

Dusslingen, 24.03.2026

EUTECH introduces new Sensitive Wire Feeder (SWF) with MicroForceControl (MFC)

EUTECH is expanding its portfolio of precision soldering technologies with the advanced Sensitive Wire Feeder (SWF) featuring MicroForceControl (MFC). The newly developed wire feeding system was specifically designed for demanding micro-soldering applications and, for the first time, enables the reliable feeding of solder wire with diameters of less than 0.1 mm without wire kinking or uncontrolled deflection at the component surface.

The new SWF with MFC has been specifically designed for high-precision micro-soldering applications where conventional wire feed systems reach their physical limits. The SWF with MFC enables reliable, controlled feeding of solder wire with diameters down to less than 0.1 mm, without kinking, jamming, or uncontrolled deflection at the surface.

A key feature of the system is its force detection capability, which is up to 100 times more accurate, allowing forces as small as 0.1 N to be reliably detected. This highly sensitive force measurement enables safe and reproducible contact detection even for the smallest solder joints. The solder wire is guided precisely to the surface without being mechanically overloaded or deflecting sideways. This represents a decisive advantage for delicate solder pads, complex geometries, and high-density assemblies.

The Sensitive Wire Feeder demonstrates its full potential, particularly when combined with temperature-controlled laser soldering. Process results show that the new SWF with MFC can reliably solder even smaller solder pads and finer solder joints than previously possible. This opens new process windows for applications in power electronics, photonics, sensor technology, medical technology, and microelectronics. The results clearly show that the Sensitive Wire Feeder significantly increases process reliability, precision, and repeatability in micro-soldering, particularly where maximum control over wire force and wire position is required.

With the Sensitive Wire Feeder, EUTECH once again underscores its commitment to approaching soldering processes not merely as individual components, but as controllable, stable, comprehensive solutions that are continuously refined.

About EUTECH

For almost 30 years, soldering and joining systems have been developed, manufactured, installed, and programmed at EUTECH as well as at customers operating worldwide. The Swabian team of experts offers an extensive, constantly evolving module construction kit for process solutions in the field of soldering.

Process-related and commercially optimal modules for the task description will be selected from a wide variety of soldering-technology process modules and combined into proven stand-alone, revolving, or inline production designs for complete solutions.

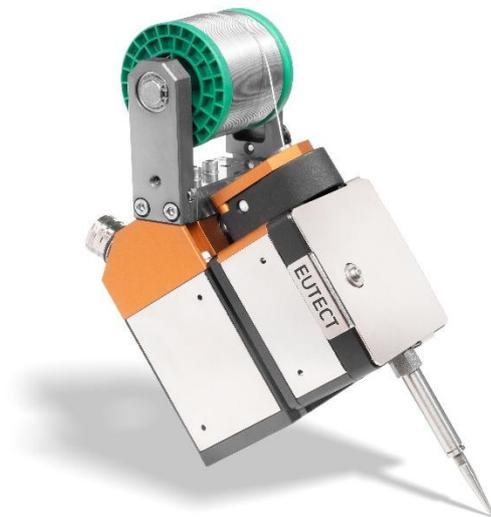
Press release

The EUTECT module construction kit shows that a slim, individual solution comprising proven building blocks for a customer product's task description can often be achieved via individual modules or free combinations.

A technologically comprehensive, innovative EUTECT technical center is available for optimal solution through evaluation or the manufacture of A-B-C prototypes ready for serial production.

More information: www.eutect.de/en/

Picture:



Picture caption:

Sensitive Wire Feeders (SWF) for high-precision micro-soldering processes from EUTECT

Deeplinks:

[High-precision wire feed with the Sensitive Wire Feeder \(SWF\)](#)

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