SCREWDRIVING AND FASTENING SYSTEMS WITH AUTOMATIC FEEDING



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

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	Cooperation: Human and robot share a workspace, but work in it at different times. The work area is secured.	DIN EN 10218-1 and ISO TS 15066, a distinction is made betw				
cell.				limitation	monitoring	
	SUITABLE SCREWDRIVING	SYSTEMS FROM S	STOGER AUTOMATI	ON		
RSX SRS (SES series) SRL (SEL series)	RSX SRS (SES series) SRL (SEL series)	RSX CSX SRS (SES series) SRL (SEL series)	RSX CSX SRS (SES series)	CSX	RSX CSX	

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

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