

## Product



## No. 1 Position

The smallest and most powerful electric gripper for small components with integrated electronics on the market.

## Product Features

### Unique Selling Points:

- ✓ Direct pneumatic alternative
- ✓ Simple digital control
- ✓ Rapid gripping with high force
- ✓ Tried and tested MPG-plus basis
- ✓ Two-stage (size 25) or four-stage adjustable gripping force (size 40/50/64)
- ✓ Electronics installed internally to save space
- ✓ Wear-resistant servo motor
- ✓ Compatible with the SCHUNK modular system (PPU-E and modular assembly automation)

### Further Product Features:

- ✓ Pneumatic sensor systems can be directly taken over, with the exception of MMS (IN 40, IN 5, FPS)
- ✓ Multi-functional mounting options (via centering sleeve, screwed through, fastened laterally, or from the bottom) for max. versatility/standardization
- ✓ Protection class IP30
- ✓ Housing out of high-performance aluminum

## Market and Competitors

### Key Competitors:

- ✓ Sommer GEP14XX series
- ✓ Sommer GEP9000 series
- ✓ AFAG EG series
- ✓ GUNDA: Colibri ELGE series
- ✓ PHD: EGRKF series
- ✓ IAI: RCP2CR series

### Advantages over Competitors:

- ✓ Higher gripping speed with comparable gripping force
- ✓ Use of existing MPG+ sensor system possible
- ✓ Adjustable gripping force
- ✓ Price

## Cost-effectiveness / Customer Benefits

- ✓ High gripping speed along with high force, especially for Pick&Place applications
- ✓ Simple digital control directly via, for example, sensor distributor is possible
- ✓ Quick and easily adjustable gripping force for adapting to the workpiece
- ✓ Reliable processes thanks to compact and inexpensive position monitoring
- ✓ Weight-reduced design results in greater dynamics in the gripper as well the primary handling system and lower energy consumption required to move the gripper on a higher-level handling system
- ✓ Brushless servo motors are maintenance-free and have high efficiency
- ✓ Greater efficiency due to roller bearings, yielding lower energy consumption and higher performance
- ✓ Can be used with PPU-E and the modular assembly automation system

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

## Technical Data / Functions

### Technical Data:

- ✓ Sizes: 25/40/50/64
- ✓ Strokes per finger: 3/6/8/10 mm\*
- ✓ Gripping force: 38/140/215/300 N\*
- ✓ Workpiece weight: 0.19/0.7/1.05/1.25 kg\*
- ✓ Operating voltage: 24 V DC
- ✓ Weight: 0.11/0.32/0.51/0.79 kg
- ✓ Closing time: 0.09/0.22/0.21/0.5 s

\* Identical with MPG+ pneumatic series

### Complementary Products:

- ✓ Modular assembly automation system
- ✓ PPU-E
- ✓ OAS optical distance and presence sensor
- ✓ IN inductive monitoring
- ✓ FPS flexible position sensor

## Industries and Applications

### The EGP convinces in the following industries

For all industries, and for challenging automated solutions which require high gripping speed along with simple control.

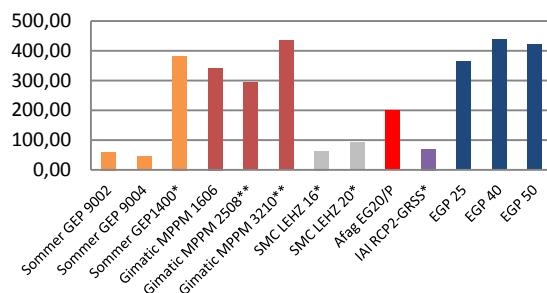
- ✓ Medical/surgical equipment
- ✓ Biotechnology
- ✓ Electrical industry
- ✓ Handling & assembly technology
- ✓ Pharmaceutical industry
- ✓ Machine & plant construction
- ✓ Automation

### Applications:

- ✓ Pick & Place
- ✓ Assembly technology (servo controllers, syringes, etc.)
- ✓ Handling small components
- ✓ Automated sorting of loose parts
- ✓ Loading THT boards

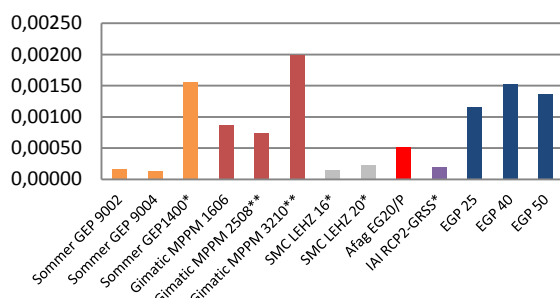
## Additional Information

Ratio gripping force/weight [N/kg]



\* without integrated electronics/ \*\* not available for delivery

Gripping force/volume in N/mm<sup>3</sup>



## Sectional Diagram



- 1 - Base jaw
- 2 - Junction roller guide
- 3 - Gear
- 4 - Drive
- 5 - Electronics

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