

Superior Clamping and Gripping



Product Overview

Gripping Systems

Superior Clamping and Gripping

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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.

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 2,300 employees in our innovative family-owned company.

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

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Pneumatic Grippers

2-Finger Parallel Grippers

Miniature-Parallel Gripper MPG-plus

- Gripping force from 25 N to 350 N
- Stroke per finger from 1.5 mm to 10 mm
- 7 sizes from 16 to 64
- For small and medium-sized components for assembly automation

Gripper for small components KGG

- · Gripping force from 45 N to 540 N
- Stroke per finger from 10 mm to 60 mm
- 7 sizes from 60 to 280
- Thin gripper with robust T-slot guidance

Universal Gripper PGN-plus

- Highest gripping force from 123 N to 21,800 N
- Stroke per finger from 2.5 mm to 45 mm
- 11 sizes from 40 to 380
- Robust multi-tooth guidance with high maximum moments possible for applications with long gripper fingers

Universal Gripper JGP

- · Gripping force from 123 N to 7,400 N
- Stroke per finger from 2.5 mm to 35 mm
- 10 sizes from 40 to 300
- Gripper of the compact class with T-slot guidance and best cost-performance ratio

Universal Gripper PGF

- Gripping force from 240 N to 1,970 N
- Stroke per finger from 7.5 mm to 31.5 mm
- 5 sizes 50 to 125
- · Very good guidance characteristics

Sealed Gripper DPG-plus IP67

- High gripping forces from 110 N to 11,700 N $\,$
- Stroke per finger from 2.5 mm to 35 mm
- 10 sizes from 40 to 300
- Robust multi-tooth guidance with high maximum moments

Long-stroke Gripper PSH

- Gripping force from 320 N to 1,760 N
- · Stroke per finger from 14 mm to 100 mm
- 4 sizes from 22 to 52
- Sealed round guides for applications in slightly contaminated environments

Long-stroke Gripper PHL

- Gripping force from 390 N to 3,250 N
- Stroke per finger 30 mm to 160 mm
- · 5 sizes fom 25 to 63
- The viton version allows applications in contaminated environments

















Pneumatic Grippers

3-Finger Centric Grippers

Gripper for small components MPZ

- Gripping force from 20 N to 310 N
- Stroke per finger from 1 mm to 5 mm
- 6 sizes from 16 to 45
- For small and medium-sized components for assembly automation

Universal Gripper PZN-plus

- Highest gripping forces from 255 N to 59,500 N
- Stroke per finger 2.5 mm to 40 mm
- 11 sizes 40 to 380
- Robust multi-tooth guidance with high maximum moments for the use of long gripper fingers

Universal Gripper JGZ

- Highest gripping forces from 255 N to 7,990 N
- Stroke per finger 2.5 mm to 16 mm
- 7 sizes from 40 to 160
- Gripper of the compact class with T-slot guidance and best cost-performance ratio

Sealed Gripper DPZ-plus IP67

- High gripping forces from 230 N to 16,800 N
- Stroke per finger 2.5 mm to 25 mm
- 8 sizes from 40 to 200
- Robust multi-tooth guidance with high maximum moments

Multi-Finger Grippers

Assembly Gripper ORG

- For 0-rings from Ø 5 mm to Ø 150 mm
- Adjustable opening strokes
- · Size 85
- Process reliable for O.D. and I.D. assembly with just one gripper



Angular Grippers

Gripper for small components SWG

- Gripping moment from 0.01 Nm to 2.8 Nm
- Opening angle per finger 15°
- 8 sizes from 10 to 50
- Thin and compact design

Universal PWG-plus

- · Gripping moment from 3.5 Nm to 617 Nm
- Opening angle per finger 15°
- 8 sizes from 50 to 240
- Robust gripper with spring-supported gripping force maintenance









Pneumatic Grippers

Angular Grippers

Radial Gripper PRG

- · Gripping moment from 2 Nm to 295 Nm
- · Opening angle 30°/60°/90°
- 8 sizes from 26 bis 125
- · For applications with extremely short motion sequences

Sealed Gripper DRG IP67

- · Gripping moments from 8 Nm to 143 Nm
- Adjustable opening angle from 10° to 180°
- 5 sizes from 44 to 100
- · Completely sealed mechanics

Grippers with Shank Interface

Vacuum Gripper GSW-V

· For automatic loading and unloading of machine centers

Cleaning Unit RGG

· Protection against dirt and chips

Gripper with Shank Interface GSW

· Stroke per finger from 4 to 10 mm

Magnetic Gripper GSW-M

· Magnetic gripper for handling of sheet metals or workpieces with a complex outside contour

Flexible Compensation Unit GSW-B-AGE

- · Flexible compensation unit
- Compensation of tolerances and position inaccuracies



Gripper Swivel Modules

Swivel Module with Parallel Gripper GSM-P

- · Gripping force from 25 N bis 270 N
- Compact module for assembly automation

Swivel Module with Centric Gripper GSM-Z

- Gripping force from 55 N to 310 N
- · Flexible adjustment of the swivel angle via sheet balls

Swivel Module Angular Gripper GSM-W/GSM-R

- · Gripping moment from 0.45 Nm to 15 Nm
- · Compact design

Electric Grippers

2-Finger Parallel Grippers

Gripper for small components EGP

- · Gripping force up to 215 N
- · Four step adjustable gripping force
- Stroke per finger 3 mm to 8 mm
- · Sizes 25 to 50

Electric Grippers

2-Finger Parallel Grippers

Universal Gripper EGN

- · Gripping force from 170 N to 1,000 N
- 3 sizes from 80 to 160
- · Gripper with servo motor
- · Pre-positioning capability to reduce cycle times

Long-stroke Gripper LEG

- · Gripping force 300 N to 1,500 N
- · Stroke per finger 0 mm to 250 mm
- · 3 sizes 400 to 760
- · Modular drive concept

Intelligent Gripper PG

- With sensitive gripping force control from 30 N to 200 N
- Stroke per finger 34 mm
- Size 70
- Fully integrated control and power electronics incl. different interfaces

Intelligent Gripper PEH

- Gripping force control from 150 N to 1,800 N
- Stroke per finger 60 mm to 100 mm
- · 3 sizes 30 to 50
- · Fully integrated control and power electronics incl. different interfaces

Gripper with adaptable drive EGA

- · Gripping force up to 1,300 N
- · Stroke per finger 30 mm to 100 mm
- 2 sizes from 25 and 40
- · Compatible with common servo motors like e.g. SEW, Siemens, Bosch, ...

Intelligent Gripper WSG

- Sensitive gripper 5 N to 120 N gripping force
- · Stroke per finger up to 105 mm
- 3 gripper sizes: 25, 32, and 50
- Option available with gripper fingers with integrated electronics for direct gripping force measurement

3-Finger Centric Grippers

Universal Gripper EZN

- · Gripping force from 500 N to 800 N
- · Stroke per finger 6 mm to 10 mm
- 2 sizes from 64 and 100
- · Gripper with servo motor
- Pre-positioning capability to reduce cycle times



Magnetic Gripper

Magnetic Gripper EGM

- · Highest holding force in confined spaces
- · After actuation, the workpiece is securely held





















Pneumatic Rotary Modules

Swivel Units

Vane Swivel Unit SFL

- · Axial force from 10 N to 50 N
- · High torque from 0.1 Nm to 3.6 Nm
- · 3 sizes from 25 bis 64
- Compact module for easy swiveling tasks up to 180°

Universal Swivel Unit SRU-plus

- Axial force from 255 N to 11,000 N
- High torque from 0.2 Nm to 115 Nm
- 11 sizes from 8 to 63
- Swivel angle 90° or 180°
- · Locked middle position possible







Swivel Heads

Swivel Head SRH-plus

- · Torque from 3 Nm to 69.9 Nm
- Integrated media supply and possibility to transmit digital signals
- 7 sizes from 20 to 60 with swivel angle 180°
- · Modular design with many options



Rotary Indexing Tables

Rotary Indexing Table RST-D

- Pitch 4, 6, 8, 12, 16
- 3 sizes: 60, 87, and 134
- Max. mass moment of intertia 0.6 kgm²
- Cycles to the right, to the left or oscillates.
 Cycle change via control unit



Swivel Fingers

Swivel Finger GFS

- Axial force from 330 N to 3,300 N
- · Torque from 0.64 Nm to 10 Nm
- 4 sizes from 16 to 40
- · For turning of workpieces



Electric Rotary Modules

Rotary Modules

Miniature Rotary PRH

- Torque from 1.5 Nm to 6.8 Nm
- Infinitely rotating
- 6 sizes
- Integrated electronics with SCHUNK Motion Protocol (SMP)

Universal Swivel Unit PR

- Axial force from 345 N to 895 N
- High torque from 3.6 Nm to 142 Nm
- 3 sizes from 70 to 110
- Fully integrated control and power electronics incl. different interfaces



Electric Rotary Modules

Rotary Modules

Pan-Tilt Unit PW

- Axial force from 80 N to 200 N
- Torque up to 23 Nm
- · 2 independent axes in one module
- · 2 sizes 70 and 90
- Fully integrated control and power electronics incl. different interfaces



Rotary Module ERS

- High torques from 2.5 Nm to 10 Nm
- · High axial forces from 2,500 N to 10,000 N
- · 3 sizes from 135 to 210
- 2 control versions SCHUNK MCS12-Controller (48 V) or standard control systems (560 V, Bosch or Siemens)



Miniature Rotary Module ERD

- · Torque from 0.4 Nm to 1.2 Nm
- · Integrated air and electronic feed through
- · 3 sizes 4, 8, and 12
- · SIL-2 certificated absolut encoder measurement system



Heavy-duty Rotary Module ERM

- Up to 75 Nm torque
- 1 size 160
- Modular drive concept due to adaptable servo motors
- · 8 integrated air feed-throughs



Linear Modules

Stroke Modules

Stroke Module HLM

- · Stroke from 0 mm to 150 mm continuously adjustable
- Diving force maximum 482 N
- · 4 sizes from 25 to 200
- Retracted and extended stroke in each case up to 25 mm adjustable



Pick & Place Units

Pick & Place Unit with direct drive PPU-E

- · 3 sizes, payload 1.5 kg, 3 kg, or 5 kg
- Horizontal stroke max. 280 mm, vertikal stroke max. 150 mm
- · No moving motor cable
- For highly dynamic Pick & Place applications at high repeat accuracies



Pick & Place Unit with pneumatic drive PPU-P

- · 2 sizes from payload 1 kg to 3 kg
- Horizontal stroke maximum 210 mm, vertical stroke maximum 60 mm
- Repeat accuracy per axis ±0.01 mm
- · Full compatibilty to the modular assembly system



Linear Modules

Pick & Place Units

Rotary Lift Unit DRL

- For highly dynamic, yet smooth Pick & Place operations
- · Up to 90 cycles per minute
- · 2 sizes 20 and 25
- Rotation angle adjustable at 90° or 180°



Linear Axes

Linear Axes with direct drive LDx

- · Six different types
- · Useful strokes up to 3,800 mm
- Drive force up to 1,200 N
- · Optional with absolut encoder measurement system
- · For highly dynamic applications with a high repeat accuracy

Linear Axes with spindle / belt / rack drive

- · Useful strokes up to 7,640 mm
- Drive force up to 18,000 N
- · Moment load of up to 12,000 Nm
- Modular system with manifold guidance and actuation versions



Linear Module with pneumatic drive LM

- Stroke from 25 mm to 450 mm
- Drive force from 50 N to 753 N
- · 5 sizes from 25 to 300
- · Optimum standard solution for high-precision applications

Standard Systems

Line and Room Gantries LPP/LPE/RPE

More than 500 desired gantry solutions from the SCHUNK standard gantry program



- LPP Line Gantry pneumatic: payload max. 5 kg
- · LPE Line Gantry electric: payload from 10 kg to 20 kg
- · RPE-Gantry electric: payload from 10 kg to 20 kg
- · LPE and RPE with servo drives

Robot Accessories

Changing

Manual Gripper Change System HWS

- Handling weight of up to 54 kg
- · Integrated air feed-through
- Manifold electrical and pneumatic options
- Easy assembly via ISO flange (HWS)
- Direct assembly to PGN-plus and JPG interface (CWS)

Tool Quick-Change System SWS

- Handling weight of up to 4,080 kg
- · 20 sizes 1 to 1,510
- Manifold electric energy and liquid transmission options
- Easy assembly via ISO flange or adapter plate

Changing

Quick-Change Module NSR-A 100

Robot Accessories

- · Handling weight 75 kg
- Manifold electric energy and liquid transmission options
- Very compact design for loading very close to the machine table and in confined spaces



Feeding through

Rotary Feed-through DDF 2

- 14 sizes from 31 to 160
- From 2 to 4 feed-throughs
- · Up to 10 electric feed-throughs
- · Easy assembly via ISO flange



Machining

Flexible deburring Spindle FDB

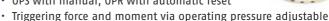
- · 4 sizes from 150 to 660
- Speed up to 65,000 rpm
- · Power consumption from 150 W to 660 W
- · Flexible and robot-controlled deburring of workpieces



Monitoring

Anti-Collision and Overload Protection Sensor OPS and OPR









Compensating

Compensation Unit AGE

- Variety in sizes for compensation in Z-, XY- or XYZ-direction
- Compensation distance XY up to ±14 mm, compensation distance Z up to ±14 mm
- · With centric locking and position storage
- · Easy assembly via ISO-flange

Tolerance Compensation Unit TCU

- 7 sizes from 50 to 200
- Direct mounting to a PGN-plus and PZN-plus
- · Rotary and lateral compensation tolerance around all axes
- With centric locking and monitoring

Measuring

Rigid Force-Moment-Sensor FT

- 16 sizes
- Measuring range: Moments up to ±6,000 Nm
- Measuring range: Forces up to ±40,000 N
- Communication: Ethernet, EtherCAT, Wireless, Ethernet / IP, ProfiNet, CAN, DAQ or RS232
- IP protection class: IP60, IP65 and IP68



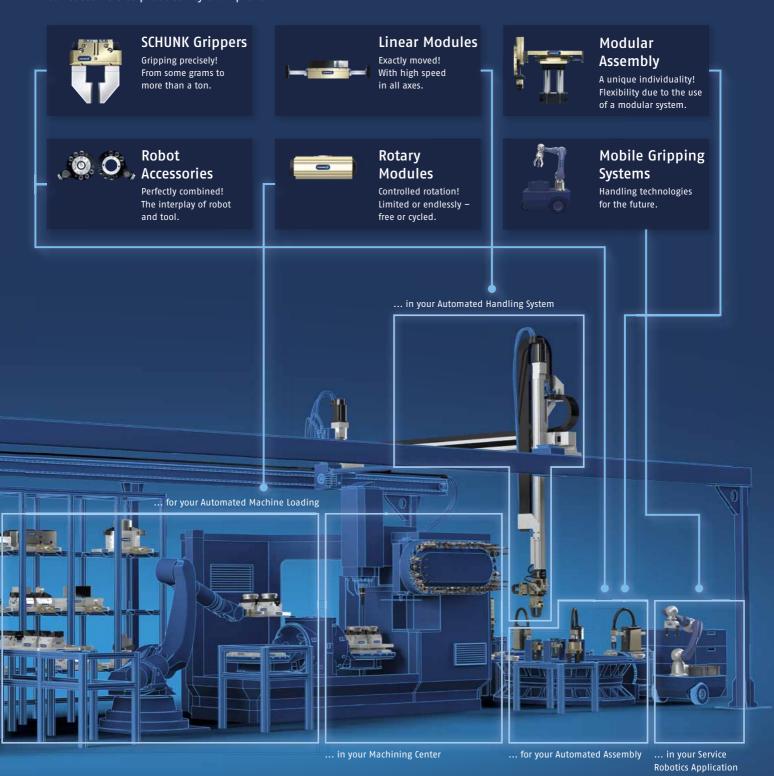






It is time to use your machine's full potential!

With superior components, we find potentials in your machine, where you would never expect to find them. SCHUNK Synergy – the perfectly matching interplay of clamping technology and gripping systems turns our customers to productivity champions.



Greifsysteme | *Gripping Systems*



Gesamtprogramm Greifsysteme Complete Program Gripping



Greifer Grippers



Drehmodule



Linearmodule Linear Modules



Roboterzubehör Robot Accessories



Produktübersicht Product Overview



Highlights Neuheiten | New Products



Mechatronik Mechatronics



Produktübersicht Linearmodule | Product Overview Linear Modules



Produktübersicht Roboterzubehör | Product Overview Robot Accessories

Spanntechnik | Clamping Technology



Gesamtprogramm Spanntechnik Complete Program Clamping



Werkzeughalter Toolholders



Stationäre Spanntechnik Stationary Workholding



Drehfutter Lathe Chucks



Spannbacken Chuck Jaws



Magnetspanntechnik Magnetic Clamping Technology

Tel.



Produktübersicht Product Overview



Kundenspezifische Lösungen Hydro-Dehnspanntechnik Hydraulic Expansion Technology Special Solutions



Vakuumspanntechnik Vacuum Clamping Technology



Highlights Neuheiten | New Products

Abteilung | Department Firma | Company Name | Name Straße | Street PLZ | ZIP Ort | City

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E-Mail

