

SCREWDRIVING
AND FASTENING
SYSTEMS WITH
AUTOMATIC FEEDING

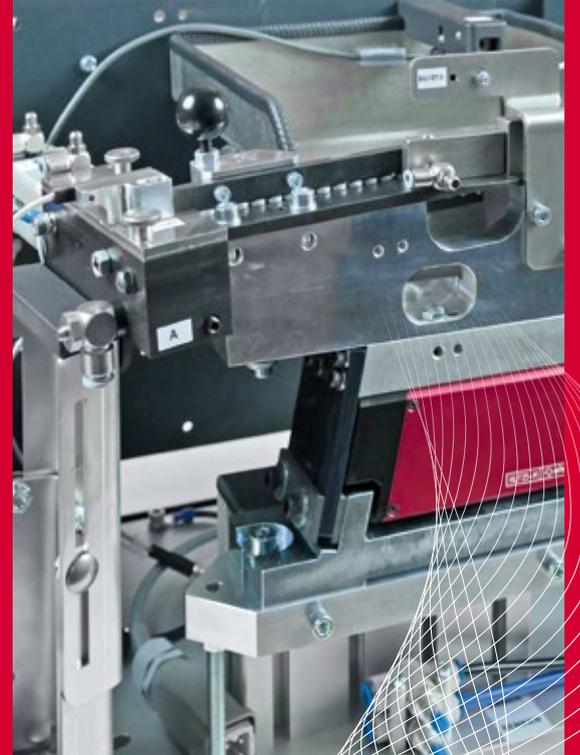
STÖGER
AUTOMATION

STF series

Step feeder for
a gentle feeding process



With a step feeder, you are opting for a technically sophisticated device that processes not only screws, but also pins, nuts and much more besides. The feed unit operates in accordance with a proven feeding principle: The fasteners are filled in a funnel-shaped container. Slides transport the fasteners onto a sorting section at the top edge of the container. The correctly positioned and sorted fasteners are transferred to the feed tube via an escapement. The system handles the screws gently, because vibration only arises on the sorting section and the slides only work if the sensor on the linear section signals a requirement for screws. All parts that come into contact with the fastener are designed for a long service life and produced from hardened tool steel.



The feed unit can be optionally expanded to include various sensors and accessory parts.

THE ADVANTAGES AT A GLANCE:

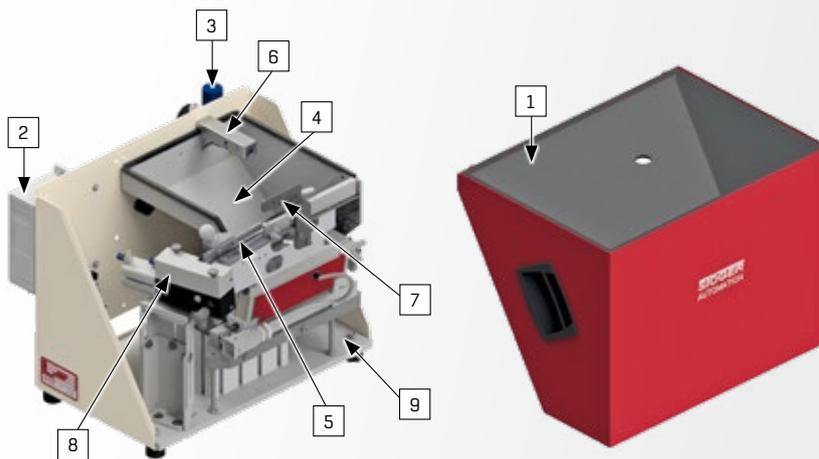
- + Gentle handling of screws
- + Suitable for the majority of fasteners
- + Low noise emissions
- + High throughputs
- + Rapid clearance of non-dimensionally compliant or deformed screws and foreign bodies
- + Can be operated from 100 to 240 V (50 / 60 Hz) without additional settings or modifications
- + Cover of the sorting chicane is simple to remove without tools, e.g. for maintenance purposes
- + Different screw batches can be balanced with the sorting equipment settings

Technical data

Dimensions [W x D x H]	450 x 420 x 375 mm
Operating pressure range	6 - 8 bar (oil-free air)
Compressed air quality	ISO 8573-1:2010 [7:4:4] - [Particles:Water:Oil]
Total weight	40 kg
Output	25 - 40 fasteners / min.
Capacity	0.5 litres
Screws	M3 - M6; length max. 38 mm, head diameter 4 - 12 mm
Pins	Diameter 3 - 12 mm; length 3 - 38 mm
Nuts	M3 - M8
Cleaning	- As required - Zinc-coated screws after approx. 30,000 cycles - Micro-encapsulated screws after approx. 12,000 cycles
Maintenance interval	Every 3,000,000 cycles or after no more than one year



Modules



- 1 Sound-proof cover
- 2 Controller
- 3 Maintenance unit
- 4 Container
- 5 Sorting section
- 6 Container contents level control
- 7 Sorting section fill level query
- 8 Escapement
- 9 Base frame

Accessories

Hopper

- Fill volumes from 3 - 50 litres
- Increase in autonomy time
- Gentle handling of the fasteners

Escapement / distributor

- Either supplies multiple screwdriving units in parallel or one spindle with different fasteners
- Targeted feeding possible

Contents level control

- Controlled refilling of fasteners; low wear and avoidance of particles forming due to reduced movement

CAD data available on
<https://www.stoeger.com/en/step-feeder.html>

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