

Superior Clamping and Gripping



MPG-plus Miniature Parallel Gripper

More Power in Small Part Handling!
25% higher Gripping Force – 30% better Load Rating!



The MPG-plus is the pneumatic Miniature Parallel Gripper with the best compact Performance on the Market.

Highly efficient small part handling in confined spaces.
The MPG-plus is setting new standards in small part handling with its compact performance.

The MPG-plus with its unique combination of an oval piston drive and cross roller guidance ensures a high level of efficiency at a higher force and moment absorption.

Convincing benefits:

- **25% higher gripping forces** at the same gripper size
- **25% longer gripper fingers** at the same gripper size
- **30% higher load rating** due to improved guidance (cross roller guidance)
- **10% weight reduction** for higher dynamics
- **20% shorter closing time** for shorter cycle times

compared to the MPG, which previously defined the benchmark in small part handling.

The SCHUNK MPG-plus gripper results from:

Top quality "Made in Germany" combined with a perfect innovative drive offering absolute reliability. Due to the higher gripping forces at the same volume/mass ratio, more compact systems can be designed, and are implemented at a lower energy consumption.

Benefit from the dynamics and energy efficiency of the MPG-plus, the benchmark of the competence leader for clamping technology and gripping systems.



"With this force you will win every game. The MPG-plus is a pneumatic miniature parallel gripper with the highest compact performance on the market. Test it now"



MPG-plus:
Award winner at the
AUTOMATICA show



MPG-plus – Technical Features

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

Two Benchmark Products in Comparison

Depending on the individual requirements profile, you always have the first choice with the MPG-plus or MPG miniature parallel gripper from SCHUNK

MPG-plus 40

- **Maximum closing force:** 135 N
- **Maximum admissible finger length:** 50 mm
- **Guidance:** Cross roller guidance with a 30% higher payload
- **Drive concept:** Diagonally seated oval piston for maximum compact performance at the same space as the MPG 40
- **Gripper fastening:** Bottom-sided via centering sleeves and threads for screw connection, optional via standardized adapter plates, also for screwing through, laterally for screwing through or screwing without centering possibility
- **Scope of delivery:** Centering sleeves, bracket for MMS-P programmable magnetic switch, O-rings for direct connection, assembly and operating manual with declaration of incorporation
- **Sensors:** Programmable MMS-P magnetic switch, IN 40 inductive proximity switch, FPS flexible 5-positions-sensor

MPG 40

- **Maximum closing force:** 110 N
- **Maximum admissible finger length:** 40 mm
- **Guidance:** Cross roller guidance
- **Drive concept:** Round piston
- **Gripper fastening:** Bottom-sided via centering sleeves and threads for screw connection, laterally only for screwing through without centering possibility
- **Scope of delivery:** Centering sleeves, brackets for IN 40 proximity switch, O-rings for direct connection, assembly and operating manual with declaration of incorporation
- **Sensors:** IN 40 inductive proximity switch, FPS flexible 5-positions-sensor

Secure Processes due to an optimally matching Sensor System

Optionally available, compact position interrogations make the integration of the MPG-plus in the system process very simple, and ensures process reliability at low investment costs.



Programmable MMS-P magnetic switch, for interrogation of the two end positions.



IN inductive proximity switch, for interrogation of the two end positions.



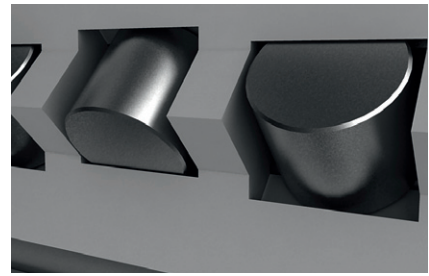
FPS flexible position sensor, for interrogation of up to five switching points.

Superior Technology for efficient Applications

More piston surface – precise guidance

The large oval piston surface and increase of the number of cross rollers provides for a considerably higher degree of efficiency. The improved cross roller guidance with an increased number of cross rollers allows higher gripping forces.

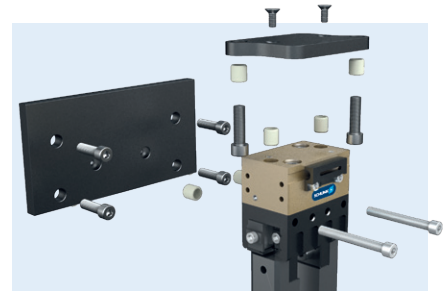
Your benefit: 25% higher gripping forces offer the possibility of using smaller sizes



Variable screw connection – highest flexibility

Multi-purpose fastening possibilities ensure fast and easy gripper assembly and change. The gripper can be easily positioned with centering sleeves: laterally or bottom-sided by screwing through or screwing on. Optionally an adapter plate is available, for screwing through from the bottom. This allows a space-saving assembly of several grippers next to each other.

Your benefit: Fast assembly and easy change of the MPG-plus gripper



From one source – Pick & Place with MPG-plus

Combine the MPG-plus miniature parallel gripper with the PPU-P from SCHUNK, the fastest pneumatic pick & place unit on the market. Benefit from high-speed pick & place with 95 cycles per minute for process-reliable applications in handling and assembly technology, in assembly automation, and small part handling.

Your benefit: SCHUNK gripping modules combined with high-speed units



ABV add-on valve – shorter hoses, improved cycle time

The electrically controlled 3/2 pneumatic ABV micro valves can be directly connected with screws to the gripper. This hose-free direct assembly minimizes the hoses effort, reduces the cycle times, and saves valuable compressed air. The time-consuming filling of supply lines is not necessary, and the compressed air actuates the gripper directly.

Your benefit: Lower compressed air consumption



EGP electric Small Part Gripper

New

The powerhouse – the gripping force can be adjusted in four stages and the gripping force/mass ratio is improved by 180% compared to similar small part grippers!

The EGP, the powerhouse, scores with a gripping force/mass ratio which is improved by 180% towards comparable small part grippers. The change from pneumatic to mechatronic gripping modules is a child's play with the EGP – **request for our brochure.**

www.schunk.com/EGP/en