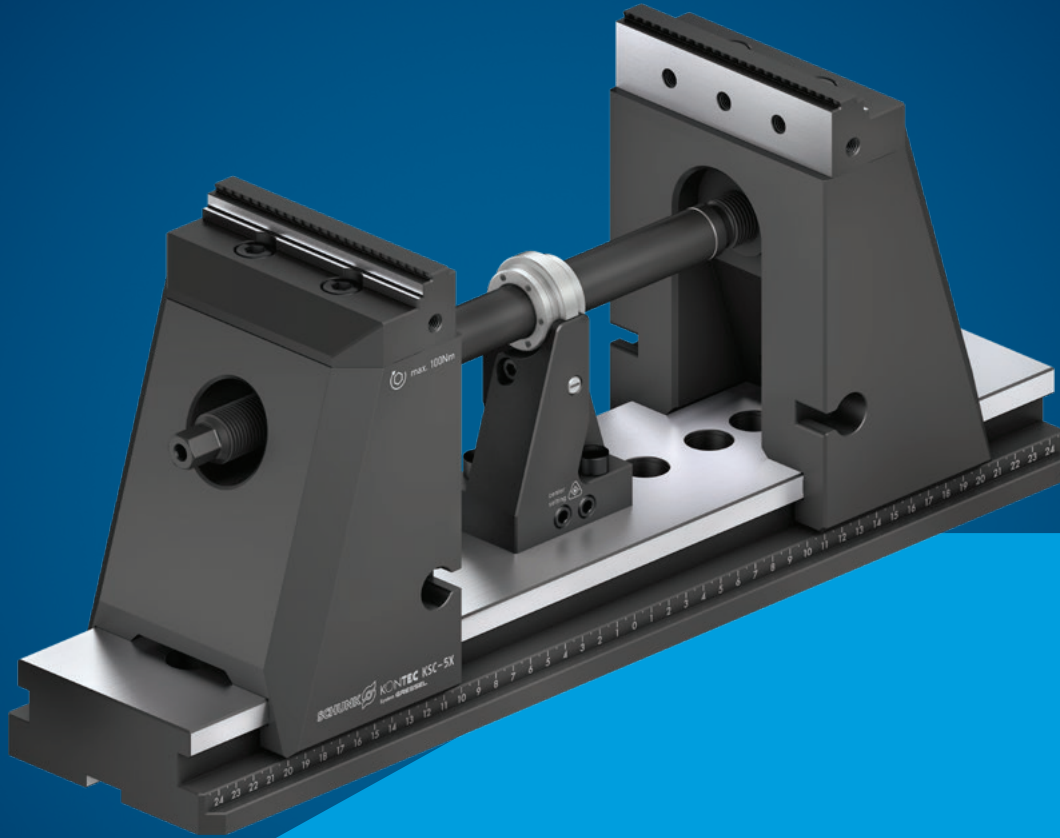




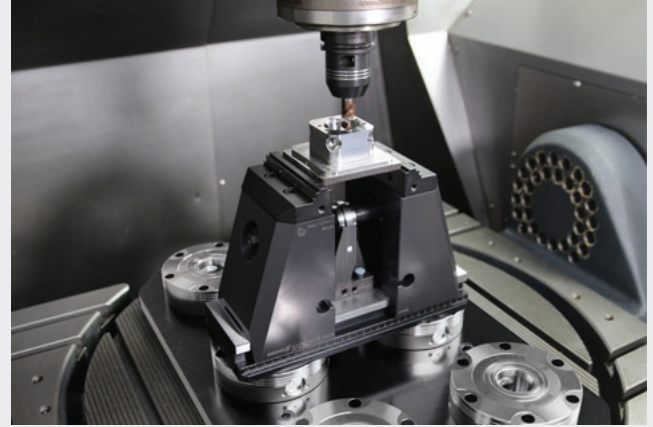
KONTEC KSC-5X

**Centric clamping vise for
flexible 5-axis machining**

Hand in hand for tomorrow

5-axis centric clamping vise with unique range of system and top jaws

The new KSC-5X expands the proven range of 5-axis vises with a powerful centric clamping vise for the most demanding requirements. The tall base jaws are available in three different heights and ensure excellent accessibility to the machine spindle. This allows for precise machining, even of complex workpieces is possible. A truly unique selling point: The range of system and top jaws of the KSC3 family, which is unique on the market and gives the KSC-5X maximum flexibility. The vise can be quickly and easily adapted to new clamping tasks by being combined with a spindle quick-change system. Thanks to the integrated interface of the quick-change pallet system, the vise can be optimally combined with the large NSE3 and GFD modular system for significantly reducing set-up times on machine tools.



Advantages – Your benefits

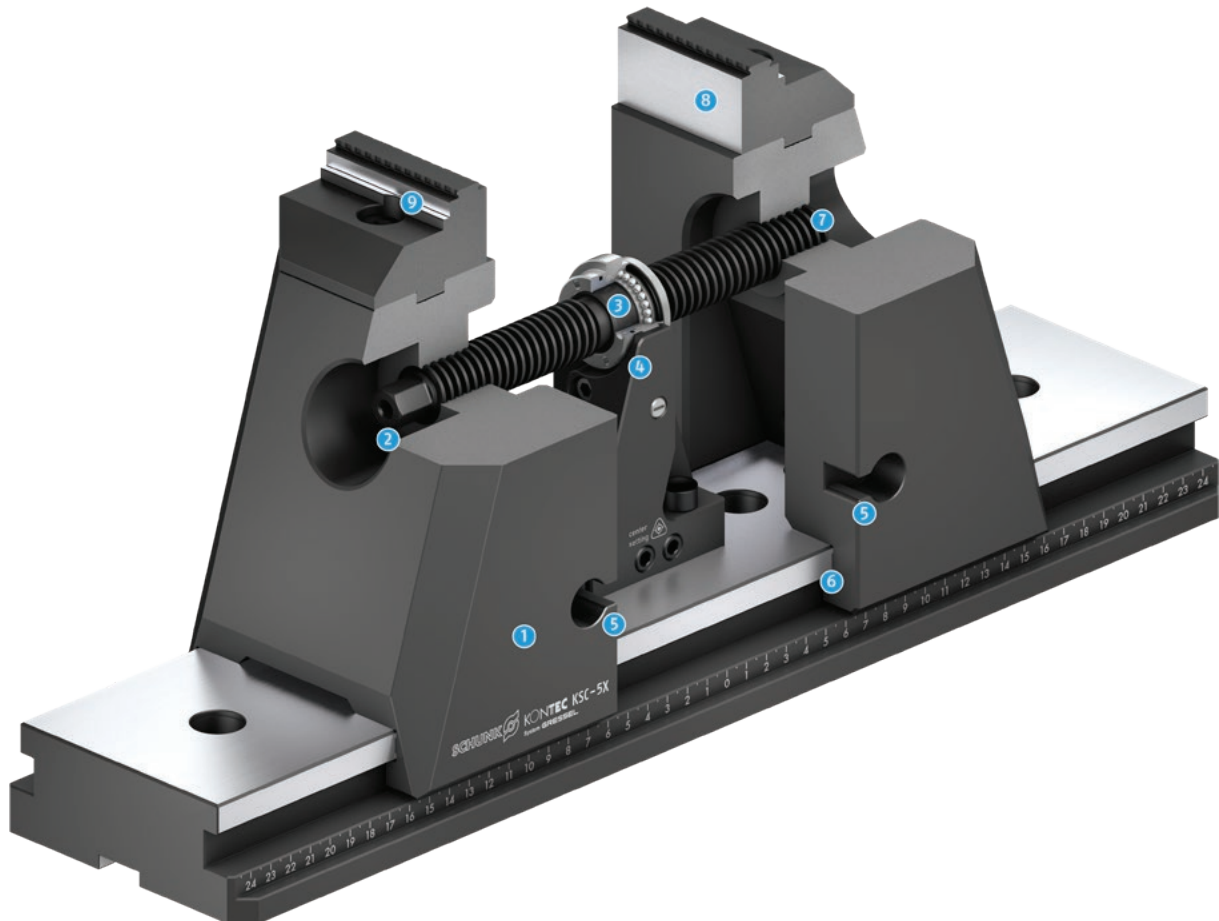
- + KSC3 modular system**
An extremely wide range of system and top jaws that is unique on the market
- + Optimal accessibility**
Allows the workpiece to be machined from five sides
- + Spindle on top**
The full clamping force is applied directly to the workpiece.
- + Long basic clamping stroke as standard**
Wide range of applications without additional extensions
- + Extendable clamping range**
Enables clamping of various workpiece lengths
- + Spindle quick-change system**
Rapid and easy adjustment to new clamping tasks
- + High clamping forces**
For process reliable clamping without pre-stamping
- + 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

Technical data

Description	Interface of the quick-change pallet system	Width of the clamping vise [mm]	Vise length [mm]	Vise heights [mm]	Max. clamping force [kN]
KSC-5X 125-320	●	125	320	142/181/252	40
KSC-5X 125-400	●	125	400	142/181/252	40
KSC-5X 125-500	●	125	500	142/181/252	40
KSC-5X 125-600	●	125	600	142/181/252	40
KSC-5X 125-800	●	125	800	142/181/252	40

Function KSC-5X

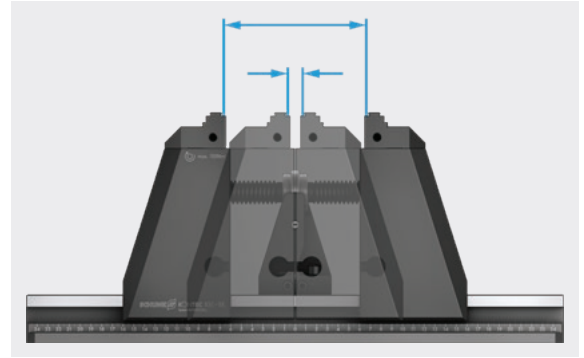
The KSC-5X is driven by a spindle and features a centrally mounted support. The force is generated directly, without a force amplifier, and in a linear manner. Both jaws open or close synchronously. The clamping force depends on the torque. The clamping range depends on the used chuck jaw range.



- 1 Tall supporting jaws**
Enable optimal accessibility of the machine spindle to the workpiece
- 2 Actuation via hexagon connection**
Easy operation using standard hexagonal inserts
- 3 Ball bearing mounted, clearance-free spindle**
For highest repeat accuracy
- 4 Spindle quick-change system**
Quick adaptation to new workpiece lengths
- 5 Pre-tensioning cable mounting holes**
For quick engagement and disengagement
- 6 Long jaw guidance**
Offers optimal support
- 7 Spindle on top**
Full clamping force on the workpiece
- 8 KSC3 range of system jaws and top jaws**
Unique jaw program for flexible adaptation to new clamping tasks
- 9 Large clamping range**
Up to 691 mm possible

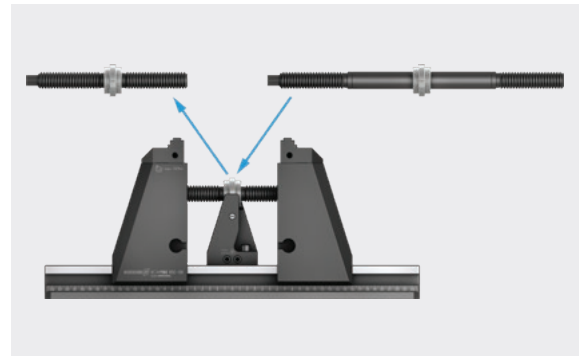
Long basic clamping stroke as standard

The KSC-5X has a basic clamping stroke of 120 mm. This means that it covers a very wide range of workpiece sizes even without drawbar extensions.



Freely configurable spindle system including quick-change

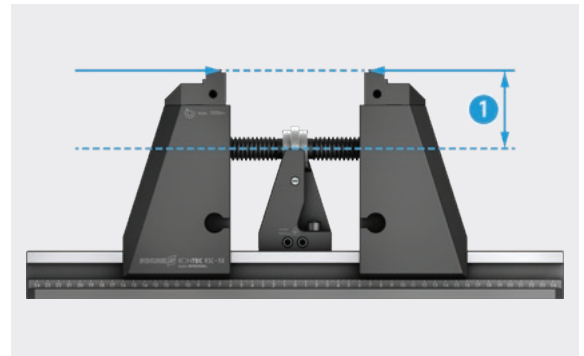
The basic clamping stroke of the KSC-5X is always 120 mm. The clamping range can be extended depending on the base body length in order to achieve a maximum clamping width of 691 mm for the longest base body length.



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.

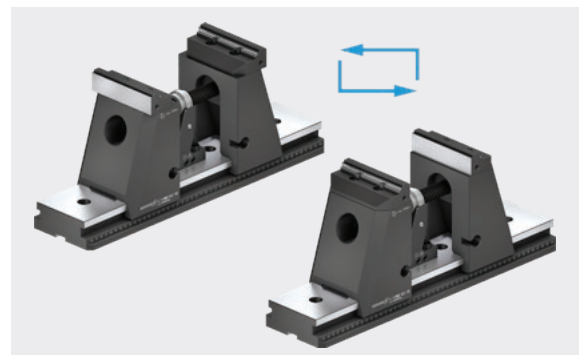
1 Minimal distance



Quick conversion to a larger clamping range

The system jaws can be changed by loosening just two screws. The reversible jaws and the wide range of chuck jaws make adapting the KSC-5X to the workpiece you wish to clamp a quick process.

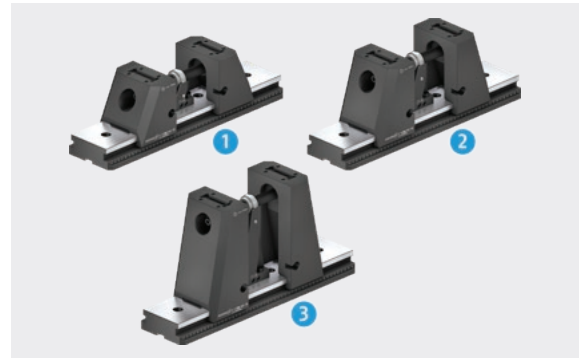
Advantage: Large clamping range over the full length of the vise.



Three heights are available

The KSC-5X is available in two different heights. The height and the special design allow for optimal access from all sides without the need for the vise to be additionally attached to consoles or supported underneath.

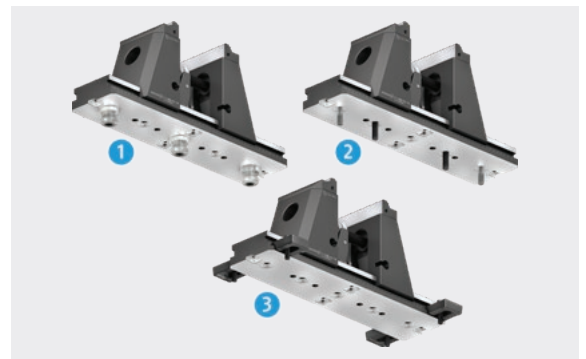
- ❶ **KSC-5X 125**
Low version, height 142 mm (without jaws)
- ❷ **KSC-5X 125**
Standard version, height 181 mm (without jaws)
- ❸ **KSC-5X 125**
Tall version, height 252 mm (without jaws)

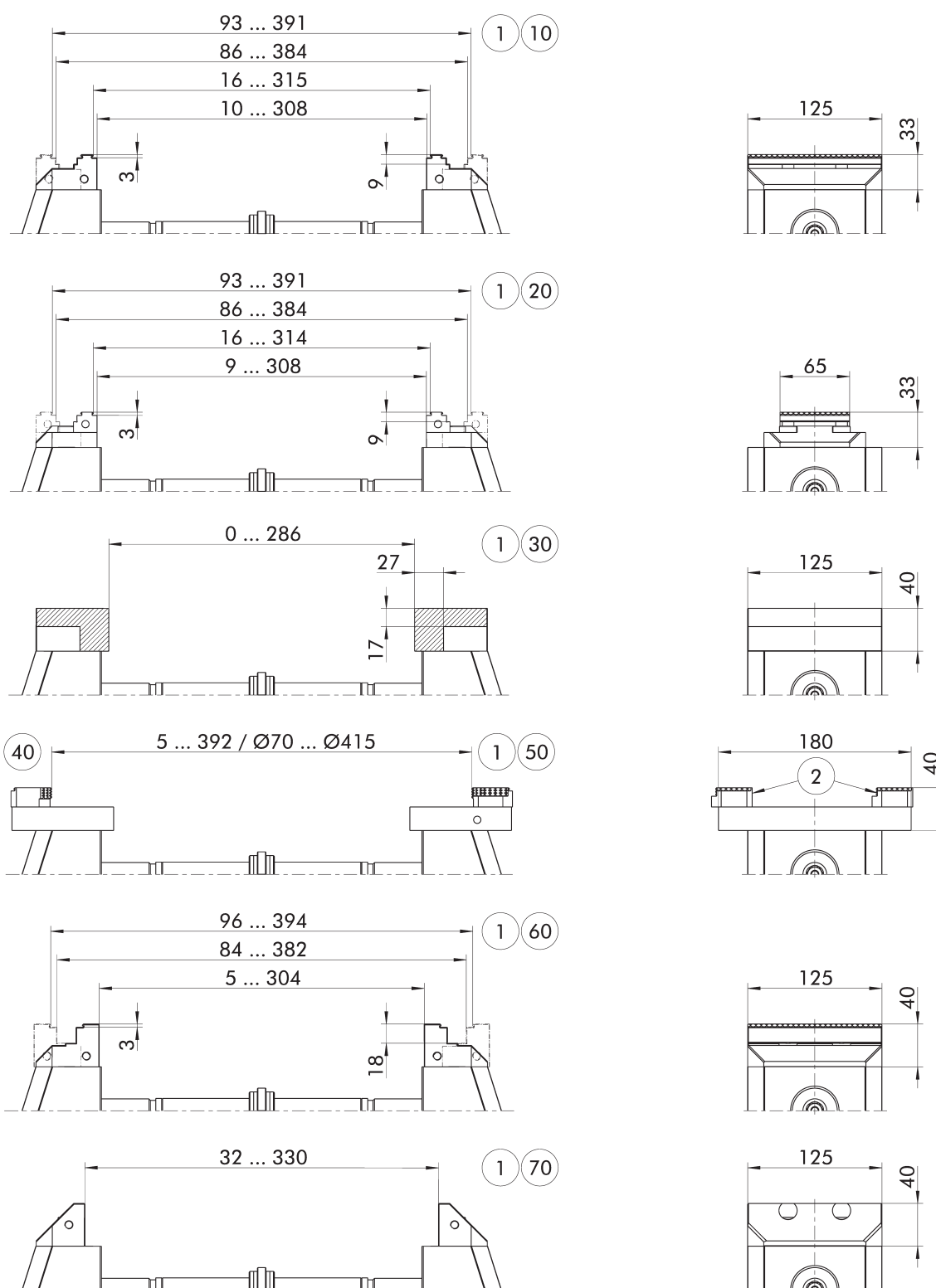


Mounting options

The KSC-5X offers multiple options integrated in the vise for fastening on the machine table. The 5-axis 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 system. Alternatively, the vise can be assembled using precision T-nuts and clamping claws, as well as fitting and clamping screws.

- ❶ **Mounting via quick-change pallet system**
- ❷ **Fastening via fitting and clamping screws**
- ❸ **Mounting via precision T-nuts and clamping claws**





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

① Min. clamping range with standard spindle, max. clamping range with illustrated spindle GSBG-KSC-5X 500 (ID 1643254)

② 6-way reversal jaw grip or 6-way reversal jaw carbide grip

Technical data

Description	ID	Width of the clamping vise	Height (H)	Max. clamping force	Max. torque	Weight
		[mm]	[mm]	[kN]	[Nm]	[kg]
KSC-5X 125-500-142	1636810	125	142	40	130	32.5
KSC-5X 125-500-181	1636811	125	181	40	130	38.5
KSC-5X 125-500-252	1636812	125	252	40	130	49.1

Scope of delivery

Vise, operating manual; without spanner wrench, without clamping claws

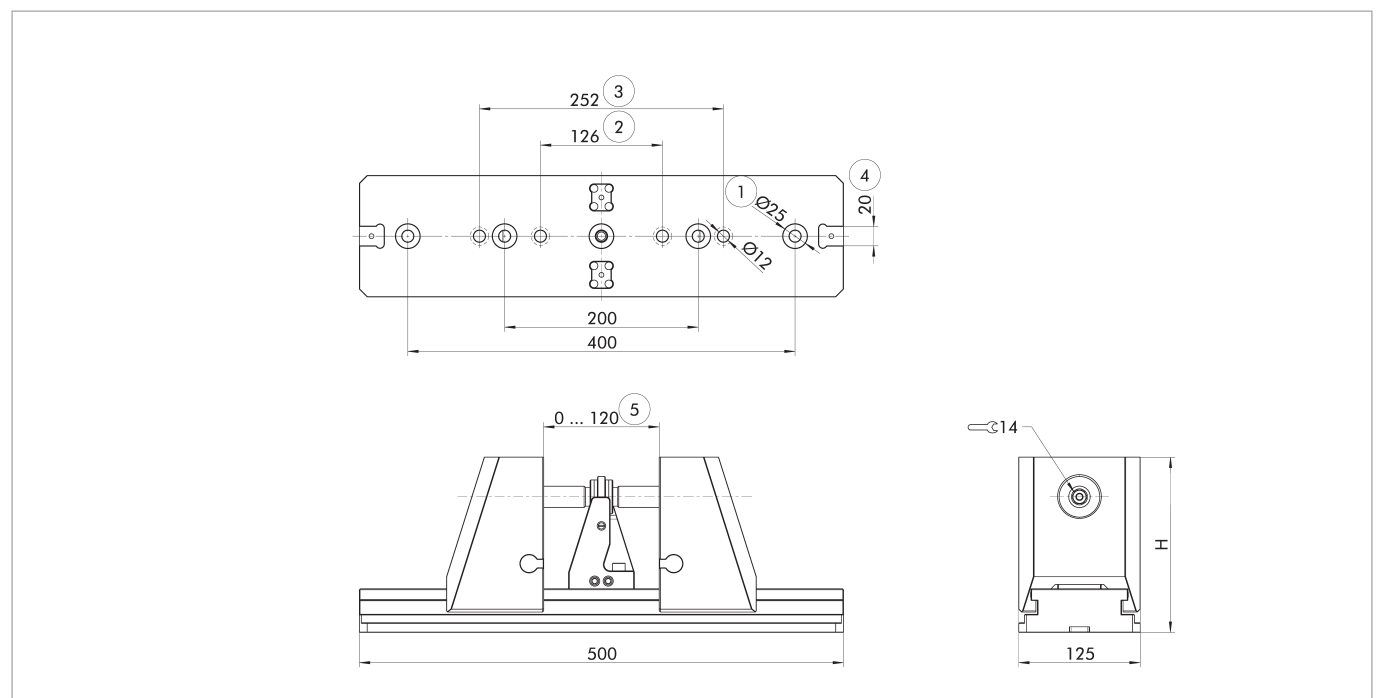
Note

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 grip jaw	10	SGWB-G3-B 125-57-33	0432474	125	57	33	1.3
Reversible grip jaw	20	SGWB-G3-B 65-57-33	1514380	65	57	33	0.9
Aluminum jaw	30	SGAL-B 125-68-40	0432469	125	68	40	1
Steel jaw	30	SGS-B 125-68-40	1452569	125	68	40	2.6
Swivel plate	40	SGP-3 180-95-22	0432470	180	95	22	2.8
Adapter plate	50	SGA-3 180-95-22	1643382	180	95	22	2.9
Reversible jaw	60	SGWB-G3-B 125-59-40	0430387	125	59	40	1.7
5-axis jaw	70	SG5A-B 125-45.5-40	0432472	125	45.5	40	1.1



- ① Prepared for NSE3 and GFD clamping pins
- ② Prepared for M12 screws
- ③ Prepared for fitting screws M12
- ④ Prepared for precision T-nuts
- ⑤ Basic clamping stroke supplied as standard

System jaws

Reversible soft grip jaw

Design as movable jaw.
With a special 5 mm grip step on both sides to enable clamping of soft materials such as aluminum or plastic.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-SG5-B 125-57-33		1514367

Reversible grip jaw

Design as movable jaw.
With grip step 3 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-G3-B 125-57-33		0432474
KSC-5X 125-500	SGWB-G3-B 125-66-40	W-125-1	0432490

Reversible carbide-grip jaw

Design as movable jaw.
With carbide-grip step 3 mm (up to 58 HRC) and smooth clamping face on both sides.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-CG3-B 125-57-33		1514374

Reversible grip jaw

Design as movable jaw.
With grip step 5 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-G5-B 125-57-33		1514365

Reversible carbide-grip jaw

Design as movable jaw.
With carbide-grip step 5 mm (up to 58 HRC) and smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-CG5-B 125-57-33		1514376

Reversible jaw with embossed profile

Design as movable jaw.
With a special grip step on both sides for clamping pre-embossed workpieces simply and securely.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-GL-B 125-57-33		1514378

Reversible jaw

Design as movable jaw.
One side with grip step 3 mm (up to 22 HRC), one side height 40 mm with smooth clamping surface and threads for mounting top jaws.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-G3-B 125-59-40	W-125-1	0430387

Reversible grip jaw

Design as movable jaw.
Reduced jaw width.
With grip step 3 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-G3-B 65-57-33		1514380

Reversible carbide-grip jaw

Design as movable jaw.
Jaw width 65 mm, with grip step 3 mm (up to 58 HRC) and a smooth clamping face on both sides.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGWB-CG3-B 65-57-33		1414568

Aluminum jaw

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



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGAL-B 125-68-40		0432469

Steel jaw

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



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGS-B 125-68-40		1452569

Swivel plate

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



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGP-3 180-95-22	W-38	0432470

Adapter plate

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



Suitable for	Description	Interface	ID
KSC-5X 125-500	SGA-3 180-95-22	W-38	1643382

5-axis jaw

Design as movable jaw.
One side with smooth clamping surface
and threads for mounting top jaws.



Suitable for	Description	Interface	ID
KSC-5X 125-500	SG5A-B 125-45.5-40	W-125-1	0432472

5-axis jaw

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

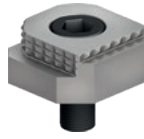


Suitable for	Description	Interface	ID
KSC-5X 125-500	SG5A-B 65-57-40	W-65-1	0432473

Top jaws

6-way reversible jaws grip

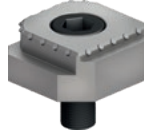
With five grip steps as well as a coated clamping face.



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

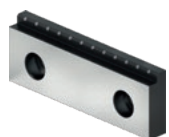
With carbide grip step, 3 mm.
For embossed clamping of hardened materials up to 58 HRC.



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

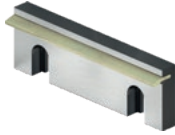
For precise clamping of round workpieces.
100 = Ø11 - Ø41 mm.
125 = Ø14 - Ø48 mm.
160 = Ø16 - Ø60 mm.



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 125-35-10	125	35	10	W-125-1	0432498
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

Soft jaw

Blanks for rework by the customer
Height = 22 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBW 65-22-20	65	22	20	W-65-1	0490567

Reversible grip jaw

Reversible jaw with grip step 3 mm in vertical direction and 5 mm in horizontal direction.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG-W 65-22-8	65	22	8	W-65-1	0430729

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

Accessories

Clamping force tester

For measuring the jaw clamping force of stationary clamping devices.



Suitable for	Description	ID
KSC-5X 125-500	IFT SST Set	1475766

Clamping pins SPx

Clamping pin for positive connection with NSE3 clamping modules.



Suitable for	Description	ID
KSC-5X 125-500	SPA 40	0471151
KSC-5X 125-500	SPB 40	0471152
KSC-5X 125-500	SPC 40	0471153

Clamping pin GFD-SP

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



Suitable for	Description	ID
KSC-5X 125-500	GFD-SP 40	0433600

Torque wrench 10 – 100 Nm

Serves for applying a defined torque. With 1/2" square drive



Suitable for	Description	ID
KSC-5X 125-500	GSH-D 10-100	0432477

Actuating lever, articulated

For convenient clamping range presetting With 1/2" square drive



Suitable for	Description	ID
KSC-5X 125-500	GSH-G 1/2"	0432478

Hexagonal insert SW 14

Suitable for square drive 1/2".



Suitable for	Description	ID
KSC-5X 125-500	GSK-I SW14-1/2"	0432619

Short hand crank AF 14

For fast and convenient adjustment of the clamping range.



Suitable for	Description	ID
KSC-5X 125-500	GHK-K-I SW 14	1643333

Pre-tensioning cable

Pre-tensioning cable for spindle change



Suitable for	Description	ID
KSC-5X 125-500	PTC-KSC-5X	1643264

Spindle assembly group

For fast and easy exchange of already existing spindles.



Suitable for	Description	ID
KSC-5X 125-500	GSBG-KSC-5X 320	1643252
KSC-5X 125-500	GSBG-KSC-5X 400	1643253
KSC-5X 125-500	GSBG-KSC-5X 500	1643254

Workpiece stop

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



Suitable for	Description	ID
KSC-5X 125-500	GWSA M8-23	1645258

Magnetic workpiece stop, small

For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KSC-5X 125-500	GWSA-M 60 x 15	1391293

Magnetic workpiece stop, large

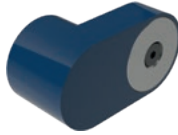
For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KSC-5X 125-500	GWSA-M 115 x 15	1391331

Extensions

As an accessory for the magnetic workpiece stops.



Suitable for	Description	ID
KSC-5X 125-500	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
KSC-5X 125-500	GSC-S M10-T12	12 mm/M10	0432043
KSC-5X 125-500	GSC-S M12-T14	14 mm/M12	0432044
KSC-5X 125-500	GSC-S M14-T16	16 mm/M14	0432045
KSC-5X 125-500	GSC-S M16-T18	18 mm/M16	0432046
KSC-5X 125-500	GSC-S M16-T20	20 mm/M16	1550423
KSC-5X 125-500	GSC-S M16-T22	22 mm/M16	1550424

Clamping screws for base body

Used for directly attaching clamping devices via the base body.



Suitable for	Description	T-slot	ID
KSC-5X 125-500	GSC-G-1 M10-T12	12 mm/M10	0430422
KSC-5X 125-500	GSC-G-1 M12-T14	14 mm/M12	0430423
KSC-5X 125-500	GSC-G-1 M12-T16	16 mm/M12	0430424
KSC-5X 125-500	GSC-G-1 M12-T18	18 mm/M12	0430425

Fitting screws

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



Suitable for	Description	ID
KSC-5X 125-500	GPSC-3 Ø12f7-M12	0432266

Precision T-nuts

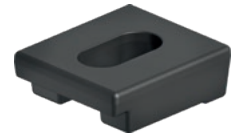
Suitable for all conventional T-groove widths of machine tables.



Suitable for	Description	T-slot	ID
KSC-5X 125-500	GPN M6-T12	12 mm/M6	0490590
KSC-5X 125-500	GPN M6-T14	14 mm/M6	0490547
KSC-5X 125-500	GPN M6-T16	16 mm/M6	0490548
KSC-5X 125-500	GPN M6-T18	18 mm/M6	0490587

Clamping claws

For quick and easy mounting of SCHUNK clamping devices.



Suitable for	Description	ID
KSC-5X 125-500	GSPR-A 50-57	0490604

Centering pin

For high-precision centering of KONTEC clamping devices on the machine table.



Suitable for	Description	ID
KSC-5X 125-500	GCP Ø12n6-Ø30h6	1430741
KSC-5X 125-500	GCP Ø12n6-Ø32h6	1426237
KSC-5X 125-500	GCP Ø12n6-Ø50h6	1417596

Cover screw

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



Suitable for	Description	ID
KSC-5X 125-500	GCS Ø22-M12	1307880

Cover disc

To cover the mounting holes of the set-up stations.
1 set = 20 pieces.



Suitable for	Description	ID
KSC-5X 125-500	GVAS Ø20	1611633

Workpiece Supports Set

Set of workpiece supports – width 125 mm

Suitable for system jaws H = 33 mm with grip level 3 mm.
Heights = 8, 12, 20, 25, and 27 mm.



Suitable for	Description	ID
KSC-5X 125-500	GWU-S grip 125-33	1394227

Set of workpiece supports – width 125 mm

Suitable for system jaws H = 40 mm with grip level 3 mm.
Heights = 9, 22, 27, 32, and 34 mm.



Suitable for	Description	ID
KSC-5X 125-500	GWU-S grip 125-40	1394229

Workpiece supports

Workpiece supports – width 125 mm

In different heights.
1 Set = 2 pieces



Suitable for	Description	Height mm	ID
KSC-5X 125	GWU-M 125-8	8	1450266
KSC-5X 125	GWU-M 125-9	9	1462567
KSC-5X 125	GWU-M 125-10	10	1411328
KSC-5X 125	GWU-M 125-12	12	1447369
KSC-5X 125	GWU-M 125-15	15	1411350
KSC-5X 125	GWU-M 125-20	20	1452308
KSC-5X 125	GWU-M 125-22	22	1457551
KSC-5X 125	GWU-M 125-23	23	1411380
KSC-5X 125	GWU-M 125-25	25	1484475
KSC-5X 125	GWU-M 125-27	27	1461008
KSC-5X 125	GWU-M 125-30	30	1411387
KSC-5X 125	GWU-M 125-31	31	1484477
KSC-5X 125	GWU-M 125-32	32	1411398
KSC-5X 125	GWU-M 125-33	33	1484478
KSC-5X 125	GWU-M 125-34	34	1484480
KSC-5X 125	GWU-M 125-35	35	1411391
KSC-5X 125	GWU-M 125-36	36	1429618
KSC-5X 125	GWU-M 125-37	37	1411395
KSC-5X 125	GWU-M 125-38	38	1429615



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