

Product



No. 1 Position

The most compact electric rotary gripping units

Product Features

Unique Selling Points:

- ✓ Compact rotary/swivel unit
- ✓ Autonomous gripping and swiveling
- ✓ Adjustable gripping force
- ✓ Position monitoring using inductive proximity switches
- ✓ Freely adjustable angle of rotation

Further Product Features:

- ✓ M8 industrial plug connectors
- ✓ Control by digital I/O
- ✓ 24 V power supply
- ✓ Compatible with modular assembly automation components

Available: from Q2/2015

Market and Competitors

Key Competitors:

- ✓ AFAG
- ✓ EPS
- ✓ SMC
- ✓ IAI
- ✓ Gimatic

Advantages over Competitors:

- ✓ Compact design
- ✓ No external electronics needed
- ✓ Can be controlled using a fieldbus distributor due to low current input

Cost-effectiveness / Customer Benefits

- ✓ Energy efficiency thanks to the use of an electric power-train
- ✓ Low wear thanks to omission of shock absorbers
- ✓ Low wear thanks to brushless servo motors
- ✓ High availability
- ✓ Very simple control, no programming costs

Questions about the product? Ihr Ansprechpartner im Produktmanagement Greifsysteme ist Sebastian Höpfl

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Technical Data / Functions

Technical Data:

- ✓ Torque: 0.04 Nm
- ✓ Min. angle of rotation: 40°
- ✓ Max. angle of rotation: 320°
- ✓ 180° time: 0.18 s
- ✓ Gripping force: 30 N
- ✓ Stroke/jaw: 3 mm
- ✓ Time/stroke: 0.05 s
- ✓ L/W/H: 58/45/89 mm

Complementary Products:

- ✓ EGP
- ✓ EGP speed
- ✓ PPU-E
- ✓ ELB

Industries and Applications

- ✓ Assembly automation
- ✓ Loading
- ✓ Handling
- ✓ Small components handling

Sectional Diagram Key

- (1) **Base jaw**
For adaptation of the workpiece-specific gripper fingers
- (2) **Junction roller guide**
Precise gripping due to pre-loaded base jaw guidance free from play and almost constant gripping forces over the length of the fingers
- (3) **Gear**
High levels of efficiency due to spur gear stages and rack and pinion design for centric clamping
- (4) **Drives**
Wear-free, brushless DC motors
- (5) **Electronic control unit**
Integrated control and power electronics for gripping and swiveling for decentralized control of the servo motors
- (6) **Patented gear coupling**
of the gripping and swivel gears allows a **constant gripping force** throughout and after swiveling and would also allow **continuous rotation** without electrical feed-through

Sectional Diagram



Questions about the product? Your contact person at Product Management Gripping Systems is Sebastian Höpfl (+49-7133-103-2426)

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