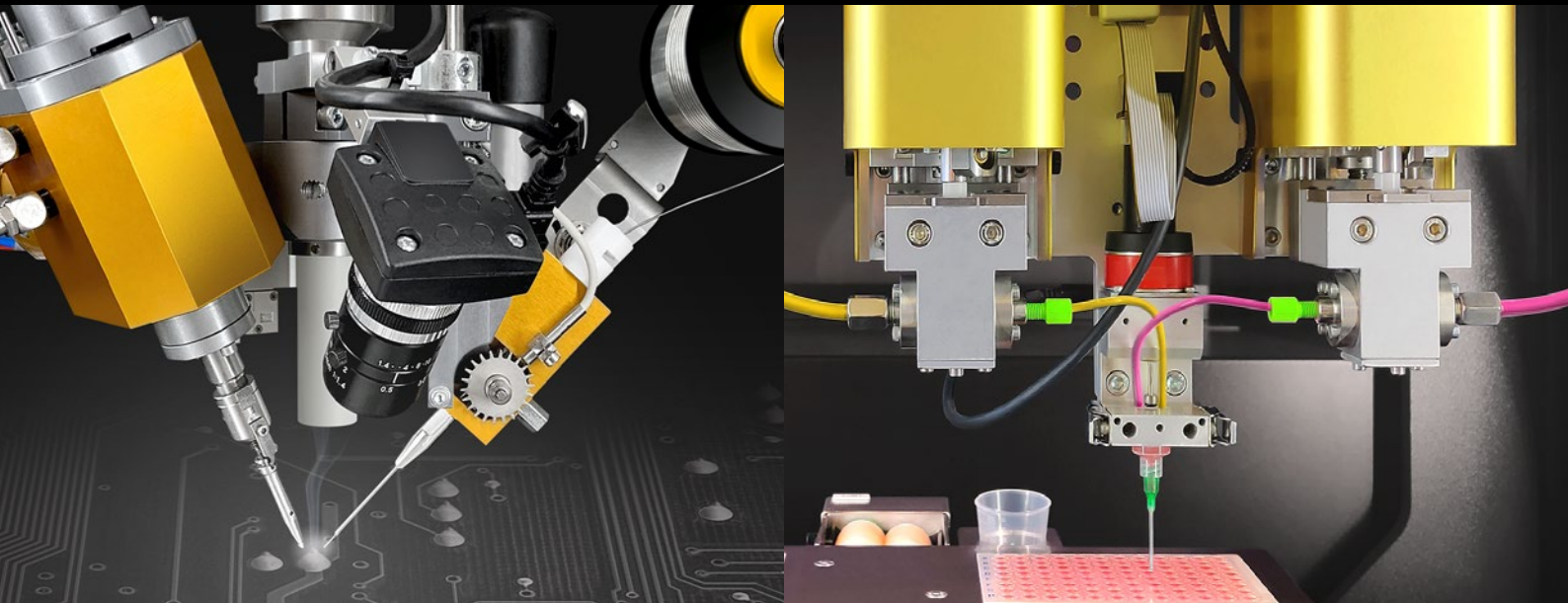




mta

ROBOTICS FOR SOLDERING · DISPENSING

Specialist in soldering and dispensing processes





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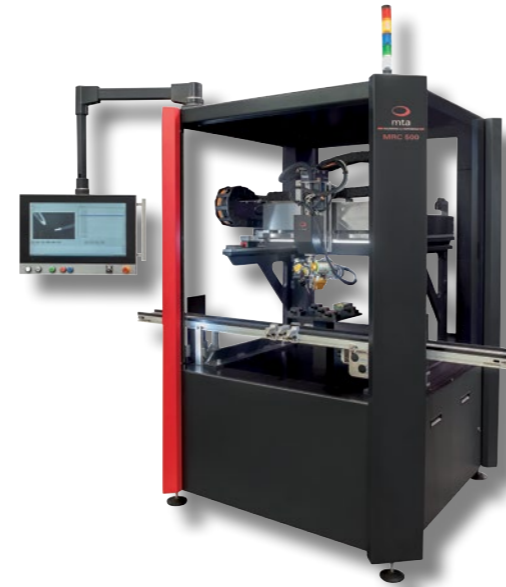
From components to automated systems

Located in Gals Switzerland, mta robotics AG brings over 60 years of experience in designing and building advanced production equipment for various industries such as automotive, electronics, medical, energy/water, defense/aerospace, watchmaking and industrial applications.

Our process specialists combine in-depth know-how in soldering and dispensing technologies, ensuring reliable and consistent results in demanding manufacturing environments.

We develop and commercialize standard selective soldering as well as high-precision volumetric and contactless dispensing systems worldwide. Our portfolio ranges from components and manual workstations to semi-automated table-top robots and fully automated production cells.

With state-of-the-art infrastructure and proven methods, we deliver innovative and efficient solutions tailored to our customers' requirements.



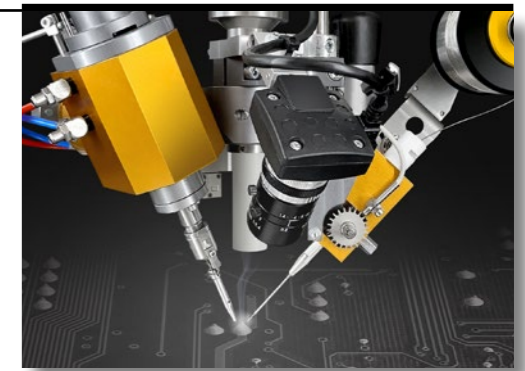
Key competencies

Selective soldering

Among the various soldering techniques available, the selective point-to-point solution enables precise soldering of clearly defined joints, with parameters adapted to the specific characteristics of each point.

This technique can be combined with different mta soldering technologies such as iron, induction, and laser, offering various levels of automation from standalone units to fully automated solutions.

As an alternative to manual soldering, it ensures a consistently high level of quality through process repeatability and reliability, exceeding the capabilities of manual operations.

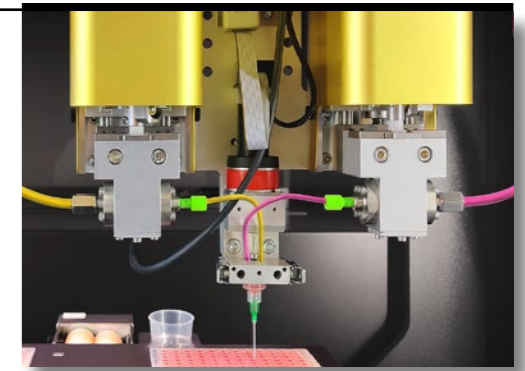


Volumetric and contactless dispensing

The high-precision mta dispensers meet the most demanding requirements of the dispensing industry. Whether for mono, two- or multi-component materials, including low- or high-viscosity and filled materials, they deliver micro-volumes with perfect repeatability.

Designed for seamless integration, our dispensers are available as components or as part of automated systems, supporting a wide range of applications such as adhesive bonding, potting, dot and line dispensing, sealing, conformal coating, and lubrication.

The working principle of our dispensers is based on four technologies: ceramic piston/cylinder pumps, eccentric screw pumps, jetting, and cartridge systems.



Application testing for process validation

When soldering joints or dispensing material onto parts with high accuracy and absolute repeatability, multiple parameters must be carefully controlled to ensure high-quality results.

Our process specialists conduct comprehensive tests in our laboratories to identify the most appropriate soldering or dispensing technique for each application.

We operate advanced equipment including standard automated cells and table-top robots, covering the full range of soldering and dispensing technologies outlined in our key competencies.

The aim of our test program is to assess the feasibility of each task while enabling us to provide a process guarantee for every project.

This approach provides our customers with a clear proof of concept prior to investing in the corresponding production equipment.



Optical inspection

Achieving consistent, high-quality results in automated soldering and dispensing requires more than conventional AOI. Rule-based systems quickly reach their limits when faced with process variations, complex geometries, or challenging materials.

Our AI-driven AOI solution combines industrial vision, artificial intelligence, and mta platforms, featuring MotionEditor software. Trained on real good and defective parts, it enables reliable inspection, intuitive operation, and repeatable results.

Available on our robotic cells, table-top robots, and OEM systems, it ensures robust inspection performance and simplifies setup without complex rule definition.





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