Your benefit of being a SCHUNK customer.

With continuing new campaigns, benefits packages, and exclusive offers, we are offering very lucrative advantages to our customers.

Contact your SCHUNK consultant or our Customer Center for more information.

Tel. +49-7133-103-3888
customercenter@de.schunk.com

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

No. 1
SCHUNK GmbH & Co. KG
Spann- und Greiftechnik
Bahnhofstr. 106 - 134
D-74348 Lauffen/Neckar
Tel. +49-7133-103-0
Fax +49-7133-103-2399
info@de.schunk.com

Digital Services

SCHUNK components and services play a decisive role when production processes go digital. Whether it is about the online shop for additively manufactured gripper fingers, Digital Twin or digital services through networked components. We are “closest to the part”.

Equipped by SCHUNK

Unique component selection for equipping your robots and machines with gripping systems and clamping technology. This means for you: 11,000 standard components. Everything from one source.

30 New products
The highlights of SCHUNK gripping systems and clamping technology: Among other topics, the new SCHUNK Gripper JL1 for human/robot collaboration, and the premium quick-change pallet module VERO-S NSE3 for manual or automatic machine loading.

SCHUNK
New Products and Innovations
Your SCHUNK

30 New products
The highlights of SCHUNK gripping systems and clamping technology:
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Tel. +49-7133-103-3888
customercenter@de.schunk.com

Smart Factory

In touch with big data. Intelligent and connectable SCHUNK components already form the interface for communication between workpiece and machine for smart factories in terms of Industry 4.0.

Digital Services

SCHUNK components and services play a decisive role when production processes go digital. Whether it is about the online shop for additively manufactured gripper fingers, Digital Twin or digital services through networked components. We are “closest to the part”.

Equipped by Schunk Clamping Technology

- Lathe Chuck
- Lathe Chuck
- Power Lathe Chuck
- Power Lathe Chuck
- Quick-change Pallet Module
- Quick-change Pallet System
- Stationary Workholding
- Stationary Workholding
- Stationary Workholding
- Stationary Workholding
- Stationary Workholding
- Stationary Workholding
- Base Plate
- 5-Axis Clamping Vise
- Double Clamping Vise

Schunk - Your Personal Voucher
The world's first Hydraulic Expansion Toolholder with Standardized Heat Shrinking Contour.

The ultimate for axial machining
Drilling, countersinking, reaming, and threading in a 5-axis center and in the die and mold making industry.

Plug & Work
1 : 1 interchangeable. Insert a hydraulic expansion toolholder - replace a heat shrinking toolholder.

Excellent vibration damping
The hydraulic system ensures a high surface finish, the machine spindle's performance is enhanced, the tool's service life is increased and costs are reduced.

Fast tool change
Micron precise without peripheral equipment. Turn to dead stop.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/tendo-slim-4ax

Sizes
NEW: SK 40
HSK-A 63
Ø 6 .. 32 mm

Run-out accuracy
0.003 at 2.5xD

Torques
Ø 6 16 Nm
Ø 8 23 Nm
Ø 16 185 Nm
Ø 18 240 Nm
Ø 25 400 Nm
Ø 32 650 Nm

Repeat accuracy
< 0.003 mm
TENDO® compact BT-Dual Contact
Hydraulic Expansion Toolholder

Now available with simultaneous Taper and Face Support.

Run-out and repeat accuracy ensures best surface qualities.

Up to 300% longer tool life
Proven by a study conducted by the wbk, Institute of Production Science at the Karlsruhe Institute of Technology (KIT).

The ultimate for large-volume machining
for all applications, for all cutting tools.

Maximum performance on steep taper interfaces
100% face contact between the machine spindle and toolholder.

Sizes
- BT-DC 30 with face contact (Ø 20 mm)
- BT-DC 30 with face contact (Ø 12 mm)
- BT-DC 40 with face contact (Ø 20 mm)
- BT-DC 40 with face contact (Ø 12 mm)

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/tendo-e-compact-dc

Sectional diagram:
1. Clamping screw
2. Clamping piston
3. Expansion sleeve and chamber system
4. Base body
5. Length adjustment screw
6. Tool
7. Dirt groove
**Polyhedral Clamping Technology**

Patented TRIBOS Polygonal Clamping Technology for your Lathe.

**Process reliable**
Direct clamping of smallest shanks.

**Slim-design interfering contour**
for machining in areas which are difficult to access.

**Rotationally symmetric design**
for highest rotational speed and exact dimensional and geometrical tolerances during filigree machining operations.

**Highest stability**
for high tool life of the turning tools.

---

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/tribos-er

---

**Sizes**

<table>
<thead>
<tr>
<th>ER 11</th>
<th>ER 16</th>
<th>ER 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIBOS-Mini Ø 1-6</td>
<td>TRIBOS-RM Ø 3-12</td>
<td></td>
</tr>
</tbody>
</table>

Available starting from mid-2018

---

Sectional diagram

1. ER interface
2. Stability due to high radial rigidity
3. Tool
Intelligent Clamping Pressure Adjustment speeds up Tool Change.

- Easy installation
- Maximum process reliability: Manual data-entry errors and damage to the toolholder due to excessive clamping pressure are now prevented.
- Faster tool change due to the automated process.
- Fast and easy retrofitting of the clamping devices TRIBOS SVP-2D, SVP-2D/H and SVP-4.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/tribos-fixscanner

For the series
TRIBOS-Mini
TRIBOS-RM
TRIBOS-S

Application example
Faster! Automated process due to data transmission by Data Matrix Code.
Hydraulic Compensation Jaw

Chuck Jaw with Oil Chamber System for low-deformation Workpiece Clamping.

- **Centrifugal force compensation**
  The minimum loss of clamping force ensures safe clamping.

- **Deformation-low clamping**
  of thin-walled or sensitive workpieces.

- **Adjustable run-out accuracy**
  for maximum accuracy during machining.

- **Vibration damping**
  for better surface quality of the workpiece.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/hydraulic-compensation-jaw

**Sizes**
Available for all sizes and interfaces on request

**Comparison: Clamping of deformation-sensitive Workpieces**

1. Conventional 3-point clamping
2. 6-point clamping with a hydraulic jaw
Pull-down Jaw

Avoids lifting of the Workpiece.

Flat workpiece support for highest accuracy.

High stability due to active pull down during workpiece machining.

Repeatable zero point by preventing the workpiece from lifting.

Closed system avoids contamination and accumulation of chips and minimizes wear.

Sizes
200 .. 315 and customized solutions

Compared to conventional stepped jaws, the new pull-down jaws avoid the lifting of the workpiece on the chuck during machining.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/pull-down-jaw
Lightweight Jaw

Weight-optimized Chuck Jaw for Raw Part Clamping on all conventional Lathe Chucks.

Reduction of the centrifugal force
the minimum loss of clamping force ensures safe clamping.

Efficiency enhancement
due to higher maximum RPM and therefore shorter processing times.

Weight reduction of at least 40%
compared to conventional chuck jaws.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/lightweight-jaw

Sizes
200 .. 315 and customized solutions

Your advantage
Faster cycle times with higher production safety!
This could be achieved by combining the SCHUNK lathe chuck ROTA NCE with the SCHUNK lightweight jaws.
Sealed Power Lathe Chuck for significantly longer Maintenance Intervals.

- Permanent grease lubrication for constantly high clamping forces.
- Large through-hole for machining all conventional bar diameters.
- Weight-optimized design for significantly reduced acceleration and braking times.

Technical support and sales
Tel. +49-7572-7614-1302 | schunk.com/rota-nca

<table>
<thead>
<tr>
<th>Size</th>
<th>Clamping force</th>
<th>Jaw stroke</th>
<th>max. RPM</th>
<th>Through-hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>100 kN</td>
<td>5.3 mm</td>
<td>5,000 RPM</td>
<td>66 mm</td>
</tr>
</tbody>
</table>

Sectional diagram:
1. Wedge hook drive (annular piston design)
2. Hardened and extremely rigid base body
3. Large through-hole
4. Fastening threads for workpiece stops
5. Base jaw serration
6. Sealing of the chuck
7. Weight-optimized design

Weight-optimized design for significantly reduced acceleration and braking times.
Extremely weight-reduced Wedge Hook Power Chuck with minimum Mass Moment of Inertia.

- Weight-optimized design with minimum mass moment of inertia for significantly reduced acceleration and braking times.

- Large through-hole for machining of all common bar diameters.

- 100% compatible with the Kitagawa BB200 Series (up to size 260)
  Exchange of the existing Kitagawa chucks can be done quickly and easily.

- DIN EN ISO 50001
  Suitable for energy management certification according to DIN EN ISO 50001.

Technical support and sales
Tel. +49-7572-7614-1302 | schunk.com/rota-nce

**Sectional diagram**
1. Wedge hook drive
2. Hardened and extremely rigid base body
3. Large through-hole
4. Optimized lubrication system
5. Mounting threads for workpiece stops
6. Base jaw serration
7. Freely selectable between inch or metric sizes
8. Jaw stroke display
9. Blank draw nut
10. Weight-optimized design

**Sizes**
165 .. 315

**Clamping force**
65 .. 155 kN

**Jaw stroke**
3.2 .. 5.8 mm

**max. RPM**
3,500 .. 6,000 RPM

**Through-hole**
53 .. 106 mm
Sealed 6-Jaw Power Lathe Chuck for significantly longer Maintenance Intervals.

Compensating 6-point clamping for deformation-low clamping of thin-walled workpieces.

Low height for maximum use of the machine room and maximum rigidity of the system.

High-low clamping Suitable for machining of workpieces with different clamping forces.

Integrated pendulum mechanism for best roundness tolerance values of deformation-sensitive workpieces.

Technical support and sales
Tel. +49-7572-7614-1302 | schunk.com/rota-ncr-a

## Sectional diagram
1. Angle lever drive
2. Hardened and extremely rigid base body
3. Optimized lubrication system
4. Fastening thread for workpiece stops
5. Standard chuck jaw interface
6. Inside located pendulum body
7. Sealing of the chuck for considerably longer maintenance intervals
8. Wiper strips seal the base jaw guidances and offer good protection against coolant and chips

<table>
<thead>
<tr>
<th>Size</th>
<th>Clamping Force</th>
<th>Jaw Stroke</th>
<th>Max. RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>64 kN</td>
<td>8 mm</td>
<td>3,000 RPM</td>
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</tbody>
</table>
VERO® NSE3 138
Quick-change Pallet Module

The high-performance pneumatic Quick-change Pallet System for universal Milling Operations.

- **100% compatible with the NSE plus 138** for easy exchange of the modules.
- **Optimized design** for an even higher rigidity of the system.
- **Increased pull-down forces** through optimized module kinematics in every clamping position.
- **Optional cone seal** for a fully protected clamping pin interface.

<table>
<thead>
<tr>
<th>Size</th>
<th>Pull-down force</th>
<th>Holding force</th>
<th>Repeat accuracy</th>
<th>Pneumatic pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>138</td>
<td>8 kN (without turbo)</td>
<td>35 kN (M10)</td>
<td>&lt; 0,005 mm</td>
<td>6 bar</td>
</tr>
<tr>
<td></td>
<td>28 kN (with turbo)</td>
<td>50 kN (M12)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 kN (M16)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical support and sales
Tel. +49-7572-7614-1301 | schunk.com/vero-s-nse3

Sectional diagram

1. Optional cone seal
2. Patented dual stroke system
3. Turbo function for amplification of the pull-down force
4. Completely sealed system therefore absolutely maintenance-free
5. Monitoring of the clamping slide positions “opened condition” and “locked condition”
6. Plain bearing bushing in the force flow
7. Lower lying countersunk screws for easy cleaning

Stationary Workholding
The first electrically driven Quick-change Pallet Module from SCHUNK.

Inductive clamping slide monitoring for monitoring the “open” and “clamped” state of the clamping module.

Actuation with 24 V direct current
Can be operated with the standard machine control.

Electromechanical drive
Energy-efficient alternative to pneumatic modules.

Dust- and watertight according to protection class IP67.

Technical support and sales
Tel. +49-7572-7614-1301 | schunk.com/vero-s-nse-e-mini

Size Pull-down force Holding force Repeat accuracy Clamping and release time
90 1.5 kN 15 kN (M6) 25 kN (M8) < 0.005 mm < 1 s

Sectional diagram
1. High-precision short taper centering
2. Patented dual stroke system
3. Large surfaces for transmitting the pull-down and holding forces
4. Large flat surfaces
5. Gear
6. Electric motor
7. Integrated electronics
8. 4 pin connection
9. Inductive proximity switch
Manually controlled Base Plate for pneumatic TANDEM Clamping Force Blocks with VERO-S Interface.

- **Pneumatic connection from three sides**
  - via lateral transfer or optionally at the bottom via the NSE plus 138-P module possible.
- **Flexible adjustable**
  - Can be mounted 90 degrees turned on the base plate.
- **Use of a pallet storage system**
  - Possible due to integrated pressure maintenance valve and visual pressure display via a pressure gauge.
- **VERO-S interface**
  - For the use of base plates on the VERO-S Quick-change pallet system.

Technical support and sales
Tel. +49-7572-7614-1301 | schunk.com/tandem-base-plate

Sizes
100/160 ... 250

Pneumatic pressure
Up to 9 bar

**Sectional diagram**

1. TANDEM clamping force block KSP plus
2. Pneumatic connection from three sides possible
3. Integrated pressure gauge
4. Manually actuated pneumatic valves
5. VERO-S interface
6. Bottom sided media transfer via NSE plus 138-P
KSX-C 5-Axis Clamping Vise

Power-amplified 5-Axis Clamping Vise with adjustable Clamping Center.

Quick lever clamping for easy and quick clamping of the workpieces by traction.

Optimum accessibility of the machine spindle due to the special design and higher seated spindle.

Individual adjustment of the clamping center for the use on a 5-axis machines.

Continuous adjustment of the clamping force quickly and easily, from 4-40 kN.

Technical support and sales
Tel. +49-7572-7614-1301 | schunk.com/kontec-ksx-c

<table>
<thead>
<tr>
<th>Size</th>
<th>Lengths</th>
<th>Clamping force</th>
<th>Clamping width</th>
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</thead>
<tbody>
<tr>
<td>125</td>
<td>430 .. 630 mm</td>
<td>4 .. 40 kN</td>
<td>0 .. 596 mm</td>
</tr>
</tbody>
</table>

Sectional diagram
1. Actuation via hexagon connection
2. Completely encapsulated spindle
3. Long jaw guidance
4. Jaw clamping via hexagon connection for individual adjustment of the clamping center
5. Continuous clamping force adjustment
6. Mechanical force transmission for self-retaining and vibration-resistant clamping
7. Lasered scale
8. Standard chuck jaw interface with a great selection of chuck jaws
KONTEC KSC-D Double Clamping Vise


Third hand function
Easy and safe loading of several workpieces on tombstones.

Vast chuck jaw program
for vast adaption to new clamping tasks.

Extremely flat design
for maximum use of the machine room and maximum rigidity of the system.

VERO-S interface
for direct clamping onto the VERO-S quick-change pallet systems without intermediate plate.

Technical support and sales
Tel. +49-7572-7614-1301 | schunk.com/kontec-ksc-d

Sizes
80 .. 125

Tightening torques
90 .. 100 Nm

Clamping force
25 .. 40 kN

Clamping width
0 .. 331 mm

Sectional diagram
1 Spindle drive
2 Long chuck jaw guidance
3 Third hand function
4 Fastening thread for workpiece stops
5 Standard chuck jaw interface with a great selection of chuck jaw
6 Central jaw for clamping of two components
7 Actuation via hexagon connection
SCHUNK Catalogs

11,000 standard products
Learn more about the largest portfolio of gripping systems and clamping technology with 11,000 standard components in our catalogs or at schunk.com

Catalog order
Tel. +49-7133-103-2256 | schunk.com/catalog-order

Your Benefit of being a SCHUNK Customer.

With continuing new campaigns, benefits packages, and exclusive offers, we are offering lucrative advantages to our customers.

Contact us and find out about our current customer specials.
Contact your SCHUNK consultant or our Customer Center for more information.
We are looking forward to hearing from you.
Tel. +49-7133-103-3888
customercenter@de.schunk.com
<table>
<thead>
<tr>
<th>SCHUNK Gripper</th>
<th>5-Finger Gripping Hand SVH</th>
<th>Pneumatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHUNK Gripper</td>
<td>Universal Gripper PGN-plus-P</td>
<td>Pneumatic</td>
</tr>
<tr>
<td>SCHUNK Gripper</td>
<td>Centric Gripper PZN-plus-P</td>
<td>Electric</td>
</tr>
<tr>
<td>SCHUNK Gripper</td>
<td>Universal Gripper PGN-plus-E</td>
<td>Electric</td>
</tr>
<tr>
<td>SCHUNK Gripper</td>
<td>Parallel Gripper EGL 90</td>
<td>Electric</td>
</tr>
<tr>
<td>Gripper Swivel Module</td>
<td>Gripper Swivel Module EGS</td>
<td>Electric</td>
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<tr>
<td>Linear Module</td>
<td>Linear Module ELP</td>
<td>Electric</td>
</tr>
<tr>
<td>Component</td>
<td>Description</td>
<td></td>
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<td>-----------------------------------------------</td>
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<tr>
<td>Robot Accessories</td>
<td>Angular Compensation Unit AGE–W</td>
<td></td>
</tr>
<tr>
<td>Control Unit</td>
<td>Controller ECM</td>
<td></td>
</tr>
<tr>
<td>Software</td>
<td>Commissioning Assistant EGL 90</td>
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<tr>
<td>Digitalization</td>
<td>Digital Twin</td>
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<tr>
<td>Configuration</td>
<td>SCHUNK Online Configurator</td>
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<tr>
<td>Configuration</td>
<td>EPLAN</td>
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<tr>
<td>Accessories Sensor System</td>
<td>SCHUNK Sensor MMS 22–10L</td>
<td></td>
</tr>
</tbody>
</table>

Your Personal Voucher
The new SCHUNK Technology Carrier for Collaborative Gripping.

Capacitive sensor systems
for early recognition and avoidance of collision situations.

Touchscreen
enables communication with the gripper as well as teaching or switching to various operating modes.

Tactile sensor systems
for in-time detection and differentiation of workpieces and humans.

Camera
mounted between the fingers for detecting the surroundings, differentiating and searching for objects.

Technical support and sales
Tel. +49-7133-103-3444 | schunk.com/co-act

The technology carrier SCHUNK Co-act gripper is based on three principles derived from the HRC standards on human/robot collaboration:

- Grippers never cause injuries when gripping
- Grippers always detect human contact
- Grippers never lose a workpiece

HRC Teamwork in Production Automation
SCHUNK 5-Finger Gripping Hand SVH

The world’s first Gripper for collaborative Robots, which received the German Social Accident Insurance (DGUV) Certificate.

Size Weight
1 1.3 kg

DGUV Certificate
for collaborative operation.

Robot operating system
ROS driver available.

Integrated electronics
for control in the wrist.

Technical support and sales
Tel. +49-7133-103-2893 | schunk.com/5-finger-gripping-hand-svh

Sectional diagram

1. Drive index finger, distal for actuation of two axes
2. Drive index finger, proximal direct current motor with spindle drive
3. Anti-slip, elastic gripping surface made of rubber for firm hold
4. Integrated electronics for direct assembly to the robot arm
5. Thumb with two degrees of freedom for flexing and swiveling the thumb
The new SCHUNK Gripper PGN–plus–P

The world’s most proven Gripper on the Market.
Lifelong maintenance–free.*

NEW: Lifelong maintenance–free*
The perfected SCHUNK multi–tooth guidance with continuous lubricant pockets ensures even and permanent lubrication.

NEW: Up to 50% longer gripper fingers
The higher maximum moments of the perfected SCHUNK multi–tooth guidance enable use of longer gripper fingers.

NEW: Up to 50% higher gripping force
with the enlarged surface of the drive piston.

Diverse accessories
Wide range of high–quality accessory components and matching sensor systems.

Technical support and sales
Tel. +49–7133–103–3888 | schunk.com/pgn–plus–p

Sizes
NEW: 125
50 .. 125

Weight
0.17 .. 1.37 kg

Gripping force
220 .. 4,200 N

Stroke per finger
2 .. 13 mm

Workpiece weight
1.1 .. 15 kg

Sectional diagram
1. Multi–tooth guidance
2. Base jaw
3. Mounting for sensor
4. Housing
5. Centering and mounting possibilities
6. Wedge hook principle
7. Piston drive

NEW: Up to 50%
longer gripper fingers

The higher maximum moments of the perfected SCHUNK multi–tooth guidance enable use of longer gripper fingers.

NEW: Up to 50%
higher gripping force

with the enlarged surface of the drive piston.

* Under normal, clean operating conditions.

Patentierte Präzision!
Patented Precision!

Pneumatic
SCHUNK Gripper
Universal Gripper PGN–plus–P

Technical support and sales
Tel. +49–7133–103–3888 | schunk.com/pgn–plus–p
The new SCHUNK 3-Finger Centric Gripper PZN-plus-P

Now NEW with Permanent Lubrication in the Multi-tooth Guidance. Lifelong maintenance-free.*

NEW: Lifelong maintenance-free*
The perfected SCHUNK multi-tooth guidance with continuous lubricant pockets ensures even and permanent lubrication.

NEW: Up to 120% higher finger load
The perfected multi-tooth guidance allows higher maximum moments due to the enlarged guide surface.

NEW: Up to 50% longer gripper fingers
The higher maximum moments of the perfected SCHUNK multi-tooth guidance enable use of longer gripper fingers.

* Under normal, clean operating conditions.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/pzn-plus-p

Sizes

<table>
<thead>
<tr>
<th></th>
<th>m</th>
<th>F</th>
<th>s</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 .. 125</td>
<td>0.27 .. 3.34 kg</td>
<td>325 .. 8,450 N</td>
<td>2 .. 13 mm</td>
<td>1.65 .. 29 kg</td>
</tr>
</tbody>
</table>

Sectional diagram

1. Housing
2. Wedge hook principle
3. Sensor system
4. Multi-tooth guidance

NEW: Up to 50% higher gripping force
with the enlarged surface of the drive piston.

NEW: Up to 120% higher finger load

NEW: Up to 50% longer gripper fingers

NEW: Lifelong maintenance-free*

NEW: Up to 50% higher gripping force
with the enlarged surface of the drive piston.

Patentierte Präzision!
Patented Precision!
Vielseitige Führung
Multi-tooth guidance

Pneumatic

SCHUNK Gripper
Centric Gripper PZN-plus-P

*  Under normal, clean operating conditions.
The new SCHUNK Gripper PGN-plus-E with IO-Link

The world’s first easy electric Gripper with Multi-tooth Guidance, IO-Link and 24 V Drive.

24 V drive and control on option, via digital I/O or IO-link class B connection for easy commissioning and quick integration into existing systems.

Four-stage adjustable gripping force for easy adaption to sensitive workpieces.

NEW: Lifelong maintenance-free
The perfected SCHUNK multi-tooth guidance with continuous lubricant pockets ensures even and permanent lubrication.

NEW: Up to 50% longer gripper fingers
The higher maximum moments of the perfected SCHUNK multi-tooth guidance enable use of longer gripper fingers.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/pgn-plus-e

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Gripping force</th>
<th>Stroke per finger</th>
<th>Workpiece weight</th>
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<tbody>
<tr>
<td>80</td>
<td>1.01 kg</td>
<td>up to 570 N</td>
<td>8 mm</td>
<td>up to 2.85 kg</td>
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</table>

Sectional diagram
1. Multi-tooth guidance
2. Base jaw
3. Sensor system
4. Housing
5. Centering and mounting possibilities
6. Wedge hook principle
7. Spindle nut
8. Drive
9. Control electronics

Patentierte Präzision! Patented Precision!
Vielzahnführung Multi-tooth guidance

NEW: Lifelong maintenance-free
The perfected SCHUNK multi-tooth guidance with continuous lubricant pockets ensures even and permanent lubrication.

Four-stage adjustable gripping force for easy adaption to sensitive workpieces.

Technical support and sales
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</table>
2-Finger Parallel Gripper EGL 90 with PROFINET

The first Gripper with certified PROFINET Interface and integrated Control Electronics.

Compact gripper
The complete control and power electronics are integrated in the housing. Suitable for the use in decentralized systems.

Maximum interface flexibility
via PROFIBUS (up to 12 Mbits/s) and CAN (up to 1 Mbit/s). PROFINET certification for ensured compatibility with industry standard.

Flexibly programmable
Finger position, closing speed, and gripping force (50 to 600 N) can be freely programmed within the maximum stroke of 42.5 mm.

Comfortable commissioning
Interactive online commissioning assistant for easy parameterization of the gripper hardware.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/parallel-gripper-egl

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Gripping force</th>
<th>Stroke per finger</th>
<th>Workpiece weight</th>
</tr>
</thead>
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<tr>
<td>90</td>
<td>1.8 kg</td>
<td>50 N .. 600 N</td>
<td>42.5 mm</td>
<td>3 kg</td>
</tr>
</tbody>
</table>

Sectional diagram
1. Control electronics
2. Encoder
3. Electric brake
4. Drive
5. Kinematics
6. Service window

Maximum interface flexibility
via PROFIBUS (up to 12 Mbits/s) and CAN (up to 1 Mbit/s). PROFINET certification for ensured compatibility with industry standard.

Compact gripper
The complete control and power electronics are integrated in the housing. Suitable for the use in decentralized systems.

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Gripper Swivel Module EGS

The world’s most compact electric Gripper Swivel Module.

- **Easy commissioning**
  Process reliable and long-lasting. Fully compatible with the SCHUNK 24 V modular system.

- **Digital control**
  Directly via 4 digital I/O (gripper opening/closing, turning left/right) or bus distributor.

- **Compact**
  Gripping and swiveling movements are tightly integrated inside the housing. (The angle of rotation is adjustable between 30° and 270°).

24 V technology
Suitable for the new standard in assembly automation with a high process stability and low-maintenance operation.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/gripper-swivel-module-egs

---

Sizes

<table>
<thead>
<tr>
<th>NEW</th>
<th>Gripping force</th>
<th>Stroke per jaw</th>
<th>Torque</th>
<th>Workpiece weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>30 .. 140 N</td>
<td>3 .. 6 mm</td>
<td>0.04 .. 0.11 Nm</td>
<td>0.15 .. 0.55 kg</td>
</tr>
<tr>
<td>25</td>
<td>30 .. 40 N</td>
<td>3 .. 6 mm</td>
<td>0.04 .. 0.11 Nm</td>
<td>0.15 .. 0.55 kg</td>
</tr>
</tbody>
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Gripping and swiveling movements are tightly integrated inside the housing. (The angle of rotation is adjustable between 30° and 270°).
Linear Module ELP

The easiest electric Linear Module on the Market to adjust. Now NEW with electric Holding Break.

**Unique auto-learn function**
Optimum speed adjustment during the first 2-5 strokes. No shock absorbers are installed.

**Low-maintenance 24 V linear direct drive**
Process-reliable and long-lasting. Fully compatible with the SCHUNK 24 V modular system.

**NEW: Electric holding break**
Secures against lowering of attachments in the event of energy loss in vertical applications.

**Integrated control and power electronics**
Controlled via digital I/O.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/linear-module-elp

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Weight</th>
<th>Stroke</th>
<th>Nominal force</th>
<th>Repeat accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 .. 100</td>
<td>1.8 .. 8.3 kg</td>
<td>30 .. 200 mm</td>
<td>17 .. 104 N</td>
<td>±0.01 mm</td>
</tr>
</tbody>
</table>

**Sectional diagram**
1. Roller guide
2. Drive
3. Control electronics
4. End position adjustability
5. Connecting plug
6. Modular design hole pattern
Angular Compensation Unit AGE-W

The world's first Angular Compensation Unit for the Use on Robots for simultaneous Rotational and Angular Compensation.

Rotational and angular compensation
Compensation of inaccuracies in component positioning in handling, assembly, "bin picking", and for loading and unloading.

High service life
Up to 1 million compensation cycles ensured.

Precise centering
Centrical locking via proven ball system for high-precision centering repeat accuracy.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/compensation-unit-age-w

Sectional diagram
1 Housing
2 Locking balls
3 Locking piston
4 Mounting flange

Size
125

Handling weight
22.7 kg

Deflection
±13°
Controller ECM with PROFINET

Modular 24/48 V Controller for electric Gripping and Rotary Modules.

Clear status display
Status display and error analysis via LED and seven-segments display for faster and clear diagnosis.

Maximum interface flexibility
Due to PROFIBUS (up to 12 Mbit/s), CAN (up to 1 Mbit/s), and PROFINET certification for ensured compatibility with industry standard. On option, control via 4 digital I/O.

Easy commissioning
Easy manual parameterization possible by means of PC.

Uniform control concept
Variably and modularly usable for electric gripping and rotary modules with an input voltage of 24 V/48 V.

Power supply
Transmission rate
max. 15 A | PROFIBUS max. 12 Mbit/s
CAN max. 1 Mbit/s

Sectional diagram
1 Status display
2 Service interfaces
3 Rotary encoding switch
4 DIP switch
5 M12 plug technology for PROFIBUS/CAN communication
6 Spring clips and plug connectors
7 Standard RJ45 plug for PROFINET communication

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/controller-ecm
SCHUNK Online Commissioning Assistant

Interactive Tool for fast and easy Commissioning of the Universal Gripper EGL 90.

The new SCHUNK online commissioning assistant of the electric SCHUNK gripper EGL 90 PROFINET supports you quickly and easily during commissioning.

- Fast commissioning of an intelligent SCHUNK gripper with integrated control electronics.
- Interactive, web-based user guidance throughout the whole commissioning process.
- Browser-based tool for universal access from every standard computer.
- Fast and error-free configuration and parametrization of the hardware.
- Easy connection and configuration to the GSCML file in your PLC environment.
- Support during programming of the PLC with the help of prefabricated programming examples.

Interactive user guidance throughout the whole commissioning process for comprehensive and individual support with using SCHUNK grippers.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/commissioning-assistant-egl90
SCHUNK Digital Tools

Virtual Commissioning and Simulation in the Engineering Process using our Digital Gripping System Program.

Digital Twin
Based on a CAD three-dimensional model, production characteristics, functions, and process parameters can be assigned to the object.

Realistic simulation
The intelligent three-dimensional model allows computer-assisted simulation in real time.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/digital-twin

With the Mechatronics Concept Designer from Siemens PLM Software, and the Digital Twin from SCHUNK, construction engineers and plant designers are able to simulate complete assembly plants from the concept to commissioning in a three-dimensional space.

+ Due to the virtual simulation in the engineering process; development and project times are up to 30% shorter.
+ All of individual processes can be already systematically coordinated and programmed in advance.
+ Instead of the classic CAD shell model, a detailed digital image of the individual components is used, including their full functionality.
+ Going digital in assembly automation: The mechatronic module from the SCHUNK 24 V program will be also available as a Digital Twin for virtual simulation of assembly plants.

Realistic simulation

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Instead of the classic CAD shell model, a detailed digital image of the individual components is used, including their full functionality.

Going digital in assembly automation: The mechatronic module from the SCHUNK 24 V program will be also available as a Digital Twin for virtual simulation of assembly plants.
Designing easy and error-free

The new SCHUNK Online Configurator is based on the proven CADENAS Technology.

With just one click, you can easily download complete handling systems in all common CAD formats (on option two- or three-dimensional).

Thereby, an intelligent combination logistics ensures that only configurations are implemented, which are feasible from the technical and mechanical point of view.

The configurator offers access to more than 10,000 possibilities of combination of the world’s most comprehensive module program for high-performance assembly, in pneumatic and electric versions.

On request, SCHUNK supplies the assembly systems, which were generated in the configurator, ready assembled.

The system automatically generates a parts list, which includes the individual components and also the standard and centering parts needed for assembly.

CAD data are available online
schunk.com/online-pick-place-configurator

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/3d-configurator

With the new SCHUNK Online Configurator for assembly automation, construction engineers can implement various pick & place applications, and upload them as a complete assembly group into their CAD program.
SCHUNK starts the Integration of the world’s largest Gripper Program into the EPLAN Data Portal.

With the EPLAN Data Portal, SCHUNK, the competence leader for gripping systems and clamping technology offers significant efficiency effects for designing assembly and handling systems.

- SCHUNK currently offers macros for more than 30 series including more than 1,500 individual components on the web-based data platform.
- Available components: The parallel gripper EGP, the gripper/swivel module EGS, and the self-learning linear module ELP from the 24 V gripper modular system, as well as the electric gripper EGL.
- By using the provided macros, construction engineers and plant designers can reduce their project planning effort, and increase the quality of the machine and plant documentation. All the data are available on the latest version of the EPLAN platform worldwide.
- Data can be directly integrated into the corresponding EPLAN software solution or can be downloaded via the browser version of the EPLAN data portal for use in other ECAD programs and can be easily inserted by drag and drop into the individual plans.

Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/eplan
The new SCHUNK Sensor MMS 22-IOL with IO-Link Interface

Reliable and economic Sensor for Position Monitoring with the Plug Variants M8 and M12.

- **LED display**
  for control of the switching state directly on the sensor.

- **Easy cabling and integration**
  into existing periphery.

- **Manifold diagnostic interfaces**
  Evaluation quality, temperature measurement, product information, and much more.

- **Programming within seconds**
  due to the use of a magnetic teach-in tool.

---

SCHUNK sensors are used for monitoring the state of automatic components. They detect approach without contact and above a certain switching value and puts out a digital signal.

- **Sensor MMS 22-IOL-M8** with IO-link interface
  for analog position query of SCHUNK grippers.

- **Sensor MMS 22-P11-EX** with ATEX certification
  for the use in explosion-endangered areas. Fully compatible with SCHUNK ATEX-certified components.

- **Sensor IN 30 inductive proximity switch**
  Stainless steel housing with a fully integrated sensor system. SCHUNK IN sensors are insensitive to vibrations, dust, and humidity.
11,000 standard products
Learn more about the largest portfolio of gripping systems and clamping technology with 11,000 standard components in our catalogs or at schunk.com

Your Benefit of being a SCHUNK Customer.

With continuing new campaigns, benefits packages, and exclusive offers, we are offering lucrative advantages to our customers.

Contact us and find out about our current customer specials.
Contact your SCHUNK consultant or our Customer Center for more information.
We are looking forward to hearing from you.
Tel. +49-7133-103-3888
customercenter@de.schunk.com
No. 1
for safe, precise gripping and holding.

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

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