SCHUNK Grippers
Product Overview
Superior Clamping and Gripping

Jens Lehmann stands for safe, precise gripping and holding. As a brand ambassador of the SCHUNK team, the No. 1 goalkeeper represents our global competence leadership for clamping technology and gripping systems. The top performance of SCHUNK and Jens Lehmann are characterized by dynamics, precision, and reliability.

For more information visit our website: www.gb.schunk.com/Lehmann

Jens Lehmann
Top Performance in the Team

SCHUNK is the world’s No. 1 for clamping technology and gripping systems – from the smallest parallel gripper to the largest chuck jaw program.

In order to boost efficiency, SCHUNK customers have bought more than 2,000,000 precision toolholders, 1,000,000 SCHUNK grippers, and 100,000 lathe chucks and stationary workholding systems so far.

This makes us proud and motivates us to attain new top performances.

As a competence leader, we recognize and develop standards with a large potential for the future, which will drive the rapid progress in many industries.

Our customers profit from the expert knowledge, the experience, and the team spirit of more than 2,500 employees in our innovative family-owned company.

The Schunk family wishes you improved end results with our quality products.

Henrik A. Schunk, Kristina I. Schunk, brand ambassador Jens Lehmann, and Heinz-Dieter Schunk
SCHUNK Grippers
The world’s most proven Grippers on the Market.

Our pioneering spirit and perfectionism shape the future of gripping systems. SCHUNK offers the most extensive portfolio of grippers in the world.

Standard gripping modules, ready-to-install gripping system assembly groups and an extremely wide range of customized gripping system solutions for your handling and assembly, automation and robot end-of-arm solution.

At the same time, we encounter amazingly complex gripping requirements time and time again, and we solve them.

The result: robust and durable gripping systems that ensure guaranteeing maximum reliability in automated systems and machines all over the world for 30 years.

More than 2,500 standard grippers
More than 300 mechatronic grippers
More than 12,000 gripping system solutions implemented
More than 1,000,000 products in use worldwide

Pneumatic 2-Finger Grippers
Suitable for universal use in clean or dirty environments, or even in cleanrooms. Suitable for assembly automation and the handling of both small components and heavy loads.

• Gripping forces up to 21,150 N
• Stroke per jaw up to 300 mm
• Finger lengths up to 800 mm

Pneumatic 3-Finger Centric Grippers
For gentle and even gripping of rotationally symmetric, sensitive or even hollow parts. For use in small parts handling or a work-piece weight of up to 300 kg.

• High gripping forces
• High reliability, long life span
• Suitable for internal and external gripping

Pneumatic Angular Grippers
For trouble-free gripping of parts in pick & place applications, for swiveling away optimized with regard to interference contours with completely opened chuck jaws as well as workpiece transport.

• Opening angle up to 90°
• Workpiece weights up to 12 kg

The NEW PGN–plus
MPZ
PWG–plus
It’s time to use of your machine’s full potential!

With superior components, find potentials in your machine, where you would least expect to find them. SCHUNK Synergy – the perfectly harmonized interplay between clamping technology and gripping systems – turns our customers into productivity champions.

With MECHATRONIK®, SCHUNK is offering the most extensive range of electric modules with more than 300 standard components.

- Freely adjustable positions
- Flexibly adjustable gripping forces

SCHUNK Gripper Accessories

With around 150 sensor variants and a wide range of high-quality accessory components, SCHUNK offers the greatest variety on the market.

- Measure forces exactly
- Sense positions
- Monitor workpieces
- Minimize energy consumption
- Dust, corrosion protection, high-temperature

Special Grippers and customized Grippers

Over 10,000 implemented gripping system solutions for different industries

- Security in the selection for electric gripping system solutions
- Combination of all individual functions for your optimal production automation and robot equipment!
SCHUNK Grippers

SCHUNK Grippers. Technology delivers the Benefits. Force, Precision, and Variety – pneumatic and electric.

Pneumatic SCHUNK Grippers

We offer a comprehensive range of pneumatic gripping modules distinguished by high product quality and precision with extensive query systems. The dimensions of the optimally differentiated series cover the full range of workpiece sizes. This leading technology “Made in Germany” is only possible through our constant innovation.

Pneumatics

Pneumatic SCHUNK gripping modules are characterized by simple commissioning, high moment capacity, powerful kinematics for a long service life and high gripping forces as well as large stroke ranges compared to their size.
SCHUNK is the first manufacturer with Mechatronics³ strategy, which bundles a comprehensive electric gripper product portfolio. Its three pillars – Alternative, Adaptable and Intelligent – combine to form a unique modular system. This brings together our decades of experience in the field of pneumatics and our pioneering success in the field of mechatronics, and offers proven, efficient automation solutions for almost any mechatronic requirement.

Profit from the 3 main features of our leading modular system:

Alternative
Like-for-like pneumatic replacements with no change in power. Familiar pneumatics functions can be replicated with 100% accuracy using SCHUNK mechatronic components.

Adaptable
Driven by conventional servomotors. A motor adapter allows you to connect conventional servomotors to your SCHUNK components.

Intelligent
Fully integrated motor and control technology. The controller is either integrated into the SCHUNK component to save space or installed in the control cabinet.
SCHUNK eGRIP Finger Designer

Gripper Fingers at the Press of a Button.

Design and order in 15 minutes.

SCHUNK eGRIP is the first fully automatic, web-based 3D design tool for additively manufactured gripper fingers. The browser-based web tool does not require a license and drastically curtails the design and ordering time for customized gripper fingers.

Your advantages with the SCHUNK eGRIP Finger Designer

- Delivery in 1 week
- 100% customer-fit
- 50% cost reduction in gripper fingers

Practical example.

SCHUNK eGRIP also makes it possible to achieve form-fit finger geometries easily, as they eliminate the difficulties of manufacturing by metal cutting.

Cast-iron workpiece

Steam boiler of a model railway locomotive

Simply upload the STEP or STL file of the workpiece. Add the specific requirements, for example weight, installation position of the gripper or finger length.

www.egrip.schunk.com
Individual gripper finger made of polyamide and now NEW made of steel and aluminum
Customized for every user with a choice of three materials. In addition individual gripper fingers made of polyamide, SCHUNK eGRIP now extends the offer to include additive manufactured fingers made of aluminum and steel. An integrated lightweight structure lowers the weight of SCHUNK eGRIP metal fingers by up to 50 percent.

Online design and webshop order in 15 minutes
Delivery in 1 week

SCHUNK eGRIP creates individual gripper fingers with optimal 3D contouring and a detailed quote with price and delivery time.

SCHUNK eGRIP quickly gives you individual SCHUNK gripper fingers.
2-Finger Parallel Grippers

Pneumatic

The NEW SCHUNK Gripper PGN–plus


With the NEW PGN–plus–P, SCHUNK is once again raising the bar for pneumatically powered universal grippers. Due to consistent optimization of the multi-tooth and force, it sets the new benchmark for the market. At the same time, the NEW PGN–plus benefits from the unique SCHUNK accessory program for the nearly complete spectrum of feasible automation applications.

Your benefits:

• Up to 50% longer gripper fingers – due to higher maximum moments
• Higher force with the enlarged surface of the drive piston
• Longest life span due to lubrication pockets in the durable multi-tooth guidance
• Maximum process reliability due to lower surface pressure
• Diverse accessories

* Under normal, clean operating conditions more than 50 million cycles.

www.gb.schunk.com/PGN–plus

Patented Precision! Patentierte Präzision!
# 2-Finger Parallel Grippers

## Pneumatic

<table>
<thead>
<tr>
<th>2-Finger Parallel Grippers</th>
<th>MPG-plus</th>
<th>MPG</th>
<th>KTG</th>
</tr>
</thead>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MPG-plus</th>
<th>MPG</th>
<th>KTG</th>
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</thead>
<tbody>
<tr>
<td>Number of sizes</td>
<td>7</td>
<td>9</td>
<td>1</td>
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<tr>
<td>Gripping force [N]</td>
<td>25 .. 350</td>
<td>7 .. 270</td>
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</tr>
<tr>
<td>Stroke per jaw [mm]</td>
<td>1.5 .. 10</td>
<td>1 .. 10</td>
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<td>0.05/0.05</td>
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<tr>
<td>Max. permissible finger length [mm]</td>
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<td>10 .. 64</td>
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<tr>
<td>Repeat accuracy [mm]</td>
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<td>0.02</td>
<td>0.02</td>
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<td>Protection class IP</td>
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<tr>
<td>Sensor system</td>
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<td>++</td>
<td>*</td>
</tr>
<tr>
<td>Comprehensive ranges</td>
<td>++</td>
<td>++</td>
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</table>

**Description**

The most powerful pneumatic miniature parallel gripper on the market with a unique combination of oval piston drive and junction roller guide.

2-finger parallel gripper with smooth running base jaws guided on roller bearings.

2-finger parallel gripper with center bore.

### Field of application

- **Gripping and moving**
- **For small to medium workpieces**
- **In the areas of assembly, testing, laboratory, pharmacies**

- **Gripping and moving**
- **For small to medium workpieces**
- **In the areas of assembly, testing, laboratory, pharmacies**

- **Gripping and moving**
- **For small to medium workpieces**
- **Equipped with a continuous center bore for workpiece supply, sensor or actuator systems**

### Ambient conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>MPG-plus</th>
<th>MPG</th>
<th>KTG</th>
</tr>
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<tbody>
<tr>
<td>Clean</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Contaminated/coarse dust</td>
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<tr>
<td>Contaminated/fine dust and liquids</td>
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<td>●</td>
<td></td>
</tr>
<tr>
<td>Cleanroom</td>
<td>○</td>
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● = Highly suitable  ○ = Suitable in special design (on request)  ○ = Suitable to a limited extent
<table>
<thead>
<tr>
<th>KGG</th>
<th>RH</th>
<th>The NEW PGN-plus</th>
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<th>JGP</th>
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<td>0.02 .. 0.8/0.02 .. 0.8</td>
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<td>0.01 .. 0.05</td>
<td>0.01 .. 0.05</td>
</tr>
</tbody>
</table>

| 40 | 30 | 40/64 | 40/64 | 40 |

5

• Universal use
• For light to medium workpiece weights
• With a large range of stroke

Narrow 2-finger parallel gripper with large stroke

The RH series is a low-price gripping system, which is particularly suitable for light applications. Universal 2-finger parallel gripper with large gripping force and high maximum moments due to multi-tooth guidance. Universal 2-finger parallel gripper with large gripping force and high maximum moments due to multi-tooth guidance. Universal 2-finger parallel gripper of the compact class with T-slot guidance and best cost-performance ratio.

<table>
<thead>
<tr>
<th><img src="image6.png" alt="Image" /></th>
<th><img src="image7.png" alt="Image" /></th>
<th><img src="image8.png" alt="Image" /></th>
<th><img src="image9.png" alt="Image" /></th>
<th><img src="image10.png" alt="Image" /></th>
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</thead>
</table>

- Universal use
- For light to medium workpiece weights
- With a large range of stroke

- Optimal standard solution for many fields of application
- Universal use

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- Universal use

- Optimal standard solution for many fields of application
- Universal use
- In the areas of machine and plant construction, assembly and handling as well as the automotive industry
Cleanroom

High temperature range > 90 °C

Contaminated/aggressive liquids

Contaminated/coarse dust

Ambient conditions

Field of application

Comprehensive ranges

Cleanroom class ISO 14644-1

Repeat accuracy [mm]

Max. permissible finger length [mm]

Gripping force [N]

Number of sizes

Technical data

= Highly suitable

= Suitable in special design (on request)

•

•

MPG-plus

2-Finger Parallel Grippers

- Pharmacies

In the areas of assembly, workpieces

- Roller bearings

2-finger parallel gripper

Gripping and moving

- Motor vehicle wheel rims

- Grinding machines, lathes

- Housing and large, flexibly ad

- Motor vehicles, such as in the

- Case of sanitary blocks, machines, such as in the

- Assembling and handling of large parts and/or

- Suitable for light

- Suitable for light

- Optimal standard

- For precise handling of a wide variety of workpieces

<table>
<thead>
<tr>
<th>PGF</th>
<th>PGB</th>
<th>DPG-plus</th>
<th>PHIL</th>
<th>PFH-mini</th>
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<td>5</td>
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<td>110 .. 11430</td>
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<td>7.5 .. 31.5</td>
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<td>2.5 .. 45</td>
<td>30 .. 160</td>
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<td>1.2 .. 7.1</td>
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<tr>
<td>0.03 .. 0.4/0.03 .. 0.4</td>
<td>0.02 .. 0.08/0.02 .. 0.08</td>
<td>0.03 .. 1.1/0.03 .. 1.1</td>
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<tr>
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<td>200 .. 800</td>
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<td>0.02 .. 0.03</td>
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<td>0.02</td>
<td>0.05</td>
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<tr>
<td>40</td>
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<td>++</td>
<td>+</td>
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</tr>
</tbody>
</table>

Universal parallel gripper with surface-guided base jaws

Universal 2-finger parallel gripper with high gripping force and high moment capacity due to the multi-tooth slideway as well as the center bore

Despite the high moment load of the base jaws, this sealed 2-finger parallel gripper conforms to the IP67 requirements and does not permit any substances from the working environment to penetrate the interior of the unit

2-finger parallel gripper with large jaw stroke for large parts and/or a broad range of parts

Gripper with large jaw stroke for large parts and a broad range of parts

- For high part diversities due to its long jaw stroke and high gripping forces

- Universal use

- Suitable for applications that require a center bore, e.g. for workpiece feed, special sensor systems or optical recognition systems

- Ideally suitable for handling of rough or dirty workpieces

- Its field of application extends from the loading and unloading of machines, such as in the case of sanitary blocks, grinding machines, lathes or milling machines, to handling tasks in painting plants, in powder-processing or underwater

- Optimal standard solution for many fields of application

- Universal use

- In the areas of machine and plant construction, assembly and handling as well as the automotive industry

- For precise handling of a wide variety of workpieces
## 2-Finger Parallel Grippers

### Pneumatic

<table>
<thead>
<tr>
<th>PFM</th>
<th>CGH</th>
<th>PSH</th>
<th>SPG</th>
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<tbody>
<tr>
<td>![Image](28x633 to 103x714)</td>
<td>![Image](127x643 to 211x705)</td>
<td>![Image](341x636 to 408x712)</td>
<td><img src="414x440" alt="Image" /></td>
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<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>4</td>
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<td>4</td>
<td>1</td>
</tr>
<tr>
<td>2200</td>
<td>2500</td>
<td>320 .. 1760</td>
<td>11480</td>
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<tr>
<td>150 .. 300</td>
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<td>14 .. 100</td>
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</tr>
<tr>
<td>18.9 .. 33.6</td>
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<td>0.77 .. 8.05</td>
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<td>11.2 .. 14.7</td>
<td>12.7</td>
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<td>0.7 .. 1.25/0.7 .. 1.25</td>
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<td>1.5/1.5</td>
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</tr>
<tr>
<td>30</td>
<td>30</td>
<td>67</td>
<td>30</td>
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</tbody>
</table>

**++**

- **2-finger parallel gripper with long jaw stroke and dirt-resistant round guidances**
- **Sturdy 2-finger parallel gripper for heavy components and a broad part range, equipped with robust guidances and therefore suitable for high gripping forces and maximum moment loads.**

- **Especially suited to handling motor vehicle wheel rims**
- **For a wide range of parts**
- **Covering a wide range of parts with a large jaw stroke**
- **High gripping force for heavy workpieces**

<table>
<thead>
<tr>
<th>![Image](28x633 to 103x714)</th>
<th>![Image](127x643 to 211x705)</th>
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</tbody>
</table>

- **• Especially suited to handling motor vehicle wheel rims**
- **• For a wide range of parts**
- **• Covering a wide range of parts with a large jaw stroke**
- **• High gripping force for heavy workpieces**
SCHUNK MPG–plus

The most powerful pneumatic miniature parallel gripper on the market.

Highly efficient small parts handling in the most compact space. With its compact performance, the MPG–plus sets the new standard for handling small parts. The unique combination of oval piston drive and junction roller guide of the MPG–plus ensures higher efficiency because of higher force and load capacity.

Your benefits:

- **25% higher gripping forces** with identical size
- **25% longer gripper fingers** with identical gripper size
- **30% higher basic load rating** by improved guidance (junction roller guide)
- **10% less weight** for higher dynamic properties
- **20% improved closing time** for shorter cycle times

comparison with the SCHUNK MPG, which until now defined the benchmark in small parts handling.

Larger piston surface – more precise guidance

The larger oval piston surface and increase in the number of junction rollers ensure significantly improved efficiency. The improved junction roller guide with increase in the number of junction rollers permits higher gripping forces.

Variable screw connection – maximum flexibility

Diverse mounting options guarantee quick, easy gripper mounting and changes. The gripper can be easily positioned using the guide sleeves and can be screwed through and fixed either laterally or at the base.

From a single source – pick & place with MPG–plus

Combine the MPG–plus miniature parallel gripper with the PPU-P from SCHUNK, the quickest pneumatic pick & place unit on the market. Benefit from high-speed pick & place with 95 cycles per minute.

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

The electrically controlled 3/2 pneumatic ABV micro-valves are screwed onto the gripper. This hose-free, direct assembly minimizes the hosing requirements and reduces cycle times.
## 3–Finger Centric Grippers

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>MPZ</th>
<th>PZN-plus</th>
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<tbody>
<tr>
<td>Number of sizes</td>
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<tr>
<td>Gripping force [N]</td>
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<td>255 .. 59500</td>
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<tr>
<td>Stroke per jaw [mm]</td>
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<tr>
<td>Dead weight [kg]</td>
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<tr>
<td>Recommended workpiece weight [kg]</td>
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<td>Max. permissible finger length [mm]</td>
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<td>Repeat accuracy [mm]</td>
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<td>Sensor system</td>
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<td>+++</td>
</tr>
<tr>
<td>Comprehensive ranges</td>
<td>+</td>
<td>+++</td>
</tr>
</tbody>
</table>

**Description**

- Small 3–finger centric gripper with base jaws guided on T-slots
- Universal centric gripper with high gripping force and maximum moments due to multi-tooth guidance

### Field of application

- Universal use
- Especially suitable for gripping small workpieces
- Universal use due to numerous product variants; also in areas where there are special demands on the gripper (temperature, chemical durability, contamination, and much more)

### Ambient conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Clean</th>
<th>Contaminated/coarse dust</th>
<th>Contaminated/fine dust and liquids</th>
<th>Contaminated/aggressive liquids</th>
<th>High temperature range &gt; 90 °C</th>
<th>Cleanroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
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<tr>
<td>Contaminated/fine dust and liquids</td>
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<td>Contaminated/aggressive liquids</td>
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<tr>
<td>Cleanroom</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>○</td>
</tr>
</tbody>
</table>

- ● = Highly suitable
- ○ = Suitable in special design (on request)
- ○ = Suitable to a limited extent
### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>J6Z</th>
<th>PZH-plus</th>
<th>PZB-plus</th>
<th>DPZ-plus</th>
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<td>340 .. 27600</td>
<td>230 .. 17150</td>
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<td>0.26 .. 53</td>
<td>0.2 .. 20.1</td>
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<td>1.7 .. 100</td>
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<td>0.25 .. 1.05/0.2 .. 0.85</td>
<td>0.02 .. 2.5/0.02 .. 2.5</td>
<td>0.03 .. 1.8/0.03 .. 1.8</td>
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<tr>
<td>0.01 .. 0.02</td>
<td>0.02 .. 0.05</td>
<td>0.01 .. 0.05</td>
<td>0.01 .. 0.05</td>
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<tr>
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</tr>
<tr>
<td>++</td>
<td>+</td>
<td>++</td>
<td>+</td>
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<tr>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td></td>
</tr>
</tbody>
</table>

- **Universal 3-finger centric gripper of the compact class with T-slot guidance and best cost-performance ratio**
- **Universal centric gripper with high gripping force and maximum moments due to multi-tooth guidance**
- **Universal 3-finger centric gripper with large gripping force and high maximum moments per finger, plus center bore**

- **Optimal standard solution for many fields of application**
- **Universal use**
- **In the areas of machine and plant construction, assembly and handling as well as the automotive industry**

- **Universal use due to numerous product variants; also in areas where there are special demands on the gripper (temperature, chemical durability, contamination, and much more)**
- **Universal use**
- **Suitable for applications that require a center bore, e.g. for workpiece feed, special sensor systems or optical recognition systems**

- **Ideally suitable for handling of rough or dirty workpieces**
- **Its field of application extends from the loading and unloading of machines, such as in the case of sanitary blocks, grinding machines, lathes or milling machines, to handling tasks in painting plants, in powder-processing or underwater**
### 3-Finger Centric Grippers

**Pneumatic**

<table>
<thead>
<tr>
<th>Multi-finger Centric Grippers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PZH-SF-mini</strong></td>
</tr>
<tr>
<td>![Image](62x637 to 112x710)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>PZH-SF-mini</th>
<th>PZH-SF</th>
<th>PZV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>20</td>
<td>0.5 .. 10</td>
<td></td>
</tr>
<tr>
<td>9.8</td>
<td>8</td>
<td>2.8 .. 34.5</td>
<td></td>
</tr>
<tr>
<td>0.5/0.5</td>
<td>0.5/0.5</td>
<td>0.02 .. 0.15/0.02 .. 0.15</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>140</td>
<td>64 .. 140</td>
<td></td>
</tr>
<tr>
<td>0.05</td>
<td></td>
<td>0.01 .. 0.02</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>40</td>
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</tr>
<tr>
<td>+</td>
<td>+</td>
<td>+++</td>
<td></td>
</tr>
<tr>
<td>+</td>
<td>+</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Universal 3-finger centric gripper with a large, rotary finger stroke capable of handling a broad range of workpiece sizes and a round guidance which is protected against dirt</td>
<td>Universal 3-finger centric gripper with a large, rotary finger stroke capable of handling a broad range of workpiece sizes and a round guidance which is protected against dirt</td>
<td>The multi-finger gripper for applications in which two or three fingers are insufficient</td>
<td></td>
</tr>
</tbody>
</table>

- For a large stroke for a large workpiece size range or for gripping in an undercut section
- Optimal for rotationally symmetric parts
- Especially suited to handling motor vehicle wheel rims
- 6-finger centric grippers have advantages over the usual centric grippers, for example when cylindrical workpieces are being magazined in tablets
- The PZV handles the workpieces in a controlled, process reliable manner despite the interfering contours
**SCHUNK MPZ Miniature Gripper**

**Powerful handling of small parts**

The powerful 3-finger miniature centric gripper can be used in small part handling systems, e.g. for handling and mounting products such as needles, microprocessors or small electric components. A characteristic feature of the MPZ is the tried-and-tested, accurate T-slot guidance with hardened, ground steel base jaws, ensuring reliability and high performance. The gripping force maintenance device that can be integrated as an option is protected by very small springs during opening and closing. For example, this prevents loss of components should the pneumatic pressure drop suddenly.

**Your benefits:**

- T-slot guidance
- Wedge hook design for high force transmission and synchronized gripping
- Gripping force maintenance device optional

![SCHUNK MPZ Miniature Gripper Image](image)

**SCHUNK PZN–plus**

**Universal gripper for a very wide range of parts**

The PZN–plus is the first centric gripper with multi-tooth guidance for handling an extremely wide range of parts, from small parts handling through to heavy-duty applications. The universal virtuoso with 11 sizes guarantees precise gripping of centric workpieces with a workpiece weight of up to 190 kg. The PZN–plus is available with ATEX certification as a premium product specifically for potentially explosive atmospheres.

**Your benefits:**

- Robust multi-tooth guidance for maximum process reliability
- Significantly greater payload allows for use of longer gripper fingers
- Slender, compact dimensions for minimum interfering contours in handling
- Screw connection for flexible pressure supply in all automation systems
- Extensive sensor accessories for monitoring the stroke position

![SCHUNK PZN–plus Image](image)

**www.schunk.com/MPZ/en**

**www.schunk.com/PZN-plus/en**
## Angular Gripper

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>SGB</th>
<th>SWG</th>
<th>PWG-plus</th>
<th>PRG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of sizes</td>
<td>3</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Gripping moment [Nm]</td>
<td>0.9 .. 4.95</td>
<td>0.01 .. 2.8</td>
<td>3.3 .. 1025</td>
<td>2 .. 295</td>
</tr>
<tr>
<td>Opening angle per jaw [°]</td>
<td>8</td>
<td>15</td>
<td>15</td>
<td>30 .. 90</td>
</tr>
<tr>
<td>Dead weight [kg]</td>
<td>0.04 .. 0.06</td>
<td>0.0025 .. 0.213</td>
<td>0.13 .. 11.3</td>
<td>0.13 .. 6.72</td>
</tr>
<tr>
<td>Recommended workpiece weight [kg]</td>
<td>0.2 .. 0.8</td>
<td>0.007 .. 0.46</td>
<td>0.4 .. 11.57</td>
<td>0.3 .. 6.96</td>
</tr>
<tr>
<td>Closing/opening time [s]</td>
<td>0.06 .. 0.08/0.04 .. 0.05</td>
<td>0.015 .. 0.03/0.02 .. 0.06</td>
<td>0.06 .. 0.32/0.01 .. 0.46</td>
<td>0.06 .. 0.75/0.06 .. 0.92</td>
</tr>
<tr>
<td>Max. permissible finger length [mm]</td>
<td>32 .. 50</td>
<td>10 .. 42</td>
<td>64 .. 300</td>
<td>40 .. 240</td>
</tr>
<tr>
<td>Repeat accuracy [mm]</td>
<td>0.1</td>
<td>0.05</td>
<td>0.02</td>
<td>0.05 .. 0.1</td>
</tr>
<tr>
<td>Protection class IP</td>
<td>20</td>
<td>30</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Cleanroom class ISO 14644-1</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Sensor system</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Comprehensive ranges</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Description</td>
<td>Small, simple pressurized plastic angular gripper with spring return</td>
<td>Narrow double-acting 2-finger angular gripper</td>
<td>Robust 2-finger angular gripper with oval piston and bone drive</td>
<td>180°-radial gripper with powerful 1-shift slotted link gear and oval piston</td>
</tr>
</tbody>
</table>

### Field of application

- **Universal use**
- **With special requirements on corrosion resistance and anti-static properties of the gripping unit**
- **Universal use**
- **Suitable for applications which require a stacked, space-optimized gripper arrangement**
- **Universal use**
- **For areas of application which, in addition to a large gripping force, require the shortest possible motion sequences through the radial design of the jaw stroke**

### Ambient conditions

- **Clean**
- **Contaminated/coarse dust**
- **Contaminated/fine dust and liquids**
- **Contaminated/aggressive liquids**
- **High temperature range > 90 °C**
- **Cleanroom**

- = Highly suitable  
- = Suitable in special design (on request)  
- = Suitable to a limited extent
Angular Gripper
Pneumatic

### 3–Finger Angular Grippers

<table>
<thead>
<tr>
<th>DRG</th>
<th>GAP</th>
<th>SGW</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>8.2 .. 143</td>
<td>56 .. 430*</td>
<td>1.35 .. 7.45</td>
</tr>
<tr>
<td>10 .. 90</td>
<td>30 .. 90</td>
<td>8</td>
</tr>
<tr>
<td>0.5 .. 4.46</td>
<td>0.3 .. 1.33</td>
<td>0.05 .. 0.17</td>
</tr>
<tr>
<td>0.9 .. 7.2</td>
<td>0.46 .. 1.25</td>
<td>0.3 .. 1.3</td>
</tr>
<tr>
<td>0.4 .. 0.3/0.5 .. 0.6</td>
<td>0.09 .. 0.35/0.09 .. 0.35</td>
<td>0.02 .. 0.02/0.03 .. 0.03</td>
</tr>
<tr>
<td>50 .. 125</td>
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<td>32 .. 50</td>
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<tr>
<td>0.1</td>
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<td>0.1</td>
</tr>
<tr>
<td>67</td>
<td>40</td>
<td>20</td>
</tr>
</tbody>
</table>

• For applications requiring a large opening range
• Specially suitable for use in dirty environments
• Gripping and moving for small to medium workpieces

Sealed 180° angular gripper for use in dirty environments
2–finger angular parallel gripper for external clamping with gripper finger actuation of up to 90 degrees per jaw
Small, simple pressurized plastic angular gripper with spring return

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The GAP is an angular parallel gripper, which means the values must be understood as forces [N].

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**SCHUNK PWG–plus**

**Compact powerhouse**

The double oval piston drive, the one-piece, high-strength aluminum housing and the practically wear-free T–bar drive make the PWG–plus 2–finger angular gripper a compact and robust powerhouse. Depending on the application it can be equipped with or without mechanical gripping force maintenance. In addition, extensive accessories are available, including inductive sensors and magnetic switches.

**Your benefits:**

- **Workpiece weights between 0.5 kg and 7.3 kg**
- **Gripping moments** are **between 3.5 Nm and 143 Nm**
- **Stroke per finger 15°**
- **Overgrip angle per jaw at least 3°**
- **Maximum transfer of force** and **low wear** due to robust bone drive
- **High power density** due to oval pistons
- **Flexible design of workpiece supports** because of connection thread and centering possibilities
- For use in **clean and slightly polluted environment**

www.schunk.com/PWG/en
Control Concepts for SCHUNK Components

Standard mechatronic SCHUNK components offer the greatest flexibility when it comes to connecting customized control concepts. A number of designs are available, depending on your requirements:

* Direct pneumatic replacement and actuation
* Modular SCHUNK components with external drive and external drive controller
* Modular SCHUNK components with integrated drive and external drive controller
* Modular SCHUNK components with integrated drive and drive controller

<table>
<thead>
<tr>
<th>Customer controller</th>
<th>Optionally available from SCHUNK:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Communication interface**</td>
</tr>
<tr>
<td></td>
<td>Drive controller</td>
</tr>
<tr>
<td></td>
<td>Standard cable set</td>
</tr>
<tr>
<td></td>
<td>Transducer interface*</td>
</tr>
<tr>
<td>D I/O</td>
<td>Profibus</td>
</tr>
<tr>
<td></td>
<td>CAN</td>
</tr>
<tr>
<td></td>
<td>ProfiNet</td>
</tr>
<tr>
<td></td>
<td>Ether CAT</td>
</tr>
<tr>
<td></td>
<td>DeviceNet</td>
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<tr>
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<td>SIEMENS</td>
</tr>
<tr>
<td></td>
<td>Rexroth</td>
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<tr>
<td></td>
<td>BECKHOFF</td>
</tr>
<tr>
<td></td>
<td>B&amp;R</td>
</tr>
<tr>
<td></td>
<td>Schneider Electric</td>
</tr>
<tr>
<td></td>
<td>Lenze</td>
</tr>
<tr>
<td></td>
<td>More on request</td>
</tr>
<tr>
<td>SCHUNK</td>
<td>Power cable</td>
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<td>Sensor cable</td>
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<td>SSI</td>
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<td>BECKHOFF</td>
<td>DRIVE-CLIQ</td>
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<tr>
<td>B&amp;R</td>
<td>EnDat 2.2</td>
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<tr>
<td>Schneider Electric</td>
<td>HIPERFACE</td>
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<tr>
<td>Lenze</td>
<td>SSI</td>
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<tr>
<td></td>
<td>DRIVE-CLIQ (on request)</td>
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<tr>
<td></td>
<td>1Vss</td>
</tr>
<tr>
<td>More on request</td>
<td></td>
</tr>
</tbody>
</table>

The controller serves as the interface with the application and is specified by the customer.

- SIEMENS
- Rexroth
- BECKHOFF
- B&R
- Schneider Electric
- Lenze

More on request

* Dependent on drive  ** Dependent on drive controller
Matching cables also optionally available. A variety of transducer and fieldbus interfaces make the concepts compatible with any controller.

Control Concepts for SCHUNK Components

Mechatronic SCHUNK Components

- **Direct** pneumatic replacement and actuation
- **Alternative** like-for-like pneumatic replacements and actuation on request
- **Adaptable** driven by conventional motors
- **Intelligent** motor and controller fully integrated

**Drive**

- **Standard** servomotors
- **Modular** SCHUNK components with **external** drive and **external** drive controller
- **Modular** SCHUNK components with **integrated** drive and **external** drive controller

**Mechatronic SCHUNK Components**

- **HIPERFACE**
- **SSI**
- **DRIVE-CliQ**
- **EnDat 2.2**

**Transducer interface**

- **Mechatronic SCHUNK Components**
- **Drive**

**Customized Grippers**

- **Special Grippers**
- **Sensor Systems / Accessories**
- **Mechatronik Grippers**
- **Pneum. Angular Grippers**
- **Pneum. 3-Finger Grippers**
- **Pneum. 2-Finger Grippers**
The NEW SCHUNK Gripper PGN-plus-Electric.

The first easy electric gripper with proven multi-tooth guidance.
With permanent lubrication in the multi-tooth guidance, digital control and 24 V drive.

The NEW electric SCHUNK gripper PGN-plus-Electric applies the proven high-performance features of the NEW PGN-plus pneumatic gripper in the area of mechatronic handling. The first simple electric gripper with multi-tooth guidance, digital control, and 24 V drive makes the switch from pneumatic to electric components especially easy. Its digital control via binary signals simplifies commissioning and enables quick integration into existing systems.

Your benefits:
- **Up to 50% longer gripper fingers**
  due to higher maximum moments
- **Easy gripping force adjustment**
  The gripping force can be adjusted quickly, safely and manually in four stages.
- **Longest life span** due to lubricant pickets in the robust multi-tooth guidance
- **Maximum process safety** due to lower surface pressure
- **Integrated sensor system**

Up to 50% longer gripper fingers
The improved multi-tooth guidance allows the use of even longer gripper fingers due to higher maximum moments while retaining the same gripper size, without overloading the guidances.

Easy gripping force adjustment
The gripping force of the NEW SCHUNK PGN-plus-Electric can be adjusted quickly, safely, and manually in four stages.

Longest life span due to lubrication pockets in the durable multi-tooth guidance
Lubricant pocket through-holes ensure a permanent supply of lubricant. At the same time, they ensure a quick and even formation of a lubricant film, also in the case of short strokes.

Maximum process safety
Multi-tooth guidance allows a larger wedge hook surface and therefore lower surface pressure for low-wear transmission of forces to the base jaw for a reliable process.

Integrated sensor system
The control and power electronics are fully integrated, which ensures that no additional space in the switch cabinet is required. The 24 V gripper is actuated via digital I/O inputs. M8 plug connectors query up to two gripper positions.
## SCHUNK Grippers

### 2-Finger Parallel Grippers

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Adaptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGP</td>
<td>The NEW PGM-plus-Electric</td>
</tr>
<tr>
<td>ECG</td>
<td>LEG</td>
</tr>
<tr>
<td>EGA</td>
<td>EGA</td>
</tr>
</tbody>
</table>

The fastest electric gripper for small components on the market

The multitalent in packaging handling

Compact long-stroke gripper

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>Alternative</th>
<th>Adaptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of sizes</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Gripping force [N]</td>
<td>20 .. 215</td>
<td>110 .. 570</td>
</tr>
<tr>
<td>Strokejaw [mm]</td>
<td>3 .. 8</td>
<td>8</td>
</tr>
<tr>
<td>Closing time/stroke [s]</td>
<td>0.09 .. 0.21</td>
<td>0.26</td>
</tr>
<tr>
<td>Max. workpiece weight [kg]</td>
<td>0.035 .. 1.05</td>
<td>3</td>
</tr>
<tr>
<td>Weight</td>
<td>0.11 .. 0.51</td>
<td>1.01</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>24 DC</td>
<td>24 DC</td>
</tr>
<tr>
<td>Current [A]</td>
<td>0.14 .. 0.3</td>
<td>0.6</td>
</tr>
<tr>
<td>Protection class IP</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>Guidance type</td>
<td>Junction rollers</td>
<td>Multi-tooth guidance</td>
</tr>
<tr>
<td>Measuring system type</td>
<td>Motor-dependent</td>
<td>Motor-dependent</td>
</tr>
<tr>
<td>Description</td>
<td>Electric 2-finger parallel gripper with smooth-running roller bearing guide in the base jaw</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electric 2-finger parallel gripper with integrated motor and electronics as well as the proven multi-tooth guidance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Light long-stroke gripper for flexible and highly dynamic handling of different components</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electric 2-finger parallel gripper with adaptable servomotor</td>
<td></td>
</tr>
</tbody>
</table>

### Motor & Controller

<table>
<thead>
<tr>
<th></th>
<th>Alternative</th>
<th>Adaptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>Integrated</td>
<td>Integrated</td>
</tr>
<tr>
<td>Controller</td>
<td>Integrated</td>
<td>External</td>
</tr>
<tr>
<td>Controller type</td>
<td>Motor-dependent</td>
<td>Motor-dependent</td>
</tr>
</tbody>
</table>

### Field of application

- **Gripping and moving**
  - For small to medium-sized workpieces with flexible force and high speed
  - In the areas of assembly, testing, laboratory, pharmacies
- **Optimal standard solution for many fields of application**
  - Universal use
- **For very flexible gripping of various geometries and types of components**
  - Due to the servo electric drives, the gripping position and the gripping force can be exactly determined
- **Gripping and moving**
  - For medium-sized workpieces with flexible force and high speed

### Ambient conditions

- **Clean**
- **Slightly dirty**
- **Extremely dirty**

- = Highly suitable
- = Suitable in special design (on request)
- = Suitable to a limited extent

25
<table>
<thead>
<tr>
<th>MEG</th>
<th>PG</th>
<th>EGL</th>
<th>WSG</th>
<th>PEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image](44x603 to 84x695)</td>
<td>![Image](236x602 to 292x703)</td>
<td>![Image](324x602 to 408x691)</td>
<td>![Image](430x606 to 509x691)</td>
<td><img src="304x400" alt="Image" /></td>
</tr>
<tr>
<td>With gripping force control</td>
<td>Powerhouse for handling and assembly</td>
<td>Control via Ethernet TCP/IP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>40 .. 140</td>
<td>30 .. 200</td>
<td>600</td>
<td>5 .. 80</td>
<td>150 .. 1800</td>
</tr>
<tr>
<td>6 .. 10</td>
<td>34</td>
<td>49</td>
<td>32 .. 105</td>
<td>60 .. 100</td>
</tr>
<tr>
<td>0.3 .. 0.62</td>
<td>1.1</td>
<td>0.5 .. 1.0</td>
<td>1 .. 1.5</td>
<td></td>
</tr>
<tr>
<td>0.3 .. 0.85</td>
<td>1</td>
<td>0.4 .. 0.5</td>
<td>3.75 .. 9</td>
<td></td>
</tr>
<tr>
<td>0.47 .. 1.42</td>
<td>1.4</td>
<td>1.8</td>
<td>0.32 .. 1.2</td>
<td>5.4 .. 16.8</td>
</tr>
<tr>
<td>24 DC</td>
<td>24 DC</td>
<td>24 DC</td>
<td>24 DC</td>
<td>24 DC</td>
</tr>
<tr>
<td>0.6 .. 1.3</td>
<td>1.4</td>
<td>0.3</td>
<td>2.4 .. 10</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>20</td>
<td>30 (gripper), 67 (electronics)</td>
<td>40</td>
<td>41</td>
</tr>
<tr>
<td>Junction rollers</td>
<td>Profiled rail</td>
<td>Profiled rail</td>
<td>Profiled rail</td>
<td>Profiled rail</td>
</tr>
<tr>
<td>Incremental</td>
<td>Incremental</td>
<td>Incremental</td>
<td>Incremental</td>
<td></td>
</tr>
<tr>
<td>Electric 2-finger parallel gripper with smooth-running roller bearing guide in the base jaw</td>
<td>Servo-electric 2-finger parallel gripper with highly precise gripping force control and long stroke</td>
<td>Servo-electric 2-finger parallel gripper with highly precise gripping force control and long stroke</td>
<td>Servo-electric 2-finger parallel gripper with large jaw stroke for large parts and/or diverse parts spectrum</td>
<td></td>
</tr>
<tr>
<td>Integrated</td>
<td>Integrated</td>
<td>Integrated</td>
<td>Integrated</td>
<td>Integrated</td>
</tr>
<tr>
<td>External</td>
<td>Integrated</td>
<td>Integrated</td>
<td>Integrated</td>
<td></td>
</tr>
<tr>
<td>MEG-C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gripping and moving</td>
<td>Universally applicable, for small to medium-sized workpieces with flexible force, stroke or speed</td>
<td>Universally applicable, highly flexible gripper</td>
<td>For a wide range of parts and sensitive components</td>
<td>Universally applicable, highly flexible gripper</td>
</tr>
<tr>
<td>• For small to medium-sized workpieces with flexible force, stroke or speed</td>
<td>• Universally applicable, highly flexible gripper</td>
<td>• For a wide range of parts and sensitive components</td>
<td>• Universally applicable, highly flexible gripper</td>
<td>• With a wide variety of parts</td>
</tr>
<tr>
<td>• Universally applicable, highly flexible gripper</td>
<td>• For a wide range of parts and sensitive components</td>
<td>• Universally applicable, highly flexible gripper</td>
<td>• For a wide range of parts and sensitive components</td>
<td>• Universally applicable, highly flexible gripper</td>
</tr>
<tr>
<td>• Universally applicable, highly flexible gripper</td>
<td>• For a wide range of parts and sensitive components</td>
<td>• Universally applicable, highly flexible gripper</td>
<td>• For a wide range of parts and sensitive components</td>
<td>• Universally applicable, highly flexible gripper</td>
</tr>
<tr>
<td>3-Finger Centric Grippers</td>
<td>Electro Magnetic Grippers</td>
<td>Gripping Swivel Unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------------------------</td>
<td>----------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGN</td>
<td>EZN</td>
<td>EGM-M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGM-B</td>
<td>EGS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical Data

- **Measuring system type**
- **Guidance type**
- **Protection class IP**
- **Closing time/stroke [s]**
- **Stroke/jaw [mm]**
- **Gripping force [N]**
- **Number of sizes**

### Description

- **Extremely dirty**
- The base jaw
- **Ambient conditions**
- **Field of application**
- **Controller**
- **Motor**
- **Motor & Controller**

### Example

- **The SCHUNK multi-tooth guidance**
- The SCHUNK multi-tooth guidance
- **Resolver**
- Resolver
- **Servo-electric 2-finger parallel gripper with high gripping force and moment loads due to the multi-tooth guidance**
- Servo-electric 3-finger centric gripper with high gripping force and high maximum moment due to multi-tooth guidance
- **Electric permanent magnet gripper for energy-efficient handling of ferromagnetic workpieces**
- **Electric permanent magnet gripper for energy-efficient handling of ferromagnetic workpieces**
- **Electric 2-finger parallel rotary gripping module with smooth-running roller bearing guide in the base jaw**

### Special Grippers

- **Optimal standard solution for many fields of application**
- Flexible use due to controllable gripping force, position and speed

### Customized Grippers

- Gipping and moving
- For small to medium-sized workpieces with flexible force and high speed
- In the areas of assembly, testing, laboratory, pharmacies

### Images

-
-
SCHUNK Gripper Accessories

PGN-plus

SCHUNK Grippers
Our Response to Flexibility: Variety in Accessories.

The SCHUNK gripper program, for example with multi-tooth guidance and a uniform screw connection pattern all round the PGN-plus, features a large number of variants and a superior range of accessories offering everything needed for flexible use in your specific automation application. For each kind of application and handling requirement – including under extreme conditions.
## SCHUNK Gripper Accessories

### Sensor Systems

<table>
<thead>
<tr>
<th>Monitor Position</th>
<th>MMS 22</th>
<th>MMS-PI 1/2</th>
<th>IN</th>
<th>RMS</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
</tbody>
</table>

### Switching behavior

- **1 digital point**
  - ![Image](image6.png)
- **2 digital point**
  - ![Image](image7.png)
- **5 digital point**
  - ![Image](image8.png)
- **Analog**

### Ambient conditions

- **Clean**
  - ![Image](image9.png)
- **Slightly dirty**
  - ![Image](image10.png)
- **Extremely dirty**
  - ![Image](image11.png)

### Technical data

- **Number of sizes**
  - 1
  - 1
  - 6
  - 2
- **Operating principle**
  - Magnetic
  - Magnetic
  - Inductive
  - Reed
- **IP protection max.**
  - 67
  - 67
  - 67
  - 67
- **Supply voltage [V DC]**
  - 24
  - 24
  - 24
  - 24
- **Supply current [mA]**
  - < 50
  - < 50
  - < 200
  - < 10
- **PNP version**
  - ![Image](image12.png)
  - ![Image](image13.png)
  - ![Image](image14.png)
- **NPN version**
  - ![Image](image15.png)
  - ![Image](image16.png)
  - ![Image](image17.png)
- **LED display**
  - ![Image](image18.png)
  - ![Image](image19.png)
  - ![Image](image20.png)
- **Measurement switching distance [mm]**
  - Not adjustable
  - Not adjustable
  - 0.8 .. 2.5
  - Not adjustable
- **Closer**
  - ![Image](image21.png)
  - ![Image](image22.png)
  - ![Image](image23.png)
- **Opener**
  - ![Image](image24.png)

### Connection type

- **Number of wires**
  - 3/4/4
  - 3/4
  - 3
  - 3
- **Cable version**
  - ![Image](image25.png)
  - ![Image](image26.png)
  - ![Image](image27.png)
- **Connection plug M8 version**
  - ![Image](image28.png)
  - ![Image](image29.png)
  - ![Image](image30.png)
- **Connection plug M12 version**
  - ![Image](image31.png)

- Highly suitable
- Suitable in special design (on request)
- Suitable to a limited extent

### IN Inductive Proximity Switch

**Reliable. Contactless. Easy assembly.**

Inductive proximity switches are used to scan the current status of automation components. SCHUNK supplies them in two versions: IN (sensor with 30 cm molded cable and cable connector) and INK (sensor with 2 m supply cable and wire strands for connecting).

**Your benefits:**

- **Bracket mounting** for easy and fast attachment
- **Version with LED display** for checking the switching condition directly at the sensor
- **Version with plug connector** for fast and easy extension cable replacement
- **Highly flexible PUR cable** for a long service life and resistance against many chemicals
- **Proximity switch can be installed flush** to reduce interfering contours in the application
### Switching behavior

<table>
<thead>
<tr>
<th>Switching Behavior</th>
<th>Digital Point</th>
<th>Analog</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>2</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>5</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Ambient conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Slightly dirty</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Extremely dirty</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>FPS</th>
<th>APS-M1</th>
<th>APS-Z80</th>
<th>MMS-A</th>
<th>OAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of sizes</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Operating principle</td>
<td>Magnetic</td>
<td>Magnetic</td>
<td>Inductive</td>
<td>Magnetic</td>
<td>Visual</td>
</tr>
<tr>
<td>Supply voltage [V DC]</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Supply current [mA]</td>
<td>&lt; 50</td>
<td>&lt; 50</td>
<td>&lt; 200</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>PNP version</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>NPN version</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Measurement switching distance [mm]</td>
<td>Not adjustable</td>
<td>Not adjustable</td>
<td>0.5 .. 2</td>
<td>Not adjustable</td>
<td>10 .. 200</td>
</tr>
<tr>
<td>Closer</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Opener</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Connection type</td>
<td>3/4 4</td>
<td>3/4</td>
<td>3</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Cable version</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Connection plug</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>M8 version</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>M12 version</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### FMS Force Measuring System

The SCHUNK FMS force measuring system is used for measuring forces acting in the direction of the jaw movements on the base jaw. The FMS intermediate jaws are screwed on between the gripper base jaw and the top jaw, which comes in contact with the workpiece. Gripping forces on the top jaw result in a flow of force through the FMS intermediate jaw. Intelligently arranged strain gauges inside the intermediate jaw react to the resulting deformation. The FMS processor detects the change in the strain gauges and emits an analog signal indicating the force.

### Your benefits:

- **Easy handling** via a control line that is directly connected to a PLC
- **It is easy to measure** the gripping force that is actually acting
- **Result output via analog voltage value**
- **Simple linear relationship** between output voltage and gripping force
- **Simple zero adjustment** with button or via control line
- **Integrated LC display** for visual monitoring
- **Easy assembly**
- **Dirt and water-tight** for applications even under extreme ambient conditions
## SCHUNK Grippers

### Accessories

<table>
<thead>
<tr>
<th></th>
<th>ABR/SBR</th>
<th>BSWS-B/-A</th>
<th>ABR/SBR-BSWS</th>
<th>BSWS-AR/-UR</th>
<th>UZB</th>
<th>SDV-P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Jaw quick-change system</strong></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>Adjustable intermediate jaw</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Top jaws blank</strong></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td><strong>Pressure maintenance valve</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td><strong>Field of application</strong></td>
<td>For quick and easy creation of top jaws by adding the clamping contour</td>
<td>With highly diverse workpieces for quick jaw changes with any clamping contours</td>
<td>With highly diverse workpieces for quick jaw changes with simple clamping contours</td>
<td>With highly diverse workpieces that can be covered by increasing the clamping width</td>
<td>For applications in which the force or position must be maintained temporarily</td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Finger blanks made of aluminum or steel for rework for the specific application</td>
<td>The BSWS consists of one base and two adapter pins. The form-fit locking mechanics assures a fast exchange of the gripper fingers</td>
<td>The BSWS consists of two adapter pins and one finger blank with locking mechanism. The form-fit locking mechanics assures a fast exchange of the gripper fingers</td>
<td>The BSWS consists of two adapter pins and the locking mechanism located in the customer-specific finger. The form-fit locking mechanics assures a fast exchange of the gripper fingers</td>
<td>Allows fast tool-free and reliable plugging and shifting of top jaws</td>
<td>With a loss of air pressure, venting of the module will be prevented temporarily by the pressure maintenance valve.</td>
</tr>
</tbody>
</table>
| **Advantages** | • Matching finger blanks for commonly used gripper types  
• Clamping contour can be machined rapidly and easily | • One gripper can be used universally in various applications  
• Quick and easy for high flexibility  
• Firm up to the max. loadability of the base jaws | • One gripper can be used universally in various applications  
• Quick and easy for high flexibility  
• Firm up to the max. loadability of the base jaws | • One gripper can be used universally in various applications  
• Quick and easy for high flexibility  
• Firm up to the max. loadability of the base jaws | • Toolless adjustment and clamping for quick and easy conversion | • Versatile in its application, since it has standard air connections  
• Manual air bleed screw means no removal of pressurized hoses |
Benefit from the SCHUNK Modular System with over 4,000 standard Components.

More than 30 years of expertise in gripping forms the basis for the largest standardized range of gripping technology in the world with more than 4,000 components, a modular system with perfectly matching standard components on linear modules, turning and rotary actuators and robot accessories.

**CWS Compact Change System**

SCHUNK’s flat and weight-reduced CWS manual change system ensures the fast manual change of grippers at the robot when re-equipping for a new range of parts. A noticeable increase in productivity can thus be achieved in particular for small and medium batch sizes.

- Simple tool change on the robot due to simple working principle
- Full compatibility due to integrated ISO robot flange
- Screw connection diagram for the main SCHUNK gripping and compensation modules
- Direct assembly of the gripping modules onto the change system without adapter plate

**TCU Compensation Unit**

SCHUNK presents the TCU, a compensation unit with baseplates connected together by elastomer elements. As a result, the TCU can compensate in the X and Y directions, allowing it to correct angle errors and provide rotational compensation.

- Suitable for gripper types PGN-plus, PZN-plus, DPG-plus and DPZ-plus
- The compensation travel distances in $XY$ direction are 2 to 4 mm, depending on the size
- Compensation angles are between 1.5 and 3.5°
- Maximum handling weights between 1 and 24 kg, depending on gripper size

**SRU-plus Universal Rotary Actuator**

Universal pneumatic unit for rotary and turning movements in both clean and dirty areas.

- Graduated series with a steady increase in torque
- Swivel angle can be selected as either 90° or 180°
- Choice of end position adjustability: $+3°/-3°$ (small) or $+3°/-90°$ (large)
- Middle position can be pneumatic or locked
- Fluid feed-through suitable for gases, liquids, and vacuum without troublesome hoses
- Electric rotary feed-through for continuous fail-safe feed-through of sensor and actuator signals, optionally with bus feed-through
- Electronic magnetic switches or inductive proximity sensors for absolute variability in position sensing

**CLM Linear Module**

Compact linear modules with reduced length and high power density in relation to size. The mini-slides are ideal for use in constrained installation spaces – shock absorbers and proximity switches are integrated into the projection surface and eliminate any interference contours.

- 6 sizes with a total of 22 stroke variants
- 95% available from stock
- More than 20 years of experience with junction roller guides
- 90% of the applications can be implemented in assembly automation
- 0% additional interference contour due to shock absorbers or sensors
### SCHUNK Gripper Accessories

#### PGN-plus

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1 | **Universal Gripper PGN-plus**  
Universal 2-finger parallel gripper with large gripping force and high maximum moments due to multi-tooth guidance |
| 2 | **Inductive proximity switch IN ...**  
Inductive proximity switch with integrated cable and axial cable outlet |
| 3 | **Flexible position sensor FPS**  
Digital measuring system for monitoring up to 5 different, freely selectable positions |
| 4 | **Analog position sensor APS-Z80**  
Inductive measuring system for precise monitoring of the gripper jaw position with analog output |
| 5 | **Analog position sensor APS-M1S**  
Mechanical measuring system for precise monitoring of the gripper jaw position with analog output |
| 6 | **Reed switch RMS**  
Reed switch in round version |
| 7 | **Magnetic switch MMS 22**  
Magnetic switch with axial cable outlet for position monitoring |
| 8 | **Programmable magnetic switch MMS 22-P11**  
Magnetic switch with axial cable outlet for monitoring one freely programmable positions |
| 9 | **Programmable magnetic switch MMS 22-P12**  
Magnetic switch with axial cable outlet for monitoring two freely programmable positions |
| 10 | **Programmable magnetic switch MMS-P**  
Magnetic switch with axial cable outlet for monitoring two freely programmable positions with an integrated teaching function |
| 11 | **Reed switch RMS 22**  
Reed switch for direct assembly in the C-slot |
| 12 | **Compact slide CLM**  
Linear module with pneumatic drive and clearance-free pre-loaded junction rollers |
| 13 | **Optical distance and presence sensor OAS**  
Optical distance and presence sensor for detecting the presence of a workpiece as well as its distance |
| 14 | **Universal intermediate jaw UZB**  
The universal intermediate jaw allows fast, tool-free, reliable displacement of top jaws at the gripper |
| 15 | **Force-measuring jaws FMS**  
Force-measuring jaws for measuring gripping forces, workpiece weights or deviations in dimension |
| 16 | **Jaw quick-change system BSWS-AR**  
Adapter coupling of the jaw quick-change system for fast, manual change of top jaws |
| 17 | **Jaw quick-change system BSWS-B**  
Locking mechanism of the jaw quick-change system for fast, manual change of top jaws |
| 18 | **Jaw quick-change system BSWS-A**  
Adapter coupling of the jaw quick-change system for adaptation to the customized finger |
| 19 | **Customized finger** |
| 20 | **Finger blanks BSWS-ABR**  
Finger blank made of aluminum with interface of the jaw quick-change system |
| 21 | **Finger blanks BSWS-SBR**  
Finger blank made of steel with interface of the jaw quick-change system |
| 22 | **Jaw quick-change system BSWS-UR**  
Locking mechanism for integration of the jaw quick-change system into customized fingers |
| 23 | **Intermediate jaw ZBA**  
Intermediate jaws for re-orienting the mounting surface |
### Special Grippers

#### Pneumatic

<table>
<thead>
<tr>
<th>Perforation Grippers</th>
<th>0-Ring Grippers</th>
<th>Universal Gripper with Shank Interface GSW-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG</td>
<td>ORG</td>
<td>GSW-B</td>
</tr>
</tbody>
</table>

- **Description**
  - Light weight gripper made from a chemical resistant polyamide with a closed membrane system.
  - 6-finger gripper for internal and external assembly of 0-rings in a reliable process
  - Universal gripper with shank interface for toolholder

- **Field of application**
  - Particularly suitable for highly dynamic applications with light workpieces
  - For handling small parts and plastic parts, as well as sand core handling
  - For automated assembly of 0-rings
  - For fully automated loading and unloading of machining centers

- **Ambient conditions**

<table>
<thead>
<tr>
<th>Clean</th>
<th>Contaminated/coarse dust</th>
<th>Contaminated/fine dust and liquids</th>
<th>Contaminated/aggressive liquids</th>
<th>High temperature range &gt; 90 °C</th>
<th>Cleanroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

- **Comprehensive ranges**
  - +++
  - +
  - +

- **Variety of sensor systems**
  - +
  - +

- **Sensor Systems / Accessories**
  - SCHUNK PZN-plus
  - with Shank Interface GSW-B

The SCHUNK GWS gripper with shank interface loads and unloads machining centers fully automatically using the machine’s own axis. It is inserted in a toolholder like a tool and can be swapped out of the tool magazine, lightning fast and moved directly by the machine without requiring a robot or portal. The result: fully automatic workpiece change only with the help of the axis movements.
<table>
<thead>
<tr>
<th></th>
<th>Universal Gripper with Shank Interface (GSW-B with AGE)</th>
<th>Vacuum Gripper with Shank Interface (GSW-V)</th>
<th>Magnetic Gripper with Shank Interface (GSW-M)</th>
<th>Cleaning Device with Shank Interface (RGG)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Light weight gripper made from a chemical resistant polyamide with a closed membrane system.</td>
<td>6-finger gripper for internal and external assembly of O-rings in a reliable process.</td>
<td>Universal gripper with shank interface for toolholder.</td>
<td>Universal gripper with shank interface for toolholder and compensation unit.</td>
</tr>
<tr>
<td><strong>Universal gripper with shank interface for toolholder and compensation unit</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Field of application</strong></td>
<td>Particularly suitable for highly dynamic applications with light workpieces. For handling small parts and plastic parts, as well as sand core handling. For automated assembly of O-rings. For fully automated loading and unloading of machining centers. For fully automated loading and unloading of clamping devices such as vises.</td>
<td>For fully automated loading and unloading of flat workpieces.</td>
<td>For fully automated loading and unloading of ferromagnetic workpiece families.</td>
<td>For cleaning of clamping devices and for automating cleaning of machine tools.</td>
</tr>
<tr>
<td><strong>Ambient conditions</strong></td>
<td>Clean</td>
<td>Contaminated/coarse dust</td>
<td>Contaminated/fine dust and liquids</td>
<td>Contaminated/aggressive liquids</td>
</tr>
<tr>
<td><strong>Compatibility</strong></td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td><strong>Variety of sensor systems</strong></td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

**SCHUNK PGN–plus with GSW-B–AGE flexible compensating unit**

Excessive forces during automatic machine loading? The SCHUNK GSW-B–AGE compensating unit yields, compensates for tolerances and imprecisions in six degrees of freedom.

**Your benefits:**

- 30% more productivity due to automated machine loading
All inclusive!

Customized SCHUNK Gripping Systems.
Profit from our Experience.

SCHUNK has successfully implemented more than 12,000 solutions, a figure that speaks for itself.

Consistent and comprehensive project management is an important part of the SCHUNK philosophy. Our approach is systematic and tailored to your individual project – each step is traceable and documented.

At SCHUNK, our analysis of complex processes and holistic approach to our customers’ parts and products allows us to develop effective, customized gripping systems. Maximum precision is required in order to present automation processes visually – so we use the latest work technology, from 2D and 3D presentations to 3D simulation. Our components and configurations carry the decisive performance potential that can make your process chain more efficient. We unlock this potential and you benefit from every last drop.
It’ll pay off for you!
From standard Components to customized Gripping Systems.

1 personal contact for your single-source solution.

For smooth communications, a personal contact person is available to you from the start of the project until completion. Your contact person is the interface between you and the individuals involved in the project and ensures that information is exchanged smoothly. From planning to continued support after the conclusion of the project, SCHUNK ensures that your project will be handled cooperatively and efficiently.

Your Advantage
- Over 30 years of experience with gripping systems
- Over 12,000 gripping systems implemented for a wide range of industries
- The largest modular system in the world with perfectly coordinated standard components
- Compete accuracy of fit due to standardized interfaces
- Shorter project lead times due to standardized systems
- Reliable implementation processes and planning security without extra project costs
- Functional assemblies fitted on request or ready for use
- Time savings due to the perfect solution from a single source
SCHUNK Grippers.
Versatile for every Application.
For every task. For any industry.

SCHUNK customers benefit from our 30 years of experience in the industry and in delivering solutions, the most extensive range of grippers in the world, and from our wide-ranging experience in all kinds of handling tasks.

**Handling in loading of a machining center**

Metal-cutting industry

A pneumatic SCHUNK MGP–plus miniature parallel gripper takes the workpieces from a pneumatic SCHUNK PGN–plus 2–finger parallel gripper for further handling tasks in a machining center.

**Robot–guided joining and assembly of heavy and large workpieces**

**Automotive**

A SCHUNK gripping system consisting of an OPR collision and overload protection mechanism, a pneumatics SCHUNK SWS quick-change system and a pneumatic PGN–plus 2–finger parallel gripper grips the upper half of the motor block. The bottom half of the engine block is placed on a SCHUNK AGE–S–XYZ compensation unit.

**Removal of pistons**

**Foundry industry**

A SCHUNK PGN–plus universal gripper with OPR anti-collision sensor has been mounted on the robot arm in combination. Possible gripping points are calculated via image capture software and the PGN–plus removes the pistons.
Placing and assembling electronic components

Electrical industry
An electric SCHUNK EGP gripper for small parts is used in the electric assembly for high-speed positioning and turning of electronic components between different rotary indexing tables and pallets.

Singling out parts

Metal-cutting industry
Two electric SCHUNK LWA 4P lightweight arms perform the handling of components and transportation of goods. They are equipped with electric SCHUNK PG-plus 70 2-finger parallel grippers for gripping in the crate.

Mineral water boxes palletizing

Packaging industry
A robot with an electric SCHUNK LEG long-stroke gripper is used to place mineral water crates onto pallets. The SCHUNK LEG with its servo-electric modular drive concept is compatible with every robot control unit.
Customized SCHUNK Gripping Systems
Grippers with customized standard Components

Handling sand cores
Foundry industry
Task
Sand cores with different weights and interference contours need to be gripped in an optimized process.

SCHUNK solution
Using a SCHUNK SWS quick-change system in combination with sealed SCHUNK PSH 2-finger long-stroke grippers ensures a safe and precise hold. The SCHUNK gripper systems are designed for carrying loads up to 200 kg, depending on the application.

SCHUNK products
PGN-plus Universal Gripper
SWS Quick-change System

Connecting rod handling
Automotive industry
Task
To save costs using multiple handling of connecting rod parts during production.

SCHUNK solution
A custom-developed connecting rod gripper based on a SCHUNK PGN-plus pneumatic universal gripper with special gripper fingers is mounted on a SCHUNK ERM rotary module. Due to the rotary module with adaptable drive, this solution can use the same drive as the axis system. This creates a universal drive concept.

SCHUNK products
PGN-plus Universal Gripper
ERM Rotary Module
Automated handling

Automotive industry

Task
To move conrods using a transfer system.

SCHUNK solution
8 SCHUNK lifting/rotary and gripper units are mounted on a horizontal SCHUNK linear axis with 8 slides to move the workpieces on in a cycle.

SCHUNK products

<table>
<thead>
<tr>
<th>X-axis (horizontal) 2 x B140-ZSS</th>
<th>2-axis (vertical) 8 x SLE 32-125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toothed belt drive</td>
<td>Pneumatic lifting unit</td>
</tr>
<tr>
<td>Linear module</td>
<td>Linear module lifting unit</td>
</tr>
</tbody>
</table>

Loading and unloading a machining center

Metal-cutting industry

Task
A vertical machining center needs to be loaded with workpieces in a fully automated procedure.

SCHUNK solution
A robot with a SCHUNK SWS quick-change system loads SCHUNK TANDEM plus clamping force blocks outside of the machining center and exchanges these, fully equipped with a pneumatic SCHUNK 2-fold PGN–plus gripping unit, into the vertical machining center. The clamping devices are equipped almost in parallel, requiring the machine to stop only very briefly for the exchange of the clamping force blocks.

SCHUNK products

<table>
<thead>
<tr>
<th>SRU-plus</th>
<th>PZN-plus</th>
<th>PGN-plus</th>
<th>SWS</th>
<th>Tandem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary Actuator</td>
<td>Centric Gripper</td>
<td>Universal Gripper</td>
<td>Quick-change System</td>
<td>Clamping Force Block</td>
</tr>
</tbody>
</table>
SCHUNK Service

Competent and skilled personnel ensure optimal availability of your SCHUNK products, and make sure that their value will be maintained.

Your advantage:
- Fast supply of original spare parts
- Reduction of down-times
- The complete spectrum of components from one source
- Quality and availability that can only be guaranteed by the original manufacturer
- 12-month warranty

Initial operation
- Professional assembly
- Fast and trouble-free

Inspection
- Inspection is carried out by skilled service engineers
- Avoiding unplanned failures of workholding and toolholding equipment

Maintenance
- Regular maintenance carried out by skilled service engineers
- Increasing and ensuring the availability of your workholding and toolholding equipment

Repairs
- Short down-times due to fast intervention of the SCHUNK service engineers
- Spare parts and accessories
Training

- Fast and practical training
- Efficient use of your SCHUNK products by training of the operating personnel
- The basis for proper machining of workpieces
- Ensures longevity of your SCHUNK products

Individual service – for better results

- Hotline to our inside technical consultants weekdays from 7 a.m. to 6 p.m.
- Project-oriented and on-site technical advice at your location
- Training on innovations and SCHUNK products – across the world in our local subsidiaries

Online service – for a fast overview

All information in digital form, clearly structured and up-to-date on our website at www.schunk.com

- List of contact persons
- Online product search based on product descriptions
- Product news and trends
- Data sheets
- Order forms for easy and convenient ordering
- Free download area for pages from our product catalogs and technical data, for software and calculation programs for your gripping and rotary modules
- Free 2D/3D CAD design models, provided in a wide range of different CAD formats – for easy integration into your design!
Jens Lehmann, German goalkeeper legend,
SCHUNK brand ambassador since 2012
for safe, precise gripping and holding.

No. 1
for safe, precise gripping and holding.

852 minutes without a goal against him in the Champions League

681 minutes without a goal against him in the national team

2 intercepted penalties in the 2006 World Cup

1 headed goal as a goalie

0 defeats English Soccer Champion

More than 2,000,000 sold precision toolholders

About 1,000,000 delivered SCHUNK grippers

More than 100,000 lathe chucks and stationary workholding systems are in use worldwide

More than 16,000,000 sold standard chuck jaws

More than 75,000 implemented hydraulic expansion customer-specific solutions

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www.facebook.com/SCHUNK.HQ

Jens Lehmann, German goalkeeper legend,
SCHUNK brand ambassador since 2012
for safe, precise gripping and holding.
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