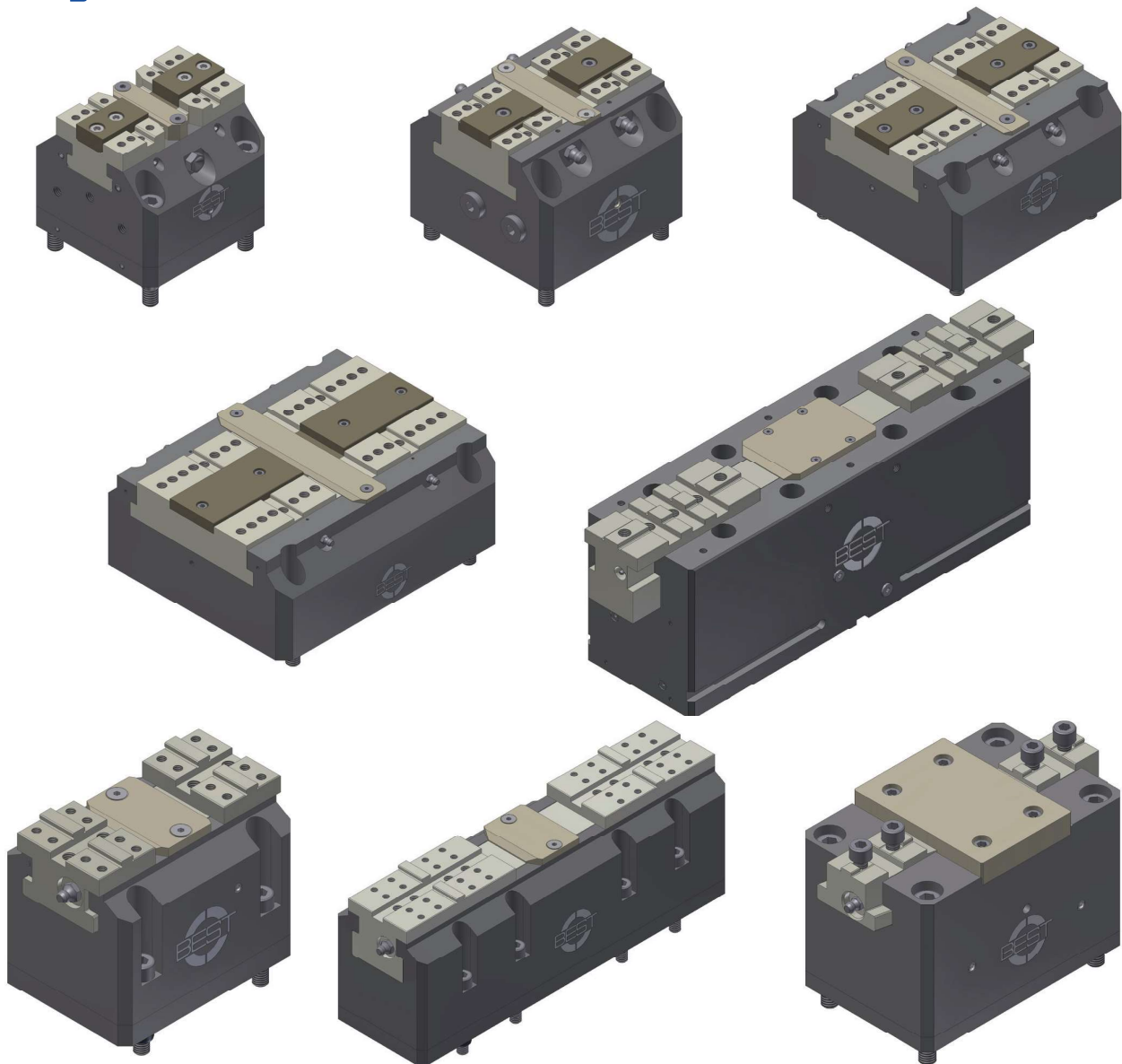


5.2. Hydraulic vice models

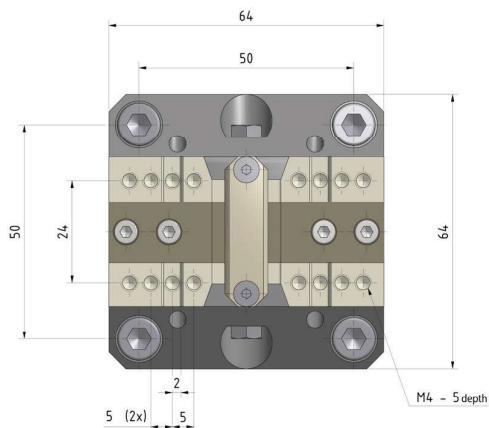
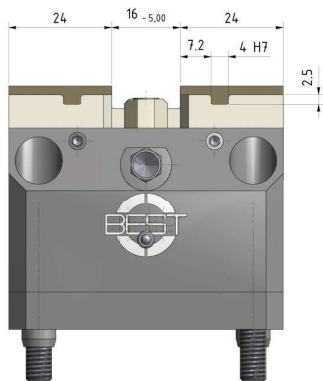
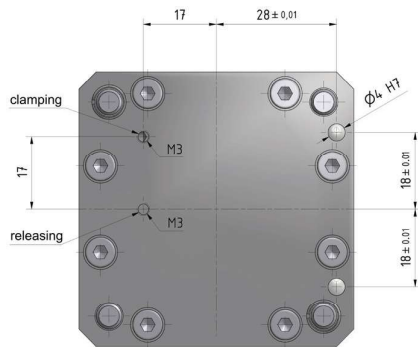
5.2.1 Hydraulic centric vices



Advantages of the BEST hydraulic vices:

- Extremely high rigidity as a result of solid design
- Extremely high clamping forces (up to 50 kN)
- Housing sizes from 64 mm to 500 mm
- Repetition accuracy of 0.005 mm (with ground-in jaws)
- Centring accuracy of ± 0.01 mm (with ground in jaws)
- Jaw widths of up to 500 mm
- Low wear due to nitrogen-hardened surfaces
- Suitable for internal or external clamping
- Individual special solutions / customer-specific customisations available on request (Please provide us with the specific data for your application, and we will send you a technical draft together with an offer for the number of items you require)

5.2.1.1 Hydraulic centric vice BSH-64



Technical data:

Order number:	100-0064-001
Designation:	BSP-64
Dimensions (LxWxH):	64 x 64 x 55 mm
Weight:	1.4 kg
Clamping range:	0–55 mm
Stroke per jaw:	2.5 mm
Max. actuating pressure:	65 bar
Min. actuating pressure:	5 bar
Max. clamping force:	4.8 kN
Stroke volume:	6 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the side and underside

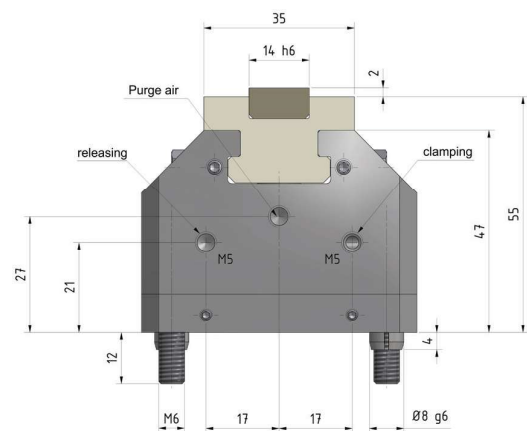
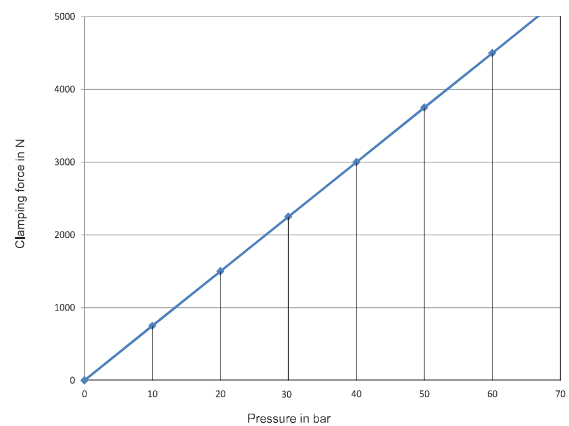


Chart clamping force BSH-64



Optional additional functions:

- Clamping path monitoring
- Fixed jaw
- Central lubrication system
- Sealing air

See optional additional functions, page 77.

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

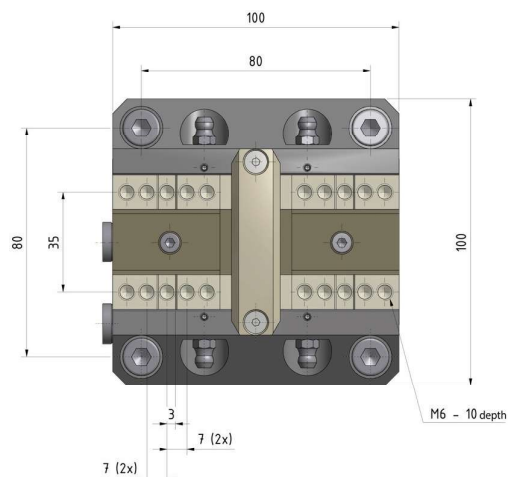
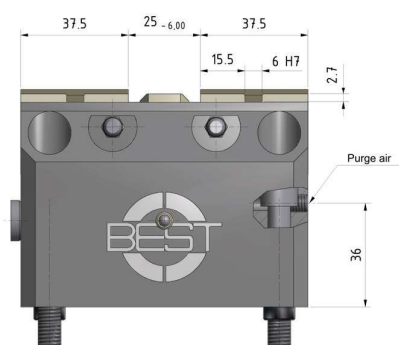
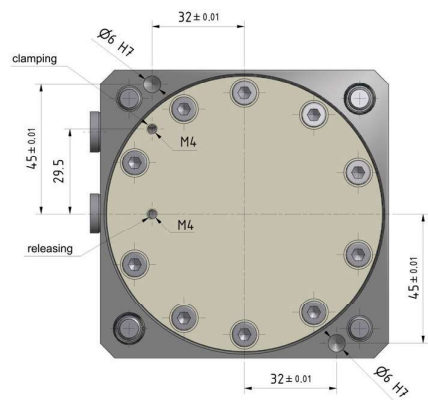
Matching blank jaw:

Order number:	301-0034-001
Dimensions (WxLxH):	36 x 29 x 18 mm
Material:	16 MnCr5

Seal set (for maintenance):

Order number:	100,300,064
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5.2.1.2 Hydraulic centric vice BSH-100



Optional additional functions:

- Clamping path monitoring
- Central lubrication system
- Fixed jaw
- Sealing air

See optional additional functions, page 77.

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

Technical data:

Order number:	100-0100-001
Designation:	BSP-100
Dimensions (LxWxH):	100 x 100 x 74 mm
Weight:	5 kg
Clamping range:	0–90 mm
Stroke per jaw:	3 mm
Max. actuating pressure:	90 bar
Min. actuating pressure:	5 bar
Max. clamping force:	20.25 kN
Stroke volume:	19 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the side and underside

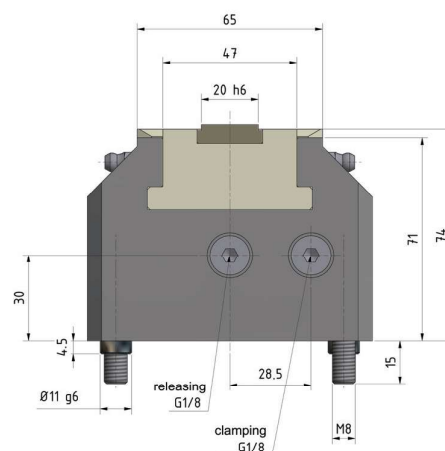
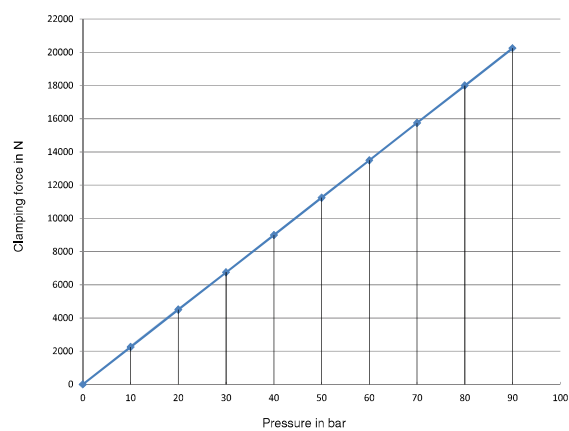


Chart clamping force BSH-100



Matching blank jaw:

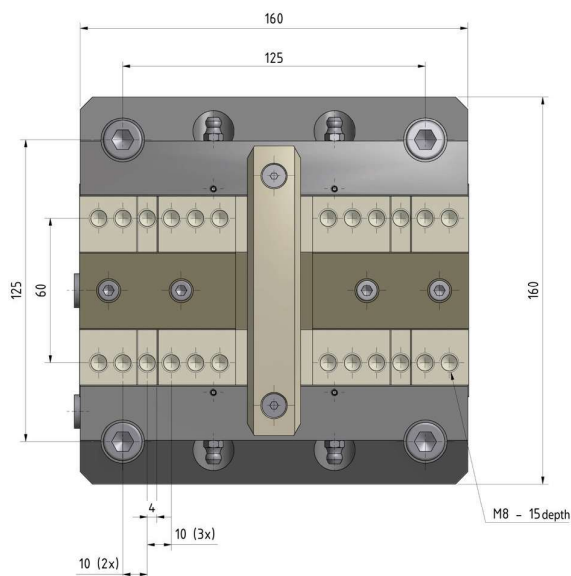
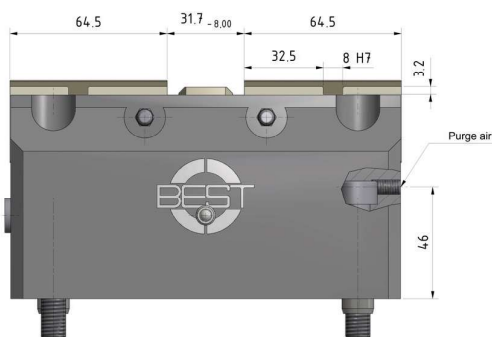
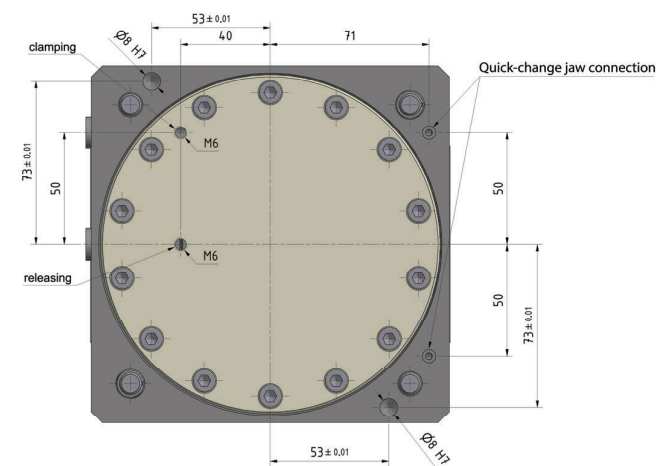
Order number:	301-0060-002
Dimensions (WxLxH):	60 x 45 x 30 mm
Material:	16 MnCr5

Seal set (for maintenance):

Order number:	100,300,100
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5.2.1.3 Hydraulic centric vice BSH-160



Optional additional functions:

- Clamping path monitoring
- Fixed jaw
- Central lubrication system
- Sealing air

See optional additional functions, page 77.

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

Technical data:

Order number:	100-0160-001
Designation:	BSP-160
Dimensions (LxWxH):	160 x 160 x 87 mm
Weight:	16 kg
Clamping range:	0–150 mm
Stroke per jaw:	4 mm
Max. actuating pressure:	80 bar
Min. actuating pressure:	5 bar
Max. clamping force:	47 kN
Stroke volume:	65 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the side and underside

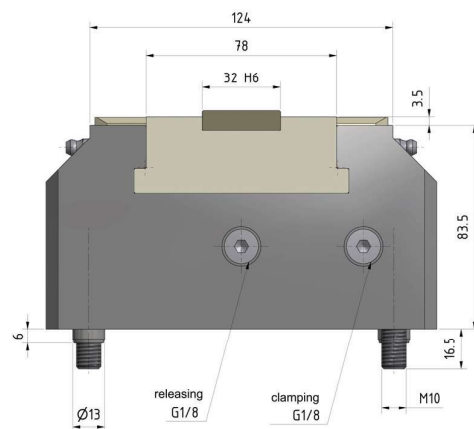
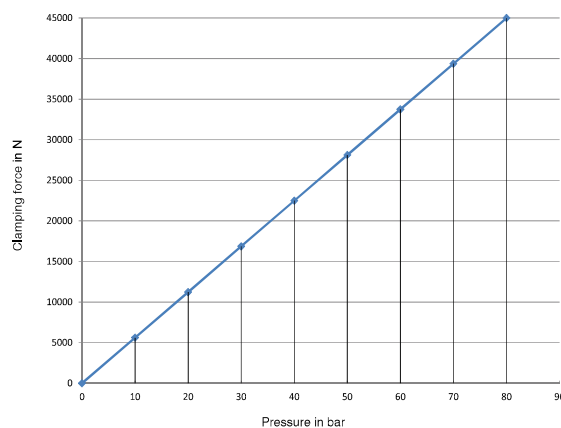


Chart clamping force BSH-160



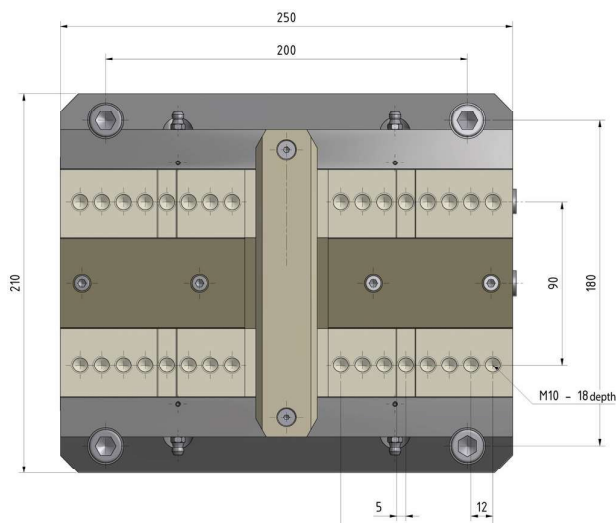
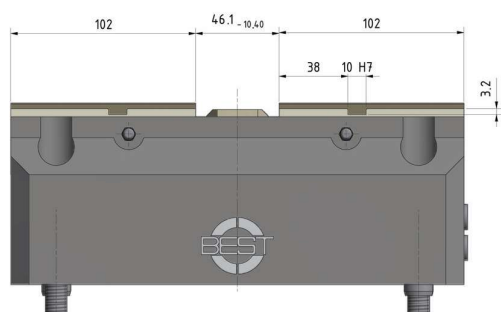
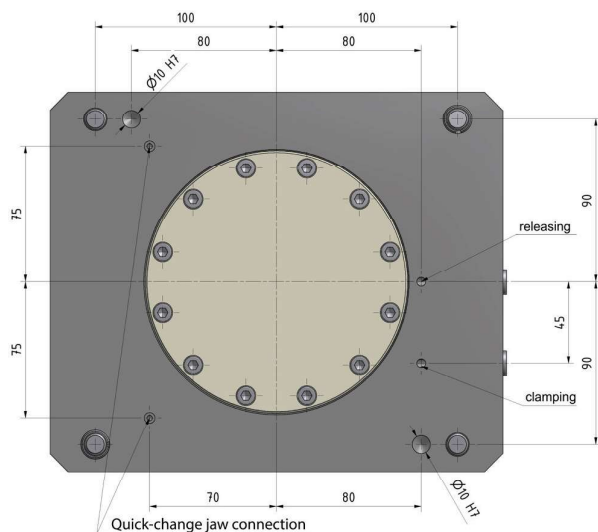
Matching blank jaw:

Order number:	301-0094-008
Dimensions (WxLxH):	94 x 67 x 50 mm
Material:	16 MnCr5

Seal set (for maintenance):

Order number:	100,300,160
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5.2.1.4 Hydraulic centric vice BSH-250



Technical data:

Order number:	100-0250-002
Designation:	BSP-250
Dimensions (LxWxH):	210 x 250 x 97 mm
Weight:	35 kg
Clamping range:	0–240 mm
Stroke per jaw:	5.2 mm
Max. actuating pressure:	90 bar
Min. actuating pressure:	5 bar
Max. clamping force:	78 kN at 90 bar
Stroke volume:	121 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the side and underside

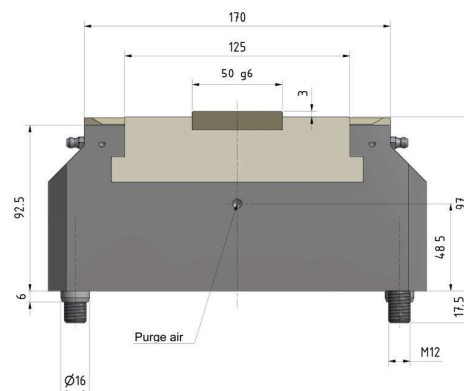
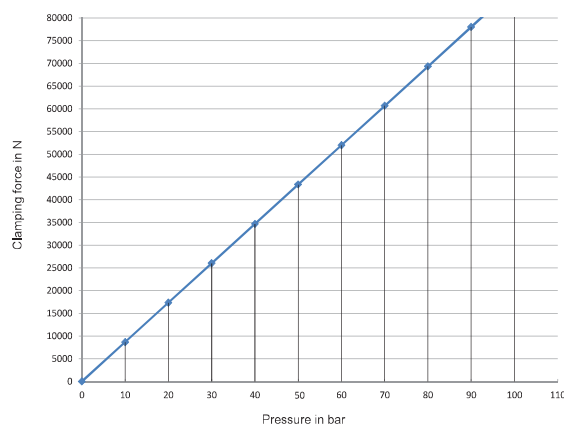


Chart clamping force BSH-250



Optional additional functions:

- Clamping path monitoring
- Fixed jaw
- Central lubrication system
- Sealing air

See optional additional functions, page 77.

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

Matching blank jaw:

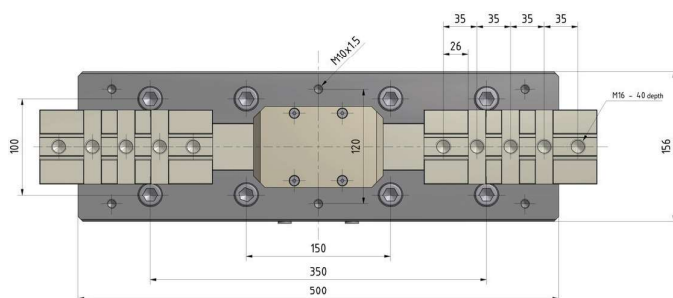
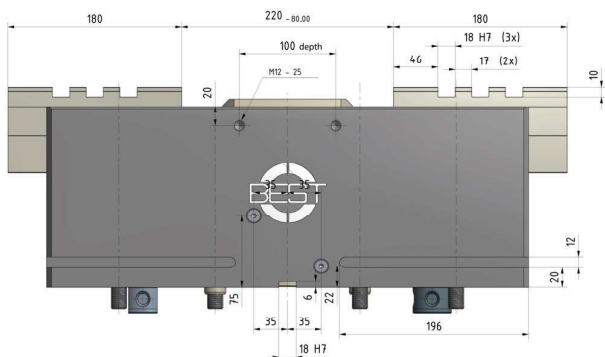
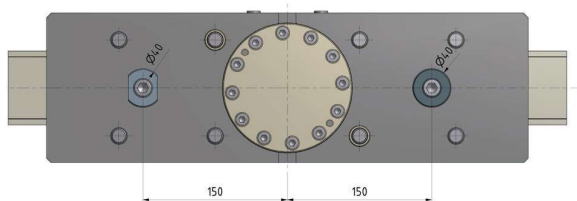
Order number:	301-0125-009
Dimensions (WxLxH):	125 x 100 x 60 mm
Material:	16 MnCr5

Seal set (for maintenance):

Order number:	100,300,250
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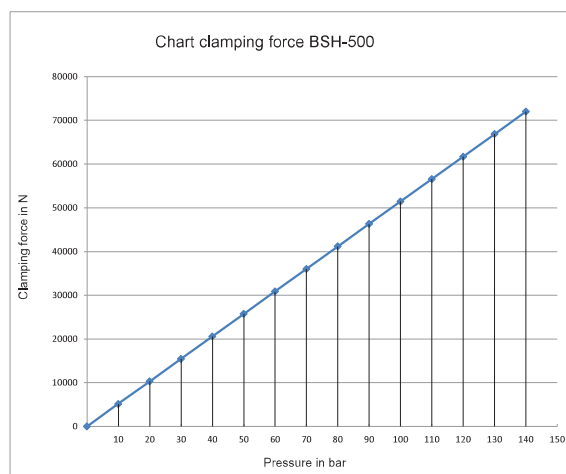
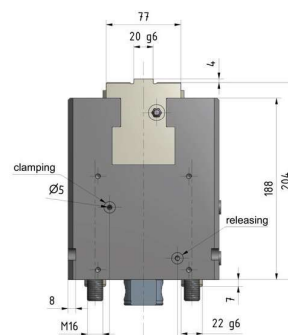


5.2.1.5 Hydraulic centric vice BSH-500



Technical data:

Order number:	100-0500-001
Designation:	BSP-500
Dimensions (LxWxH):	500 x 156 x 204 mm
Weight:	111 kg
Clamping range:	0–500 mm
Stroke per jaw:	40 mm
Max. actuating pressure:	140 bar
Min. actuating pressure:	5 bar
Max. clamping force:	72 kN at 140 bar
Stroke volume:	578 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the side, with hydraulic control unit



Optional additional functions:

- Clamping path monitoring
- Fixed jaw
- Central lubrication system
- Sealing air

See optional additional functions, page 77.

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

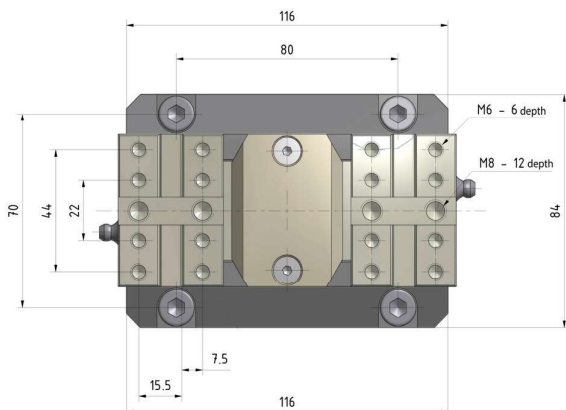
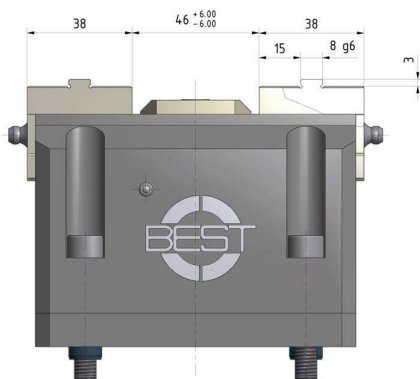
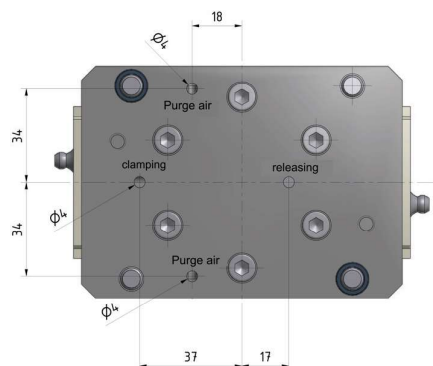
Matching blank jaw:

Order number:	301-0150-008
Dimensions (WxLxH):	180 x 150 x 70 mm
Material:	16 MnCr5

Seal set (for maintenance):

Order number:	100,300,500
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5.2.1.6 Hydraulic centric vice special size BSH-116



Optional additional functions:

- Clamping path monitoring
- Fixed jaw
- Sealing air

See optional additional functions, page 77.

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

Technical data:

Order number:	100-0116-001
Designation:	BSP-116
Dimensions (LxWxH):	116 x 84 x 94 mm
Weight:	6 kg
Clamping range:	0–100 mm
Stroke per jaw:	6 mm
Max. actuating pressure:	140 bar
Min. actuating pressure:	5 bar
Max. clamping force:	17.5 kN at 140 bar
Stroke volume:	23 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the underside

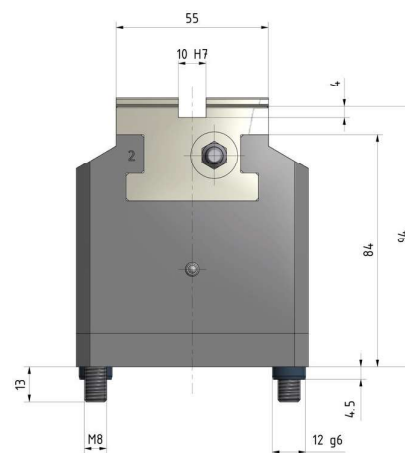
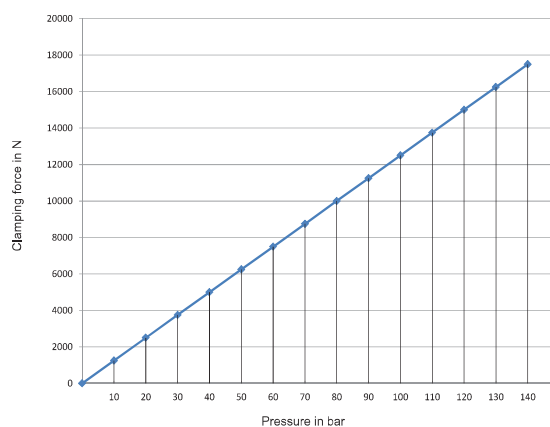


Chart clamping force BSH-116



Matching blank jaw:

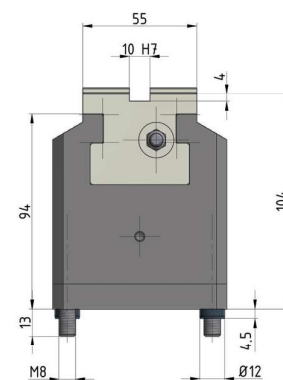
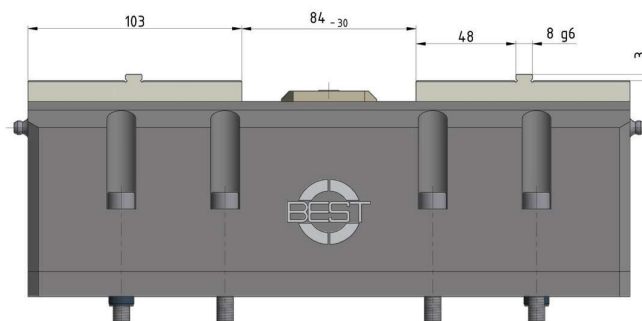
Order number:	301-0070-005
Dimensions (WxLxH):	70 x 50 x 50 mm
Material:	16 MnCr5

Seal set (for maintenance):

Order number:	100,300,116
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Vice with extra long stroke



The graph illustrates a linear relationship between Pressure in bar (x-axis) and Clamping force in N (y-axis). The x-axis ranges from 0 to 150 bar with major grid lines every 10 units. The y-axis ranges from 0 to 11000 N with major grid lines every 1000 units. A blue line with circular markers at each data point shows the linear increase in clamping force as pressure increases.

Pressure in bar	Clamping force in N
0	0
10	733
20	1467
30	2200
40	2933
50	3667
60	4400
70	5133
80	5867
90	6600
100	7333
110	8067
120	8800
130	9533
140	10267
150	11000

- Clamping path monitoring
- Sealing air
- Fixed jaw

Please let us know, if you require one of the additional functions, so that we can take this into consideration in the offer.

Order number:	100-0290-001
Designation:	BSP-290
Dimensions (LxWxH):	290 x 84 x 104 mm
Weight:	17 kg
Clamping range:	0–250 mm
Stroke per jaw:	15 mm
Max. actuating pressure:	150 bar
Min. actuating pressure:	5 bar
Max. clamping force:	11 kN at 150 bar
Stroke volume:	23 cm ³ per double stroke
Jaw connection:	Tongue and groove
Hydraulic connections:	On the underside

Order number:	301-0100-014
Dimensions (WxLxH):	130 x 100 x 50 mm
Material:	16 MnCr5

Order number:	100,300,116
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