

Product



Unique Selling Points

- ✓ The first gripper with multi-tooth guide
- ✓ The first gripper with a long life warranty
- ✓ Huge variety of options - Suitable for numerous applications
- ✓ The base jaws are manually ground. This ensures the optimum fitting of the components. Efficiency and life span are many times higher than normal.
- ✓ Embedded in a large overall range / Solutions from a single source
- ✓ Power supply via hose-free direct connection or connected with screws



Technical Data / Functions

Sizes

40 .. 380

Weight

0.43 kg - 87.5 kg

Gripping force

580 N - 59500 N

Stroke per finger

3 mm - 40 mm

Workpiece weight, force-fit gripping

2.9 kg - 190 kg

Further options

- ✓ Spring for maintenance of gripping force
- ✓ ATEX variants
- ✓ Precision variants for high-accuracy applications
- ✓ Clean room versions
- ✓ Dust cover for high-temperature version

Cost Effectiveness/ Customer Benefits

- ✓ Robust multi-tooth guide means maximum process reliability ("Automotive Proven").
- ✓ Above-average gripping force means smaller gripper size is possible.
- ✓ High payload permits the 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.
- ✓ Long-life warranty ensures low total cost of ownership – lower costs over the life span.

Price from 568 euros to 4,192 euros

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



Market and competitors

Main competitors

- ✓ Sommer: GD500 (X)
- ✓ Festo: HGDT
- ✓ Röhnm: PPC

Advantages over competitors

- ✓ Greater permitted finger length due to extended housing and multi-tooth guide.
- ✓ Higher permitted moments M_x and M_y (M_z the same as with PZN) due to extended housing and multi-tooth guide.

Optimized monitoring

- ✓ 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. With the robust multi-tooth guide, the 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 gets the perfect PZN-plus for his application!
- ✓ Promote the long-life warranty, it is the only one of its kind on the market. Lower total cost of ownership!

Storytelling

- ✓ The PZ-plus is the standard gripper when it comes to handling centric parts.
- ✓ The company Bär Automation has already used the PZN-plus many times in crank shaft handling for Daimler.
- ✓ Moreover the gripper is included on Bosch's approval list, and Bosch's production planners are therefore free to use it without further authorization. As a global company, Bosch trusts SCHUNK grippers.

Industries and Applications

Optimal standard solution for many applications. Universal use in clean to slightly dirty environments. Also available in special variants for contaminated environments. Suitable, standard options for many other industries.

PGN-plus performs particularly well in the following industries:

- ✓ Assembly and Handling
- ✓ Automotive
- ✓ Pharmaceuticals

Applications

- ✓ Assembly of writing implements
- ✓ Automated handling of chassis components
- ✓ Loading and unloading of machine tools

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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