

Superior Clamping and Gripping

SCHUNK 

SCHUNK
New Products
and Innovations

Your SCHUNK



30 New products

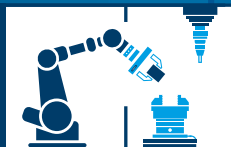
The highlights of SCHUNK gripping systems and clamping technology: Among other topics, the new SCHUNK Gripper JL1 for human/robot collaboration, and the premium quick-change pallet module VERO-S NSE3 for manual or automatic machine loading.



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.

Equipped
by





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".



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



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.





Toolholder

TENDO[®] Slim  ax

Toolholder

TENDO[®] E compact BT-DC

Toolholder

TRIBOS[®]-ER

Toolholder

Accessories
TRIBOS[®] Fixscanner

Chuck Jaws

Hydraulic
Compensation Jaw

Chuck Jaws

Pull-down Jaw

Chuck Jaws

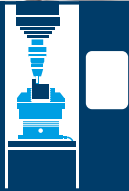
Lightweight Jaw

Lathe Chuck

Power Lathe Chuck
ROTA NCA

Equipped
by

SCHUNK



Clamping Technology



Lathe Chuck

Power Lathe Chuck
ROTA NCE

Lathe Chuck

Power Lathe Chuck
ROTA NCR-A

Stationary Workholding

Quick-change Pallet Module
VERO-S NSE3 138

Stationary Workholding

Quick-change Pallet System
VERO-S NSE-E mini 90

Stationary Workholding

TANDEM Base Plate

Stationary Workholding

5-Axis Clamping Vise
KONTEC KSX-C

Stationary Workholding

Double Clamping Vise
KONTEC KSC-D

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



Repeat accuracy

< 0.003 mm

Sectional diagram

- 1 Chamber system
- 3 Base body
- 2 Expansion sleeve
- 4 Length adjustment screw
- 5 Dirt groove



T | E | N | D | O[®] E compact BT-Dual Contact Hydraulic Expansion Toolholder

Now available with simultaneous Taper and Face Support.



< 0.003 mm

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.

Technical support and sales

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



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)



Run-out accuracy

0.003
at 2.5xD



Torque

Ø 20: 400 Nm
(BT-DC 30 with face contact)
Ø 20: 520 Nm
(BT-DC 40 with face contact)



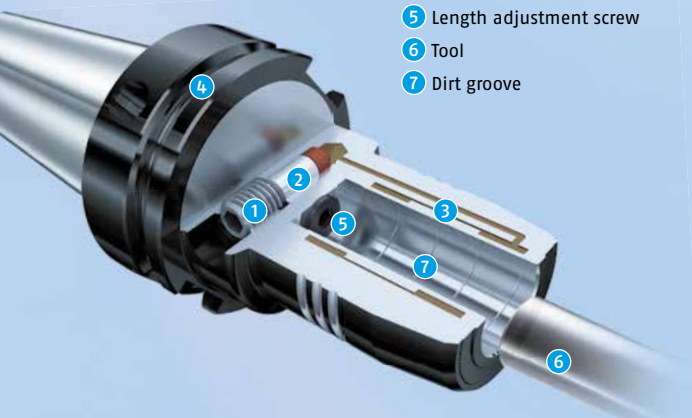
Repeat accuracy

< 0.003 mm

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



Polygonal 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

ER 11 ER 25
ER 16 ER 32
ER 20



Clamping diameter

TRIBOS-Mini \varnothing 1-6
TRIBOS-RM \varnothing 3-12



Available starting
from mid-2018

Sectional diagram

- 1 ER interface
- 2 Stability due to high radial rigidity
- 3 Tool



TRIBOS® Fixscanner

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

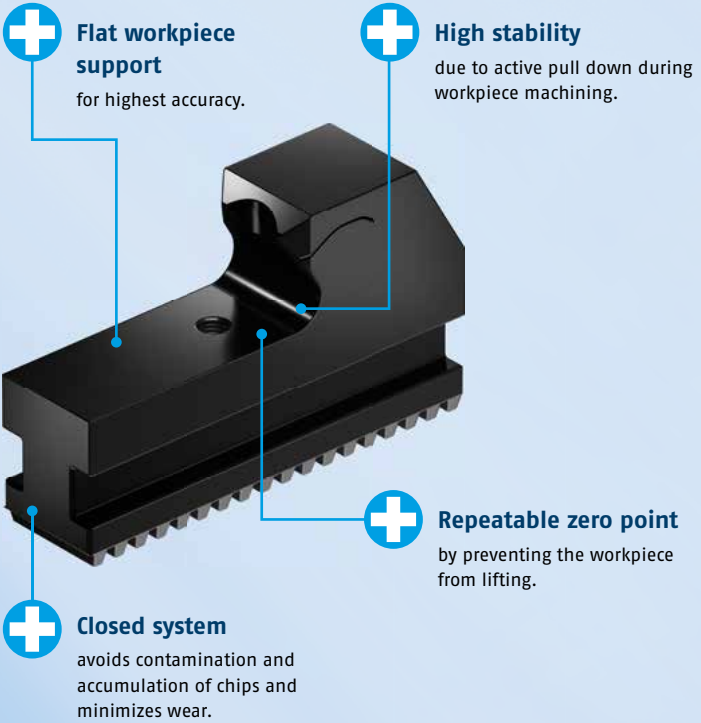
Comparison: Clamping of deformation-sensitive Workpieces

- 1 Conventional 3-point clamping
- 2 6-point clamping with a hydraulic jaw



Pull-down Jaw

Avoids lifting of the Workpiece.



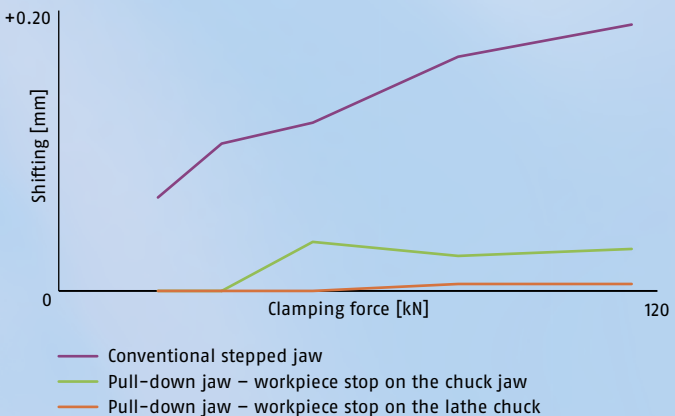
Technical support and sales
Tel. +49-7133-103-3888 | schunk.com/pull-down-jaw



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.



Lightweight Jaw

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



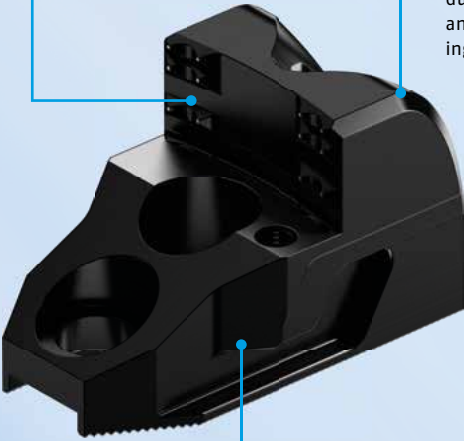
Reduction of the centrifugal force

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



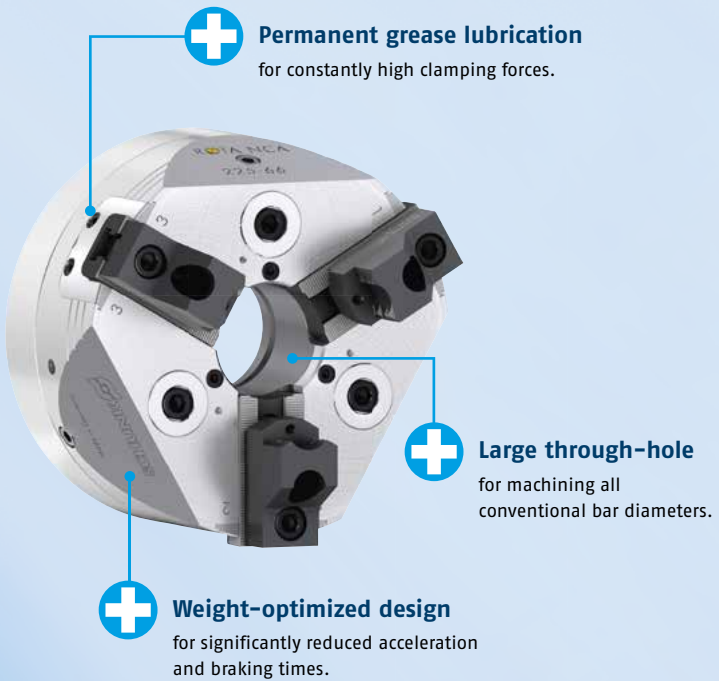
Faster cycle times with higher production safety!

This could be achieved by combining the SCHUNK lathe chuck ROTA NCE with the SCHUNK lightweight jaws.



ROTA NCA Power Lathe Chuck

Sealed Power Lathe Chuck
for significantly longer Maintenance Intervals.



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



Size
225



Clamping force
100 kN



Jaw stroke
5.3 mm



max. RPM
5,000 RPM



Through-hole
66 mm

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
Freely selectable between inch or metric sizes
- 6 Sealing of the chuck
for significantly longer maintenance intervals
- 7 Weight-optimized design



ROTA NCE Power Lathe Chuck

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.



DIN EN ISO 50001

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



100% compatible with the Kitagawa BB200 Series (up to size 260)

Exchange of the existing Kitagawa chucks can be done quickly and easily.

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



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

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
Freely selectable between inch or metric sizes
- 7 Jaw stroke display
- 8 Blank draw nut
- 9 Weight-optimized design



ROTA NCR-A Power Lathe Chuck

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.



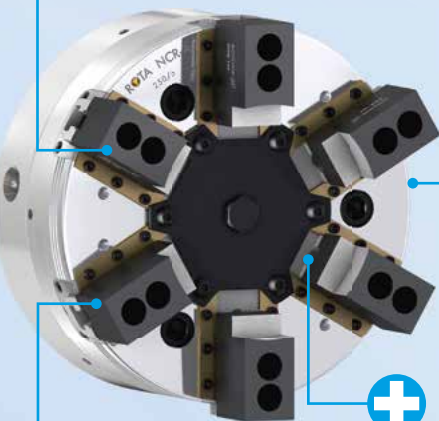
Integrated pendulum mechanism

for best roundness tolerance values of deformation-sensitive workpieces.



High-low clamping

Suitable for machining of workpieces with different clamping forces.



Technical support and sales

Tel. +49-7572-7614-1302 | schunk.com/rota-ncr-a



Size
250



Clamping force
64 kN



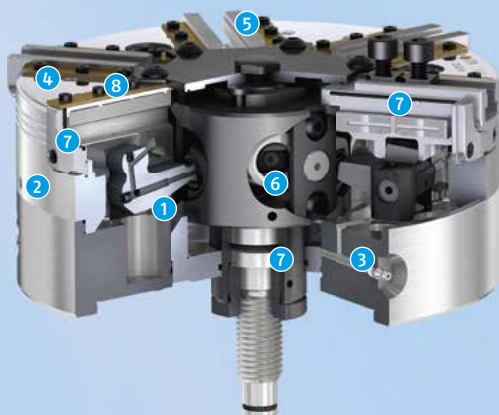
Jaw stroke
8 mm



max. RPM
3,000 RPM

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



VERO-S NSE3 138

Quick-change Pallet Module

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



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



Size

138



Pull-down force

8 kN (without turbo)
28 kN (with turbo)



Holding force

35 kN (M10)
50 kN (M12)
75 kN (M16)



Repeat accuracy

< 0,005 mm



Pneumatic pressure

6 bar

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



VERO-S NSE-E mini 90

Quick-change Pallet Module

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

90



Pull-down force

1.5 kN



Holding force

15 kN (M6)
25 kN (M8)



Repeat accuracy

< 0.005 mm



Clamping and release time

< 1 s

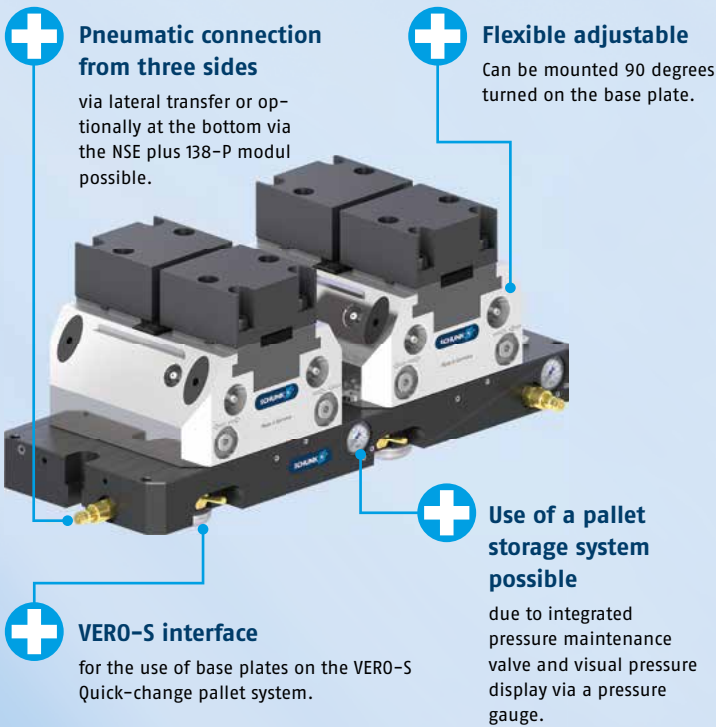
Sectional diagram

- 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



TANDEM® Base Plate

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 modul possible.
- + Flexible adjustable**
Can be mounted 90 degrees turned on the base plate.
- + VERO-S interface**
for the use of base plates on the VERO-S Quick-change pallet system.
- + Use of a pallet storage system possible**
due to integrated pressure maintenance valve and visual pressure display via a pressure gauge.

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



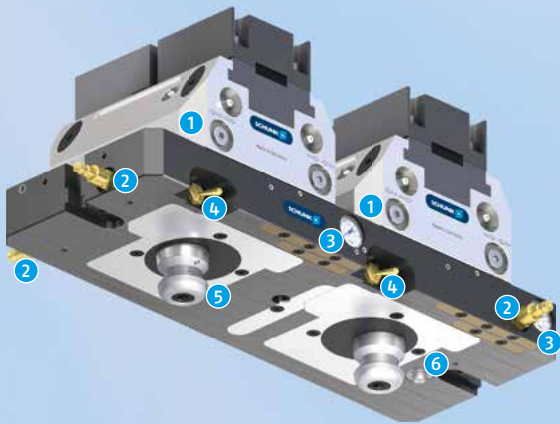
Sizes
100/160 .. 250



Pneumatic pressure
up to 9 bar

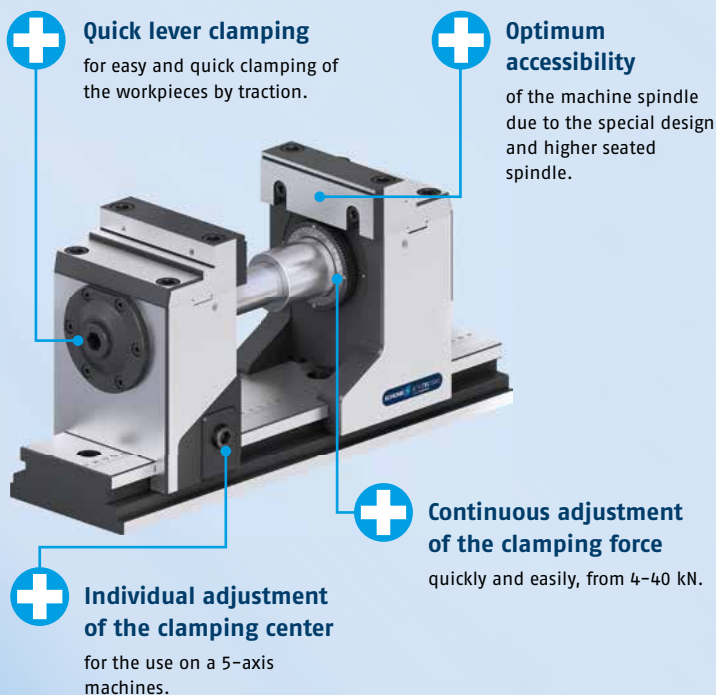
Sectional diagram

- 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



KONTEC KSX-C 5-Axis Clamping Vise

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



Technical support and sales

Tel. +49-7572-7614-1301 | schunk.com/kontec-ksx-c



Size
125



Lengths
430 .. 630 mm



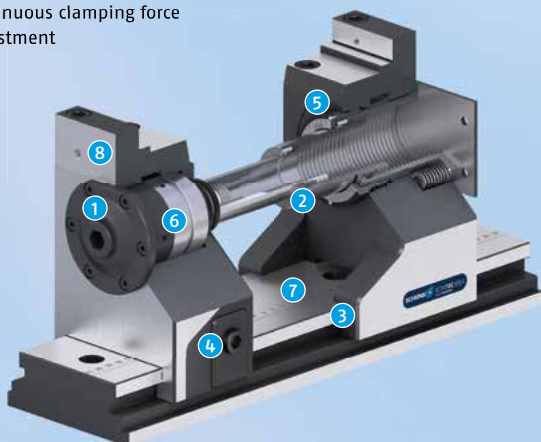
Clamping force
4 .. 40 kN



Clamping width
0 .. 596 mm

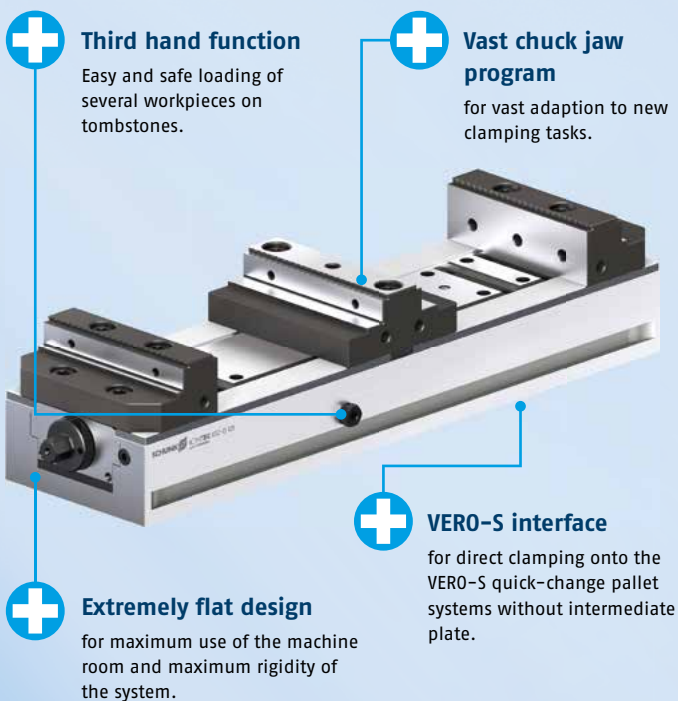
Sectional diagram

- 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

Manual Double Clamping Vise with Third Hand Function for clamping of two Workpieces.



Technical support and sales

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Sizes
80 .. 125



Tightening torques
90 .. 100 Nm



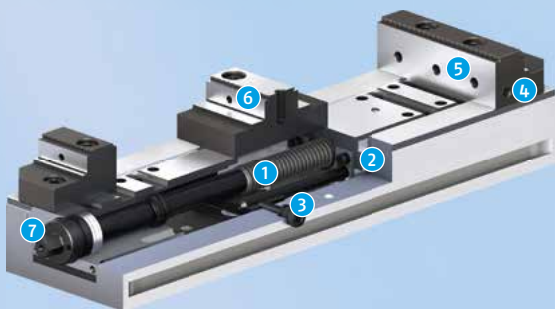
Clamping force
25 .. 40 kN



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



HERMES
AWARD
2017



SCHUNK Gripper	
SCHUNK Gripper	5-Finger Gripping Hand SVH
SCHUNK Gripper	Pneumatic Universal Gripper PGN-plus-P
SCHUNK Gripper	Pneumatic Centric Gripper PZN-plus-P
SCHUNK Gripper	Electric Universal Gripper PGN-plus-E
SCHUNK Gripper	Electric Parallel Gripper EGL 90
Gripper Swivel Module	Electric Gripper Swivel Module EGS
Linear Module	Electric Linear Module ELP



Equipped
by

SCHUNK



Gripping Systems



Robot Accessories

Angular Compensation Unit AGE-W

Control Unit

Controller ECM

Software

Commissioning Assistant EGL 90

Digitalization

Digital Twin

Configuration

SCHUNK Online Configurator

Configuration

EPLAN

Accessories Sensor System

SCHUNK Sensor
MMS 22-10L

SCHUNK

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.

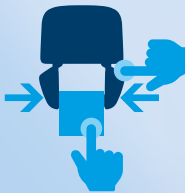


Technical support and sales
Tel. +49-7133-103-3444 | schunk.com/co-act

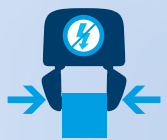
The technology carrier SCHUNK Co-act gripper is based on **three principles derived** from the HRC standards on human/robot collaboration:



Grippers **never cause injuries** when gripping

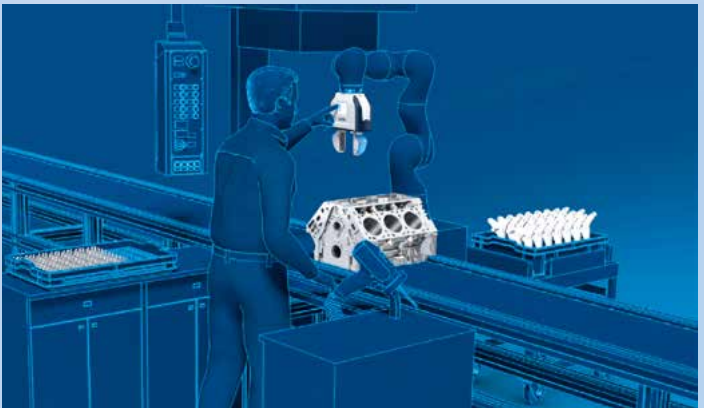


Grippers **always detect** human contact



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.



DGUV Certificate

for collaborative operation.



Robot operating system

ROS driver available.



Integrated electronics

for control in the wrist.



Interface RS-485

Technical support and sales

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



Size

1

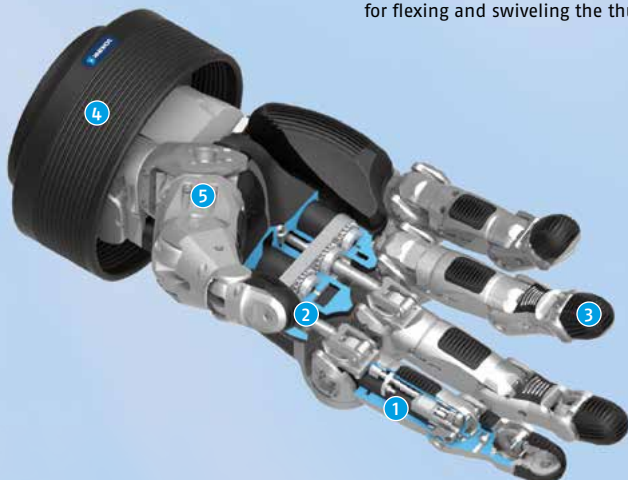


Weight

1.3 kg


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.

* Under normal, clean operating conditions.

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

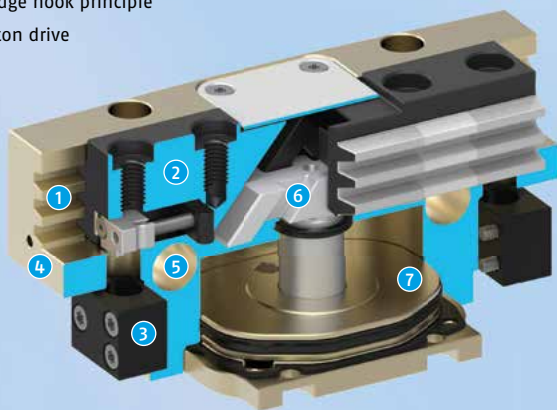
				
Sizes	Weight	Gripping force	Stroke per finger	Workpiece weight
NEW: 125 50 .. 125	0.17 .. 1.37 kg	220 .. 4,200 N	2 .. 13 mm	1.1 .. 15 kg

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

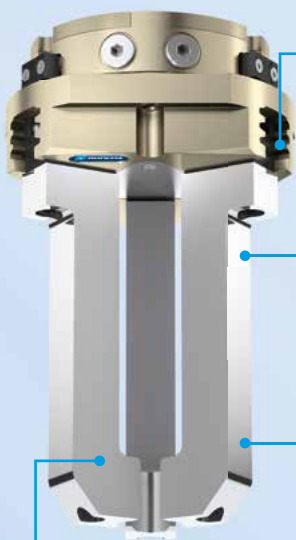
 **Patentierte Präzision!**
Patented Precision!

 **P**
Vielzahnführung
Multi-tooth guidance



The new SCHUNK 3-Finger Centric Gripper PZN-plus-P

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



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

+ **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

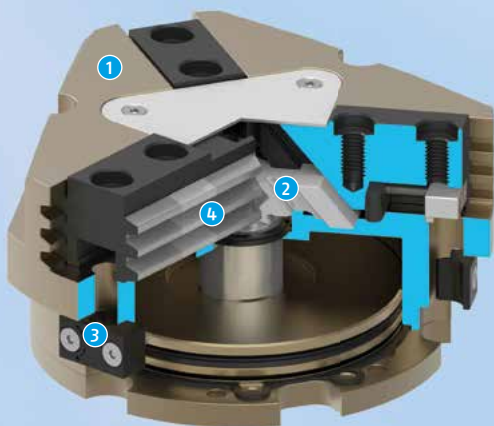
				
Sizes	Weight	Gripping force	Stroke per finger	Workpiece weight
50 .. 125	0.27 .. 3.34 kg	325 .. 8,450 N	2 .. 13 mm	1.65 .. 29 kg

Sectional diagram

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


Patenterte Präzision!
Patented Precision!

P
Vielzahnführung
Multi-tooth guidance



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

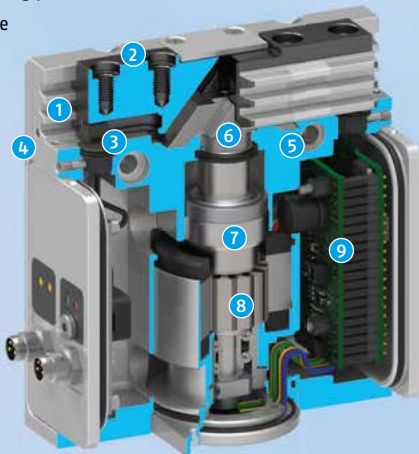
				
Size	Weight	Gripping force	Stroke per finger	Workpiece weight
80	1.01 kg	up to 570 N	8 mm	up to 2.85 kg

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

 **Patentierter Präzision!**
Patented Precision!

 **Vielzahnführung**
Multi-tooth guidance



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



Size

90



Weight

1.8 kg



Gripping force

50 N .. 600 N



Stroke per finger

42.5 mm

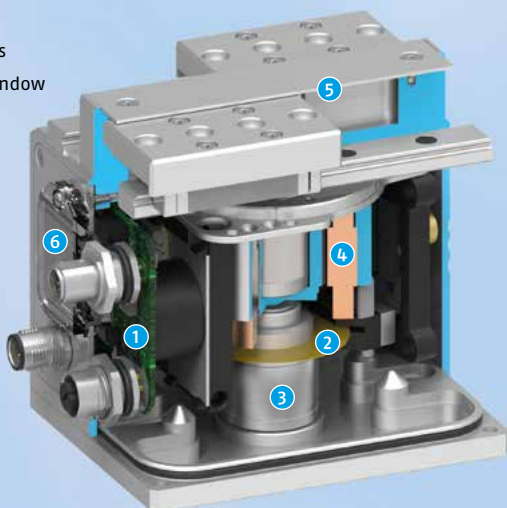


Workpiece weight

3 kg

Sectional diagram

- 1 Control electronics
- 2 Encoder
- 3 Electric brake
- 4 Drive
- 5 Kinematics
- 6 Service window



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

NEW: 40
25 .. 40



Gripping force

30 .. 140 N



Stroke per jaw

3 .. 6 mm



Torque

0.04 .. 0.11 Nm

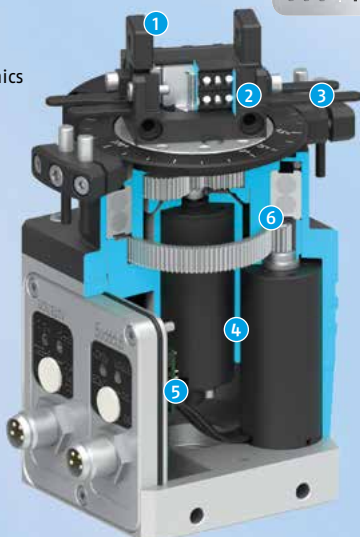


Workpiece weight

0.15 .. 0.55 kg

Sectional diagram

- 1 Base jaw
- 2 Junction roller guide
- 3 Sensor system
- 4 Drives
- 5 Control electronics
- 6 Patented gear coupling



Alternative
Adaptable
Intelligent

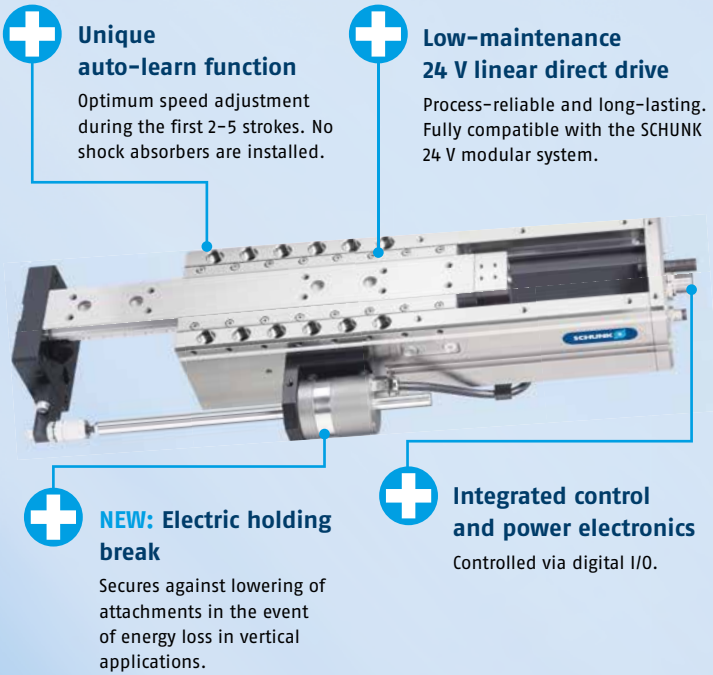
MECHATRONIK³

Gripper Swivel Module

Electric
Gripper Swivel Module EGS

Linear Module ELP

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



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



Sizes

25 .. 100



Weight

1.8 .. 8.3 kg



Stroke

30 .. 200 mm



Nominal force

17 .. 104 N



Repeat accuracy

±0.01 mm

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.



Robot interface according to ISO 9409

Direct connection to the robot. No additional adapter plate required.



Precise centering

Central 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



Size
125



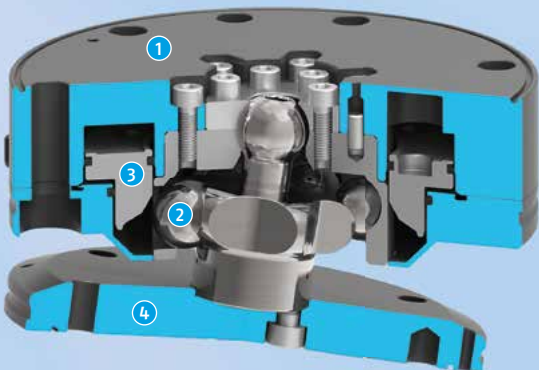
Handling weight
22.7 kg



Deflection
 $\pm 13^\circ$

Sectional diagram

- 1 Housing
- 2 Locking balls
- 3 Locking piston
- 4 Mounting flange



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 Mbits/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.

Technical support and sales

Tel. +49-7133-103-3888 | schunk.com/controller-ecm



Power supply

max. 15 A

Transmission rate

PROFIBUS max. 12 Mbit/s

CAN max. 1 Mbit/s

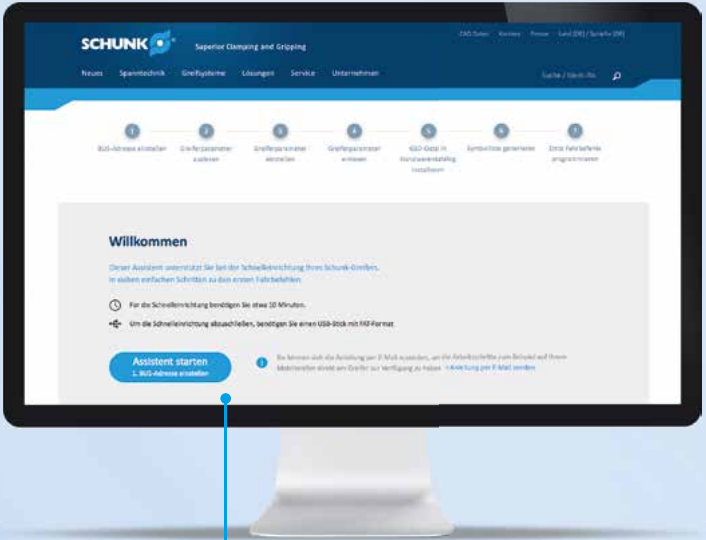
Sectional diagram

- 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



SCHUNK Online Commissioning Assistant

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









**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

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.

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.



Designing easy and error-free

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



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.



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.



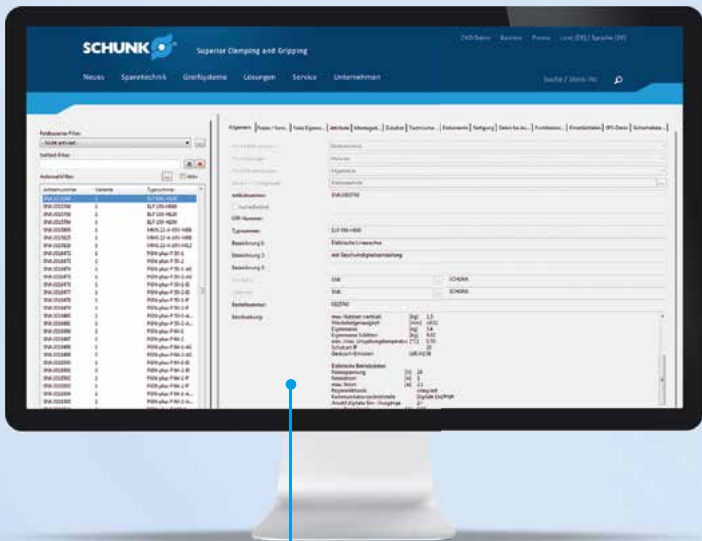
On request, SCHUNK supplies the assembly systems, which were generated in the configurator, ready assembled.



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

EPLAN

SCHUNK starts the Integration of the world's largest Gripper Program into the EPLAN Data Portal.







ePLAN
data portal



ECAD data are available online
schunk.com/eplan

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

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.

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.

Technical support and sales

Tel. +49-7133-103-3888 | schunk.com/sensor-mms-22-iol

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-PI1-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.

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

No. 1






for safe, precise
gripping and holding.

J. Lehmann

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



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