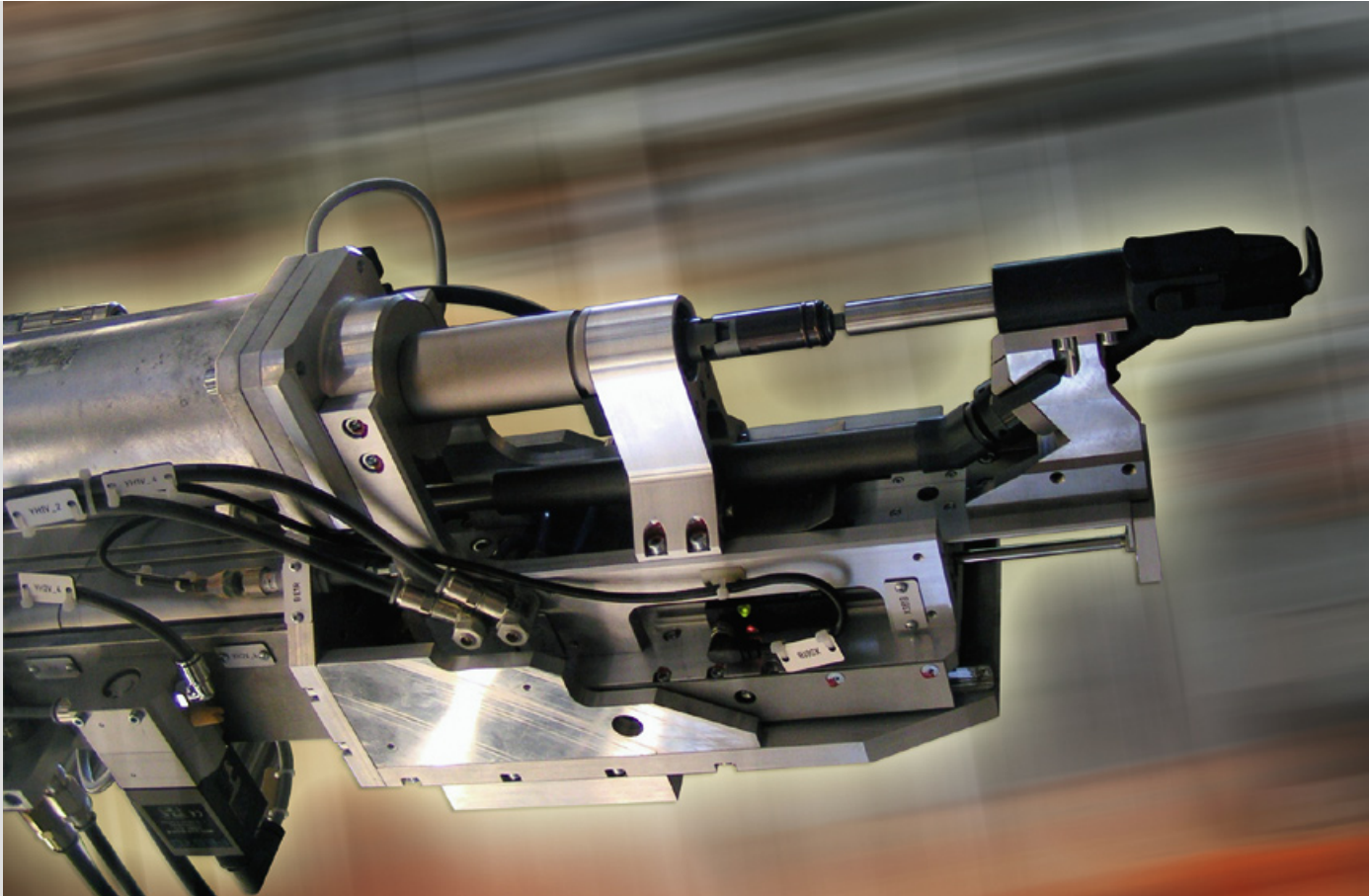




Technology that connects



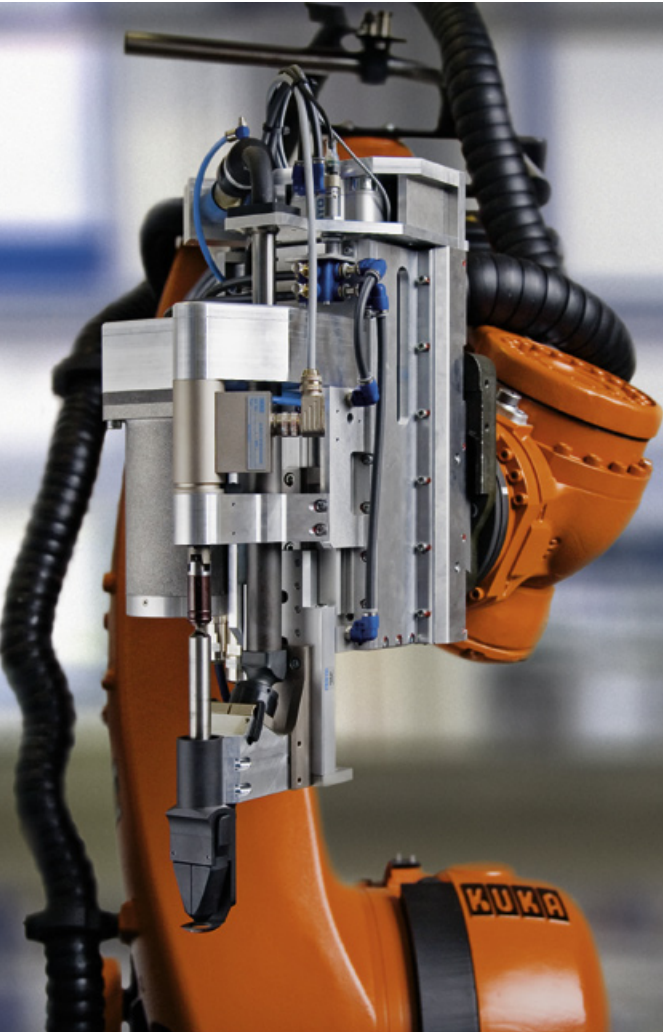
Robot-assisted screwdriving system RSF

For EJOT FDS®
with automatic feed system

Robot-assisted screwdriving system

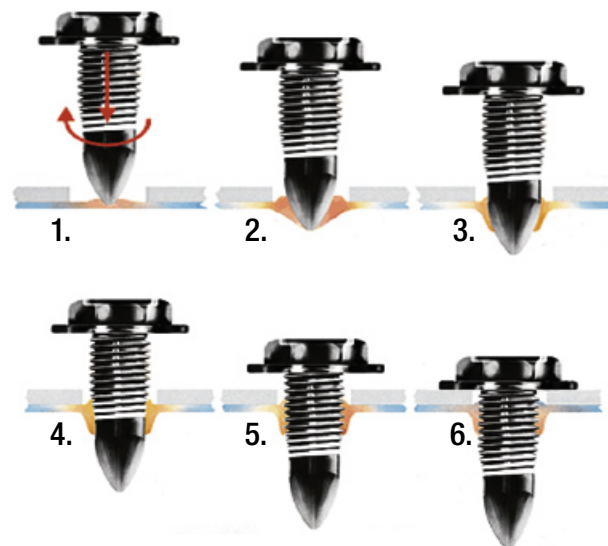
RSF

For EJOT Flow Drilling Screws®
with automatic feed system



Screwdriving process phases:

1. Tip of fastener heats the material through high thrust and high RPM
2. Material plasticized by conical screw tip
3. Cylindrical passage formation
4. Chip-free channelling of a metric True to gauge screw thread
5. Normal screwdriving phase
6. Torque-controlled screw tightening



Spindle Technical Data:

| | |
|-------------------------------------|---------------------------------------|
| Mounting dimensions: | W x H x L = ca. 810 x 500 x 2500 mm |
| Spindle dimensions: | W x H x L = ca. 730 x 230 x 250 mm |
| Weight of RSF spindle: | approx. 35 kg |
| Transducer: | up to 15 Nm |
| Spindle Speed: | up to 5000 RPM |
| Maximum axial force with 5 bar: | 1.500 N |
| cycle time for screwing in a screw: | aprox. 6 s (start / start) |
| Pneumatic system: | Operating pressure 5 bar |
| Energy supply provided by customer: | Power required 3 phase, 400 v, 50 hz. |

Features:

- _ Straight version for standard applications
- _ Compact version available for limited access applications
- _ Tool-less screwdriving tool replacement
- _ Screw seating height is relative to component surface
- _ Controllable thrust force
- _ Points system available for processing different screw lengths
- _ C50S controller with process & screwdriver control and optional touch screen
- _ Possible customer interfaces to C50S:
 - a) Digital b) Interbus c) Profibus
- _ Cable and hose package suitable for robots
- _ Minimum load-bearing capacity of robot 200 kg



Technology that connects

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