



KONTEC KSG

**Modular designed machine
vise**

Power-amplified single-acting vise with unique quick lever clamping and continuously adjustable clamping force

KONTEC KSG are modular machine vises with unique, patented quick lever clamping and continuously adjustable clamping force. Thanks to a wide range of systems and top jaws, the vise can be adapted to any clamping task. Workpieces are clamped under tension within seconds thanks to the quick lever clamping, which also prevents bending of the base body. Thanks to the interface for quick-change pallet system, the machine vise can be optimally combined with the large NSE3 and GFD modular system to greatly reduce set-up times on machine tools.

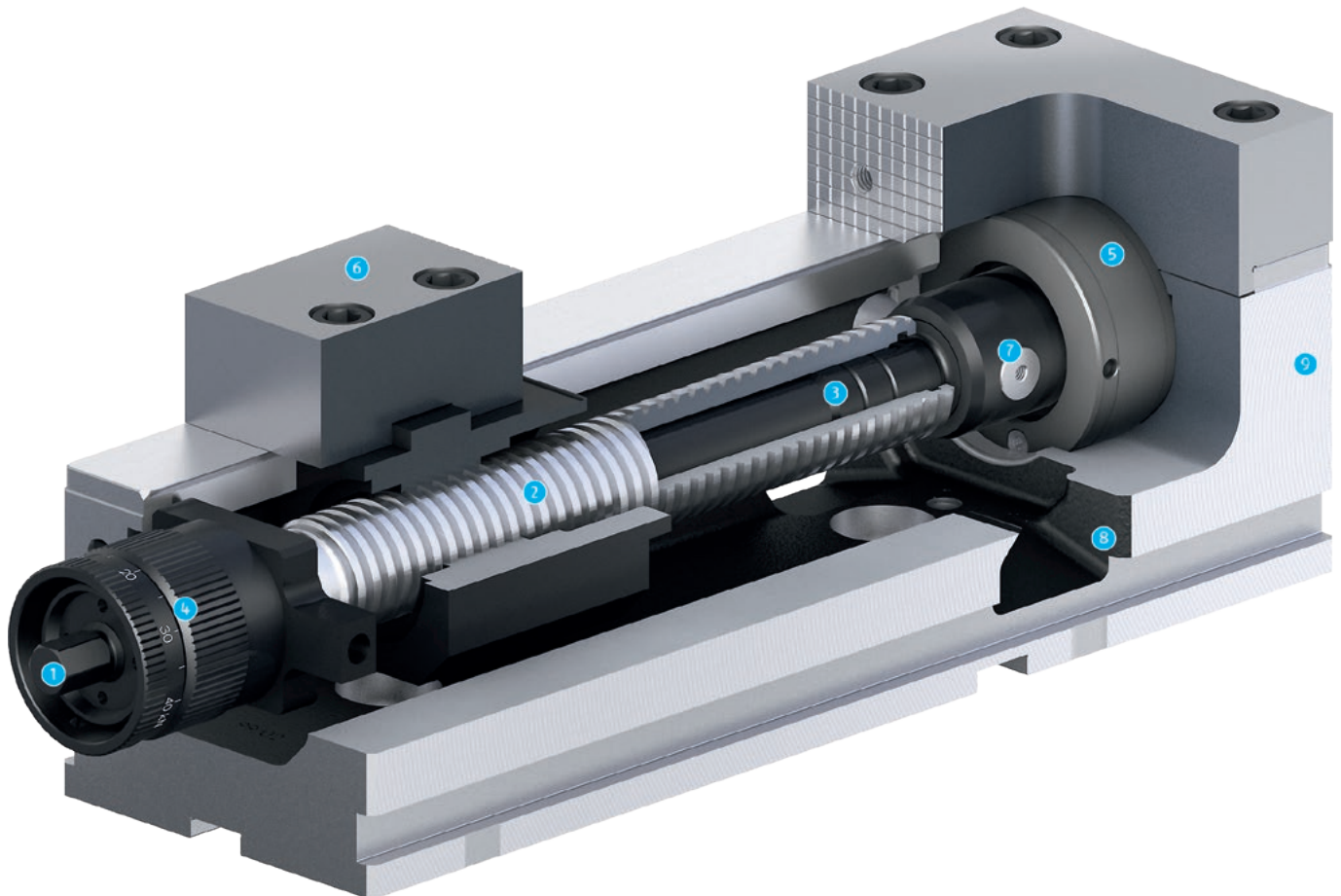


Advantages – Your benefits

- + Quick lever clamping**
Simple, fast, and reliable workpiece clamping
- + Continuous adjustment of the clamping force**
Suitable for machining both finished and raw parts
- + Spindle drive adjustable by hand**
Adjustment of clamping range without tools
- + Encapsulated force transmission box**
No maintenance of force transmission unit required
- + Easy handling**
Fast disassembly and cleaning
- + Integrated NSE3 and GFD interface**
Minimization of set-up times. Can be flexibly combined with the large modular quick-change pallet system
- + Clamping by tension – prevents the base body from bending**
Maximum machining precision
- + Standard jaw interface with comprehensive range of jaws**
Optimal adaptation to new clamping tasks

Function KSG

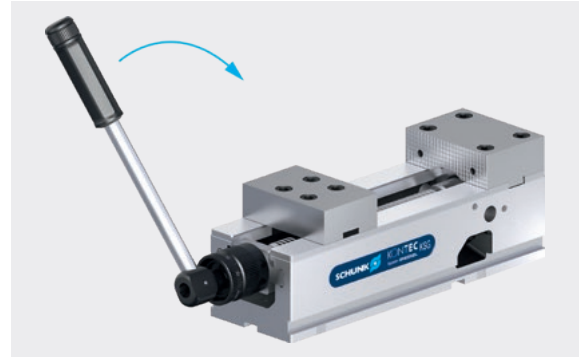
Turning the spindle advances the moving jaw to the workpiece. The "trick with the handle" then occurs. A 160° rotary movement of the sprinter lever brings the internal draw bar into use. The force transmission box located close to the fixed jaw draws the draw bar backwards using a mechanical transmission system.



- | | |
|--|--|
| <ul style="list-style-type: none"> ❶ Actuation via hexagon connection
This ensures easy operation ❷ Spindle drive
For the highest of clamping forces ❸ Completely encapsulated drawbar
Offers optimal protection against coolant and chips ❹ Continuous adjustment of the clamping force
For highest repeat accuracy ❺ Mechanical force transmission
For self-locking and vibration-resistant clamping | <ul style="list-style-type: none"> ❻ Standard jaw interface
For the use of standard jaws from SCHUNK ❼ Easy removal of spindle assembly group
For easy cleaning and fast assembly without clamping brackets ❽ Drainage slots
For coolant and chips ❾ Wear-resistant base body
Therefore a longer service life at highest precision. Even with maximum clamping force |
|--|--|

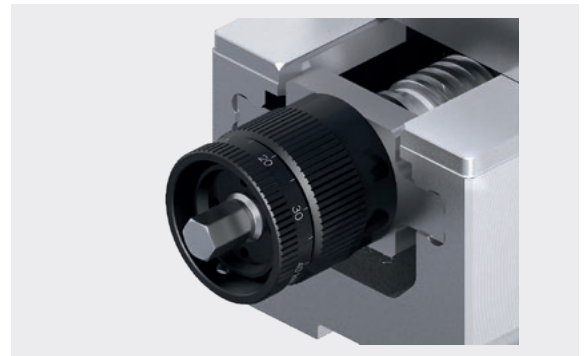
Quick lever clamping

With the quick clamping lever, force can be transmitted to the spindle entirely without a torque wrench. The clamping procedure is performed by turning the sprinter lever by 160° degrees. The workpiece can be clamped in less than a second.



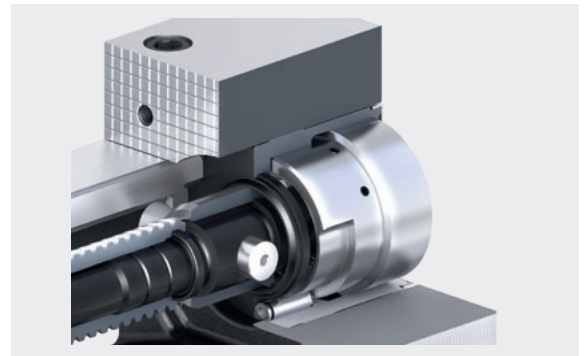
Continuously adjustable clamping force

The clamping force can be easily adjusted without a tool using a hand wheel. The force on the workpiece can be preset from 4 kN up to a maximum of 40 kN. The advantage is clamping with extremely high repeat accuracy.



Completely encapsulated force transmission box

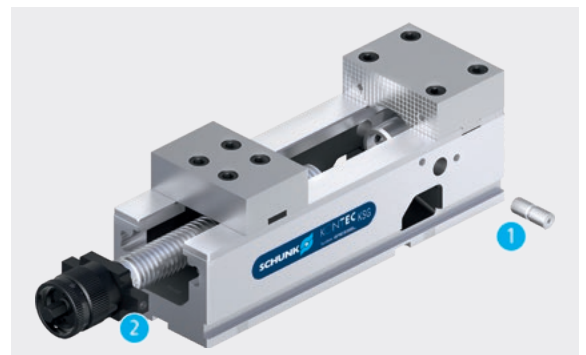
The force transmission box is protected against the ingress of coolant and chips. This ensures continuously reliable functioning and clamping force.



Cleaning and disassembling in just a few seconds

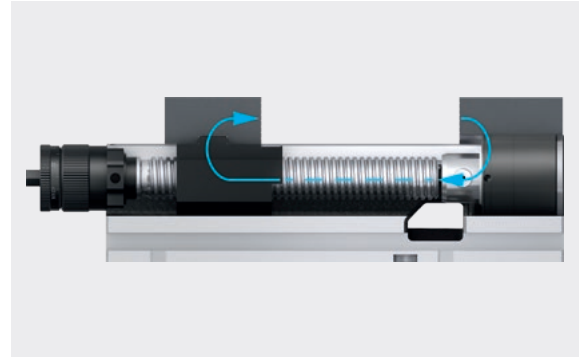
The spindle assembly can be removed from the power-amplified single-acting vise simply by pulling out the coupling pin. This allows for quick and direct positioning of the KSG without clamping claws or preparation for setup via the NSE3 or GFD quick-change pallet systems. It also makes cleaning the vise fast and easy.

- ❶ Coupling pin
- ❷ Spindle assembly group



Clamping by tension

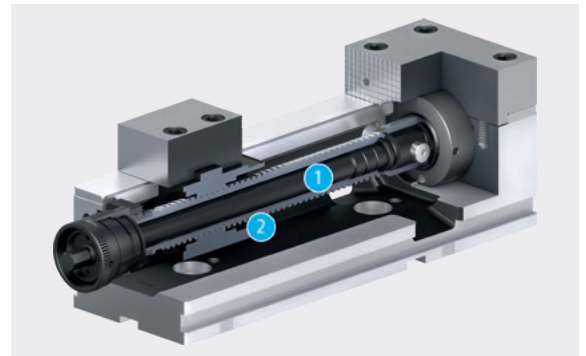
The spindle is subjected to tensile force during the clamping process. The closed force system prevents the base body from bending. This makes the KSG ideal for the use with quick-change pallet systems.



Completely encapsulated drawbar

The integrated tension rod in the outer spindle is protected to prevent cooling lubricant and chips from getting inside it. This ensures continuously reliable functioning and clamping force at all times.

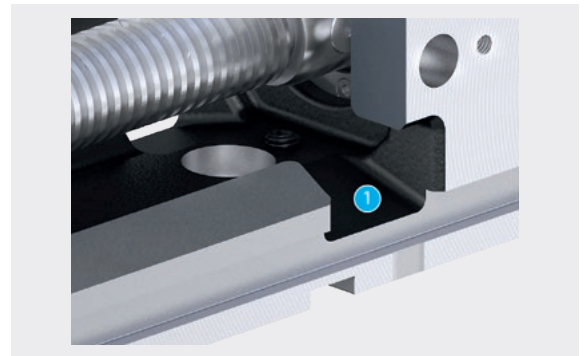
- 1 Drawbar
- 2 Outer spindle



Drainage slots

Coolant and chips can be drained out easily via inclined drainage slots.

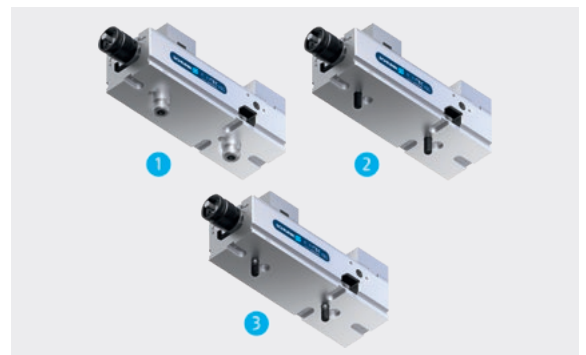
- 1 Drainage slot

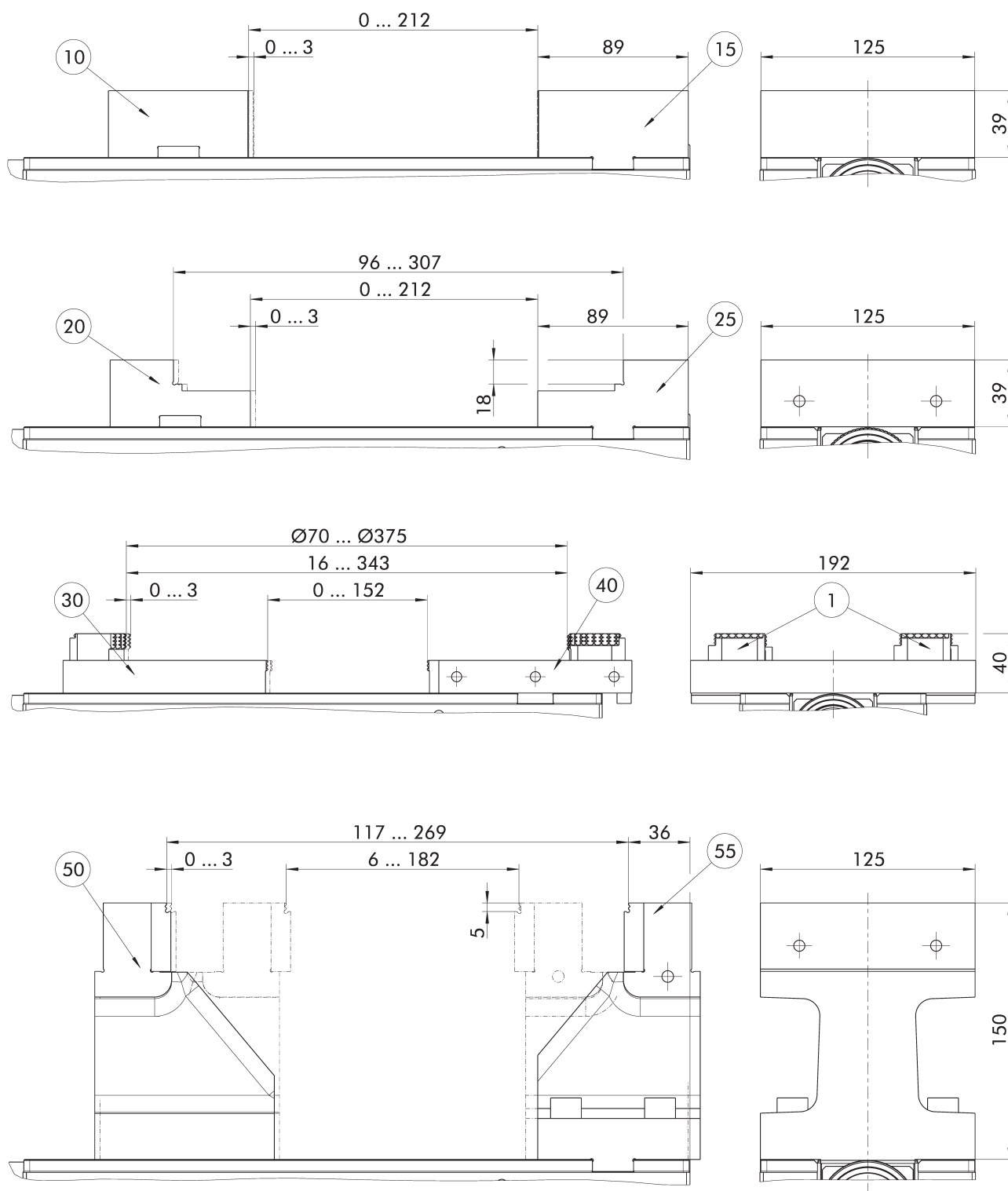


Mounting options

The KSG offers several options for mounting on the machine table, all of which are built into the clamping vise. The vise can be used for minimizing the set-up time. It can be mounted on the NSE3 or GFD quick-change pallet modules using the previously prepared quick-change interface. Alternatively, the vise can be build up using two screws, or for positional orientation using set screws.

- 1 Mounting via quick-change pallet system
- 2 Mounting via two screws
- 3 Mounting for positional orientation using fitting screws





Suitable system jaws with position number on the next page.
Subject to technical changes.

- ① 6-way reversal grip jaw (ID 0430803), 6-way reversal carbide grip jaw (ID 1395550)

Technical data

Description	ID	Vise included	Width of the clamping vise [mm]	Clamping force [kN]	Weight [kg]
KSG 125	0430302	Monoblock jaws	125	4 - 40	35
KSG VS 125	1405571	Reversal jaws	125	4 - 40	34
KSG R 125	0430800	Swivel and adapter plates	125	4 - 40	34
KSG 5A-VS 125	0430503	VS jaws, high	125	4 - 40	42

Scope of delivery

Vise, system jaws, clamping claws, clamping lever, operating manual

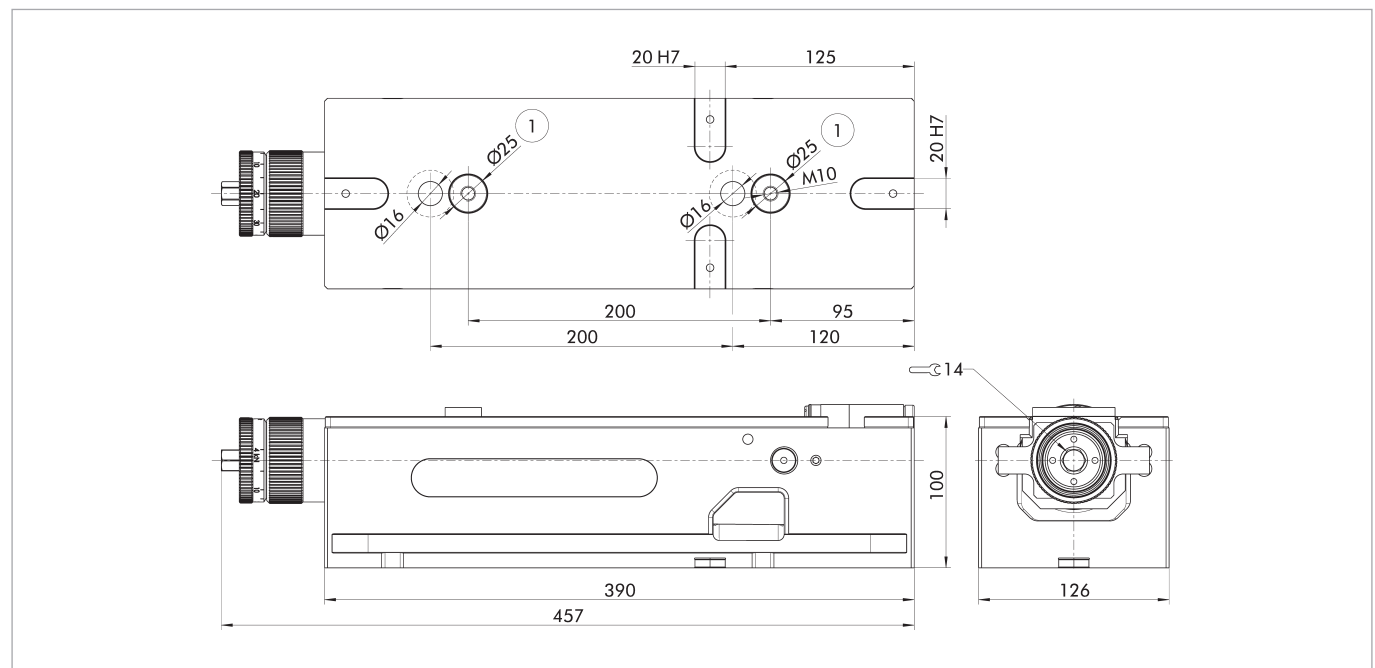
Note

System jaws

The clamping devices are always equipped with the corresponding system jaws.

Suitable system jaws

Description	Pos.	Description	ID	Width [mm]	Depth [mm]	Height [mm]	Weight [kg]
Monoblock jaw	10	SGBB-B 125-82-39	0430087	125	82	39	2.7
Monoblock jaw	15	SGBB-F 125-88-39	0430085	125	88	39	3.1
Reversible jaw	20	SGWB-B 125-82-40	1395495	125	82	40	2.5
Reversible jaw	25	SGWB-F 125-88-40	1395494	125	88	40	2.5
Swivel plate	30	SGP-1 192-130-22	0430802	192	130	22	3.9
Adapter plate	40	SGA-1 192-130-22	0430801	192	130	22	3.9
VS jaw, high	50	SGVS-B 125-105-150	0430142	125	105	150	9.4
VS jaw, high	55	SGVS-F 125-95-150	0430141	125	95	150	6.7



① Prepared for NSE3 and GFD clamping pins

System jaws

Monoblock jaw

Design as movable jaw.
One side smooth, one side slotted.



Suitable for	Description	Interface	ID
KSG 125	SGBB-B 125-82-39	W-125-1	0430087

Monoblock jaw

Design as fixed jaw.
One side smooth, one side slotted.



Suitable for	Description	Interface	ID
KSG 125	SGBB-F 125-88-39	W-125-1	0430085

Reversible jaw

Design as movable jaw.
One side smooth, one side with step for an enlarged clamping range.



Suitable for	Description	Interface	ID
KSG 125	SGWB-B 125-82-39	W-125-1	0430091
KSG 125	SGWB-B 125-82-40	W-125-1 W-125-2	1395495

Reversible jaw

Design as fixed jaw.
One side smooth, one side with step for an enlarged clamping range.



Suitable for	Description	Interface	ID
KSG 125	SGWB-F 125-88-39	W-125-1	0430089
KSG 125	SGWB-F 125-88-40	W-125-1 W-125-2	1395494

Steel jaw

Design as movable jaw.
Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Suitable for	Description	Interface	ID
KSG 125	SGS-B 125-100-50		0430099

Steel jaw

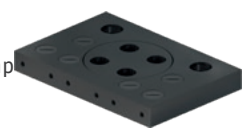
Design as fixed jaw.
Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Suitable for	Description	Interface	ID
KSG 125	SGS-F 125-110-50		0430097

Swivel plate

Used – in combination with adapter plates and 6-way reversal jaws – to clamp bulky workpieces.



Suitable for	Description	Interface	ID
KSG 125	SGP-1 192-130-22	W-38	0430802

Adapter plate

Used – in combination with swivel plates and 6-way reversal jaws – to clamp bulky workpieces.



Suitable for	Description	Interface	ID
KSG 125	SGA-1 192-130-22	W-38	0430801

VS jaw, high

Design as movable jaw.
For better accessibility of tool to workpiece.
Including stepped jaw, grip 5 mm.



Suitable for	Description	Interface	ID
KSG 125	SGVS-B 125-105-150	W-125-1	0430142

VS jaw, high

Design as fixed jaw.
For better accessibility of tool to workpiece.
Including stepped jaw, grip 5 mm.

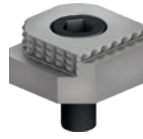


Suitable for	Description	Interface	ID
KSG 125	SGVS-F 125-95-150	W-125-1	0430141

Top jaws

6-way reversible jaws grip

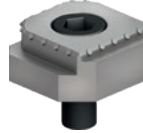
With five grip steps as well as a coated clamping face.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG-6W 38-38-18	38.5	18	38.2	W-38	0430803

6-way reversible jaw carbide grip

With five carbide grip steps as well as a smooth clamping face.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBCG-6W 38-38-18	38.5	18	38.2	W-38	1395550

Jaw profiled

For increasing the friction between jaw and workpiece without clamping impressions.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBD 125-40-11.5	125	40	11.5	W-125-1	1373349

Serrated jaw

For increasing the friction between jaw and workpiece with minimal clamping impressions.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBC 125-40-12.5	125	40	12.5	W-125-1	1373268

Ground jaw

With a completely ground clamping face.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBP 125-40-11.5	125	40	11.5	W-125-1	1373278

Soft jaw

Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBW 125-40-20	125	40	20	W-125-1	1373288

Stepped jaw

With ground step, 8 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS 125-40-11.5-8	125	40	11.5	W-125-1	1373327

Stepped jaw

With ground step, 17 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS 125-40-11.5-17	125	40	11.5	W-125-1	0430413

Stepped jaw

With coated step, 5 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-W 125-40-11.5-5	125	40	11.5	W-125-1	0430414

Stepped jaw

With grip step 3 mm and ground step 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3					
125-40-21.5-18	125	40	21.5	W-125-1	0430415
GBS-G3 125-40-24-18	125	40	24	W-125-1	1322989

Stepped jaw

With special "soft" grip step, 5 mm.
For embossed clamping of soft materials such as plastic or aluminum.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-SG5 125-40-11.5	125	40	11.5	W-125-1	1393552

Stepped jaw

With grip step, 3 mm.
For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3 125-40-11.5	125	40	11.5	W-125-1	1373331

Stepped jaw

With grip step, 5 mm.
For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G5 125-40-11.5	125	40	11.5	W-125-1	1373334

Stepped jaw

With grip step, 8 mm.
For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G8 125-40-11.5	125	40	11.5	W-125-1	1373338

Stepped jaw

With carbide grip step, 3 mm.
For embossed clamping of hardened materials up to 58 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-CG3 125-40-11.5	125	40	11.5	W-125-1	1395524

Stepped jaw

With carbide grip step, 5 mm.
For embossed clamping of hardened materials up to 58 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-CG5 125-40-11.5	125	40	11.5	W-125-1	1424000

Stepped jaw

With special grip step, 3 mm.
For clamping pre-embossed materials and workpieces.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-GL3 125-40-11.5	125	40	11.5	W-125-1	1395577

Stepped jaw with T-slot

With grip step, 3 mm.
T-slot for mounting the positioning strip.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3-T 125-40-17.5	125	40	17.5	W-125-1	0430248

Stepped jaw with T-slot

With grip step, 5 mm.
T-slot for mounting the positioning strip.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G5-T 125-40-17.5	125	40	17.5	W-125-1	0430247

Stepped jaw with T-slot

With grip step, 8 mm.
T-slot for mounting the positioning strip.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G8-T 125-40-17.5	125	40	17.5	W-125-1	0430237

Positioning bar

To suit all stepped jaws with T-slot.



Description	Width mm	Height mm	Depth mm	Interface	ID
GPL 125-32-13.5	125	32	13.5	W-125-1	0430238

Grip jaw

For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG 125-40-11.5	125	40	11.5	W-125-1	1373284

Chuck jaw with locating pins

Retractable locating pins for quickly adjusting the jaw to the respective workpiece.



Description	Width mm	Height mm	Depth mm	Interface	ID
GPS 125-40-17	125	40	16.7	W-125-1	1509316

Prism jaw, ground

For precise clamping of round workpieces.
100 = Ø11 - Ø41 mm.
125 = Ø14 - Ø48 mm.
160 = Ø16 - Ø60 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GVA 125-40-17.5	125	40	17.5	W-125-1	1373344

Intermediate jaw with slot

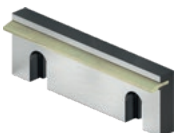
Floating version for clamping of two workpieces in one set-up. Both sides are prepared for mounting spring plates or top jaws.



Description	Width mm	Height mm	Depth mm	Interface	ID
GFA-Z 125-40-20	125	40	20	W-125-1	0430078

Spring leaf pull-down jaw

For an active jaw pull-down function with a light clamping impression on the workpiece for more precise machining results.



Description	Width mm	Height mm	Depth mm	Interface	ID
GFA 125-40-11.5	125	40	11.5	W-125-1	1373304

Spring plate pull-down jaw

For an active jaw pull-down function without clamping impressions on the workpiece for more precise machining results.



Description	Width mm	Height mm	Depth mm	Interface	ID
GFB 125-39-10	125	39	10	W-125-1	0430192

Precision pull-down jaw

For an active jaw pull-down function without clamping impressions on the workpiece for more precise machining results.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBN-P 125-40-25	125	40	25	W-125-1	0430147

Ground jaw

With a completely ground clamping face. Height = 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBP 125-18-7.6	125	18	7.6	W-125-2	0432259

Coated jaw

For increasing the friction between jaw and workpiece. Height = 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBB 125-18-7.6	125	18	7.6	W-125-2	0432262

Stepped jaw

With coated step, 5 mm. Height = 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-W 125-18-7.6-5	125	18	7.6	W-125-2	0432276

Stepped jaw

With grip step, 3 mm. For embossed clamping of unhardened materials up to 22 HRC. Height = 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3 125-18-8	125	18	8	W-125-2	0432275

Stepped jaw

With grip step, 5 mm. For embossed clamping of unhardened materials up to 22 HRC. Height = 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G5 125-18-8	125	18	8	W-125-2	0432260

Grip jaw

For embossed clamping of unhardened materials up to 22 HRC. Height = 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG 125-18-7.8	125	18	7.8	W-125-2	0432261

Accessories

Clamping force tester

For measuring the jaw clamping force of stationary clamping devices.



Suitable for	Description	ID
KSG 125	IFT SST Set	1475766

Standard clamping pins

Clamping pin for positive connection with NSE3 clamping modules.
With shortened fastening screw.



Suitable for	Description	ID
KSG 125	SPA 40-K	0432369
KSG 125	SPB 40-K	0432370

Clamping pin GFD-SP

Clamping pin for positive connection with GFD set-up stations.



Suitable for	Description	ID
KSG 125	GFD-SP 40	0433600

Clamping lever

For convenient actuation of KONTEC vises.



Suitable for	Description	ID
KSG 125	GSH-1 SW14	0430201

Quick adjustment

For fast and convenient adjustment of the clamping range.



Suitable for	Description	ID
KSG 125	GSV-KSG 125/160	0430170

Spindle nut

For fast and easy exchange of already existing spindle nuts.



Suitable for	Description	ID
KSG 125	GSDM-KSG 125	0430806

Force box

Mechanical force box for quick and easy replacement of force boxes that are already present.



Suitable for	Description	ID
KSG 125	GKK-KSG 125	0430214

Spindle assembly group

For fast and easy exchange of already existing spindles.



Suitable for	Description	ID
KSG 125	GSBG-KSG 125	0430372

Coupling pin

Used for quickly and easily connecting the spindle assembly group to the force box.



Suitable for	Description	ID
KSG 125	GKB-KSG 125/160	0430564

Handle

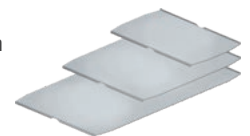
For easier handling.



Suitable for	Description	ID
KSG 125	GRI-KSG 100/125	0430202

Cover plates

To protect the open spindle opening from falling chips.



Suitable for	Description	ID
KSG 125	GAB-KSG 125	0430556

Workpiece stop

Workpiece stop with minimum space requirements and continuously adjustable stop slide.
Including stop slider 40 and 80 mm.



Suitable for	Description	ID
KSG 125	GWSA M8-46	1645260

Magnetic workpiece stop, small

For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KSG 125	GWSA-M 60 x 15	1391293

Magnetic workpiece stop, large

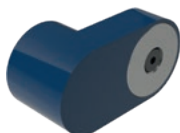
For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KSG 125	GWSA-M 115 x 15	1391331

Extensions

As an accessory for the magnetic workpiece stops.



Suitable for	Description	ID
KSG 125	GWSA-V Ø68 x 30	1394477

Clamping screws for clamping claws

Used in combination with clamping claws for fastening clamping devices.



Suitable for	Description	T-slot	ID
KSG 125	GSC-S M10-T12	12 mm/M10	0432043
KSG 125	GSC-S M12-T14	14 mm/M12	0432044
KSG 125	GSC-S M14-T16	16 mm/M14	0432045
KSG 125	GSC-S M16-T18	18 mm/M16	0432046
KSG 125	GSC-S M16-T20	20 mm/M16	1550423
KSG 125	GSC-S M16-T22	22 mm/M16	1550424

Fitting screws

For precise position orientation and mounting of manual clamping vises on the machine table.



Suitable for	Description	ID
KSG 125	GPSC-1 Ø16g5-M16	0490640

Fitting shoulder screws

For precise position orientation and mounting of manual clamping vises on the machine table.



Suitable for	Description	ID
KSG 125	GPSC-S Ø16k7-Ø12f7-M12	0430243

Precision T-nuts

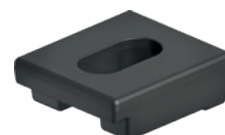
Suitable for all conventional T-groove widths of machine tables.



Suitable for	Description	T-slot	ID
KSG 125	GPN M6-T12	12 mm/M6	0490590
KSG 125	GPN M6-T14	14 mm/M6	0490547
KSG 125	GPN M6-T16	16 mm/M6	0490548
KSG 125	GPN M6-T18	18 mm/M6	0490587
KSG 125	GPN M6-T20	20 mm/M6	1359734
KSG 125	GPN M6-T22	22 mm/M6	0490621

Clamping claws

For quick and easy mounting of SCHUNK clamping devices.



Suitable for	Description	ID
KSG 125	GSPR-A 50-57	0490604

Cover screw

Used to cover unused clamping insert mounting holes on pendulum and adapter plates.



Suitable for	Description	ID
KSG 125	GCS Ø22-M12	1307880

Workpiece Supports Set

Set of workpiece supports – width 125 mm

Suitable for system jaws H = 40 mm.
Heights = 12, 25, 30, 35, and 37 mm.



Suitable for	Description	ID
KSG 125	GWU-S 125-40	1394228

Workpiece supports

Workpiece supports – width 125 mm

In different heights.

1 Set = 2 pieces



Suitable for	Description	Height mm	ID
KSG 125	GWU-M 125-8	8	1450266
KSG 125	GWU-M 125-9	9	1462567
KSG 125	GWU-M 125-10	10	1411328
KSG 125	GWU-M 125-12	12	1447369
KSG 125	GWU-M 125-15	15	1411350
KSG 125	GWU-M 125-20	20	1452308
KSG 125	GWU-M 125-22	22	1457551
KSG 125	GWU-M 125-23	23	1411380
KSG 125	GWU-M 125-25	25	1484475
KSG 125	GWU-M 125-27	27	1461008
KSG 125	GWU-M 125-30	30	1411387
KSG 125	GWU-M 125-31	31	1484477
KSG 125	GWU-M 125-32	32	1411398
KSG 125	GWU-M 125-33	33	1484478
KSG 125	GWU-M 125-34	34	1484480
KSG 125	GWU-M 125-35	35	1411391
KSG 125	GWU-M 125-36	36	1429618
KSG 125	GWU-M 125-37	37	1411395
KSG 125	GWU-M 125-38	38	1429615



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