

SCREWDRIVING
AND FASTENING
SYSTEMS WITH
AUTOMATIC FEEDING

STÖGER
AUTOMATION

RSX

Automatic screwdriver for lightweight robots



The RSX was developed for robot use and is suitable for lightweight robots from 3 kg due to its very low weight. The screwdriving unit is ESD conductive according to DIN EN 61340-5-1.

This makes the RSX also suitable for applications in electrical and electronic engineering. The connecting element is fed by hose. Alternatively a Pick&Place solution is offered.

A fixing device for the fastener has been integrated for screwing in all positions without holding air. Suitable adapters are available for all common robot models. Nuts and other connecting elements can also be fastened with the RSX.



The unit can be equipped with a vacuum module for difficult-to-access screw locations.

THE ADVANTAGES AT A GLANCE:

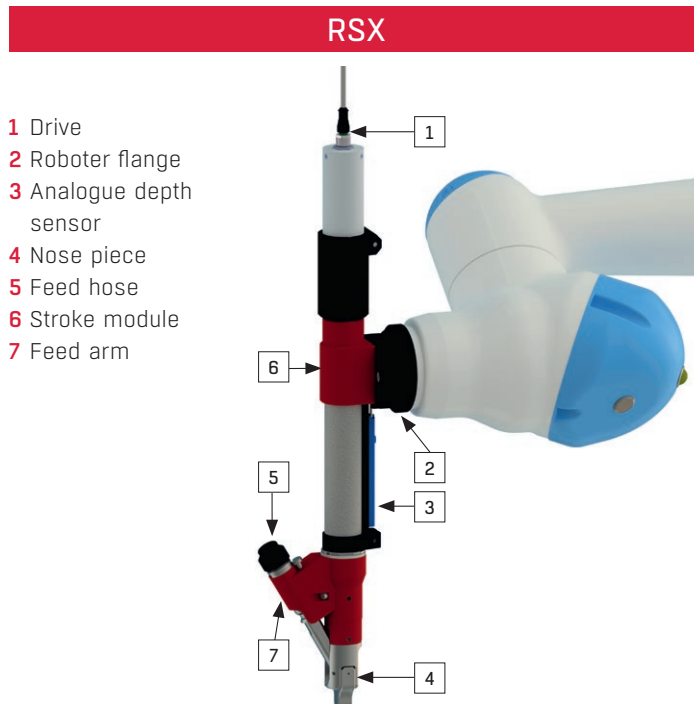
- + Suitable for robots with a load-bearing capacity > 3 kg
- + Compact design
- + Low weight
- + Automatic feeding of the fastener
- + Open interfaces for drives (electric / pneumatic), free choice of type and manufacturer
- + Interfaces for signal and data exchange
- + Analogue measuring system
- + High availability
- + Quick bit change without special tools

Technical data

RSX	
Screw size	M2 – M8*
Nut size	M2 – M8*
Weight (without drive)	approx. 1.9 kg
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. 400 mm

* standard, further sizes on demand

Modules



Interaction scenarios for robot applications

<p>Co-existence: Humans and robots are in adjacent areas at the same time. An example is an insertion station with a rotary table on a robotic cell.</p>	<p>Cooperation: Human and robot share a workspace, but work in it at different times. The work area is secured.</p>	<p>Collaboration: Both share the same workspace at the same time. According to DIN EN 10218-1 and ISO TS 15066, a distinction is made between 4 types of collaboration:</p> <table border="1"> <tbody> <tr> <td>Safety-rated monitored stop</td> <td>Manual guidance</td> <td>Power and force limitation</td> <td>Speed and distance monitoring</td> </tr> </tbody> </table>	Safety-rated monitored stop	Manual guidance	Power and force limitation	Speed and distance monitoring
Safety-rated monitored stop	Manual guidance	Power and force limitation	Speed and distance monitoring			
SUITABLE SCREWDRIVING SYSTEMS FROM STÖGER AUTOMATION						
<p>RSX SRS (SES series) SRL (SEL series)</p>	<p>RSX SRS (SES series) SRL (SEL series)</p>	<p>RSX CSX SRS (SES series) SRL (SEL series)</p>	<p>RSX CSX SRS (SES series)</p>	<p>CSX</p>	<p>RSX CSX</p>	

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

STÖGER AUTOMATION GmbH Phone: +49 8179 997 67-0
 Gewerbering am Brand 1 info@stoeger.com
 82549 Königsdorf www.stoeger.com

