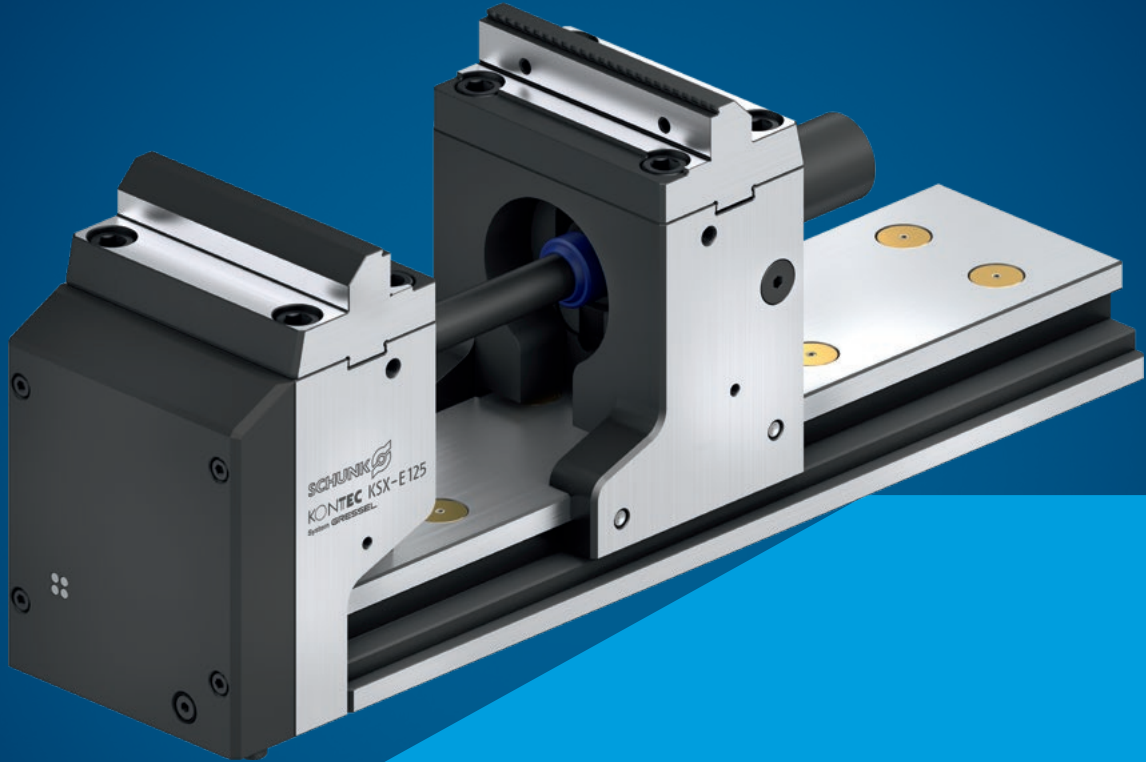


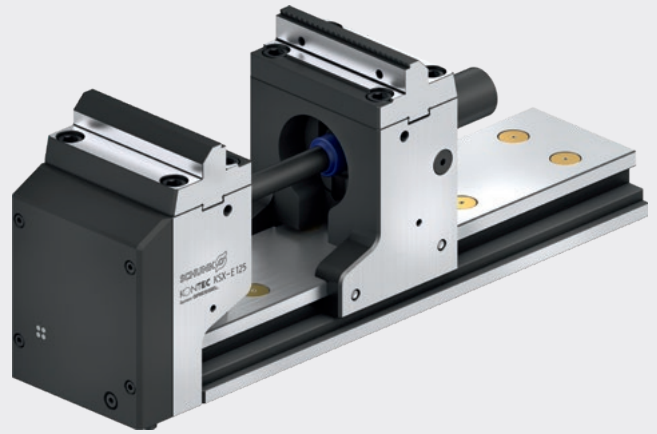


KONTec KSX-E 10L

**Electromechanical 5-axis vise
with comprehensive process
monitoring**

100% electrically driven 5-axis vise with continuously programmable clamping stroke

The digitalization of clamping devices will also have an increasing impact on clamping devices over the coming years, as these offer clear advantages, especially when machining medium and relatively small lot sizes with automated parts handling and comprehensive process monitoring. The new electromechanically driven 5-axis vise KONTEC KSX-E IOL has now been developed precisely for this purpose. Activated by 24 V DC, the new vise can be used to program and continuously adjust the clamping force up to 40 kN per jaw. The large clamping range of up to 420 mm with jaw pre-positioning makes the KONTEC KSX-E IOL a very flexible clamping device, especially in this field of application. All programmable parameters can also be transferred to the machine control and evaluated via the integrated IO-Link interface.

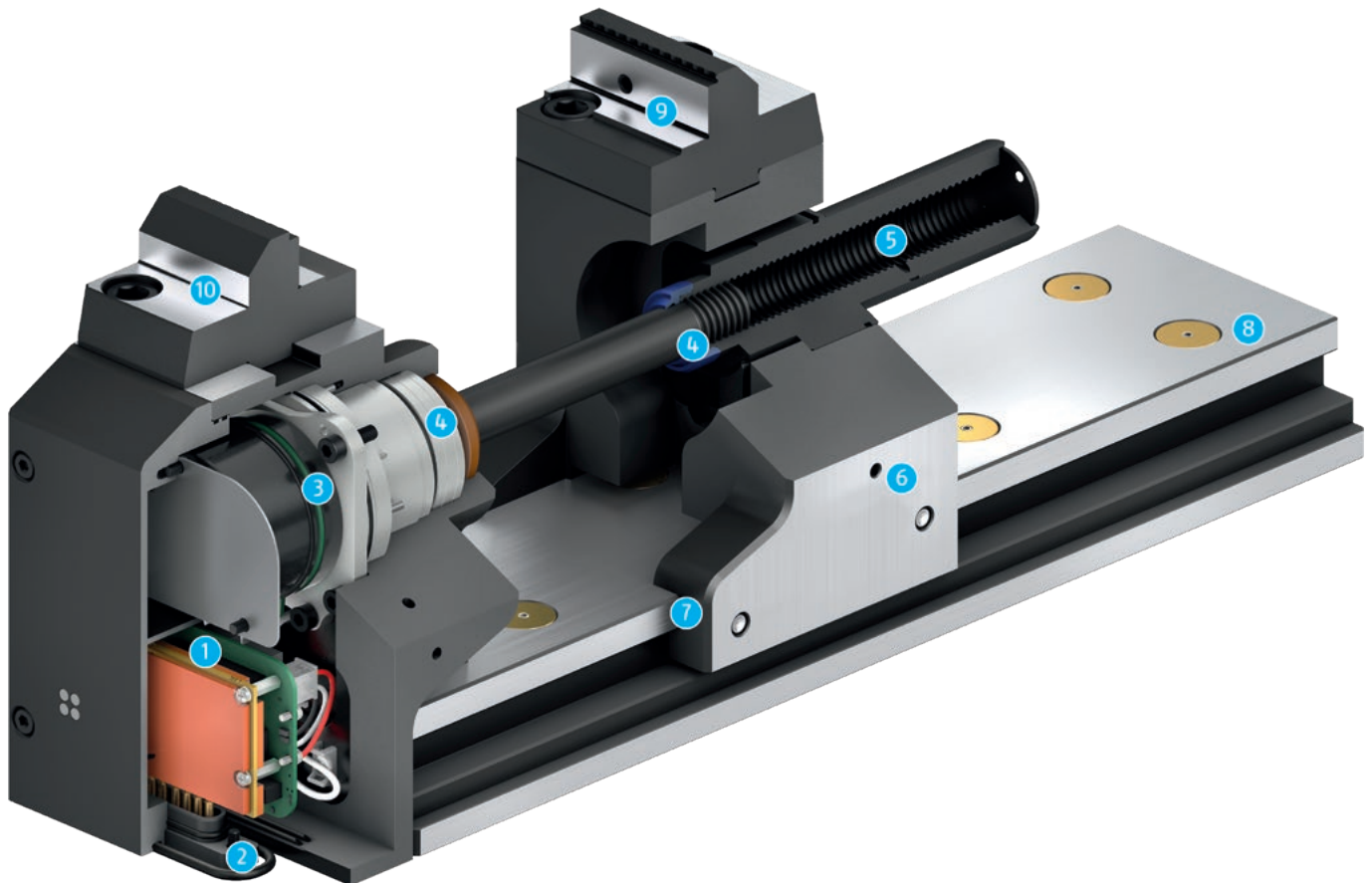


Advantages – Your benefits

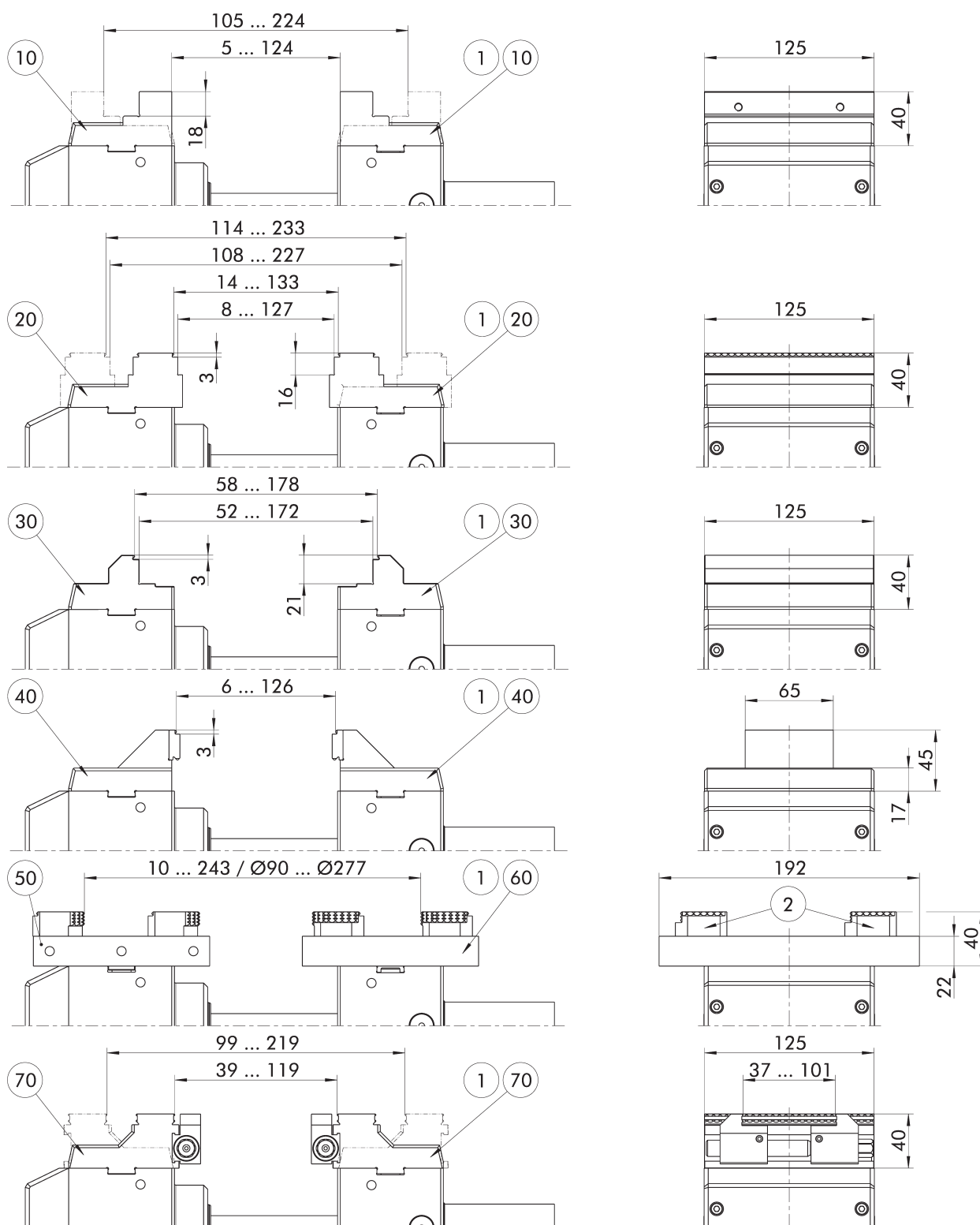
- + 5-axis accessibility thanks to high jaws**
Allows the workpiece to be machined from five sides
- + Powerhouse with 40 kN clamping force per jaw**
For vibration-proof clamping in a reliable process, even with minimal clamping surfaces
- + Perfectly suitable for automation**
Thanks to the electromechanical drive and fully integrated sensor and actuator systems
- + Integrated sensor and actuator systems**
No additional interfering contour
- + Control via IO-Link**
For easy integration in commonly used fieldbus systems
- + Maximum process reliability**
Thanks to various query options and transmission of error messages
- + Continuously programmable clamping force**
Maximum flexibility in terms of workpiece size and workpiece material
- + Continuously programmable clamping stroke and jaw pre-positioning**
Clamping ranges individually adaptable to the workpiece
- + Extendable clamping range**
Enables clamping of various workpiece lengths
- + Spindle on top**
Prohibits a rear up of the jaws
- + Wide range of applications**
Suitable for rough and finished parts machining
- + Wide jaw program**
Optimal adaptation to new clamping tasks

Funktion KSX-E IOL

SCHUNK KONTEC KSX-E IOL are completely electromechanically actuated 5-axis single-acting vises. The drive is provided by an encapsulated spindle, which is driven by a motor/gear unit combination. Turning the spindle advances the moving jaw to the workpiece. The vise is actuated via 24 V DC for the logic or via 48 V DC for the actuators. Clamping force, jaw position and clamping stroke can be set for specific workpieces via the software. The voltage supply and communication with IO-Link take place either via a spring contact interface or a fixed cable connection.



- 1 Integrated electronics and actuators**
Signal processing is done exclusively in the clamping device
- 2 Control via IO-Link**
For easy integration in commonly used fieldbus systems
- 3 Motor gearbox combination**
Ensures continuously adjustable clamping forces up to 40 kN per jaw
- 4 Completely encapsulated**
Offers optimal protection against coolant and chips
- 5 Replaceable spindle nut**
To extend the clamping range
- 6 Connection thread for pneumatic media transfer into the system jaw**
For workpiece contact control or cleaning of the clamping surfaces
- 7 Long jaw guidance**
Offers optimal support for O.D.- and I.D. clamping
- 8 Cover plugs for mounting screws**
No accumulation of chip nests possible
- 9 KSX jaw interface**
For access to the proven jaw portfolio for 5-axis vises
- 10 Diverse applications**
For first- and second-side machining



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

① Clamping range can be extended using the corresponding drawbar extensions

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

Technical data

Description	ID	IO-Link interface	Clamping force [kN]	Operating voltage control unit [V DC]	Operating voltage actuator [V DC]	Weight [kg]
KSX-E 125-430-CI IOL	1601447	Fixed cable connection	6 – 40	24	48	32

Scope of delivery

Vise, operating manual; without system jaws, without plug connection cable for integration into the machine control

Notes

Programmable clamping force

The clamping force can be continuously adjusted via the software in a range from 6 kN to 40 kN per chuck jaw.

Jaw pre-positioning and programmable clamping stroke

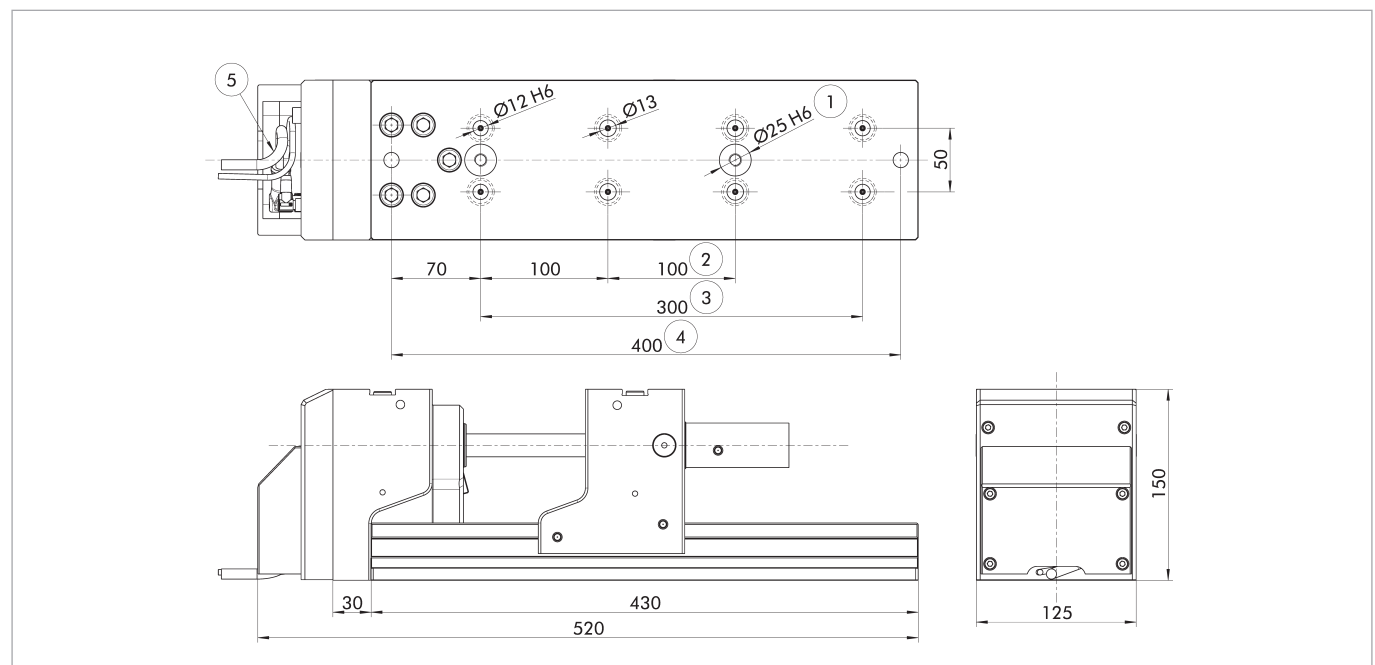
The jaws can be pre-positioned depending on the workpiece size so that the clamping stroke and clamping time can then be reduced to a minimum during automated loading processes.

Pneumatic media transfer into the system jaw

For workpiece contact control via dynamic pressure or cleaning of the clamping surfaces.
The system jaws must be prepared accordingly by the customer.

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
- ② Prepared for M12 screws
- ③ Grid dimension prepared for screws M12 and fitting screws M12
- ④ Prepared for dowel pin set Ø 12m6
- ⑤ IO-Link and power connection cable

System jaws

Reversible jaw

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



Suitable for	Description	Interface	ID
KSX-E 125-430-CI IOL	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-E 125-430-CI IOL	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-E 125-430-CI IOL	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-E 125-430-CI IOL	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-E 125-430-CI IOL	SGAL 125-76-40		0432257

Steel jaw

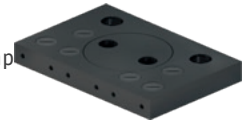
Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Suitable for	Description	Interface	ID
KSX-E 125-430-CI IOL	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-E 125-430-CI IOL	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-E 125-430-CI IOL	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.

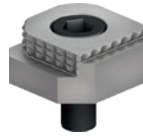


Suitable for	Description	Interface	ID
KSX-E 125-430-CI IOL	SG6F 125-81.5-40		0432486

Top jaws

6-way reversible jaws grip

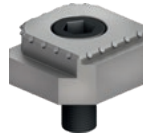
With five grip steps as well as a coated clamping face.



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

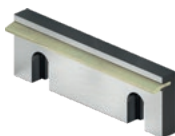
For precise clamping of round workpieces.
100 = Ø11 - Ø41 mm.
125 = Ø14 - Ø48 mm.
160 = Ø16 - Ø60 mm.



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-E 125-430-CI IOL	IFT SST Set	1475766

Clamping pins SPx

Clamping pin for positive connection with NSE3 clamping modules.



Suitable for	Description	ID
KSX-E 125-430-CI IOL	SPA 40	0471151
KSX-E 125-430-CI IOL	SPB 40	0471152

Clamping pin GFD-SP

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



Suitable for	Description	ID
KSX-E 125-430-CI IOL	GFD-SP 40	0433600

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-E 125-430-CI IOL	GWSA M8-46	1645260

Magnetic workpiece stop, small

For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KSX-E 125-430-CI IOL	GWSA-M 60 x 15	1391293

Magnetic workpiece stop, large

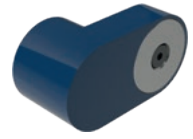
For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KSX-E 125-430-CI IOL	GWSA-M 115 x 15	1391331

Extensions

As an accessory for the magnetic workpiece stops.



Suitable for	Description	ID
KSX-E 125-430-CI IOL	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-E 125-430-CI IOL	GSC-S M10-T12	12 mm/M10	0432043
KSX-E 125-430-CI IOL	GSC-S M12-T14	14 mm/M12	0432044
KSX-E 125-430-CI IOL	GSC-S M14-T16	16 mm/M14	0432045
KSX-E 125-430-CI IOL	GSC-S M16-T18	18 mm/M16	0432046
KSX-E 125-430-CI IOL	GSC-S M16-T20	20 mm/M16	1550423
KSX-E 125-430-CI IOL	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-E 125-430-CI IOL	GPSC-2 Ø12f7-M12	0490546

Precision T-nuts

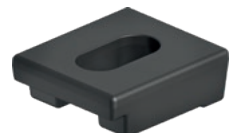
Suitable for all conventional T-groove widths of machine tables.



Suitable for	Description	T-slot	ID
KSX-E 125-430-CI IOL	GPN M6-T12	12 mm/M6	0490590
KSX-E 125-430-CI IOL	GPN M6-T14	14 mm/M6	0490547
KSX-E 125-430-CI IOL	GPN M6-T16	16 mm/M6	0490548
KSX-E 125-430-CI IOL	GPN M6-T18	18 mm/M6	0490587
KSX-E 125-430-CI IOL	GPN M6-T20	20 mm/M6	1359734
KSX-E 125-430-CI IOL	GPN M6-T22	22 mm/M6	0490621

Clamping claws

For quick and easy mounting of SCHUNK clamping devices.



Suitable for	Description	ID
KSX-E 125-430-CI IOL	GSPR-A 50-57	0490604

Bolt extractor

Used to pull out the locking bolt when replacing the drawbar extension.



Suitable for	Description	ID
KSX-E 125-430-CI IOL	GBR KSX-E	1604189

Cover plate

To cover the mounting screws of the base body.
(1 piece)



Suitable for	Description	ID
KSX-E 125-430-CI IOL	VSD KSX-E	xxx

Drawbar extensions

Drawbar extension

For extending the clamping range from 100 to 220 mm.



Suitable for	Description	Length mm	ID
KSX-E 125-430-CI IOL	GZV-3 320	234	1604185

Drawbar extension

For extending the clamping range from 200 to 420 mm.



Suitable for	Description	Length mm	ID
KSX-E 125-430-CI IOL	GZV-3 420	224	1604186

IO-Link components

IO-Link connection cable

Connection cable with M8 angular plug, open end, A-coded.



Suitable for	Description	Length m	ID
KSX-E 125-430-CI IOL	SWC-4P-M8-5M-OE-A	5	1536796

Power connection cable

Connection cable with M12 angular plug, open end, T-coded.



Suitable for	Description	Length m	ID
KSX-E 125-430-CI IOL	SWC-4P-M12-5M-OE-T	5	1476012

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-E 125-430-CI IOL	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-E 125-430-CI IOL	GWU-M 125-8	8	1450266
KSX-E 125-430-CI IOL	GWU-M 125-9	9	1462567
KSX-E 125-430-CI IOL	GWU-M 125-10	10	1411328
KSX-E 125-430-CI IOL	GWU-M 125-12	12	1447369
KSX-E 125-430-CI IOL	GWU-M 125-15	15	1411350
KSX-E 125-430-CI IOL	GWU-M 125-20	20	1452308
KSX-E 125-430-CI IOL	GWU-M 125-22	22	1457551
KSX-E 125-430-CI IOL	GWU-M 125-23	23	1411380
KSX-E 125-430-CI IOL	GWU-M 125-25	25	1484475
KSX-E 125-430-CI IOL	GWU-M 125-27	27	1461008
KSX-E 125-430-CI IOL	GWU-M 125-30	30	1411387
KSX-E 125-430-CI IOL	GWU-M 125-31	31	1484477
KSX-E 125-430-CI IOL	GWU-M 125-32	32	1411398
KSX-E 125-430-CI IOL	GWU-M 125-33	33	1484478
KSX-E 125-430-CI IOL	GWU-M 125-34	34	1484480
KSX-E 125-430-CI IOL	GWU-M 125-35	35	1411391
KSX-E 125-430-CI IOL	GWU-M 125-36	36	1429618
KSX-E 125-430-CI IOL	GWU-M 125-37	37	1411395
KSX-E 125-430-CI IOL	GWU-M 125-38	38	1429615



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