

SCREWDRIVING
AND FASTENING
SYSTEMS WITH
AUTOMATIC FEEDING

STÖGER
AUTOMATION

CSX

Automatic screwdriver
for Human-Robot-Interaction
with automatic feeding



With its CSX STÖGER AUTOMATION has developed the first screwdriving unit specially designed for human-robot-interaction. As in all screwdriving units, the fasteners are automatically fed to the CSX. When this screwdriver was designed, special care was taken to eliminate possible risks for the operator. The safety cover of the nose piece, for instance, has been equipped with an automatic switch-off when touched, all edges have been rounded off and the feed arm has been covered additionally. For screwdriving processes in any position without a holding air current, a fixation device for the fastener has been integrated. We offer matching adapters for all current HRI robot types. The CSX also processes nuts and other fasteners. For difficult-to-access screw locations it can be equipped with a vacuum module.



THE ADVANTAGES AT ONE GLANCE:

- + rounded edges
- + automatic switch-off when protection sleeve is touched
- + short design
- + low weight
- + automatic feeding of fasteners
- + open interfaces for drives (electric / pneumatic), free choice of type and manufacturer
- + interfaces for signal and data exchange
- + analogue displacement-measuring system
- + high availability
- + quick bit change without special tools
- + controlled by the robot controller
- + suitable for robots with load-bearing capacity > 5kg

Technical data

screw size	M2 – M8*
nuts	upon request
weight in kg (without drive)	approx. 2.0
torque	up to 16 Nm
pressing force tool stroke	10-70 N
noise level measurement	approx. 50 dbA
cycle time	from 0.8 sec.*
vacuum version	yes
bit change	downward, < 10 sec.
length (without drive)	approx. 450 mm (depending on fastener)

* standard, further sizes on demand



electric drives of different manufacturers with/without torque sensor

pneumatic drive of different manufacturers

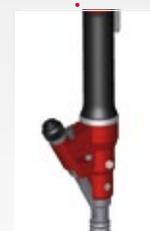


adapter for robot arm

protection sleeve with automatic switch-off



nut



ball sleeve / centering jaws



vacuum version (for work pieces with protruding edges)

CAD data available on www.stoeger.com/en/downloads.html under file "automatic screwdrivers"

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