

Product



No. 1 Position

The new standard in small parts handling

- 25 % increase in gripping force
- 30 % increase in basic load rating
- 10 % reduction in weight

Product features

Unique Selling Points:

- ✓ Small components gripper with oval piston
- ✓ Higher number of junction rollers/load rating
- ✓ Monitoring via programmable magnetic switch
- ✓ Weight-reduced design
- ✓ Tried and tested MPG basis

Other product features:

- ✓ Guide has higher load rating
- ✓ Multi-functional mounting options (via centering)
- ✓ sleeve, screwed through, fastened laterally, or from the bottom) for max. versatility/standardization
- ✓ ABV add-on valve as accessory/option
- ✓ Roller bearings offer greater efficiency than other common sliding guides

Market and Competitors

Key Competitors

- ✓ Sommer (MGP and GP100 series)
- ✓ Festo (HGP)
- ✓ SMC (MHZ)
- ✓ Afag (UG)
- ✓ Röhm (RPM)

Advantages towards competitors:

- ✓ Greater efficiency
- ✓ Greater power density with respect to volume and mass
- ✓ Greater permissible finger length
- ✓ Higher permissible forces and moments

Cost Effectiveness / Customer Benefits

Customer benefits:

- ✓ Greater gripping forces achieved at the same volume to mass ratio, allowing the use of smaller grippers
- ✓ Greater permissible finger length, allowing deeper intrusion length and more flexible system design
- ✓ Reliable processes due to compact and inexpensive position monitoring
- ✓ Weight-reduced design makes it possible to increase dynamics of both the gripper and the higher-level handling system
- ✓ Weight-reduced design reduced energy needed to move the gripper on a higher-level handling system
- ✓ Greater efficiency due to roller bearings, yielding lower energy consumption and higher performance

Questions about the product? Your contact person is M. Nagel (+49 - 7133 - 103 - 2561)

Technical Data / Functions

Technical Data:

- ✓ Sizes: 16 .. 64
- ✓ Weight: 0.03 kg .. 0.7 kg
- ✓ Gripping force: 25 N .. 350 N
- ✓ Stroke per finger:: 1.5 mm .. 10mm
- ✓ Workpiece weight: 0.13 kg .. 1.25 kg

Complementary products:

- ✓ OAS – Optical distance and presence sensor
- ✓ INS inductive monitoring
- ✓ FPS flexible position sensor
- ✓ Valve box for MPG-plus

Industries and Applications

MPG-plus convinces in the following industries:

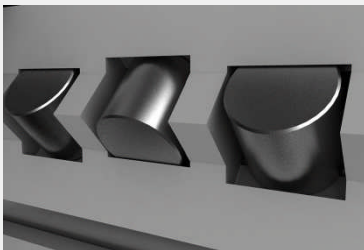
- ✓ MPG's previous areas of strength
- ✓ Handling and assembly technology
- ✓ Electrical industry
- ✓ Pharmaceutical industry
- ✓ Small components handling

Applications

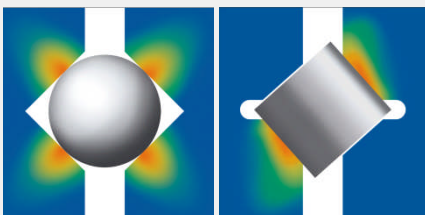
- ✓ Servo controller assembly
- ✓ Handling small components
- ✓ Loading THT boards
- ✓ Assembly of syringes
- ✓ Pick & Place of packaged lipsticks
- ✓ Automated sorting of loose parts

Additional information

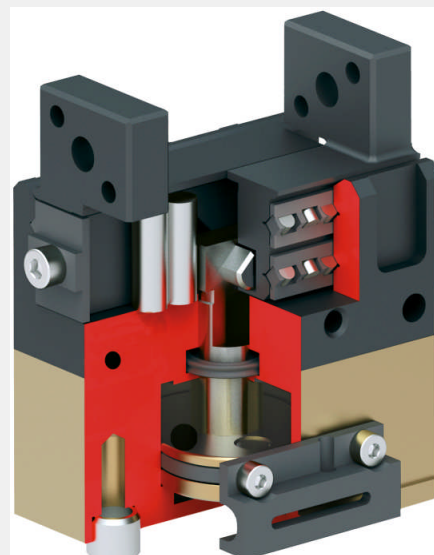
Milling rollers are closer together due to special roller cages



Optimized carrier construction of ball/roll



Cross Section



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