

Product



Unique Selling Points

Special features:

- ✓ **Sealed parallel gripper with integrated multi-tooth guide**
- ✓ Lip seal on the outer circular guide provides permanently secure sealing
- ✓ Protection class (tightness) IP 67
- ✓ Oval piston drive for maximum gripping force
- ✓ Mounting on 2 sides of the gripper in 3 screwing directions
- ✓ Power supply via hose-free direct connection or connected with screws
- ✓ **The first with long-life warranty**



Technical Data / Functions

Sizes

40 - 200

Weight

0.25 kg - 9.5 kg

Gripping force

110 N - 6230 N

Stroke per finger

2 mm - 25 mm

Workpiece weight, force-fit gripping

0.6 kg - 22.1 kg

Optional compatibility with PGN-plus

Further options

- ✓ ATEX variant (*gripper version for explosive environments. The gripper is provided with a conductive surface coating. This allows electrical voltages created by friction to be grounded. The risk of discharging sparks is thereby eliminated.*)
- ✓ KVZ variant increases the gripping force when opening and closing

Cost Effectiveness/ Customer Benefits

- ✓ Robust multi-tooth guide ensures maximum process reliability ("Automotive Proven").
- ✓ Above-average gripping force means smaller gripper size is possible.
- ✓ High payload permits use of longer gripper fingers.
- ✓ Compact design permits optimized system design.
- ✓ Complementary sensor accessories permit synchronous function monitoring.
- ✓ Maximum repeat accuracy and therefore reliable processes.
- ✓ Various screw-mounting options permit flexibility of process and system design.
- ✓ Long life warranty ensures low total cost of ownership, lower costs over the life span.

Price from 497 euros to 1,463 euros

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



Market and competitors

Main competitors

- ✓ Sommer: GP1800-B, GP1200, GP200
- ✓ Röhml: DPDL

Advantages over competitors:

- ✓ Greater permissible finger length due to extended housing and multi-tooth guide.
- ✓ Higher gripping force due to use of oval pistons.
- ✓ Patent protection for multi-tooth guide
- ✓ Higher permissible moments in Mx and My due to extended housing and multi-tooth guide
- ✓ Piston stroke monitoring with magnetic switches and inductive proximity switches

Stepped adapter plates are no longer required for mounting GKS versions.

Line of Argument

- ✓ Speak to the customer specifically about system downtimes. Due to the robust multitooth guide, our grippers have fewer malfunctions. Less system downtime → More productivity.
- ✓ Tell the customer about our broad range of options. None of the competitors can match that! Every customer receives a customized DPG-plus!
- ✓ Promote the long-life warranty. It is the only one of its kind on the market. Lower total cost of ownership!

Storytelling

- ✓ The company GETRAG Getriebetechnik uses the DPG-plus for the production of gears. This is a particularly dirty environment. A lot of cooling lubricant in particular is used here. Under these conditions, the competitors have failed many times.
- ✓ Daimler AG grinds high-precision shafts between the points. Loading and unloading is carried out by 2 DPG-plus grippers. Competitors' products have a considerably shorter life span.

Industries and Applications

The DPG-plus is very suitable for handling rough and dirty workpieces.

DPG-plus is especially strong in the following industries:

- ✓ Foundry
- ✓ Automotive
- ✓ Surface treatment systems

Applications

- ✓ Immersing warm cast-iron parts in cold water
- ✓ Handling milled parts
- ✓ Automated loading of powder coating systems
- ✓ Loading and unloading of machine tools with a high occurrence of chips and cooling lubricant.

Functional principal and advantages of the multi-tooth guide



1.) The load is carried on several shoulders. Unlike classic T-slot guides, which have 2 loadbearing shoulders, the multi-tooth guide has 6 shoulders. This increases the total bearing surface so that the gripper can carry greater loads.

2.) More power: The large space between the multi-tooth guides allows for a particularly strong diagonal pull. This guarantees that the force of the powerful oval piston is exerted to the fullest extent while limiting wear and damage.

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