringent requirements for rework. The PCB is heated gently and safely with the required bottom heat, while also heating the component. The new combination of Hybrid Technology from below and hot air from above ensures fully controlled reflow processes. This guarantees the best soldering results.



Rapid Profile

Based on Rapid Technology, this innovative profile guarantees clear and effective processes. There are time savings of up to 30%.



Graph Profile

This mode of operation duplicates the soldering profiles used in mass production. Users simply transfer the thermal values from data sheets into the soldering software.

Precision Hot Air

The MARTIN precision hot air technology ensures that the required soldering temperature is reached in a safe manner, without exceeding the permitted temperature of the component - to within $\pm 1\%$.

Hybrid Technology

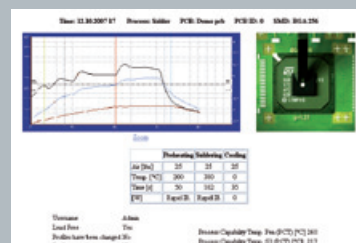
The newly developed Hybrid Underheater operates on the principle of combining IR radiation with additional convection. This unique solution excels with very fast heat transfer, while ensuring even temperature distribution. Board warping is thus reduced to a minimum.

Made to Measure Extras



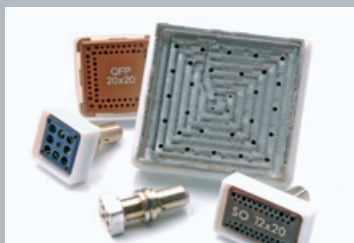
Micro-SMD-Set

For the processing of miniature components.



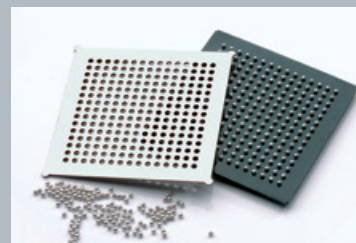
Report-Software

Allows access to all stored data of individual soldering processes.



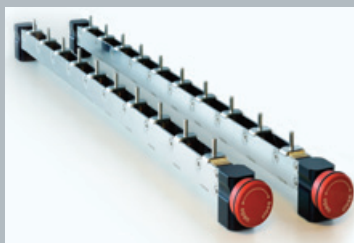
Soldering Tools

Sets for all BGAs, CSPs and SOs.



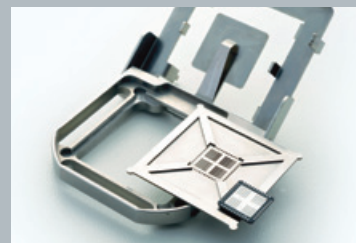
Reballing Tools

For reusing reclaimed components.



FLEX Board Support

Minimizes PCB deformation.



Prebumping-Hotprinter

For precise pre bumping of QFNs.

EXPERT 10.6 Product Family

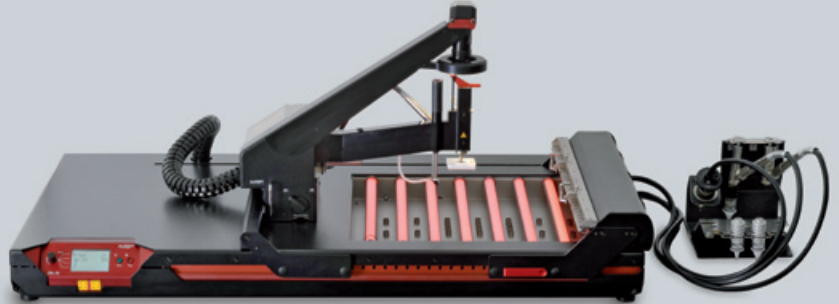
The EXPERT 10.6 systems are rework stations that handle the complete rework process for SMDs. All versions utilize Auto Vision Placement Technology and are expandable with residual solder removal and dispensing functions.

EXPERT 10.6 HXV

System with Hybrid Heating Technology, specially developed for the repair of large PCBs, such as server and main boards.

Technical Details

Underheater (Hybrid):	1200 W - 5000 W
Top Heating (Hot Air):	300 W
PCB Size (max):	490 mm x 600 mm
Heated Area:	420 mm x 450 mm
Field of View (min):	16 mm x 22 mm*
Field of View (max):	71 mm x 96 mm*
Placement Accuracy:	± 0.015 mm*
Foot Print:	630 mm x 1030 mm



EXPERT 10.6 HV

System with Hybrid Heating Technology, specially developed for the repair of medium sized PCBs, as can be found in industrial and entertainment products.

Technical Details

Underheater (Hybrid):	600 W - 3000 W
Top Heating (Hot Air):	300 W
PCB Size (max):	390 mm x 500 mm
Heated Area:	245 mm x 275 mm
Field of View (min):	14 mm x 18 mm*
Field of View (max):	65 mm x 85 mm*
Placement Accuracy:	± 0.015 mm*
Foot Print:	460 mm x 865 mm



EXPERT 10.6 IV

System with compact IR underheater, specially developed for the repair of small PCBs, as used in mobile and smart phones.

Technical Details

Underheater (IR):	110 W
Top Heating (Hot Air):	300 W
PCB Size (max):	80 mm x 100 mm
Heated Area:	60 mm x 80 mm
Field of View (min):	14 mm x 18 mm*
Field of View (max):	37 mm x 50 mm*
Placement Accuracy:	± 0.015 mm*
Foot Print:	460 mm x 865 mm



* dependent on optics