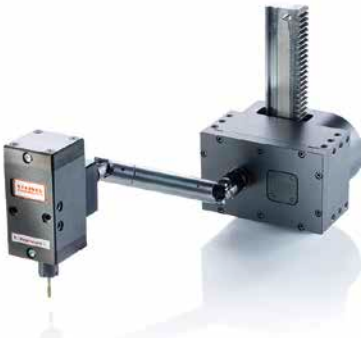



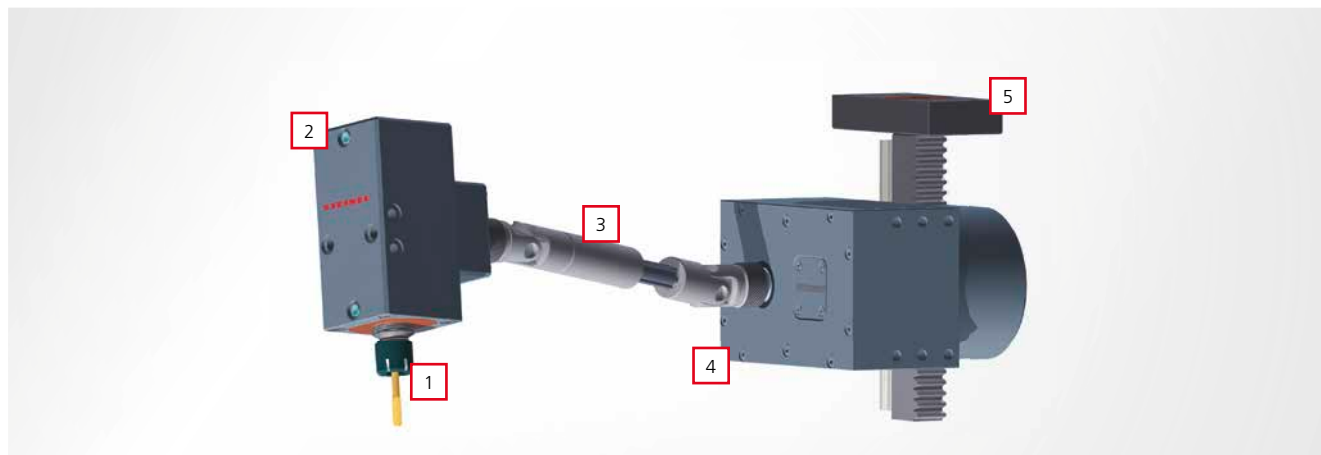
# Tapping units

## S-Former Z, S-Former E

With the specially designed tapping units S-Former Z (mechanical) and S-Former E (electronic) for punching and bending tools, STEINEL has made two systems available. The decision on the best system variant to use is made according to the specific requirements. We will be happy to help you with the selection, as well as the integration in your tool.

| Application fields/features   | S-Former Z  | S-Former E  |
|---|---|---|
|   |  |  |
| Drive   | mechanical via press stroke   | electrical via AC Servodrive  |
| Activation  | via tool stroke   | via external control unit   |
| max. press speed depending on the process parameters (strokes/min)                              | 150   | E0 = 160<br>E1.1 = 110<br>E1 = 80<br>E2 = 70<br>E3 = 50                             |
| Use in progressive stamping tools   | ✓   | ✓   |
| Use as autonomous unit, e.g. for rotary indexing tables (assembly station), in production lines | –   | ✓   |
| Use in presses, punching machines   | ✓   | ✓   |
| Tapping at any angle  | ✓   | ✓   |
| Process monitoring  | –   | ✓   |
| Use of carbide taps   | ✓   | ✓   |
| installable on blank holders  | ✓   | ✓   |
| installable on movable mounting   | ✓   | ✓   |
| installable on lower plate  | ✓   | ✓   |
| Use in various tools  | –   | ✓   |
| various thread sizes with a unit  | –   | ✓   |

## S-Former Z



The S-Former Z is a purely mechanical solution for process-integrated tapping. The linear stroke movement of the press is converted into a rotation movement via a gear rod-sprocket pairing. This is translated in the gear to the required rotation speed and transmitted via a Cardan shaft to the tapping unit head. There, a lead screw rotates equally with the roll tap (equal pitch) and drives it into the part.

For the design of the S-Former, information about the process is required. For inquiries, a corresponding form is available. It can be found at:

**[www.steinell.com](http://www.steinell.com) » Tapping units » S-Former Z»  
S-Former Z enquiry**

### Technical features

- Thread dimensions up to M12 possible
- Thread possible at almost any angle
- Collet for roll tap
- Threaded bush suspension as collision protection
- Lead screw rotates equally with the roll tap (equal pitch)
- Cardan shaft for balancing tapping unit head stroke movements
- Gear rod runner block guide
- Gear with oil lubrication/tapping unit head with grease lubrication
- compact design of the tapping unit head (60 x 60 x 143 mm)
- compact design of the gear (150 x 150 x 96 mm)

### The S-Former Z consists of

- 1 Guide cartridge
- 2 Tapping unit head
- 3 Cardan shaft
- 4 Gear
- 5 Gear rod with mounting plate