

PRESS RELEASE

Stäubli at EuroBLECH 2018: October 23–26, 2018 in Hanover

EuroBLECH 2018: Innovative tool changers and plug-in connectors for robotics applications

High-tech equipment for welding robots

Stäubli will be traveling to EuroBLECH, the international technology exhibition, bringing promising innovations. The exhibition highlights will include the complete three-level range of tool changer systems and the compact plug-in connector series for robotic welding units with 10 kHz welding technology.

Stäubli Fluid Connectors has consistently expanded and repositioned the range of tool changer systems available for robots. The complete range, which now covers all load capacity classes, is now based on a complete three-level selection. The idea behind the three product lines (MPS COMPLETE, MPS MODULAR, and MPS CUSTOMIZED) is to implement customer requirements even faster, more efficiently, and more selectively.

Stäubli is the only manufacturer in the world to single-handedly develop and manufacture complete changers to guarantee maximum functional reliability, consistently focusing on lightweight construction. All models meet the safety requirements of safety category 3, performance level d.

Three levels for the ideal solution

With preconfigured, turnkey tool changers, MPS COMPLETE offers the quickest and easiest solution. Advantage for users: These complete solutions can be delivered in minimal time, but still offer flexibility, since transmission modules can be switched out or retrofitted at any time.

MPS MODULAR is the ideal solution for applications that require custom configuration of the changers. Users can assemble their custom tool changers from the modular system and tailor them to their requirements.

For complex applications, Stäubli supplies customer-specific designs with MPS CUSTOMIZED that meet all the specifications on performance characteristics, material qualities, and safety

requirements. In addition, individual docking stations are available that allow optimal system integration within complete production lines.

RobiFix mini plug-in connector series for 10 kHz welding technology

In robotic welding applications for vehicle body construction, the pronounced trend is continuing towards lightweight welding units. Longer tongs allow the use of robots in the lower load capacity range, which can move to their starting point more quickly. The cycle times are noticeably shortened and the processing times optimized. The 10 kHz technology's introduction means the size and weight of the transformers of robotic welding units can be reduced by much more than 50%.

Since the cable assemblies are exposed to enormous mechanical stress due to the highly dynamic movement of the robots, plug-in connectors that allow quick replacement of primary circuit supply lines on the robot arm are located at several points.

Stäubli Electrical Connectors has already made a name for itself in the robotic cabling sector with the PCS round connector series and the RobiFix flat connectors. With the introduction of the 10 kHz technology, the connector specialists' experience was once again in demand. The result is the RobiFix mini, the little brother of RobiFix, which has become the industry standard. However, with a similar basic structure, the smaller version now measures 140 x 80 mm when inserted and is 25% lighter. The slim profile of the compact plug-in connector has been adapted to the tight assembly space in the accessible exterior of narrower robot arms without compromising its advantages. The RobiFix mini can also be easily threaded in the interior of welding robots with hollow arms. Manual assembly is possible, for which Stäubli supplies a specially made high-frequency cable for the 10 kHz technology. Last Mate First Break (LMFB) contacts, two-sided touch protection and reverse polarity protection ensure the safety of maintenance personnel and also allow further applications in the battery area.

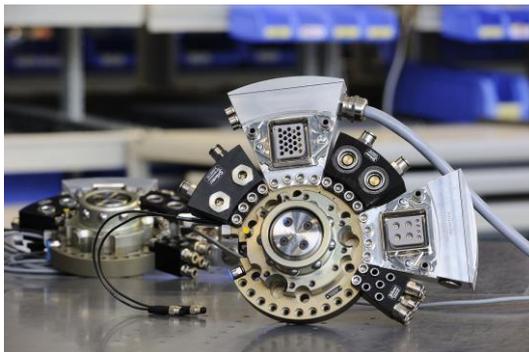
The connector's contact reliability is legendary thanks to the tried and tested MULTILAM contact technology. The RobiFix mini is available in various designs. The housing components are, of course, resistant to weld spatter and have IP67 protection when plugged in. The miniaturized version has the advantage of easy handling, which reduces both downtime and maintenance costs.

Product illustration 1 / image text



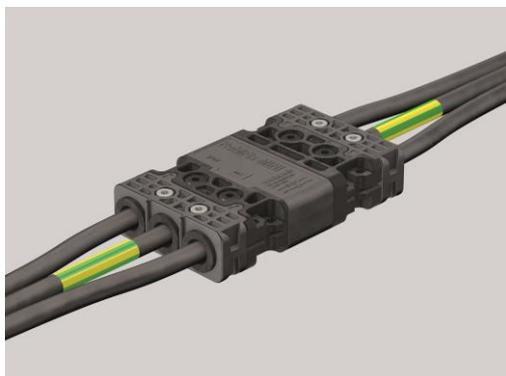
Modular structure for versatile customer assembly.

Product illustration 2 / image text



Fully configured tool changer system for immediate use.

Product illustration 3 / image text



Only 80 mm wide, easy to install, and absolutely secure in use: RobiFix mini

About Stäubli: Connector solutions, industrial robots, and textile machinery

Stäubli offers innovative mechatronics solutions in the three areas of corporate activity: Connectors, Robotics, and Textiles. With more than 5,000 employees, the company achieves annual revenues of 1.1 billion Swiss francs. Originally founded in 1892 as a small workshop in Horgen/Zurich, today Stäubli is an international group headquartered in Pfäffikon, Switzerland.

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