



Superior Clamping and Gripping



New SCHUNK Products and Innovations

Gripping Systems
Depaneling Technology
Clamping Technology

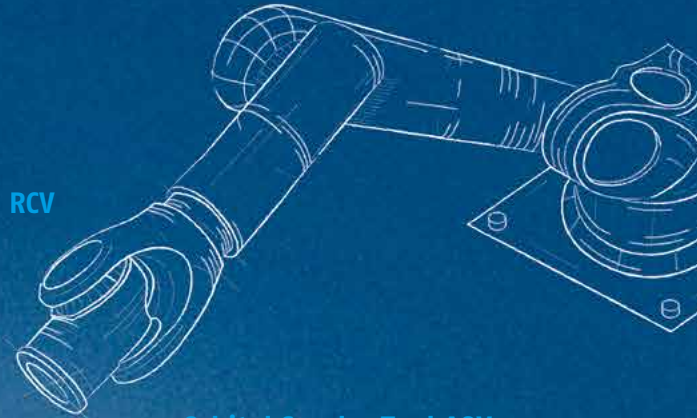
Ready for new tasks? So are we.

Our new tools make deburring, grinding and polishing with robots easy and uncomplicated to implement.



Deburring Spindle RCV

Pneumatic deburring spindle with vane motor and radial compensation for machining various workpieces and geometries.



Deburring Tool CDB

Compliant tool for high-precision deburring. Universal pick-up for using blades.



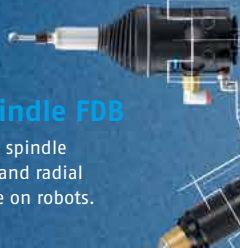
Deburring Tool CRT

Pneumatically driven file with radial compensation with standardized pick-up for the use of conventional files.



Deburring Spindle FDB

Pneumatic deburring spindle with turbine engine and radial compensation for use on robots.



Deburring Spindle FDB-AC

Pneumatic deburring spindle with axial compensation and conical cutting tool for use on robots.



Orbital Sander Tool AOV

Pneumatic orbital sander tool with axial compensation and adjustable contact force for polishing and grinding surfaces.



Polishing Spindle MFT-R

Pneumatic spindle with radial compensation for polishing, grinding and brushing workpieces.



Polishing Spindle MFT

Pneumatic spindle with axial compensation for polishing, grinding and brushing workpieces.



Compensation Unit PCFC

Pneumatically controlled compensation unit with position measurement for adjusting compliance and contact forces.



With the new SCHUNK tools, you can turn your robot into a specialist for deburring, grinding and polishing. Learn more about it: schunk.com/material-removal





Increased safety in automation planning

In the CoLab, the new application center at the SCHUNK location in Brackenheim-Hausen, customers can now test their automation solutions in a realistic environment on 800 square meters of space and have the solutions validated by SCHUNK experts. The focus is on new technologies and fields of application in particular.

CoLab



Grippers with ADHES0 technology – Adhesive grippers that require no energy source

The gripper solutions that are feasible with ADHES0 are as diverse as the applications themselves. By varying the material, topography and miniaturization, the gripper can be customized to the different requirements of your application.

SCHUNK offers four standardized ADHES0 gripper pad sizes with matching ISO flange adapter, which can already be used to implement a large number of gripper applications quickly and cost-effectively. On request, SCHUNK can also supply a customized ADHES0 gripping solution directly tailored to your application.

ADHES0



New SCHUNK Products and Innovations

Highlights at a Glance

ROTA THW3



Dirt tight quick-change chuck for small and medium-sized lot sizes

If you want to produce turned parts more efficiently, low-maintenance and fail-safe precision clamping devices are required. These can be quickly and easily converted, and, if necessary, can also be used for automatic loading. The SCHUNK ROTA THW3 jaw quick-change chuck and patented sealing of the chuck mechanism has been designed with this in mind.



eJAW



Individual chuck jaws delivered in two weeks

With the eJAW chuck jaw configurator, SCHUNK is adding the individuality component to its standard clamping jaw program. From selected standard variants, geometries can be adapted to customized and application-specific uses.



Content

	Page
SCHUNK Grippers for your Automation	6
Accessories for your Robot	12
Components for your Handling Tasks	20
Depaneling Machine: Your Machine for separating Circuit Boards	22
Lathe Chuck Technology for your Lathe	24
Components for your Machining Center	28



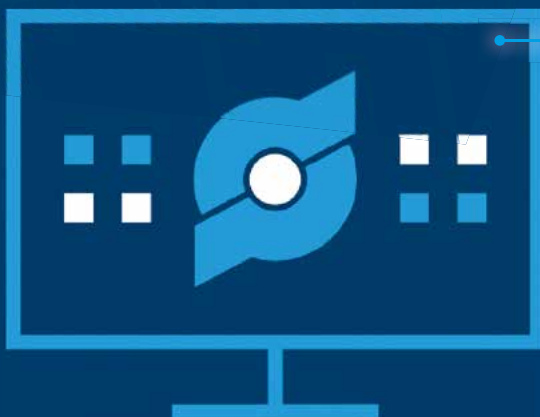
The proven quick-change pallet system – Now heat resistant up to +200 °C

Short set-up times and a high degree of productivity are ensured by the fully sealed quick-change pallet module SCHUNK VERO-S NSE-HT mini 88-20, which has been specially designed for high temperature applications.



Digital services for your SCHUNK components

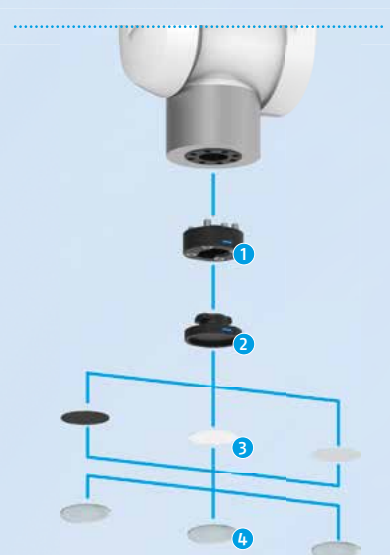
SCHUNK components and services are at the forefront of product digitalization. Digital services & tools make the use of SCHUNK components even easier and more efficient. They support users of SCHUNK products, facilitate design, ordering, commissioning and even provide support during ongoing operation.



ADHESO

Adhesive Grippers

The new gripping technology is bionically inspired and ensures energy-efficient gripping without residues



- 1 Robot adapter**
individually customized to different robots
- 2 Pad Backplate Adapter**
available in four standard sizes
- 3 Foam**
in different degrees of hardness to compensate for unevenness
- 4 Pad**
in different structure sizes for a wide range of applications



Sizes
3 .. 16



Weight
22 .. 55 g



Workpiece weight
3 .. 16 kg



Diameter
24 .. 56 mm



More at:
schunk.com/adheso

Technical data

Size	Pad diameter [mm]	Weight [g]	Max. workpiece weight [kg]	Change interval for pads
3	24	22	3	1.01 .. 1.5
5	32	30	5	1.01 .. 1.5
10	44	42	10	1.01 .. 1.5
16	56	55	16	1.01 .. 1.5

EGI Universal Gripper

The electric gripper with simple commissioning and most reliable gripping force maintenance on the market.



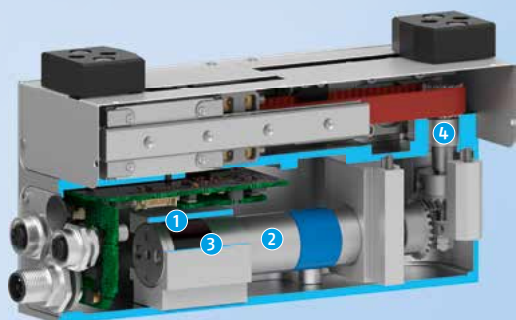
New: Available in new size 40 and with EtherNet/IP and EtherCAT interfaces



Gripping force control for delicate gripping of sensitive workpieces



Long and freely programmable stroke for flexible workpiece handling



1 Encoder

for position evaluation and gripper positioning

2 Drive

DC servomotor with planetary gears

3 Brake

for maintaining the gripping force and position in the event of standstill and power failure

4 Kinematics

Power transmission from the servomotor via bevel gear and synchronization via toothed belt



Sizes
40 .. 80



Weight
1.02 .. 1.55 kg



Gripping force
70 .. 100 N



Stroke per jaw
40 .. 57.5 mm



Workpiece weight
0.35 .. 0.5 kg



More at:
schunk.com/egi

Technical data

Size	Stroke per jaw [mm]	Min. gripping force [N]	Max. gripping force [N]	Max. permissible finger length [mm]	Recommended workpiece weight [kg]	Weight [kg]	Nominal voltage [V]
40	40	25	70	150	0.35	1.02	24
80	57.5	25	100	200	0.5	1.55	24

MPG-plus Gripper for Small Components

The most powerful pneumatic miniature parallel gripper on the market



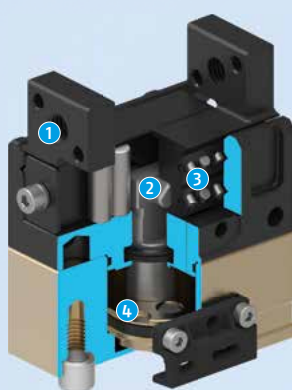
New: Precision version available for sizes 16, 20 and 64



Cross roller guide for precise gripping due to backlash-free base jaw guidance



Base jaws guided on double roller bearings ensuring low friction and smooth running



1 Base jaw

for the connection of workpiece-specific gripper fingers

2 Wedge-hook design

for high force transmission and centric gripping

3 Cross roller guidance

precise gripping through base jaw guidance with minimum play

4 Oval piston drive

for power generation



Sizes
10 .. 64



Weight
0.01 .. 0.63 kg



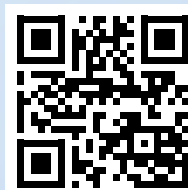
Gripping force
9 .. 370 N



Stroke per jaw
1 .. 10 mm



Workpiece weight
0.05 .. 1.25 kg



More at:
schunk.com/mpg-plus

Technical data

Size	Stroke per jaw [mm]	Closing force [N]	Opening force [N]	Recommended workpiece weight [kg]	Weight [kg]	Max. permissible finger length [mm]
10	1	9	7	0.05	0.01	10
12	1.2	10	8	0.05	0.01	12
16	1.5	29 .. 37	25 .. 32	0.14	0.022 .. 0.025	20
20	2	34 .. 42	30 .. 37	0.17	0.035 .. 0.042	25
25	3	38 .. 48	32 .. 41	0.19	0.06 .. 0.07	32
32	4	80 .. 105	70 .. 90	0.43	0.1 .. 0.13	40
40	6	135 .. 170	110 .. 135	0.7	0.18 .. 0.24	50
50	8	215 .. 265	195 .. 230	1.05	0.31 .. 0.38	64
64	10	300 .. 370	280 .. 335	1.25	0.53 .. 0.63	80

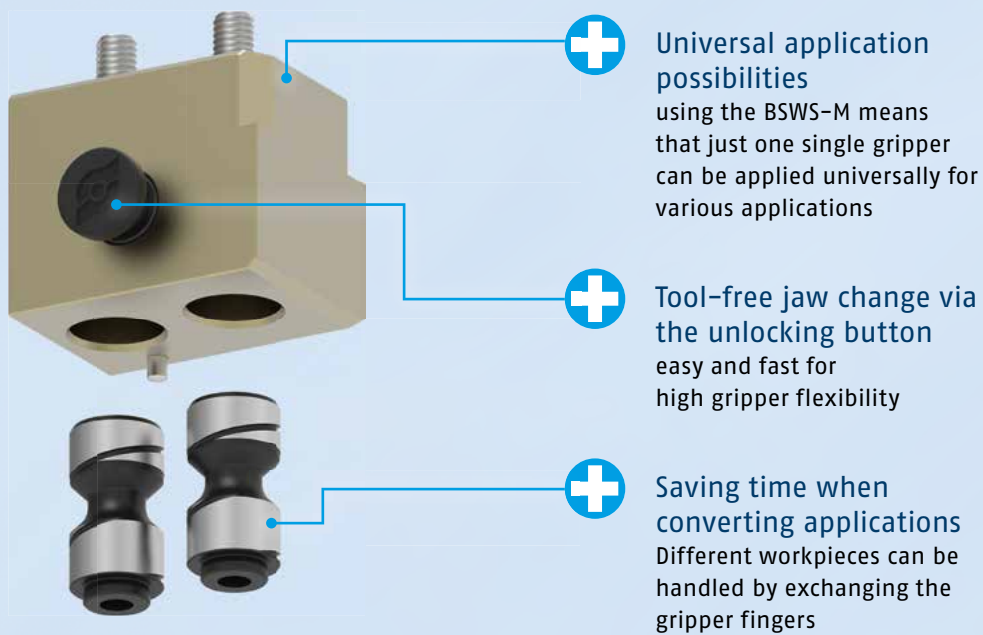
When handling plastic gears, the assembly process must be fast and accurate in positioning. Pneumatic and mechatronic SCHUNK Pick & Place units from the SCHUNK modular system for modular assembly come individually designed for use. As well as grippers for small components such as the SCHUNK MPG-plus.



BSWS-M

Jaw Quick-change System

The first jaw quick-change system with tool-free actuation on the market



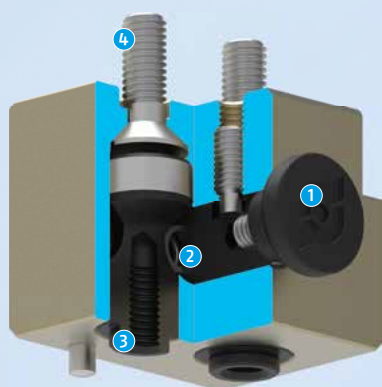
Sizes
50 .. 200

m

Weight
0.002 .. 1.67 kg



More at:
schunk.com/bsws-m



- ① Unlocking button
- ② Spring pre-loaded locking pin
- ③ Adapter pin BSWS-A for fastening the gripper finger to be exchanged
- ④ Screw connection for mounting on the gripper

Technical data

Base BSWS-BM	Weight [kg]	Adapter pin BSWS-A	Number of pins per ID
BSWS-BM 50	0.02	BSWS-A 50	2
BSWS-BM 64	0.04	BSWS-A 64	2
BSWS-BM 80	0.07	BSWS-A 80	2
BSWS-BM 100	0.13	BSWS-A 100	2
BSWS-BM 125	0.2	BSWS-A 125	2
BSWS-BM 160	0.42	BSWS-A 160	2
BSWS-BM 200	0.85	BSWS-A 200	2

Co-act EGP-C

Collaborating Gripper for Small Components

The world's first certified industrial gripper for collaborative operation



New: Now available for the FANUC CRX robot



Certified gripping unit saves time and effort when carrying out the safety review of the overall application



Plug & Work for a variety of different cobots



- ① Collision protective cover
- ② Gripper for small components EGP
- ③ LED light band for status display
- ④ Integrated sensor system to monitor jaw position



Sizes
25 .. 64



Weight
0.36 .. 1.38 kg



Gripping force
40 .. 230 N



Stroke per jaw
3 .. 10 mm



Workpiece weight
0.2 .. 1.15 kg



More at:
schunk.com/egp-c

Technical data

Size	Stroke per jaw [mm]	Min. gripping force [N]	Max. gripping force [N]	Recommended workpiece weight [kg]	Max. permissible finger length [mm]
25	3	20	40	0.2	32
40	6	35	140	0.7	50
50	8	54	215	1.05	64
64	10	65	230	1.15	80

AOV Orbital Sander Tool

The easiest to use orbital sander tool
for robotic use on the market



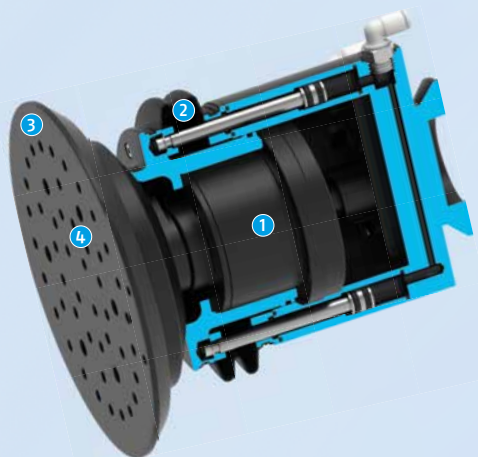
Compensation can be adjusted by means of a double-acting pneumatic cylinder for constant contact force independent of the orientation of the tool



Optional media change system for automated exchange of grinding or polishing wheels



Optional connection for suction for reduced contamination and susceptibility to faults



- ① Vane-type air motor for high torque and short stopping time
- ② Dust cover protects the bearing against contamination
- ③ Backer pad for adhesive grinding or polishing wheels
- ④ Bore holes for extraction of grinding and polishing dust



Size
10



Max. speed
10,000 RPM



Max. extension
compensation
force
66.7 N



Max. retraction
compensation
force
33.3 N



Compensation
path Z
12.7 mm



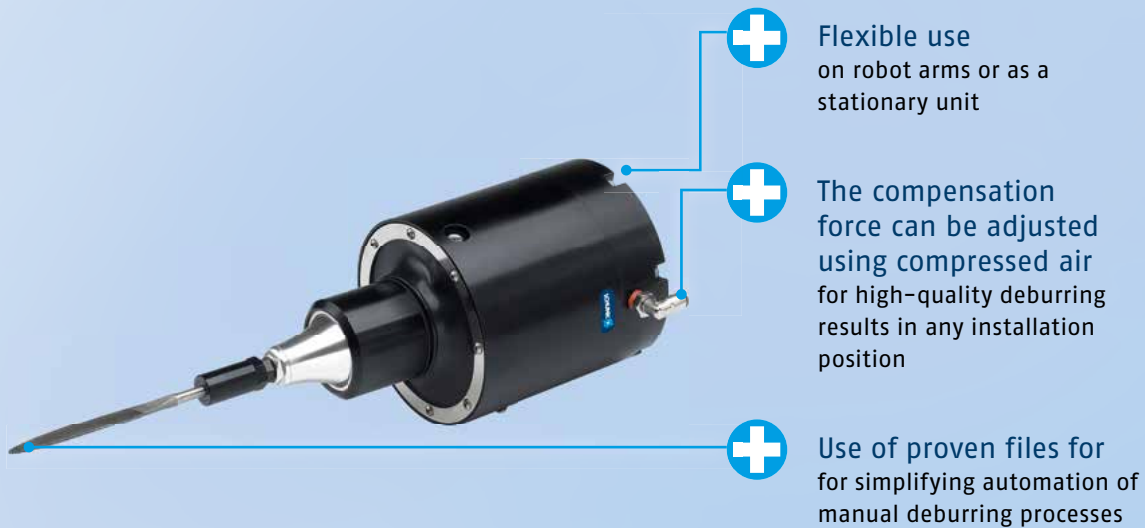
More at:
schunk.com/aov

Technical data

Size	Backer pad size	Compensation path Z [mm]	Min. extension compliance force [N]	Max. extension compliance force [N]	Idle speed [RPM]	Weight [kg]
10	125 mm (5") .. 150 mm (6")	12.7	13.3	66.7	10000	2.68

CRT File Tool

Flexible, pneumatic deburring tool for narrow and tight workpiece geometries



Size
12



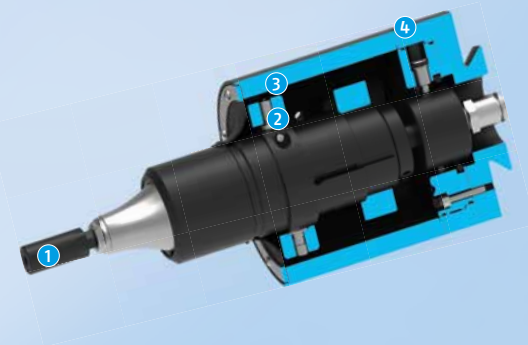
File stroke
5 mm



Idle speed
12,000 RPM



Compensation
angle, radial
 $\pm 1.8^\circ$



- ① Tool holder for files
- ② Gimballed system for a robust compensation function
- ③ Locking function for y-axis for an oscillating compensation in the x-axis
- ④ Air connection for adjusting the compensation force



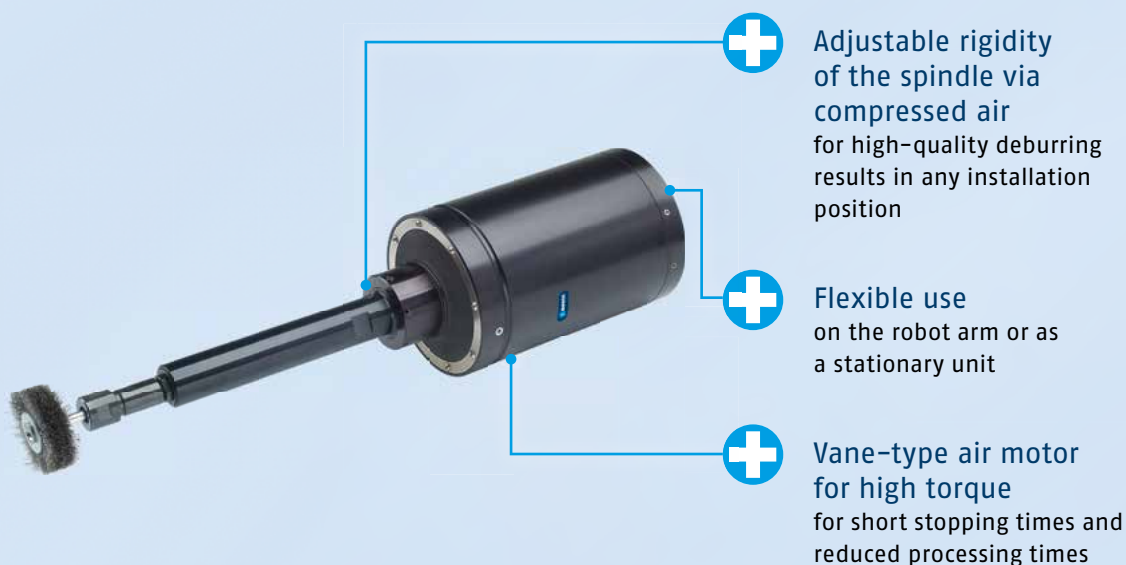
More at:
schunk.com/crt

Technical data

Size	Max. com- pensation path X [mm]	Max. com- pensation path Y [mm]	Min. radial compensation force [N]	Max. radial compensation force [N]	Stroke [mm]	Idle speed [RPM]	Weight [kg]
12	8	8	18	62	5	12000	3.08

MFT-R Deburring Spindle

The most robust polishing spindle with radial compensation on the market



Size
490



Max. speed
5,600 RPM



Power
390 W



Compensation
angle, radial
 $\pm 1.6^\circ$



- 1** Vane-type air motor
for a high torque and
a short stopping time
- 2** Gimballed system
for a robust compensation function
- 3** Air connection
for adjusting the compliance force
- 4** Tool holder
for DA collet chucks



More at:
schunk.com/mft-r

Technical data

Size	Power [W]	Idle speed [RPM]	Max. com- pensation path X [mm]	Max. com- pensation path Y [mm]	Min. radial com- pensation force [N]	Max. radial com- pensation force [N]	Tool holder	Weight [kg]
490	390	5600	7.1	7.1	9.4	70	Collet chuck DA 6 mm and 8 mm	4.42

PCFC Compensation Unit

Universally applicable compensation unit with integrated path measuring system for a constant contact force in any position.



Adjustable compensation by means of a double-acting pneumatic cylinder for a constant contact force



Integrated path measuring system for monitoring and control of the process



Integrated weight force compensation for constant contact forces independent of tool orientation, especially in robot-guided applications



Size
12



Compensation path Z
12 mm



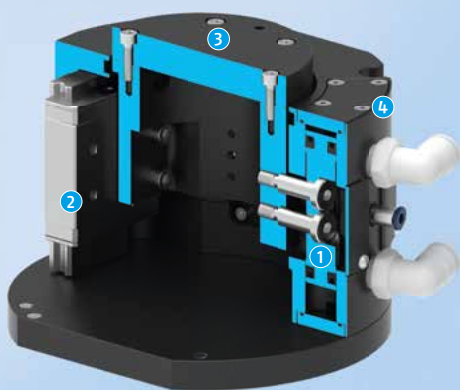
Max. extension compensation force
85 .. 240 N



Max. retraction compensation force
18 .. 49 N



More at:
schunk.com/pcfc



① Piston

② Linear guidance

③ Fastening
for tool provided by customer

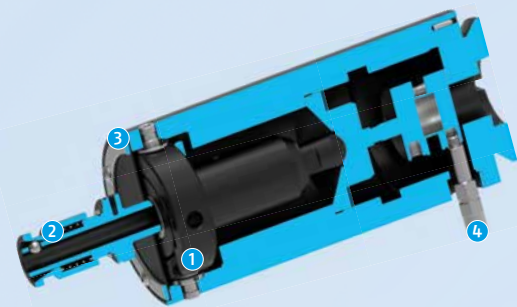
④ Integrated path measuring system

Technical data

Size	Compensation path Z [mm]	Min. compensation force [N]	Max. compensation force [N]	Weight [kg]
12	12	18 .. 49	85 .. 240	3,54 .. 3,63

CDB Deburring Tool

The world's only compliant tool for robot-guided deburring with conventional deburring tools



- 1** Gimballed system for robust and flexible absorption of forces and torques
- 2** Tool holder for simple and fast exchange of deburring tools
- 3** Locking function for y-axis for an oscillating compensation in the x-axis
- 4** Air connection for adjusting the contact pressure to the workpiece



Size
8



Max. radial
compensation
force
76 N



Max. axial
compensation
force
67 N



Compensation
path Z
8 mm



Compensation
angle, radial
 $\pm 5.5^\circ$



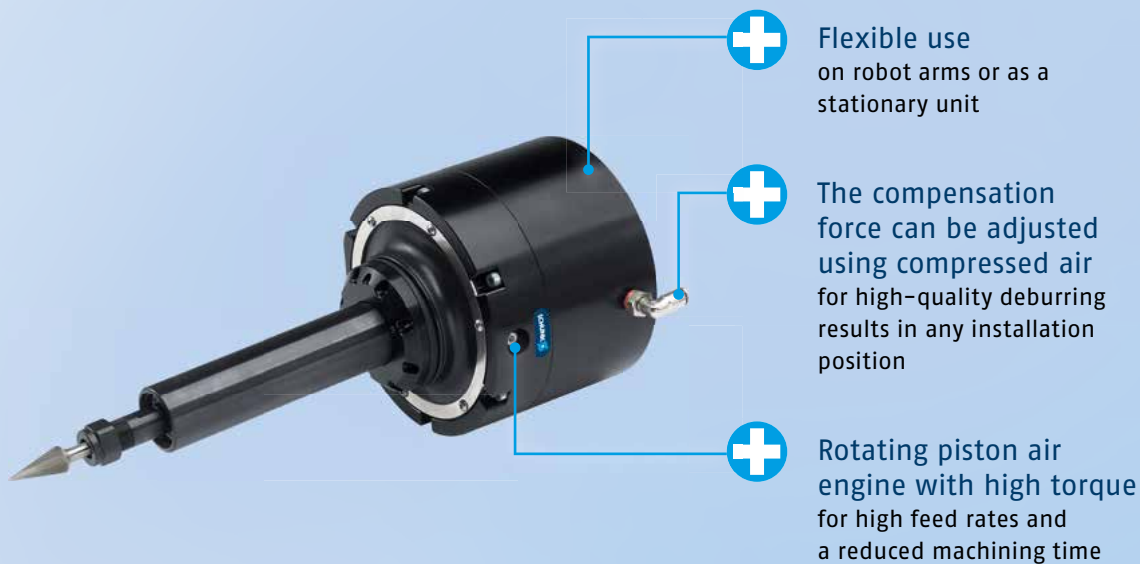
More at:
schunk.com/cdb

Technical data

Size	Max. compensation angle X/Y [°]	Compensation path Z [mm]	Weight [kg]	Max. radial compensation force [N]	Max. axial compensation force [N]
8	5.5	8	1.04 .. 1.09	76	67

RCV Deburring Spindle

The most robust and fastest to maintain deburring spindle on the market.



Sizes
250 .. 490

n
Max. Speed
30,000 .. 40,000 RPM

W
Power
250 .. 490 W

α
Compensation angle, radial
±3°



- ① Vane-type air motor for a high torque and a short stopping time
- ② Gimballed system for a robust compensation function
- ③ Air connection for adjusting the compliance force
- ④ Tool holder for ER-11 collet chucks



More at:
schunk.com/rcv

Technical data

Size	Power [W]	Idle speed [RPM]	Max. com- pensation path X [mm]	Max. com- pensation path Y [mm]	Min. radial compensation force [N]	Max. radial compensation force [N]	Tool holder	Weight [kg]
250	250	40000	7.1	7.1	9	54	Collet chuck ER-11 6 mm and 8 mm	1.71
490	490	30000	8.3	8.3	7	53	Collet chuck ER-11 6 mm and 8 mm	3.36

Plug & Work Portfolio for Techman Robot

The most comprehensive product portfolio
for all Techman Robot models on the market



Comprehensive portfolio
consisting of various
components and
grippers for different
applications
for a fast and easy entry into
automation



Plug & Work
with the interfaces suitable
for all Techman Robots



Installation modules
for robot control are
included in the scope of
delivery
for fast and easy
commissioning



m

Weight
0.14 .. 2 kg

F

Gripping force
100 .. 870 N

S

Stroke per jaw
6 .. 40 mm

m

Workpiece weight
0.5 .. 11 kg



- 1 Co-act grippers
for implementing collaborative
applications
- 2 Electric grippers
for flexible handling of workpieces
- 3 Pneumatic grippers
For conventional, robust handling of
workpieces
- 4 Change systems
for manual exchange of different grippers
and actuators



More at:
[schunk.com/
techman-portfolio](https://schunk.com/techman-portfolio)

Technical data

Description	Stroke per jaw [mm]	Max. gripping force [N]	Weight [kg]	Recommended workpiece weight [kg]
Co-act gripper	6 .. 10	140 .. 230	0.6 .. 1.38	0.7 .. 1.15
Electric gripper	6 .. 40	100 .. 140	0.8 .. 1.06	0.5 .. 0.7
Pneumatic gripper	6 .. 40	175 .. 870	1.37 .. 2	0.9 .. 4.35
Change systems			0.14 .. 0.5	11

Plug & Work Portfolio for Doosan Robotics

The most comprehensive portfolio for all
Doosan Robotics models on the market

+ Comprehensive portfolio
consisting of various
components and
grippers for different
applications
for fast and easy entry into
automation

+ Plug & Work
with the interfaces
suitable for all robots
from Doosan Robotics

+ Installation modules
for robot control system
are included in the
scope of delivery for
fast and easy commissioning



m

Weight
0.14 .. 1.84 kg

F

Gripping force
140 .. 870 N

S

Stroke per jaw
6 .. 40 mm

m

Workpiece weight
0.7 .. 11 kg



- 1 Co-act grippers
for implementing collaborative
applications
- 2 Electric grippers
for flexible handling of workpieces
- 3 Pneumatic grippers
for conventional, robust handling of
workpieces
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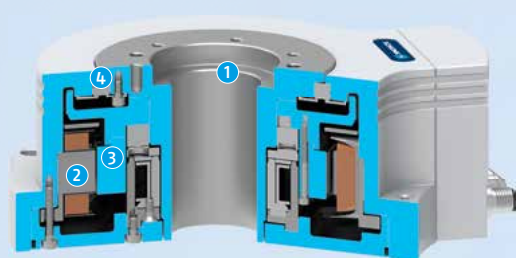
More at:
[schunk.com/
doosan-portfolio](https://schunk.com/doosan-portfolio)

Technical data

Description	Stroke per jaw [mm]	Max. gripping force [N]	Weight [kg]	Recommended workpiece weight [kg]
Co-act gripper	6	140	0.6	0.7
Electric gripper	6	140	0.8	0.7
Pneumatic gripper	6 .. 40	175 .. 870	1.22 .. 1.84	0.9 .. 4.35
Change systems			0.14 .. 0.35	11

ERT Universal Rotary Unit

The flattest rotary unit with absolute encoder and electric brake on the market



Sizes
12 .. 300



Weight
2.4 .. 25.2 kg



Torque
1.4 .. 32 Nm



Repeat accuracy
 $\pm 0.01^\circ$



Angle of rotation
> 360°



More at:
schunk.com/ert

Technical data

Size	Nominal torque [Nm]	Peak torque [Nm]	Max. permissible mass moment of inertia [kgm²]	Repeat accuracy [°]	Weight [kg]
12	1.4 .. 1.52	4.17	0.07	0.01	2.4 .. 2.85
50	7.04 .. 7.8	20.1	0.39	0.01	5.74 .. 6.84
300	31 .. 32	76	5.53	0.01	19.5 .. 25.2

SRH-plus-D Universal Swivel Head

The only swivel head with integrated electric rotary feed-through for automated machine loading



Complete module with integrated fluid and electric feed-through eliminating unnecessary interfering contours



High damper performance due to the use of hydraulic shock absorbers resulting in a significant reduction of wear and shorter loading times



Pre-assembled mounting kit for direct mounting of the inductive proximity switches



- 1 Output side for fastening end actuators such as grippers
- 2 MDF media feed-through guided up to the screw-on surfaces of the swivel head
- 3 EDF electrical feed-through completely integrated for sensor, actuator signal, and energy transmission
- 4 Rack and pinion drive for powerful swiveling and a robust and reliable module



Sizes
20 .. 60

m

Weight
2.2 .. 21.2 kg



Torque
3 .. 69.9 Nm



Repeat accuracy
0.05°



Angle of rotation
180°



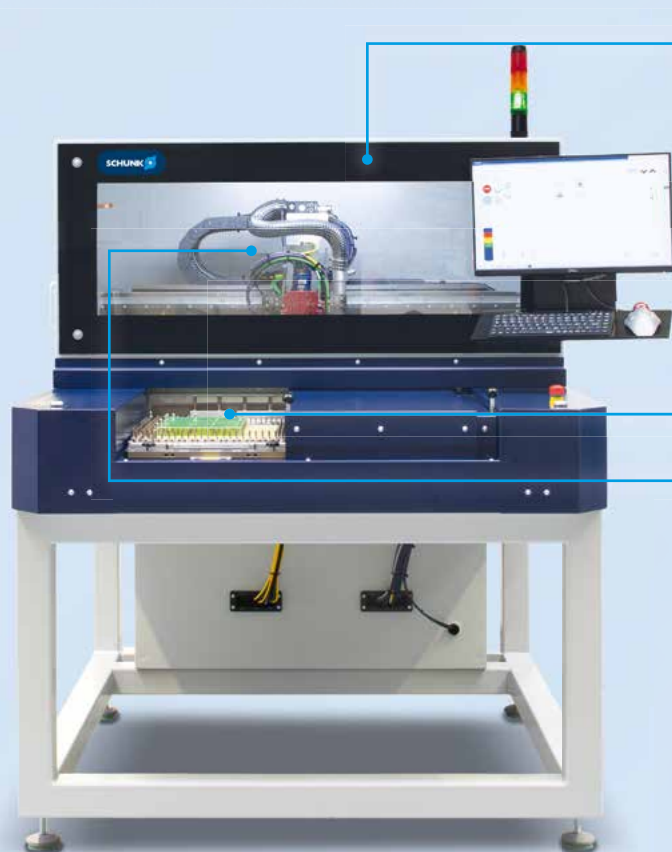
More at:
schunk.com/srh-plus-d

Technical data

Size	Angle of rotation [°]	Torque [Nm]	Weight [kg]	Repeat accuracy [°]
20	180	3	2.2	0.05
25	180	4.6	2.6	0.05
30	180	9.5	4.5	0.05
35	180	13.3	4.3	0.05
40	180	19.1	6.9	0.05
50	180	50.2	17.6	0.05
60	180	69.9	21.2	0.05

SAR-Compact Stand-alone Depaneling Machine

The economical depaneling machine with simple operation



Economical and efficient
low investment,
high productivity and
small footprint



Versatile and productive
modular design,
flexible workpiece carriers
and connectivity to MES
systems



Robust, reliable and precise
high milling accuracy and
availability



Speed of axes
up to
1,000 mm/s



Milling area
430 x 350 mm



**Repeat and
positioning
accuracy**
 ± 0.02 mm



Milling accuracy
 ± 0.01 mm



More at:
[schunk.com/
depaneling-machines](https://schunk.com/depaneling-machines)

Technical data

Length/Width/Height [mm]	Operator height [mm]	X-, Y- Linear motor axes [mm/s]	Z-axis Linear motor axes [mm/s]	Repeat accuracy/ positioning accuracy [mm]	Milling accuracy without vision system [mm]	Milling accuracy with vision system [mm]	Max. panel size X- and Y-direction [mm]
1300/1607/1642	894	1000	1000	$\pm 0.02/\pm 0.02$	± 0.15	± 0.10	430 x 350



In the basic version, the depaneling machine is configured with a shuttle. However, the machine can be upgraded with a second shuttle to avoid dead times and achieve the highest possible output.



The basic configuration consists of a milling spindle module. An optional upgrade could include the milling head with a vision system or scanner.

ROTA THW3

Jaw Quick-change Chuck

Completely sealed jaw quick-change chuck with permanent lubrication for constantly high clamping forces



Jaw quick-change system
for a jaw change in less than 60 seconds



Sealed power lathe chuck
for up to 20 times longer maintenance intervals and optimal protection of the chuck kinematics



Consistently high clamping force
due to permanent grease lubrication



- 1 Wedge hook drive in ring piston design offers high run-out accuracy over the entire speed range
- 2 Patented sealing system for constantly high clamping forces
- 3 Jaw quick-change system shortest conversion times due to individual unlocking of jaws
- 4 Base jaw with straight serration (GBK) compatible with ROTA THW plus, ROTA THW, ROTA-G and the "R" (Reishauer) system



More at:
schunk.com/rota-thw3



Sizes
200 .. 630 mm



Max. clamping force
64 .. 240 kN



Stroke per jaw
6.7 .. 10.5 mm



Max. speed
1,700 .. 6,000 RPM



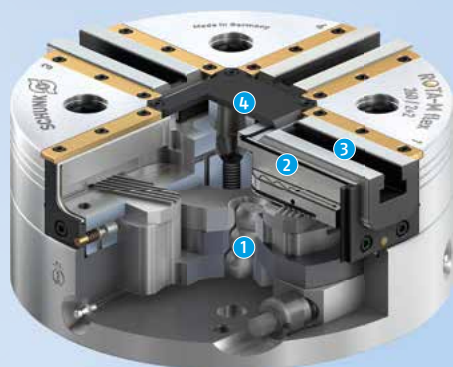
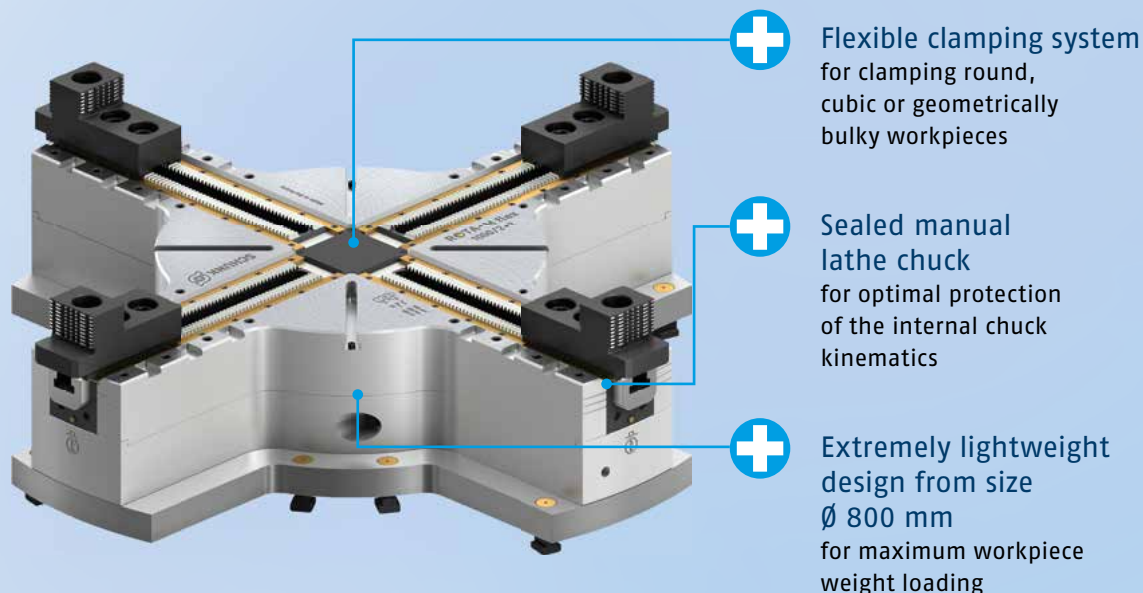
Through-hole
52 .. 165 mm

Technical data

Size	Max. speed [RPM]	Max. clamping force [kN]	Max. actuating force [kN]	Stroke/jaw [mm]	Piston stroke [mm]	Through-hole [mm]
ROTA THW3 200-52	6000	64	35	6.7	17.5	52
ROTA THW3 225-66	5400	82	41	7.4	21	66
ROTA THW3 265-81	4000	115	59	8.2	24	81
ROTA THW3 315-104	3600	150	80	8.6	25	104
ROTA THW3 400-128	3000	240	128	8.6	25	128
ROTA THW3 500-165	2200	240	128	10.5	30	165
ROTA THW3 630-165	1700	240	128	10.5	30	165

ROTA-M flex 2+2 Compensation Chucks

Sealed 2+2 jaw chuck with large compensation stroke allows maximum flexibility on mill/turn machines



More at:
schunk.com/rota-m-flex-2+2

Sizes
260 .. 1,200 mm

F
Max. clamping force
100 .. 180 kN

S
Stroke per jaw
9.5 .. 17.8 mm

±
Compensating stroke per jaw
5.1 .. 10 mm

n
Max. speed
600 .. 2,700 RPM

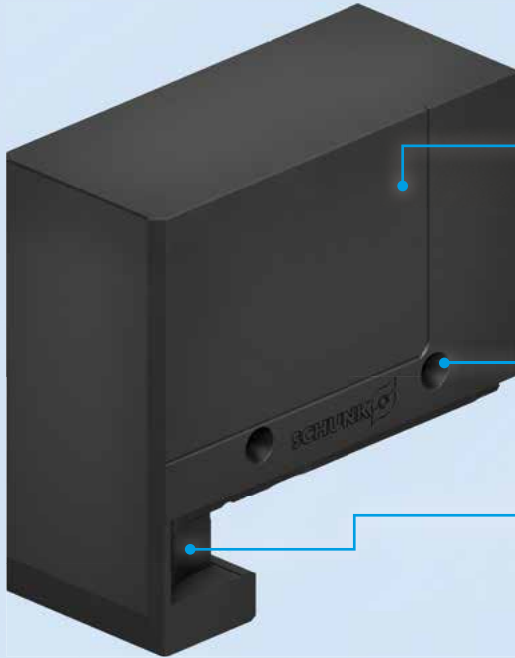
Technical data

Size	Max. speed [RPM]	Max. clamping force [kN]	Max. torque [Nm]	Stroke/jaw [mm]	Compensation stroke/jaw [mm]
ROTA-M flex 2+2 260	2700	100	120	9.5	5.1
ROTA-M flex 2+2 315	2200	100	120	9.5	5.1
ROTA-M flex 2+2 400	1500	150	200	14.5	7.9
ROTA-M flex 2+2 500	1100	180	250	17.8	10
ROTA-M flex 2+2 630	950	180	250	17.8	10
ROTA-M flex 2+2 800	800	180	250	17.8	10
ROTA-M flex 2+2 1000	700	180	250	17.8	10
ROTA-M flex 2+2 1200	600	180	250	17.8	10

RAPIDO

Jaw Quick-change System

Fully automatable, tool-free
jaw quick-change



Significantly reduced
set-up time
due to tool-free change of
three chuck jaws in less than
60 seconds



Fully automatable
Jaw change can be fully
automated by robot



Double locking
for maximum security even
in unclamped condition



Sizes
210 .. 400



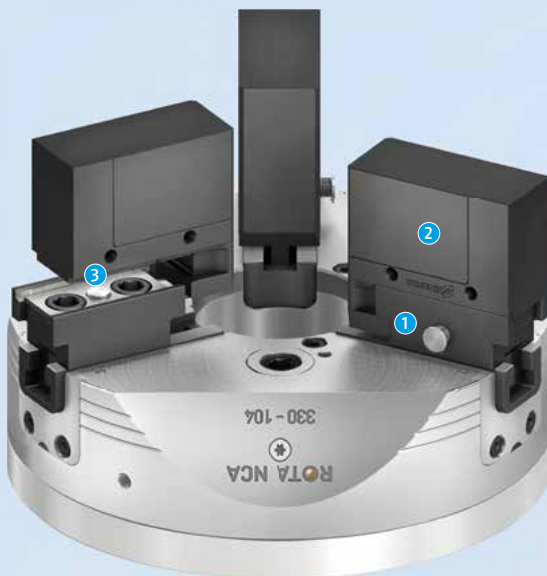
Max. speed
1,700 .. 3,200
RPM



Max. clamping
force
80 .. 185 kN



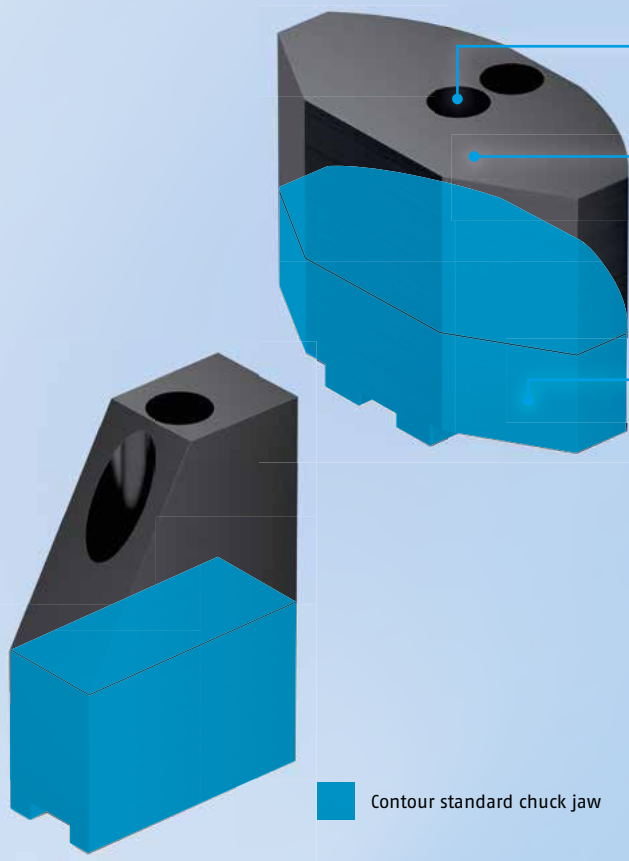
More at:
schunk.com/rapido



- ① Supporting jaw
available in inch and metric fine serration
- ② Clamping insert
individual clamping contours available at
short notice due to an extensive jaw blank
concept
- ③ Lock bolts
tool-free change, put on chuck jaw, push
backwards, done

eJAW Chuck Jaw Configuration

Individual chuck jaws
delivered in two weeks



Contour standard chuck jaw



Flexible configuration
of soft top jaws, monoblock jaws,
full grip jaws and claw jaws



Geometries of the chuck jaws can be
individually adjusted
derived from the respective standard variant

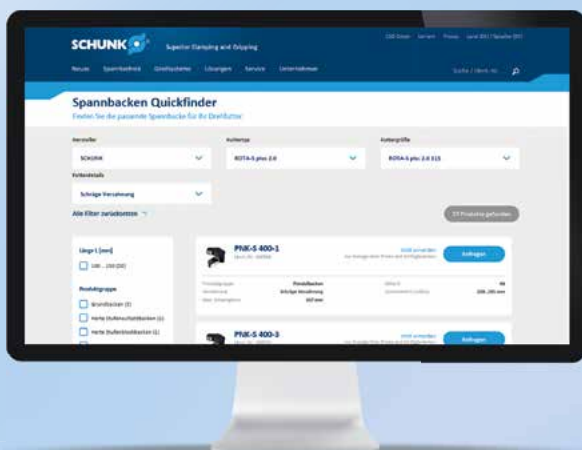


The simplest inquiry and ordering process
in three steps

1. Send customer inquiry to
sonderbacken@de.schunk.com
2. Offer on request with approval drawing
3. Production and delivery

Chuck Jaw Quickfinder

You are just a few clicks away from suitable standard chuck jaws



The standard chuck jaw range from
SCHUNK comprises 1,200 different
jaw types.

The quickfinder gives you an
overview of the chuck jaws that
are suitable for your lathe chuck,
including accessory products,
in a matter of seconds.



More at:
[schunk.com/
chuck-jaw-quickfinder](https://schunk.com/chuck-jaw-quickfinder)

VERO-S NSE-HT mini Quick-change Pallet Systems

Precise clamping technology optimized for
maximum temperatures



Heat resistant
up to +200 °C
No cooling necessary for
unlocking



**Excellent thermal
conductivity**
low loss in temperature from
the heater plate to the
workpiece, to the device or
to the substrate plate



**Suitable for operation
with inert gas**
Inert gas supply of AM
machines can be used



- 1 High-precision short taper centering
ensures micrometer-precise connections
- 2 Wedge-hook drive
high pull-down forces are ensured between the
piston and the clamping slide
- 3 Completely sealed system
for adequate protection of the clamping
module against extremely fine metal powders
with SLM applications
- 4 Locking screw
is used for complete closure of the clamping
slide bore hole



Size
88 mm



Pull-down force
500 .. 2,500 N



**Holding force
clamping pin**
15 .. 25 kN



**Max. actuation
temperature**
200 °C



Repeat accuracy
< 0.005 mm



More at:
schunk.com/vero-s-nse-ht

Technical data

Size	Pull-down force [N]	Pull-down force with Turbo [N]	Unlocking pressure [bar]	Max. actuation temperature [°C]	Repeat accuracy [mm]
NSE-HT mini 88-20	500	2500	6	200	0.005
NSE-HT mini 88-20-V1	500	2500	6	200	0.005

TANDEM® PGS3 Lean Clamping Force Blocks

Perfection and reliability for a start in simple, automated machine loading



Base body made of light aluminum perfectly suited for easy machining and simple automation



Ready for immediate use due to lateral air connections on the clamping force block



Integrated base plate direct mounting on T-slot tables as well as VERO-S clamping modules with anti-twist protection



Sizes
100 .. 140 mm



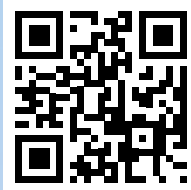
Number of versions
4



Clamping force
4.5 .. 17 kN



Stroke per jaw
2 .. 7 mm



More at:
schunk.com/pgs3



- 1 Wedge hook drive
depending on stroke version for
standard stroke or long stroke
- 2 Integrated base plate
for quick mounting on T-slot tables or
VERO-S clamping modules
- 3 Jaw interface with
tongue and groove
for use of standard chuck jaws
from SCHUNK
- 4 Simple lateral control
for quick and easy commissioning

KONTEC KSX-C2

5-axis Vise

5-axis vise with jaw quick-change and active jaw pull-down for precise machining of the sixth side



Active jaw pull-down optionally allows complete and precise machining of the sixth side



Jaw quick-change without any tools adjustment to new clamping tasks within seconds



Adjustable clamping center small and large workpieces are always clamped centrally



- 1 Jaw quick-change system system jaws can be exchanged in seconds, completely without tools
- 2 Jaw pull-down mechanism for the most accurate clamping of pre-machined workpieces
- 3 Completely encapsulated spindle offers optimal protection against coolant and chips
- 4 Two heights are available 214 mm as well as 175 mm (including jaws) for optimal accessibility of the machine spindle



Size
125 mm



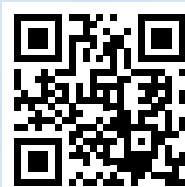
Component
lengths
330 .. 800 mm



Max. clamping
force
40 kN



Max. torque
120 Nm



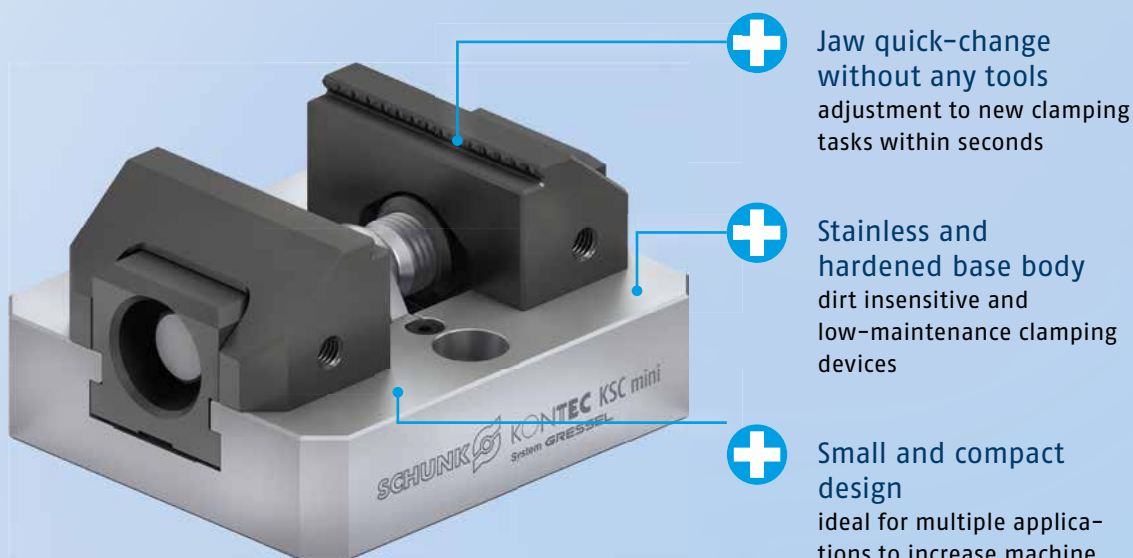
More at:
schunk.com/ksx-c2

Technical data

Size	Width of the clamping vise [mm]	Vise length [mm]	Max. clamping force [kN]	Max. torque [Nm]	Basic clamping stroke [mm]
KSX-C2 125-330	125	330	40	120	130
KSX-C2 125-430	125	430	40	120	130
KSX-C2 125-500	125	500	40	120	130
KSX-C2 125-630	125	630	40	120	130
KSX-C2 125-800	125	800	40	120	130

KONTEC KSC mini Small Parts Vise

Precise small parts vise with a high clamping force



- 1** Jaw quick-change system
system jaws can be exchanged in seconds, completely without tools
- 2** Spindle drive
for maximum clamping forces
- 3** Quick-change jaws
in jaw widths 45 and 70 mm, which can be used on all sizes
- 4** Diverse applications
for first and second-side machining



Size
70 mm



Component
lengths
80 .. 100 mm



Max. clamping
force
16 kN



Max. torque
50 Nm



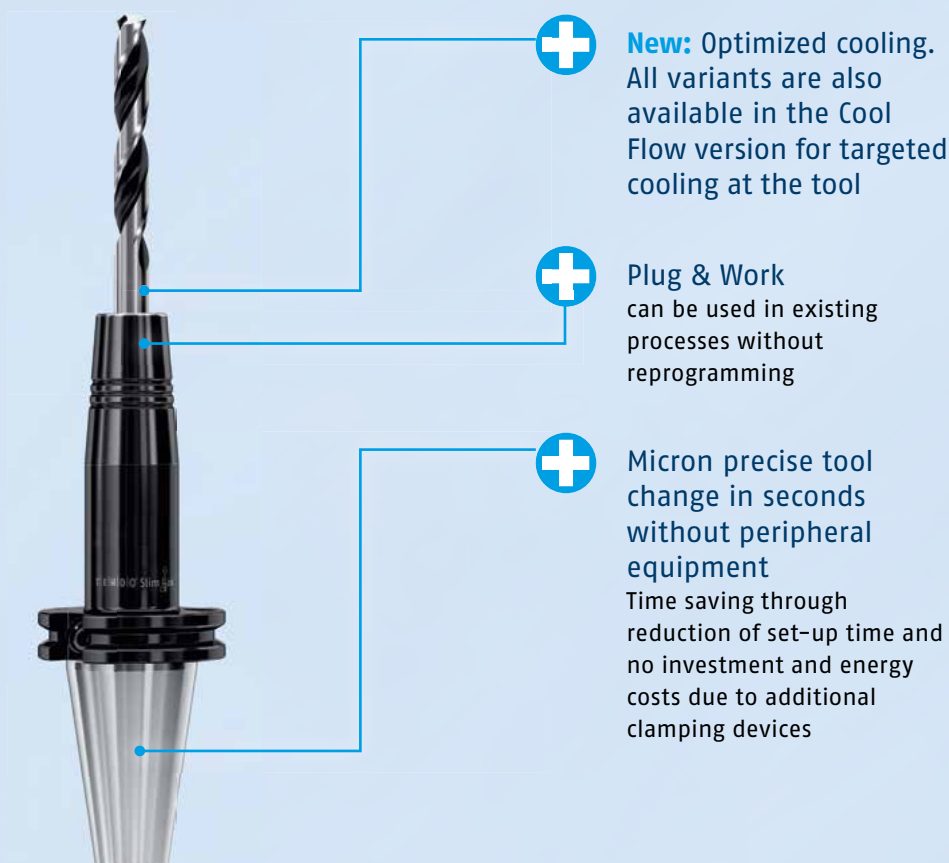
More at:
schunk.com/ksc-mini

Technical data

Size	Width of the clamping vise [mm]	Vise length [mm]	Max. clamping force [kN]	Max. torque [Nm]
KSC mini 70-80	70	80	16	50
KSC mini 70-100	70	100	16	50

TENDO® Slim 4ax Hydraulic Expansion Toolholder

The world's first hydraulic expansion toolholder
in standardized heat shrinking contour



New: Optimized cooling.
All variants are also
available in the Cool
Flow version for targeted
cooling at the tool



Plug & Work
can be used in existing
processes without
reprogramming



**Micron precise tool
change in seconds
without peripheral
equipment**
Time saving through
reduction of set-up time and
no investment and energy
costs due to additional
clamping devices



Sizes
NEW: CAT 40,
BT 40,
HSK-A 100
All sizes are
also available
in the Cool
Flow version



Diameter
6 .. 20 mm



Max. torque
16 .. 330 Nm



Max. speed
30.000 ..
50.000
RPM



1 Chamber system

When the chamber system is filled with hydraulic fluid, it has a damping effect on the clamped tool.

2 Expansion sleeve

The expansion sleeve evenly expands against the tool shank. The tool shank is centered and then clamped powerfully and uniformly across the entire surface during this clamping process.

3 Base body

The machine-side interface is located on the base body.

4 Length adjustment screw

for fast and easy tool presetting.



More at:
schunk.com/tendo-slim-4ax

ER Precision Collet Chuck

Run-out accuracy up to 3 µm



**High performance
clamping nut**
up to 25,000 RPM



**Precise
Run-out accuracy**
< 3 µm in combination with
ER precision collet chucks



High clamping force
twice as high tool clamping
force compared to ER collet
chuck holder

The perfect combination for maximum precision:



ER precision collet chuck



Roller wrench



Sizes
CAT 40
HSK-A 63
HSK-A 100
SK 40
SK 50
JIS-BT 30
JIS-BT 40
JIS-BT 50



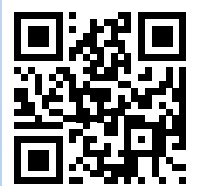
Clamping range
ER 16 (1-10 mm)
ER 25 (1-16 mm)
ER 32 (2-20 mm)
ER 40 (4-26 mm)



Scope of delivery
Delivery
includes ER
clamping nut



Run-out accuracy
≤ 0.003 mm



More at:
schunk.com/er-p



Headquarters Lauffen/Neckar

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
schunk.com



Plant Brackenheim-Hausen

SCHUNK GmbH & Co. KG
Spann- und Greiftechnik
Robert-Bosch-Str. 12
D-74336 Brackenheim-Hausen
Tel. +49-7133-103-0
Fax +49-7133-103-2399
info@de.schunk.com
schunk.com



Plant Mengen

H.-D. SCHUNK GmbH & Co.
Spanntechnik KG
Lothringer Str. 23
D-88512 Mengen
Tel. +49-7572-7614-0
Fax +49-7572-7614-1039
customercentermengen@de.schunk.com
schunk.com



Plant St. Georgen

SCHUNK Electronic Solutions GmbH
Am Tannwald 17
D-78112 St. Georgen
Tel. +49-7725-9166-0
Fax +49-7725-9166-5055
electronic-solutions@de.schunk.com
schunk.com



Plant Huglfing

SCHUNK Montageautomation GmbH
Auwiese 16
D-82386 Huglfing
Member of SCHUNK Lauffen
Tel. +49-8802-9070-30
Fax +49-8802-9070-340
info@de.schunk.com
schunk.com



Plant Winkler Lauffen/Neckar

Winkler Präzisionswerkzeuge GmbH
Im Brühl 64
D-74348 Lauffen/Neckar
Member of SCHUNK Lauffen
Tel. +49-7133-97440-0
Fax +49-7133-97440-99
post@winkler-gmbh.de
schunk.com



Plant Eberhardt Cleebronn

Eberhardt GmbH & Co. KG
Maybachstr. 2
D-74389 Cleebronn
Member of SCHUNK Lauffen
Tel. +49-7135-9862-0
Fax +49-7135-9862-299
info@eberhardt-stanztechnik.com
schunk.com



Plant Morrisville/North Carolina, USA

SCHUNK Intec Inc.
211 Kitty Hawk Drive
Morrisville, NC 27560, USA
Tel. +1-919-572-2705
info@us.schunk.com
schunk.com



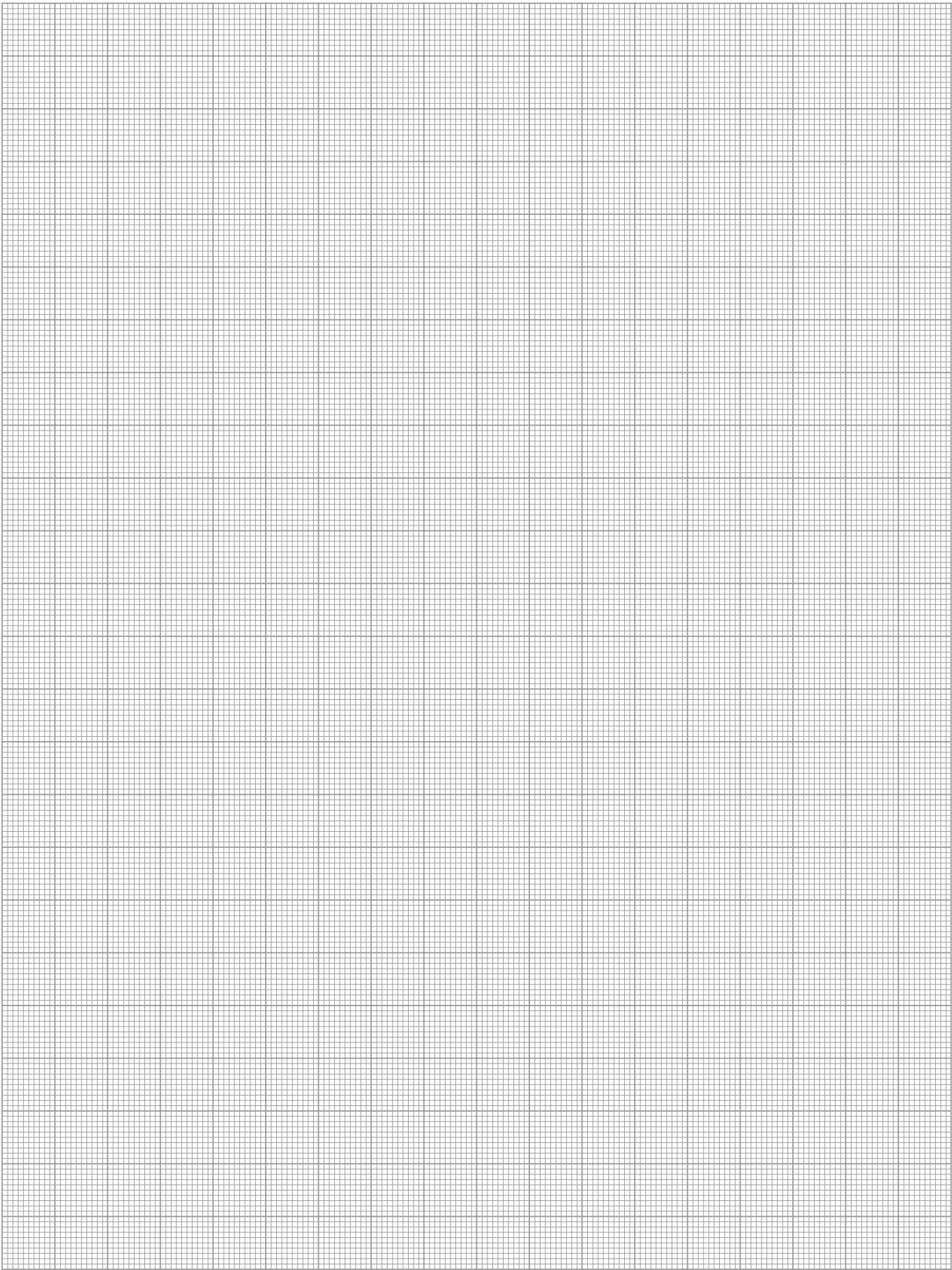
Plant Aadorf, Switzerland

GRESSEL AG
Schützenstr. 25
CH-8355 Aadorf
Tel. +41-52-368-16-16
Fax +41-52-368-16-17



Plant Caravaggio, Italy

S.P.D. S.p.A.
Via Galileo Galilei 2/4
IT-24043 Caravaggio (BG)
Tel. +39-0363-546511
Fax +39-0363-52578



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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
schunk.com

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