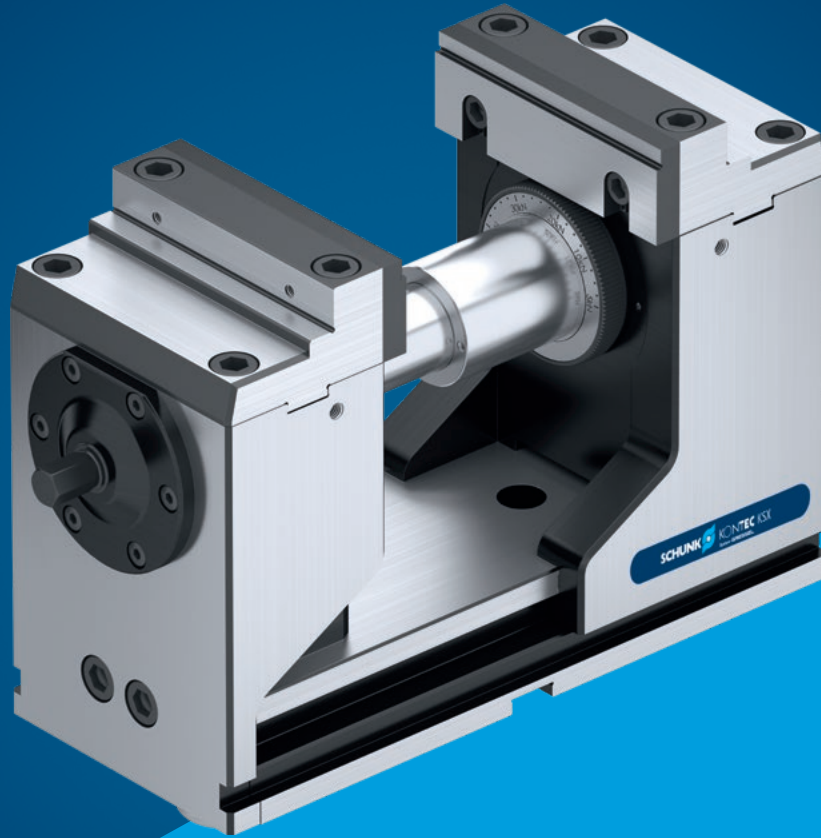




KONTec KSX

**The original – the 5-axis
power vise**

Hand in hand for tomorrow

Force-amplified clamping system for "true" 5-axis complete/simultaneous machining

KONTEC KSX are power-amplified single-acting vises that have been specially developed for 5-axis machining. Thanks to the special structure, the vises ensure optimum accessibility for "true" 5-axis complete/simultaneous machining. With the help of 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 systems, 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
- + Spindle on top**
Prohibits a rear up of the jaws
- + Continuous adjustment of the clamping force**
Suitable for machining both finished and raw parts
- + Encapsulated force transmission box and telescopic spindle**
No maintenance of force transmission unit required
- + Optimal accessibility**
Allows the workpiece to be machined from five sides
- + Extendable clamping range**
Enables clamping of various workpiece lengths
- + Wide range of applications**
Suitable for rough and finished parts machining
- + Wide jaw program**
Optimal adaptation to new clamping tasks
- + Clamping by tension – prevents the base body from bending**
Maximum machining precision
- + Integrated NSE3 and GFD interface**
Minimization of set-up times. Can be flexibly combined with the large modular quick-change pallet system

Function KSX

The KONTEC KSX clamping vise is operated via an encapsulated spindle. Turning the spindle advances the moving jaw to the workpiece. Using 160° quick clamping, with the help of a force transmission box sitting in the fixed jaw, the clamping vise is clamped via a mechanical translation system.



- 1 Actuation via hexagon connection**
This ensures easy operation
- 2 Completely encapsulated spindle**
Offers optimal protection against coolant and chips
- 3 Long jaw guidance**
Offers optimal support
- 4 Continuous adjustment of the clamping force**
For highest repeat accuracy
- 5 Mechanical force transmission**
For self-locking and vibration-resistant clamping
- 6 Standard jaw interface**
For the use of standard jaws from SCHUNK
- 7 Diverse applications**
For first- and second-side machining

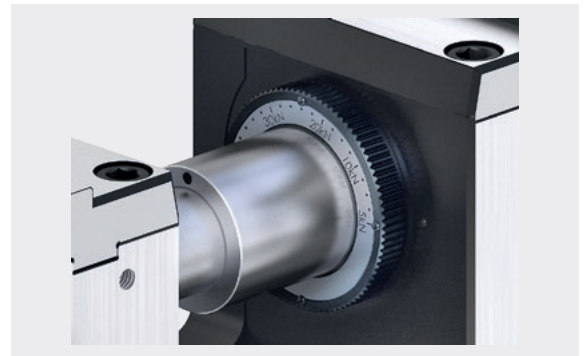
Quick lever clamping

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.



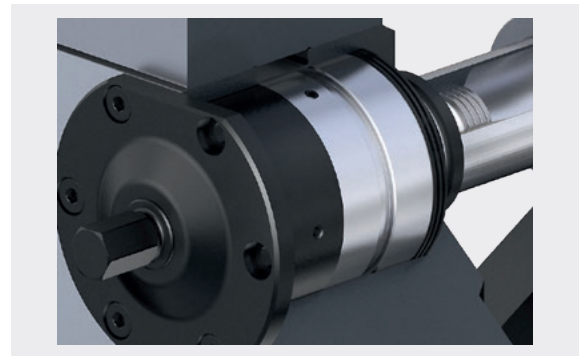
Continuously adjustable clamping force

The clamping force can be easily adjusted without a tool using a hand wheel. The force on the workpiece can be preset from 5 kN up to a maximum of 40 kN.
Benefit: Set-up with extremely high repeat accuracy.



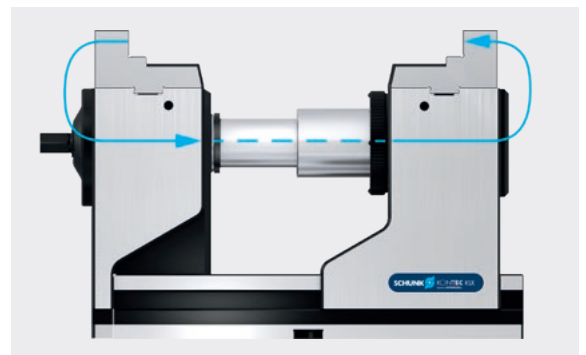
Completely encapsulated force transmission box

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



Clamping by tension

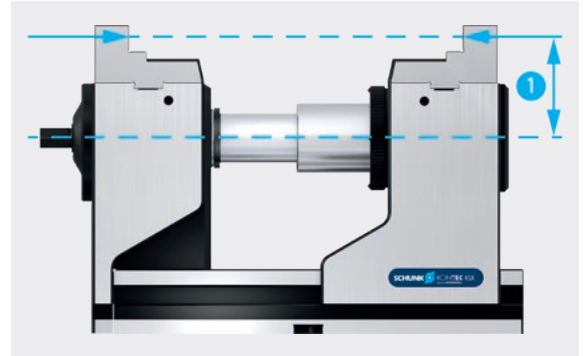
The spindle is subjected to tensile force during the clamping process. The closed force system prevents the base body from bending. This makes the KSX ideal for use on quick-change pallet systems.



Force transmission on equal level with clamping position

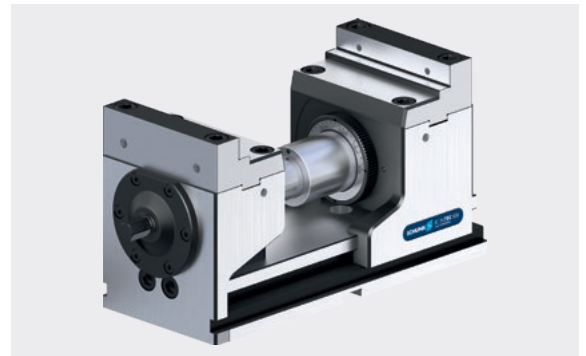
The force is applied directly under the workpiece so that the full clamping force is applied directly to the workpiece. This effectively prevents the jaws from lifting up and minimizes forces acting on the base body.

1 Minimal distance



Low version

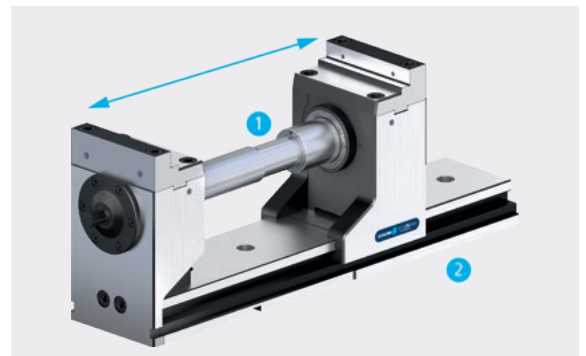
The low version of the KSX has a base body with a reduced height. In this way, the benefits of the KSX clamping principle can be transferred to machines which require more space in the machine room.



Can be extended to any length – maximum flexibility

The KSX features a modular system, allowing for the clamping range to be adjusted to the dimensions of the workpieces to be clamped. The length of the workpieces is not important because the clamping range of the KSX can be freely extended. The vise can be quickly adapted to new clamping tasks due to standardized drawbar extensions and base body extensions.

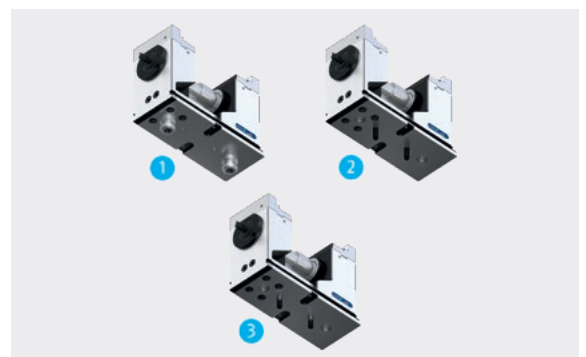
- 1 Drawbar extension
- 2 Base body extension

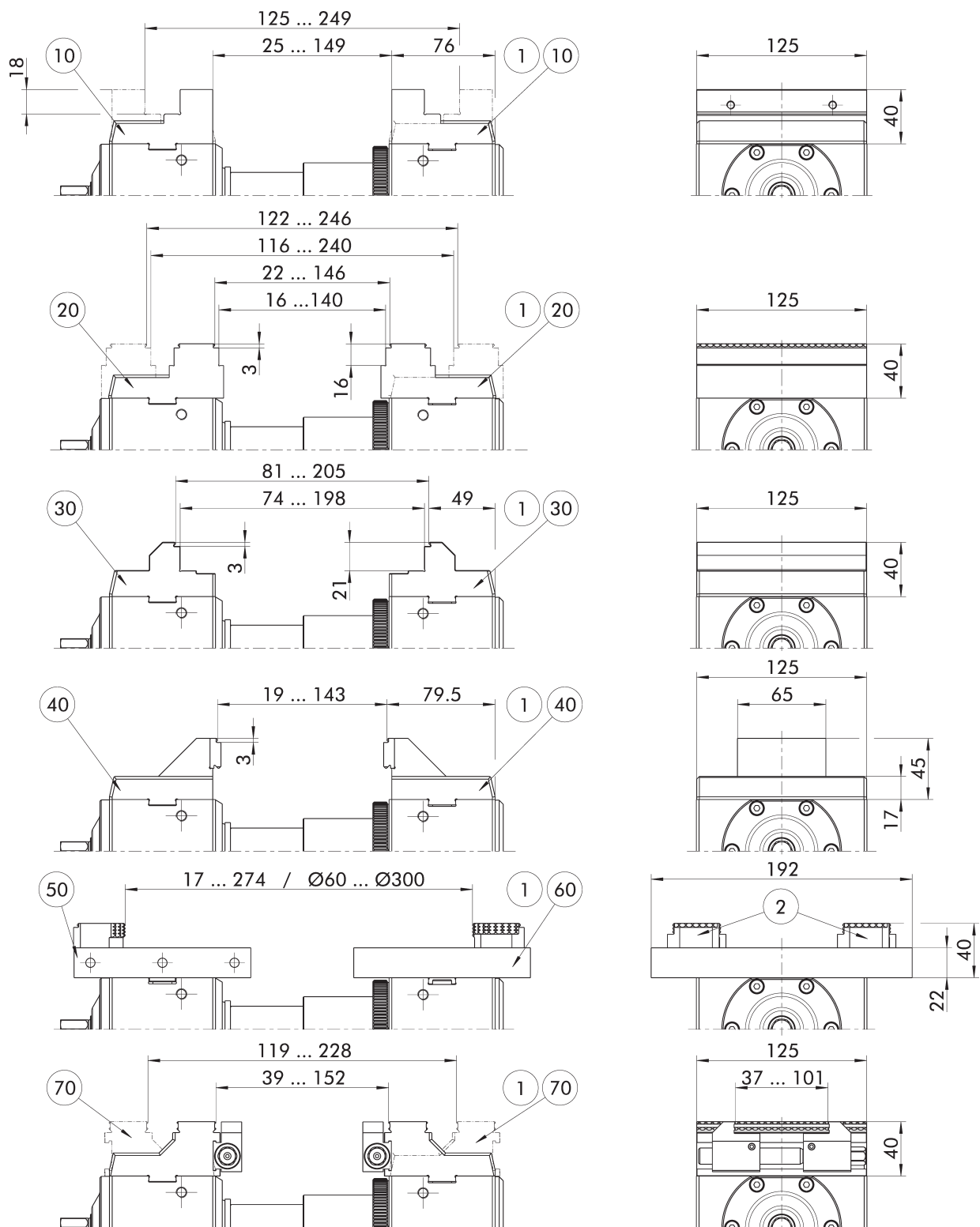


Mounting options

The KSX 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 interface for quick-change pallet systems. Alternatively, the vise can be built up using two screws, or for positional orientation using fitting screws.

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





Subject to technical changes.

- ① The clamping range can be extended by the base body and drawbar extension to the relevant drawbar length
- ② 6-way reversal grip jaw (ID 0430803), 6-way reversal carbide grip jaw (ID 1395550)

Technical data

Description	ID	Width of the clamping vise [mm]	Height (H) [mm]	Clamping force [kN]	Weight [kg]
KSX 125	0432253	125	174	5 - 40	30.2
KSX 125-L	0432271	125	125	5 - 40	22.6

Scope of delivery

Vise, clamping claw, clamping lever, hand crank, operating manual; without system jaws

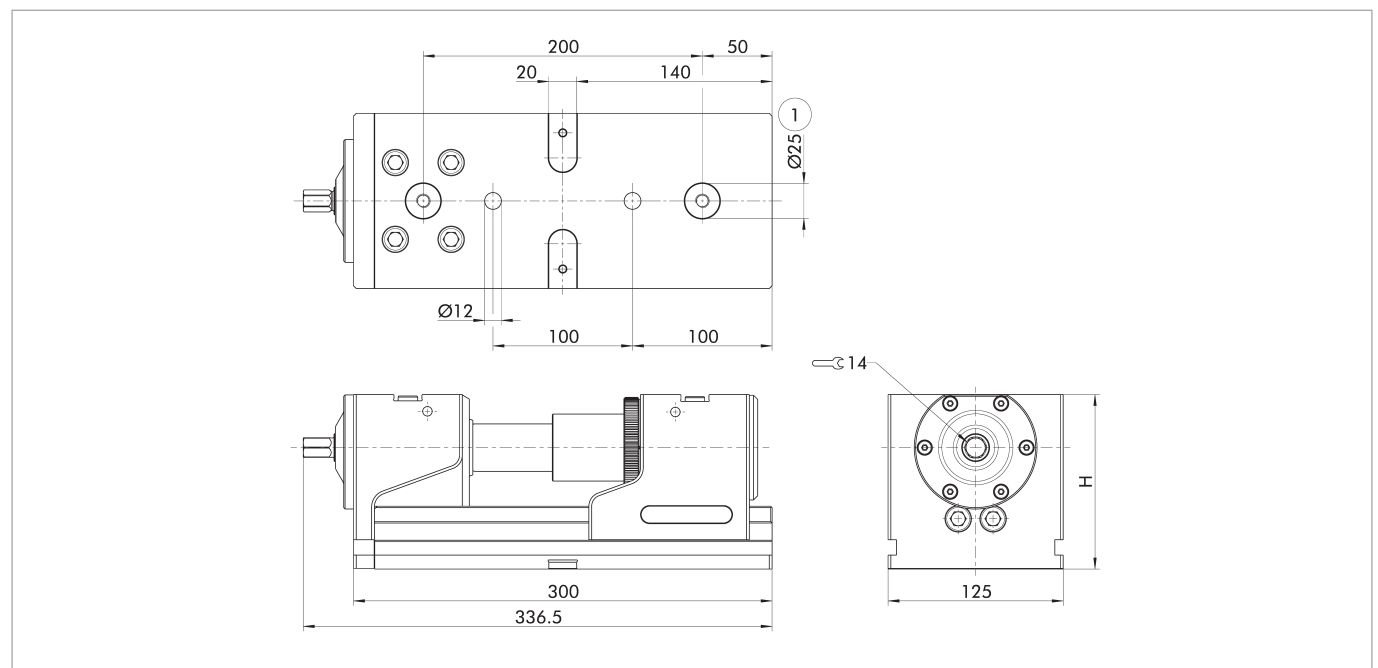
Note

System jaws

The clamping device and the system jaws have to be put together separately for this version.

Suitable system jaws

Description	Pos.	Description	ID	Width [mm]	Depth [mm]	Height [mm]	Weight [kg]
Reversible jaw	10	SGWB 125-76-40	0432254	125	76	40	1.8
Reversible grip jaw	20	SGWB-G3 125-84.5-40	1395496	125	40	84.5	2.2
5-axis jaw, grip	30	SG5A 125-77.8-40	1322988	125	77.8	40	1.7
5-axis jaw	40	SG5A 65-76-45	0432258	65	76	45	1.6
Swivel plate	50	SGP-2 192-130-22	0432256	192	130	22	4.3
Adapter plate	60	SGA-2 192-130-22	0432255	192	130	22	4.3
6-way jaw system	70	SG6F 125-81.5-40	0432486	125	81.5	40	4.5



① Prepared for NSE3 and GFD clamping pins

System jaws

Reversible jaw

One side smooth, one side with step for an enlarged clamping range.



Suitable for	Description	Interface	ID
KSX 125	SGWB 125-76-40	W-125-1 W-125-2	0432254

Reversible grip jaw

With a 3 mm grip step and a smooth clamping face on both sides.



Suitable for	Description	Interface	ID
KSX 125	SGWB-G3 125-84.5-40		1395496

5-axis jaw, grip

Jaw width 125 mm, with a smooth 18 mm step and a grip step of 3 mm.



Suitable for	Description	Interface	ID
KSX 125	SG5A 125-77.8-40	W-125-2	1322988

5-axis jaw

Jaw width 65 mm, including reversible jaw with grip step 3 mm.



Suitable for	Description	Interface	ID
KSX 125	SG5A 65-76-45	W-65-1	0432258

Aluminum jaw

Used for rework at the customer site e.g. for incorporating contours or special shapes.



Suitable for	Description	Interface	ID
KSX 125	SGAL 125-76-40		0432257

Steel jaw

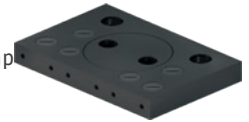
Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Suitable for	Description	Interface	ID
KSX 125	SGS 125-76-44		1546503

Swivel plate

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



Suitable for	Description	Interface	ID
KSX 125	SGP-2 192-130-22	W-38	0432256

Adapter plate

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



Suitable for	Description	Interface	ID
KSX 125	SGA-2 192-130-22	W-38	0432255

6-way jaw system

Jaw set for clamping the workpiece from six sides to attain a significantly high clamping force.

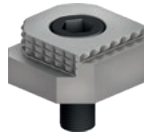


Suitable for	Description	Interface	ID
KSX 125	SG6F 125-81.5-40		0432486

Top jaws

6-way reversible jaws grip

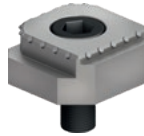
With five grip steps as well as a coated clamping face.



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
GBS-G5 65-22-8	65	22	8	W-65-1	1465122

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

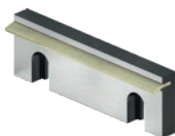
For precise clamping of round workpieces.
100 = Ø11 - Ø41 mm.
125 = Ø14 - Ø48 mm.
160 = Ø16 - Ø60 mm.



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

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

Prism jaw, ground

For precise clamping of round workpieces. Height = 22 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GVA 65-22-15	65	22	15	W-65-1	0430707

Universal stepped jaw

Versatile stepped jaw with ground step.



Description	Width mm	Height mm	Depth mm	Interface	ID
GPE 65-22-8-3	65	22	8	W-65-1	0430704

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
KSX 125	IFT SST Set	1475766

Clamping pins SPx

Clamping pin for positive connection with NSE3 clamping modules.



Suitable for	Description	ID
KSX 125	SPA 40	0471151
KSX 125	SPB 40	0471152

Clamping pin GFD-SP

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



Suitable for	Description	ID
KSX 125	GFD-SP 40	0433600

Clamping lever

For convenient actuation of KONTEC vises.



Suitable for	Description	ID
KSX 125	GSH-1 SW14	0430201

Short hand crank AF 14

For fast and convenient adjustment of the clamping range.



Suitable for	Description	ID
KSX 125	GHK-K-I SW14	0432272

Crank handle AF 14

For fast and convenient adjustment of the clamping range.



Suitable for	Description	ID
KSX 125	GHK-I SW14	0432263

Base body extension

Used in conjunction with the drawbar extension to extend the clamping range.



Suitable for	Description	ID
KSX 125	GKV 125-250	0432269

Workpiece stop

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



Suitable for	Description	ID
KSX 125	GWSA M8-46	1645260

Magnetic workpiece stop, small

For quick and easy attachment to system jaws or vises.



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

Magnetic workpiece stop, large

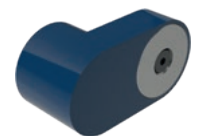
For quick and easy attachment to system jaws or vises.



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

Extensions

As an accessory for the magnetic workpiece stops.



Suitable for	Description	ID
KSX 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
KSX 125	GSC-S M10-T12	12 mm/M10	0432043
KSX 125	GSC-S M12-T14	14 mm/M12	0432044
KSX 125	GSC-S M14-T16	16 mm/M14	0432045
KSX 125	GSC-S M16-T18	18 mm/M16	0432046
KSX 125	GSC-S M16-T20	20 mm/M16	1550423
KSX 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
KSX 125	GPSC-2 Ø12f7-M12	0490546

Precision T-nuts

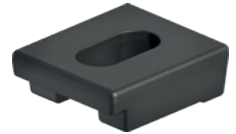
Suitable for all conventional T-groove widths of machine tables.



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

Clamping claws

For quick and easy mounting of SCHUNK clamping devices.



Suitable for	Description	ID
KSX 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
KSX 125	GCS Ø22-M12	1307880

Drawbar extensions

Drawbar extension 125 mm

Extends the clamping range of the corresponding vise by a further 125 mm.



Suitable for	Description	Length mm	ID
KSX 125	GZV-1 125	125	0432264

Drawbar extension 250 mm

Extends the clamping range of the corresponding vise by a further 250 mm.



Suitable for	Description	Length mm	ID
KSX 125	GZV-1 250	250	0432268

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



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