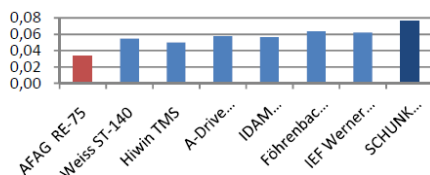


Product



Nr. 1 Position

The most compact electrical rotary actuator
Proportion Nominal torque /
design height



Product Features

Unique selling points:

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

Further product features:

- ✓ Optional IP54 protection class
- ✓ Large center bore for cable feed-through
- ✓ Turns endlessly
- ✓ Highest dynamic and rotation speed
- ✓ Version for intermediate circuit voltage of 48V DC (MCS 12) and 560 V DC (Bosch, Siemens)
- ✓ Standard norm plugs (M9, M17) for actuation and power supply
- ✓ Available for delivery now

Market and Competitors

Key Competitors

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

Advantages towards competitors:

- ✓ Extremely low-profile design
- ✓ Pneumatic brake
- ✓ Very good price/performance ratio
- ✓ Very high acceleration and delay values
- ✓ Dynamically stable and torsion-proof

CostEffectiveness / Customer Benefits

- ✓ Low height is possible due to compact system design
- ✓ High torque and high 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
- ✓ Center bore for cable feed-through, yielding tidy and compact system designs
- ✓ High efficiency

Longer lifespan and freedom from maintenance due to smaller number of wearing parts

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

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Technical Data / Functions

- ✓ Size: 135 / 170 / 210
- ✓ Height: 63 / 66 / 67 mm
- ✓ Rated torque: 2.5 / 5 / 10 N *
- ✓ Max. torque: 48V: 5.7/15/22 Nm *
560V: 8/17/27 Nm *
- ✓ Repeat accuracy: 0.01 °
- ✓ Weight: 2.7/4.7 /7.8 kg
- ✓ Axial force: 2,500/5,000/10,000 N
- ✓ Bending moment: 75/150/300 Nm

***In the IP54 version is expected by 30% less torque.
Designing in agreement with the technical sales.**

Complementary products:

- ✓ PEH, EGL, PG
- ✓ HSB-Achsen

Industries and Applications

ERS convinces in the following industries

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

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:

- Rotary feed-through
- Absolute-value transducer
- Safety encoder

Cross Section



1. Stator basic carrier
2. External rotor with center bore
3. Optional pneumatic brake
4. Electrical connection

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