

Product



No. 1 Position

The most compact electrical rotary actuator with air feed-through and air transmission.

Product features

Unique Selling Points:

- ✓ Pneumatic and electrical feed-throughs
- ✓ Optional pneumatic brake
- ✓ High power density and extremely low-profile design
- ✓ Precise repeat accuracy

Further product features:

- ✓ Version for intermediate circuit voltage of 48V DC (MCS 12) and 560 V DC (Bosch, Siemens)
- ✓ Standard: 8 x M8 3-pin signal transmission for sensor systems 24 VDC / 2 A via slip rings
- ✓ Special: Slip rings and feed-throughs for higher currents and voltages can also be combined
- ✓ 1 x air duct all the way to 8 bar
- ✓ Turns endlessly (max. 250 rev/min)
- ✓ Highest dynamic and rotation speed

Market and Competitors

Key Competitors

- ✓ Föhrenbach
- ✓ IDAM
- ✓ HWIN
- ✓ Weiss

Advantages towards competitors:

- ✓ Only rotary feed-through that combines electrical and pneumatic feed-through elements
- ✓ Extremely low-profile design
- ✓ Very good price/performance ratio
- ✓ Very high acceleration and delay values
- ✓ Dynamically stable and torsion-proof
- ✓ Pneumatic brake

Cost Effectiveness / Customer Benefits

- ✓ Low height is possible due to compact system design
- ✓ High torque and precise repeat accuracy for rapid acceleration and short cycle times
- ✓ Any intermediate position can be approached, enabling great process versatility
- ✓ With MCS12 Motion Controller (48 V DC) or Siemens/Bosch standard controller (560 V DC), providing maximum versatility in control and regulation strategies
- ✓ Turns endlessly, offering a wide spectrum of possible applications
- ✓ High efficiency

Questions about the product? Your contact person is T. Sibold (+49 - 7133 - 103 - 2574)

Technical Data / Functions

- ✓ Size: 170 / 210
- ✓ Rated torque: . 4,7 / 9,3 Nm
- ✓ Max. torque: 48V: 15/22 Nm
560V: 17/27 Nm
- ✓ Repeat accuracy: 0.01 °
- ✓ Weight: on request
- ✓ Axial force: 5,000/10,000 Nm
- ✓ Bending moment: 150/300 Nm

Complementary products:

- ✓ EGP, PG
- ✓ MPG

Industries and Applications

ERS convinces in the following industries:

- ✓ Automotive industry
- ✓ Chemical industry
- ✓ Pharmaceuticals
- ✓ Medical/surgical equipment
- ✓ Hygiene technology
- ✓ Biotechnology
- ✓ Electronics
- ✓ Assembly technology
- ✓ Plastics industry
- ✓ Machine & plant construction
- ✓ Automation
- ✓ Packaging industry

Applications

- ✓ Use as freely programmable rotary table in an assembly system
- ✓ As drive element in a packaging system for chemical fibers
- ✓ For realigning closed insulin ampoules

Additional Information

Compatibility with other Schunk systems:

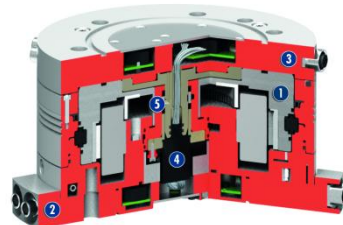


1. Servo-electric 2-finger parallel gripper PEH
2. Rotary module with ERS torque motor
3. Linear axis with HSB Delta spindle drive
4. Linear axis with HSB Beta toothed belt drive

Options in planning:

- Absolute-value transducer
- Safety encoder
- 130 only as special construction

Cross Section



1. ERS
2. Base plate terminal side
3. Connector flange connection side
4. Electrical feed-through
5. Pneumativ feed-through

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