

Automate your success

Think about tomorrow today!

Restructure the way you work and get more out of your work resources!

We bring success to you and your customers with our pneumatic automation clamps. What does that mean for you?
More output - less manpower required, not only on weekends!



ZSP

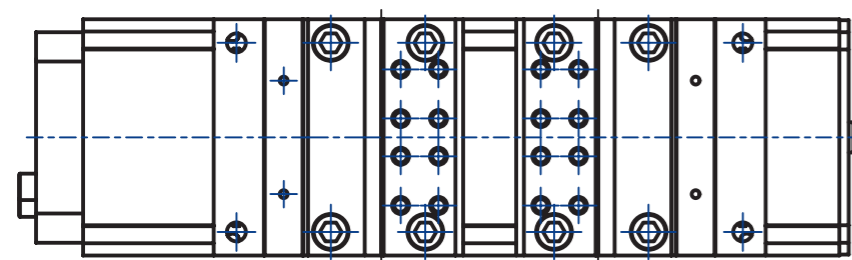
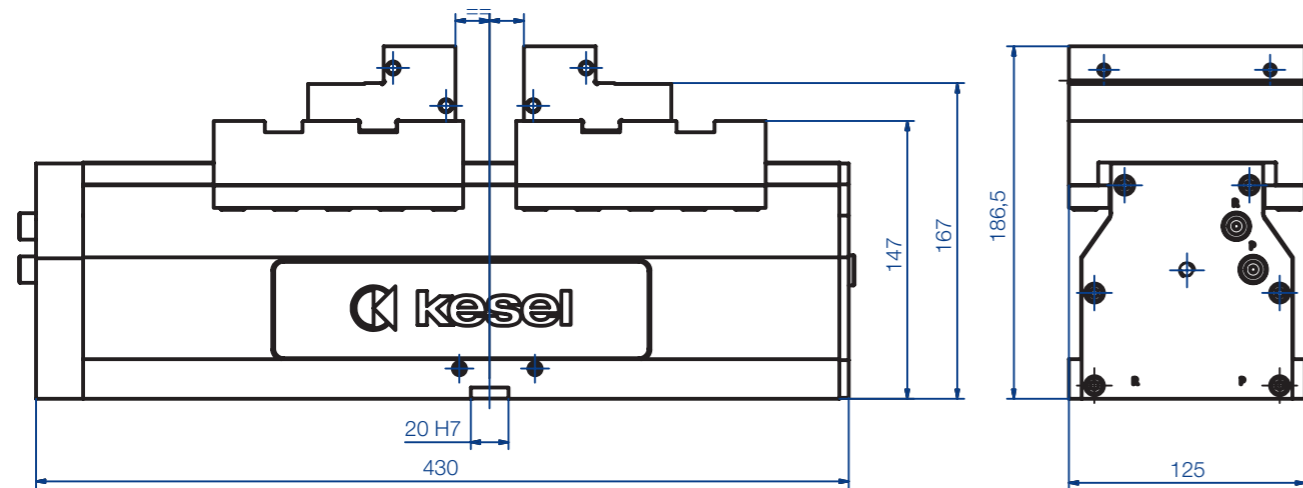
Pneumatic centering clamp

Your work pieces need machining from multiple sides? Then the ZSP is the perfect vise for automated, multi-side machining. A pneumatic, centric clamp designed for 5-side machining, the ZSP can be integrated easily into manual or fully automated operations.

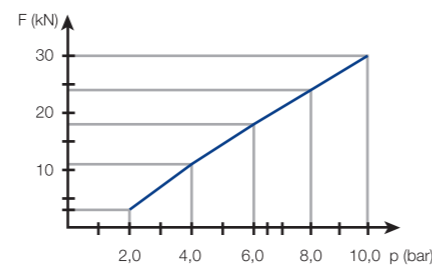
- > Unrestricted 5-side machining
- > Optimal tool accessibility
- > Fully encapsulated system
- > Safe and easy part placement with automation
- > Perfect hold due to maximum clamping force
- > Stable/solid base body prevents vibrations
- > The right jaw for every workpiece
- > No additional hydraulic power unit necessary

Scope of delivery:

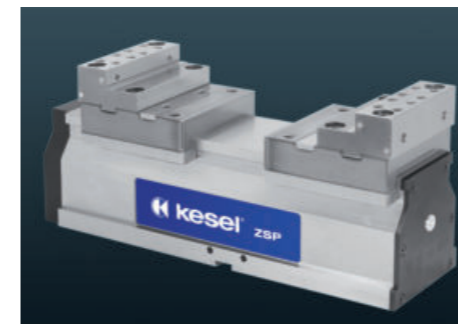
Vise incl. 4 clamping claws + 1 operating key



Clamping force diagram

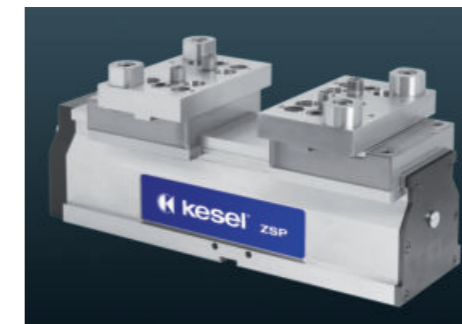


Order no.	Jaw width	Clamping range	Clamping force	Clamping stroke
04.25.155.0001	125 mm	High jaw side 12 – 203 mm Step side 100 – 291 mm	max. 30 kN at 10 bar pressure	max. 5 mm (2.5 mm on both sides)
Base body (L x W x H)	Total length	Total height (with jaws)	Connection thread for compressed air	Weight
400 x 125 x 125 mm	430 mm	186.5 mm	G 1/8"	41 kg



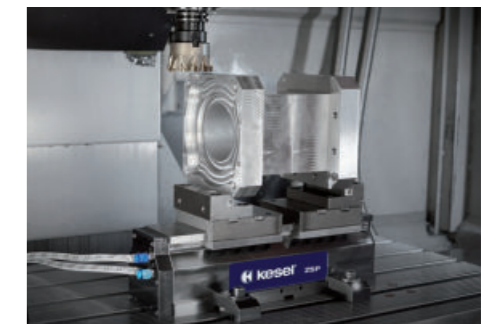
Large clamping range

Up to 296 mm can be realized by turning the clamping jaws around



Many more clamping options

When using the multijaws with grip inserts



Application on a vertical milling machine.

Air supply via 2 hoses



Application on a 5-axis milling machine.

Air supply via the rotary feed-through of the machine, as well as an under-screwed connection plate.



ZSP on a 5-axis milling machine

With 0-point clamping system



ZSP ideally suited for robot loading

Due to large clamping stroke (5mm)

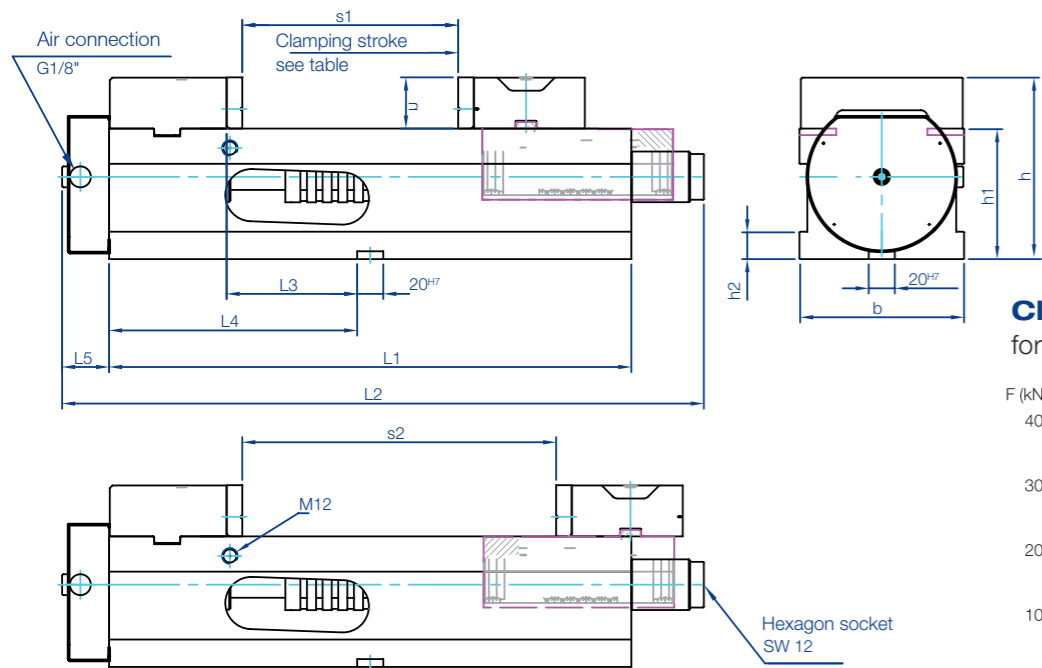
Bull pneumatic

Your workpieces are primarily machined vertically? Then the Bull is the right choice for your automated production. Pneumatic high-pressure clamp with tension clamping system and patented clamping width adjustment for series parts. Clamping without force.

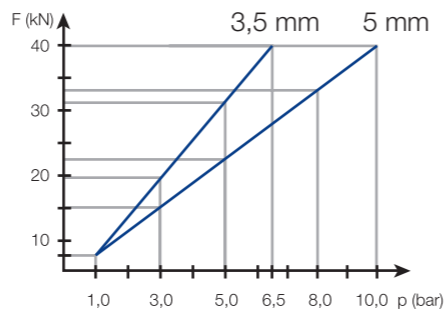
- > Easy clamping, whether by automation or manually
- > Integrated force amplifier for high clamping forces
- > No penetration of the chip into the spindle area
- > Unique quick adjustment to the desired span width
- > Deformation-resistant base body
- > Compact design for milling machines and machining centers
- > No additional hydraulic power unit necessary

Scope of delivery:

Vise incl. 4 clamping claws + 1 operating key

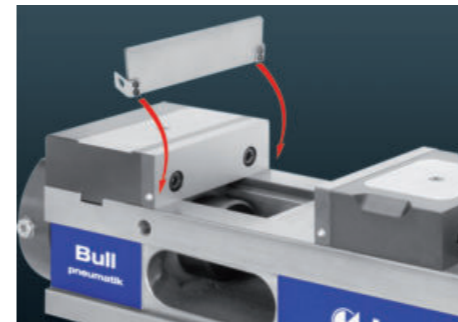


Clamping force diagram for clamping stroke



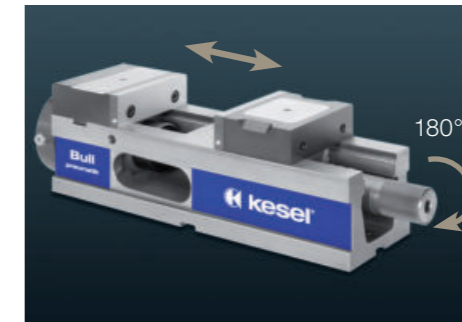
Size b	Order no.	Jaws	max. Clamping force kN	max. Compressed air bar	Clamping range		Clamping stroke	Weight kg
					s1	s2		
125	04.25.153.001.9	Block jaws	40	6.5	0-165	80-240	3.5 mm	35
125	04.25.153.0003	Step jaws	40	6.5	3-270 With attachment jaws	100-345	3.5 mm	35
125	04.26.153.0000	Block jaws	40	10	0-165	80-240	5 mm	35
125	04.26.153.0002	Step jaws	40	10	3 - 270 With attachment jaws	100 - 345	5 mm	35

Size b	L1	L2	L3	L4	L5	h	h1 ±0,01	h2
125	400	494	88	190	36	140	100	21



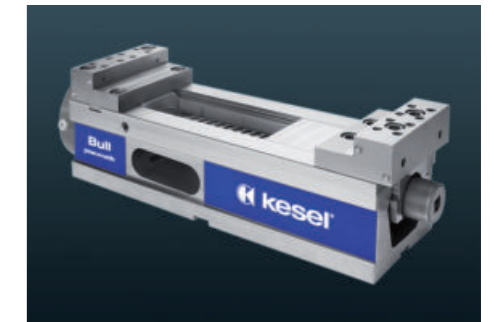
Step ledge quick release system

- > Step ledges are "clicked" into place clicked in by hand
- > Safe and stable hold even when using use of compressed air



Quick adjustment of the clamping range

- > By turning the spindle by 180° the span the span can be adjusted very quickly adjusted



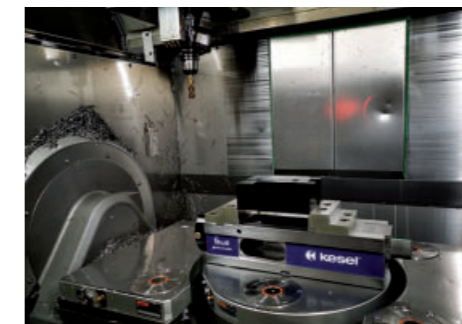
With step jaws

- > Chucking width 3-345 mm



On vertical milling machine

- > Air supply via 1 hose



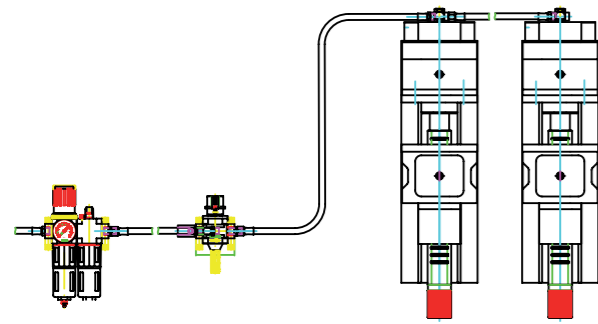
On 5-axis milling machine



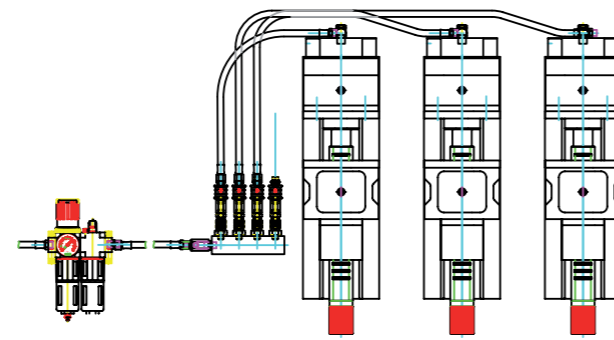
For robot loading

- > Clamping stroke 3.5 mm or 5 mm

Example Applications:



2 x Bull pneumatic clamping simultaneously



3 x Bull pneumatic clamping individually

ZSP and BULL pneumatic accessories



Maintenance unit for an oiled compressed air and adjusting the clamping force

Order no.	Thread
01.25.153.110.9	G 1/8"



Foot valve

Order no.	Thread
33.21.032.007.9	G 1/4"



Rotary knob on-off valve with threaded connection plate. Design as 3/2 way valve, manually actuated

Order no.
01.25.153.114.9



Check valve

Order no.	Thread
33.11.032.012.9	G 1/8"



Hand lever valve 4/3 way

Order no.	Thread
33.25.155.0004	G 1/8"



Check valve lockable

Order no.	Thread
33.21.032.009.9	G 1/8"



Manual slide valve 3/2 Way
only for Bull Pneumatic

Order no.	Thread
01.25.153.113.9	G 1/8"



Quick exhaust valve

Order no.	Thread
33.11.032.007.9	G 1/8"



Magnet valve 3/2 Way
only for Bull Pneumatic

Order no.	Thread
33.40.428.029.9	G 1/4"



Quick release coupling

Coupling connector and coupling socket for quick set-up

Order no.	Thread
01.25.153.115.9	G 1/8"

ZSP and BULL pneumatic accessories



Magnet valve 5/3 way

Order no.	Thread
33.25.155.0005	G 1/8"



L-threaded connection with internal thread, aluminium blue anodised, pivoting, incl. 2 PVC sealing rings

Order no.	Thread
01.25.153.111.9	G 1/8"



T-threaded connection with internal thread, aluminium blue anodised, pivoting, incl. 2 PVC sealing rings

Order no.	Thread
01.25.153.112.9	G 1/8"



High pressure hose with NW 4 mm, with brass connection both sides, G 1/8", metallic gauze sheath for protection against hot chips in the working area

Order no.	Diameter
01.25.153.101.9	0,3 m
01.25.153.102.9	0,5 m
01.25.153.103.9	1,0 m
01.25.153.104.9	2,0 m



Double threaded nipple and sleeve

Order no.	Thread
01.25.153.116.9	G 1/8"



Reduction nipple threaded connection, internal G 1/8" external G 1/4"

Order no.
33.40.428.003.9



Distributor strip threaded connection, internal G 1/4" external G 1/8"

Order no.
33.30.015.003.9



Smooth clamping jaw hardened, ground, standard equipment



Smooth clamping jaw soft (1.2842), milled, for the fabrication of moulding jaw



Clamping jaw with linear grooves for firmly gripping the workpieces

Size	Order no. Smooth clamping jaw hardened	Height	Thick- ness
125	01.25.152.014.4	39,2	12
Smooth clamping jaw soft			
125	01.11.105.002.5	39,2	12
Clamping jaw with linear grooves			
125	01.11.105.001.5	39,2	12

ZSP and BULL pneumatic accessories



Smooth clamping jaw with step, hardened and ground, for saving clamping supports

Size	Order no.	Step	Thick-ness	Height
125	01.11.105.003.5	3 x 6	12	39,2
125	01.11.105.008.5	5 x 10	12	39,2



Clamping jaw with corrugation hardened and ground

Size	Order no.	Height	Thick-ness	Gripper Order no.	Thread
125	01.26.160.035.3	40	12	01.26.160.048.4	M 10



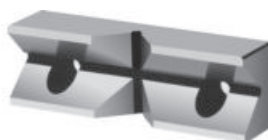
Grip clamping jaw, hardened, with step

Size	Order no.	Height	Thickness	Step
125	01.25.150.0002	40	12	3x3



Prism jaw with horizontal prism 120°
hardened and ground

Size	Order no.	Height	Thick-ness	Clamping diameter	
				with 1 jaw	with 2 jaw
125	01.11.105.005.4	39,2	20	ø 9-50	ø 14-50



Prism jaw with horizontal and vertical prism 90°
hardened and ground

Size	Order no.	Height	Thick-ness	Clamping diameter	
				with 1 jaw	with 2 jaw
125	01.11.105.004.4	39,2	28	ø 15-42	ø 24-42



Pendulum jaw with smooth slide, hardened and ground, for clamping conical workpieces

Size	Order no.	Height	Thickness
125	04.13.125.150.9	39,2	43

ZSP and BULL pneumatic accessories



Pull-down jaw smooth, the workpiece is hold securely, with a deep drawing effect

Size	Order no.	Height	Thickness
125	04.13.125.200.9	39,2	25



Pull-down jaw for raw parts with inset spring plate for clamping raw parts. The spring plate establish a secure hold and deep drawing effect

Size	Order no.	Height	Thickness
125	04.13.125.250.9	40	21



Universal top jaw with angle adjustment possibility hardened and ground

Size	Order no.	Height	Thickness
125	04.13.125.400.9	42	10



Workpiece stop adjustable

Size	Order no.	Thread
125	03.11.008.001.4	M 12



Step ledges

Size	Order no.	Height	Thickness
125	04.25.150.061	15	3
125	03.26.160.022.9	20	3
125	03.25.160.024.9	35	3
125	03.26.160.002.9	39	3



Manual crank in shortened design for use in place of the standard manual crank, if the throughput height to the machine table is too small

Size	Order no.	Length	Width
125	03.15.103.001.4	110	90