

Patented shuttle feed

for transport of fasteners
without compressed air



With the compressed air free shuttle feed for fasteners, STÖGER AUTOMATION has created the first alternative to tube feeding using feed air. Compressed air consumption can be reduced by up to 98%. As a result, the shuttle is particularly well suited to screwing applications where technical cleanliness is important, as without feed air any particles present remain in the feeder bowl. The patented shuttle design is used in place of the conventional feed tube. The individual shuttles are arrayed consecutively in a dual-track feed tube. A turning unit is installed at the end of each of these, where the shuttles will be moved to the other on a "travel track" thus ensuring that a complete circuit is always formed. The fastener drops out of the escapement into a shuttle and will be moved by means of a cylinder system. Above the screwdriving unit, the particle



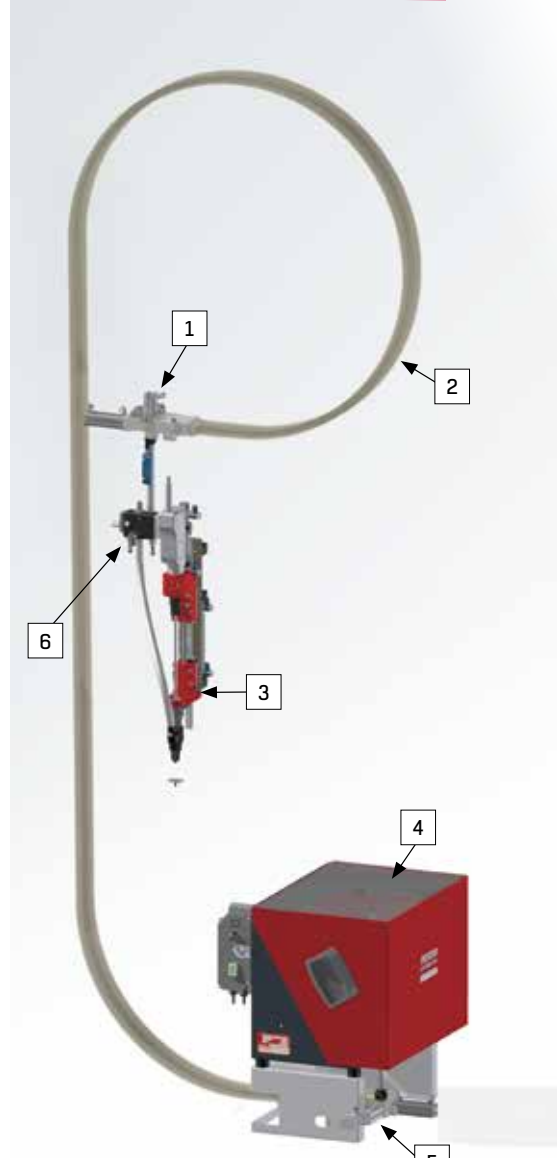
sluice or the escapement, it is ejected and fed to the screwdriver head with the correct orientation for processing.

THE ADVANTAGES AT A GLANCE:

- + *Very fast cycle times possible*
- + *98% less compressed air required*
- + *Energy-saving*
- + *Noise of the feed air no longer present*
- + *Also suitable for fasteners that are hard to feed*
- + *Up to 3,000 mm feed height possible*
- + *Maintenance-free system*
- + *With process control; alternatively also possible by customer*
- + *Can be retrofitted to existing systems*
- + *Particles from the feeder bowl do not reach the components*
- + *For applications requiring technical cleanliness*

Technical data

Max. screw head \varnothing	12 mm
Max. height of screwhead	8 mm
Max. screw length	50 mm
Nut	up to 12 mm
Max. tube length	6,000 mm
Min. bend radius of tube	500 mm
Max. vertical rise	3,000 mm
Dimensions tube	B x H 65 x 19 mm
Weight turning unit	approx. 0.8 kg
Dimensions turning unit	163 x 25 x 150 mm
Cycle time	< 2 sec.



Application example

- 1 Upper turning unit
- 2 Feed tube
- 3 Screwdriving system
- 4 Sorting device and escapement
- 5 Lower turning unit
- 6 Particle sluice (option)



More information about our feed units available at
<https://www.stoeger.com/en/feed-units.html>

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