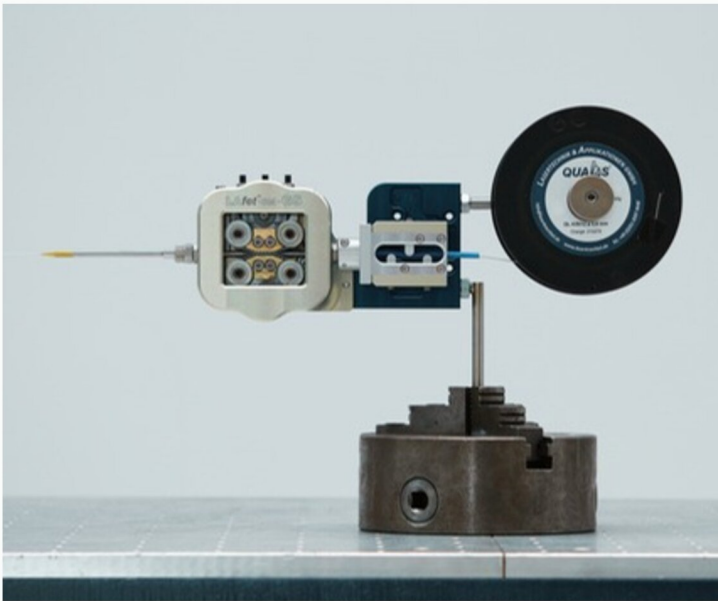


LAfet[®]-SM GS

Slip-optimized feeding for thin wires (0.2–0.6 mm)

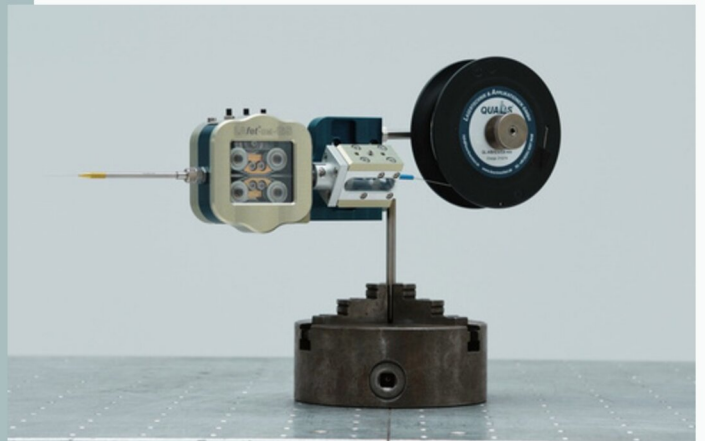
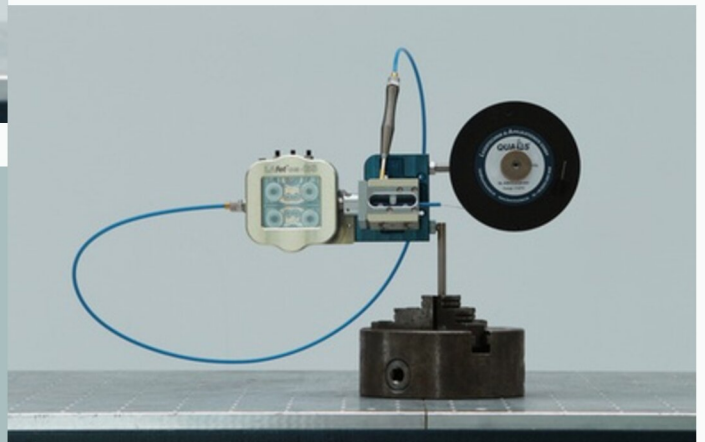


BRIEF INFO

- Slip-optimized feeding
- For thin wires (0.2–0.6 mm)
- Controlled, material-friendly wire feeding

Technical data:

- Drive: Stepper motor with gearbox
- Wire $\varnothing$: 0.2 to 0,6 mm
- Normal feed: 0.1 to 50 mm/s
- Weight: approx. 1,8 kg (without spool)
- Wire materials: steel/stainless steel, aluminum, bronze, gold, silver, copper, nitinol, platinum rhodium, tantalum, and many other wire materials.
- Controls: LAfet[®]-SM programmable controls
- Electrical connection: 110–230 V / 50–60 Hz at 24 VDC



LAfet® SM GS wire feed

Our LAfet SM GS fine wire feed system is used wherever very thin wires in the 0.2–0.6 mm range need to be fed in a controlled, gentle manner. Typical applications include micro-welding, laser deposition and joining processes, electronic connections and the processing of medical and precious metal wires, such as Nitinol and platinum-rhodium.

The wire runs between two opposing toothed belts and over a sliding shoe. The wire is in contact with the smooth back of the belt, not the tooth profile. The belts run synchronously against each other to form a defined clamping gap of 10 mm. Across this grip zone, the contact pressure is distributed over the full area.

The servo-assisted pressure dynamically adapts the contact force. Along with the positive engagement of the belts on the deflection pulleys, this minimises slip and enables uniform wire feeding, even with sensitive or very thin wires.

The straightening unit can be continuously adjusted. It removes the twist from the spool and aligns the wire for precise delivery to the process location. This ensures a linear, axis-aligned wire exit.

