



**ZERO POINT CLAMPING SYSTEMS  
2023/2024**

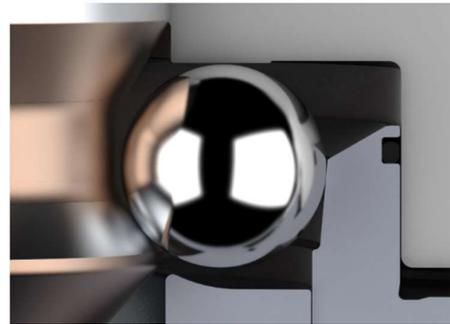
- Quick and Precise
- Modular Design
- High Clamping forces
- Pneumatically Actuated at 6 bar
- Simple Installation
- Completely Sealed Design
- Optimal Force Distribution
- All Parts from Stainless Steel



Due to special geometry at pin end, it's possible to load-unload pallet/ fixture at an angle .It makes run in-out of asymmetrical items easy.



Spring force permanently fixes the pin in the form-fit Precisely, which gives optimal downward force distribution.

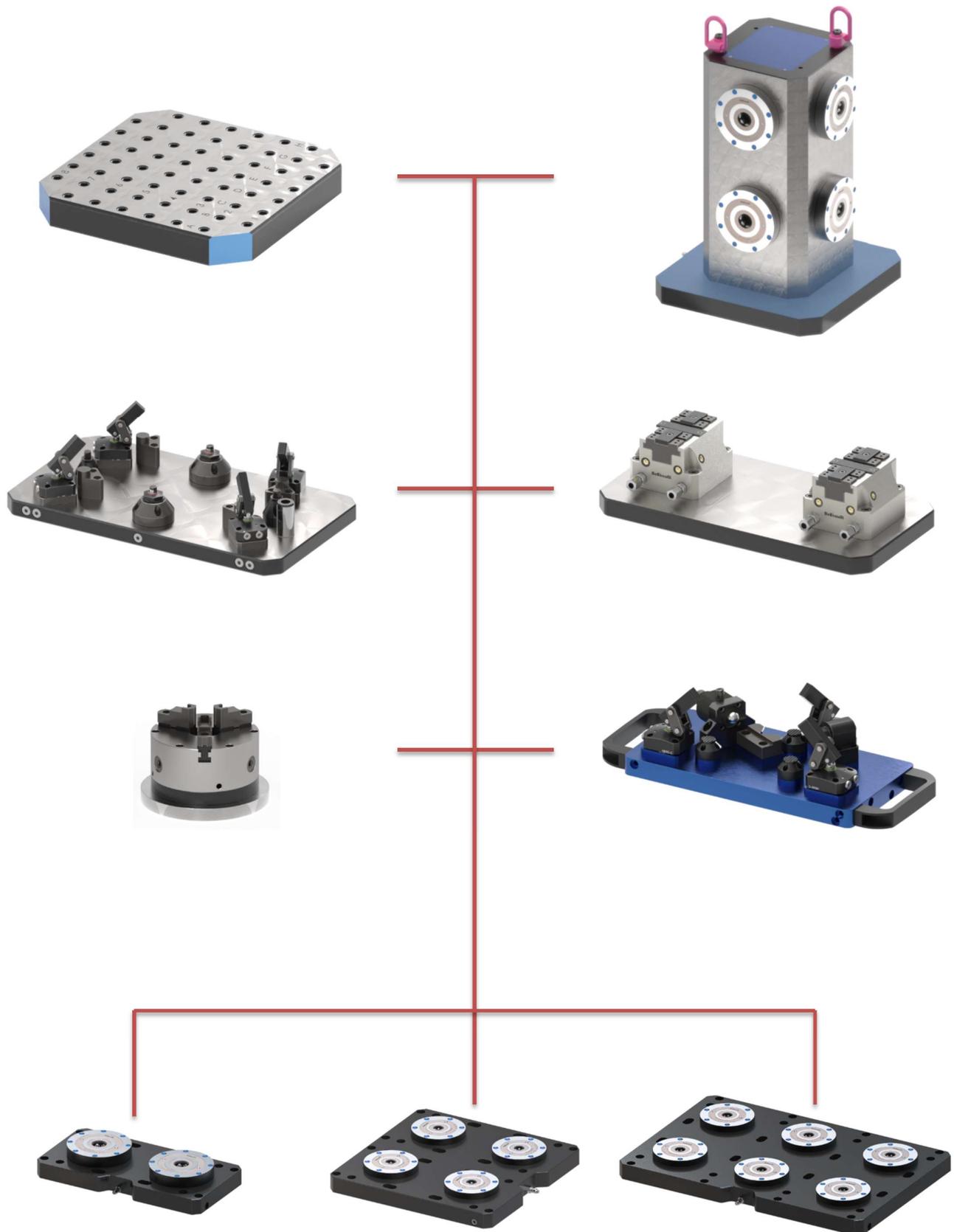


Element is completely sealed design, which makes It superior in terms of protection against foreign particles and coolant. No tedious machining operations for installation due to simple installation contour.



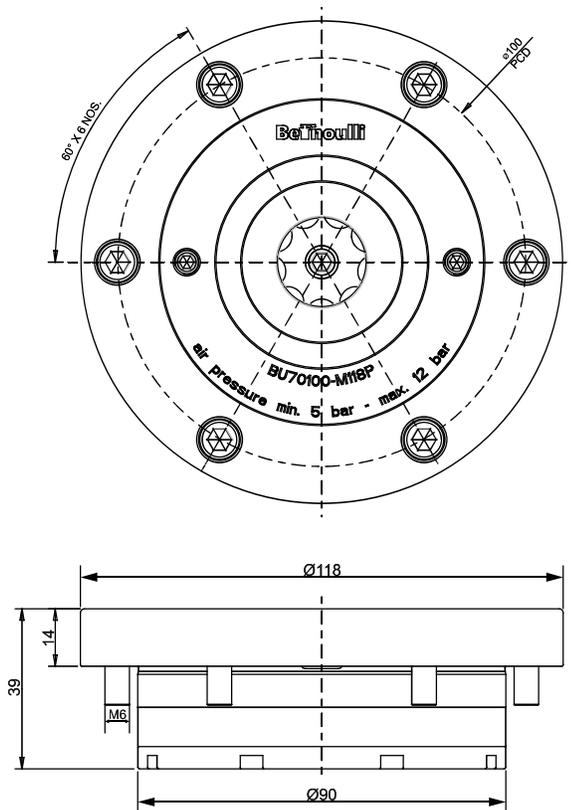
All parts made from superior quality stainless steel





### Clamping element QP.1

- Clamping element  $\varnothing 118\text{mm}$  made of high-quality stainless steel
- Completely sealed element - maintenance free
- Pneumatic opening - clamped mechanically through spring force
- Working pressure min 6bar- max 12bar
- For integration in machine tables, base plates, angles, cubes, tombstones, trunnion and rotary tables
- Can be used for milling, grinding, test stands and assembly devices.



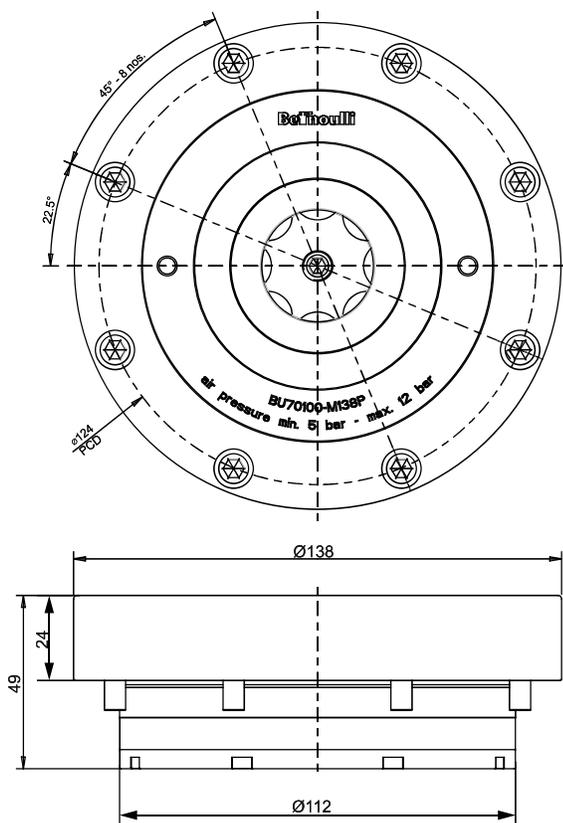
Description	Part No.	Pull-down force	Retention force	Repeat accuracy	Release pressure	Weight
QP.1	BU70100-M118P	10 kN	25 kN	<0.010 mm	6 bar	2.1 kg

### Items included

- Clamping element QP .1
- O-ring -  $\varnothing 6 \times 2$
- Fastening screw
- Screw cap

## Clamping element QP.2

- Clamping element  $\varnothing 138\text{mm}$  made of high-quality stainless steel
- Completely sealed element – maintenance free
- Pneumatic opening - clamped mechanically through spring force
- Working pressure min 6bar- max 12bar
- For integration in machine tables, base plates, angles, cubes, tombstones, trunnion and rotary tables
- Can be used for milling, grinding, test stands and assembly devices.



Description	Part No.	Pull-down force	Retention force	Repeat accuracy	Release pressure	Weight
QP.2	BU70100-M138P	16 kN	50 kN	<0.010 mm	6 bar	4.3 kg

## Items included

- Clamping element QP .2
- O-ring -  $\varnothing 6 \times 2$
- Fastening screw
- Screw cap

## Pin for QP.1

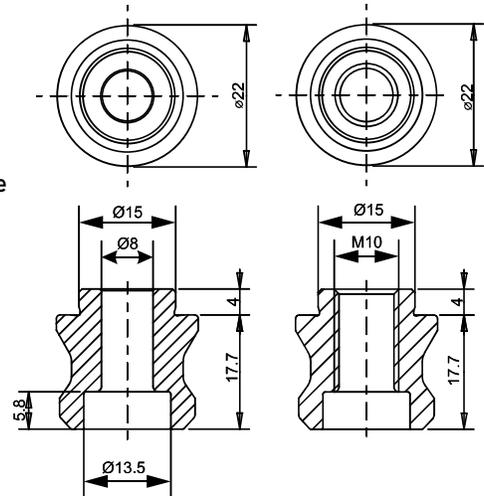
Zero Point Pin **Characteristics:**

Pin with zero point.

**Application:**

For mounting and positioning on fixture Plates, vise, chucks. Jigs or directly on workpiece.

Part No.	Bolt size	Tightening torque	Weight
BU70100-118PA-M08	M8	35 Nm	0.04 kg.
BU70100-118PA-M10	M10	60 Nm	0.04 kg.

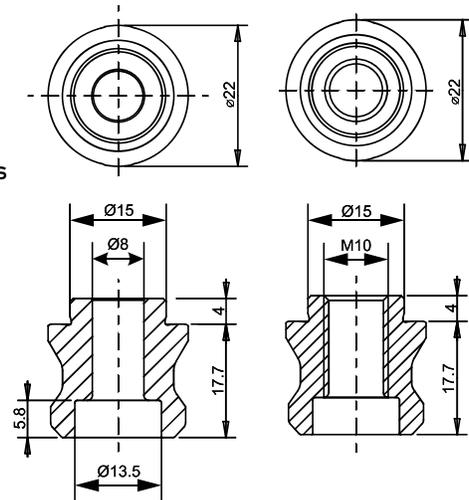
Diamond Pin **Characteristics:**

Pin with equalizer in one axis.

**Application:**

For mounting and positioning on fixtures Plates, vise, chucks. Jigs or direct on Workpiece.

Part No.	Bolt size	Tightening torque	Weight
BU70100-118PB-M08	M8	35 Nm	0.04 kg.
BU70100-118PB-M10	M10	60 Nm	0.04 kg.

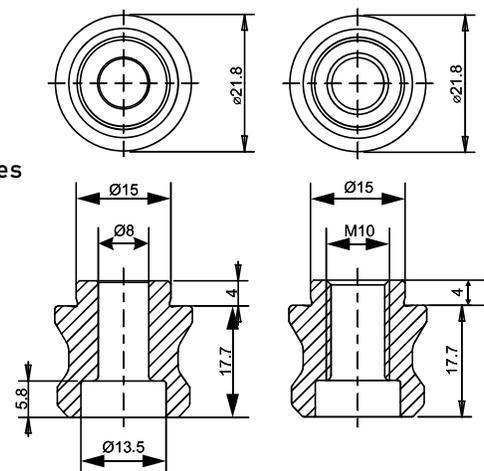
Undersize Pin **Characteristics:**

Pin with zero point.

**Application:**

For mounting and positioning on fixtures Plates, vise, chucks. Jigs or direct on workpiece.

Part No.	Bolt size	Tightening torque	Weight
BU70100-118PC-M08	M8	35 Nm	0.04 kg.
BU70100-118PC-M10	M10	60 Nm	0.04 kg.



Pin for QP.2

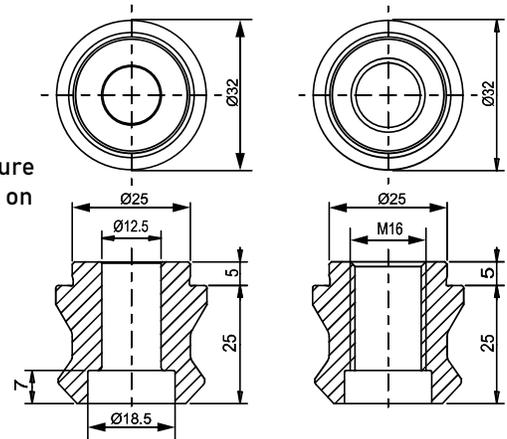
**Zero Point Pin** 



**Characteristics:**  
Pin with zero point.

**Application:**  
For mounting and positioning on fixture Plates, vise, chucks. Jigs or directly on workpiece.

Part No.	Bolt size	Tightening torque	Weight
BU70100-138PA-M12	M12	110 Nm	0.1 kg.
BU70100-138PA-M16	M16	200 Nm	0.1 kg.



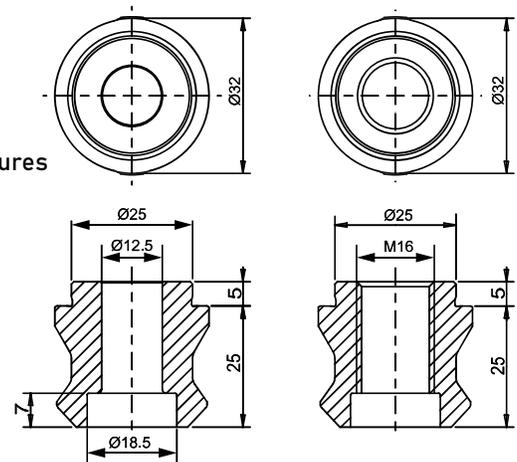
**Diamond Pin** 



**Characteristics:**  
Pin with equalizer in one axis.

**Application:**  
For mounting and positioning on fixtures Plates, vise, chucks. Jigs or direct on Workpiece.

Part No.	Bolt size	Tightening torque	Weight
BU70100-138PB-M12	M12	110 Nm	0.1 kg.
BU70100-138PB-M16	M16	200 Nm	0.1 kg.



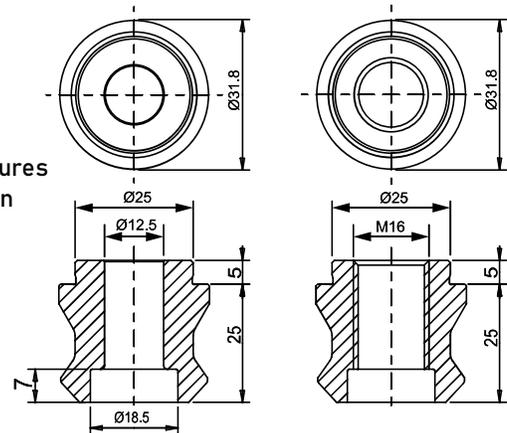
**Undersize Pin** 

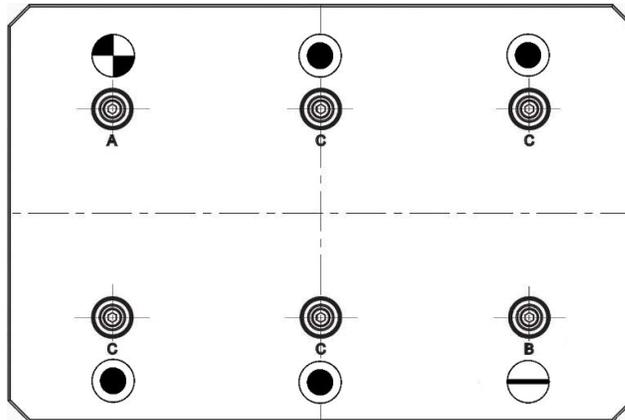


**Characteristics:**  
Pin with zero point.

**Application:**  
For mounting and positioning on fixtures Plates, vise, chucks. Jigs or direct on workpiece.

Part No.	Bolt size	Tightening torque	Weight
BU70100-138PC-M12	M12	110 Nm	0.1 kg.
BU70100-138PC-M16	M16	200 Nm	0.1 kg.





**Protection pin**



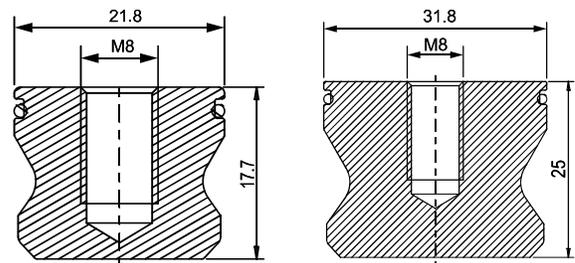
**Characteristics:**

Protection pin.

**Application:**

To cover clamping element against chips and coolant if not in use.

Part No.	Bolt size	Weight
BU70100-118PD	M08	0.04 kg.
BU70100-138PD	M08	0.12 kg.



**Protection Pin with collar**



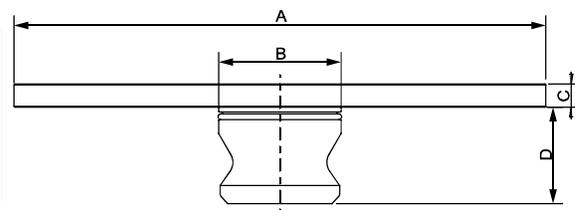
**Characteristics:**

Protection pin with collar.

**Application:**

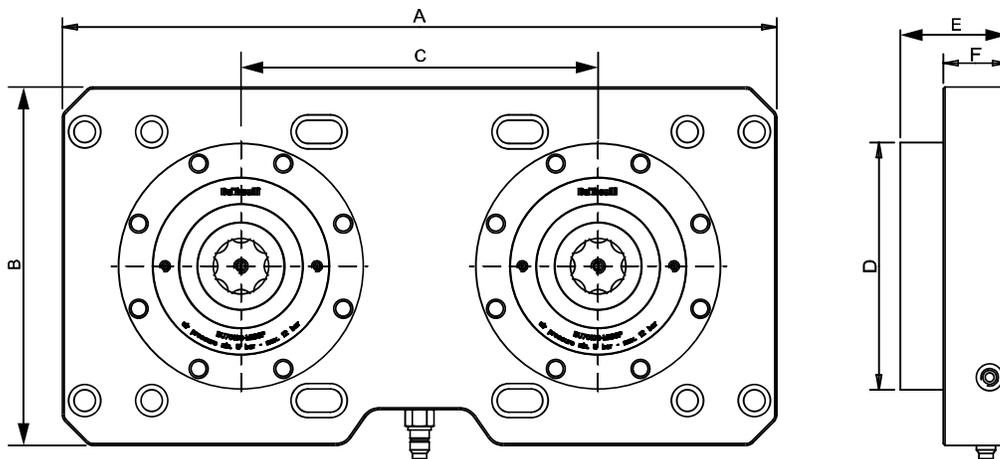
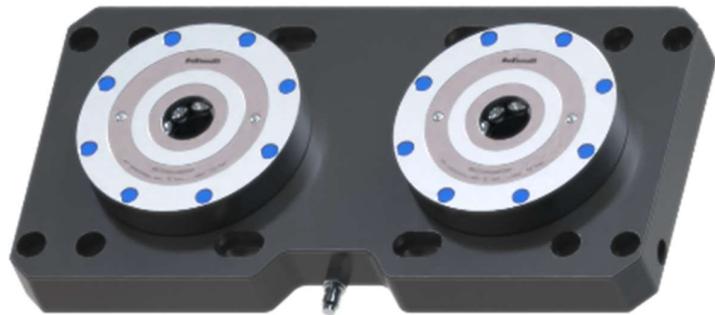
To cover clamping element against chips and coolant if not in use.

Part No.	A	B	C	D	Weight
BU70100-118PE	118	21.8	6	17.7	0.06 kg.
BU70100-138PE	138	31.8	6	25	0.16 kg.



### Clamp Plate-2 clamping element

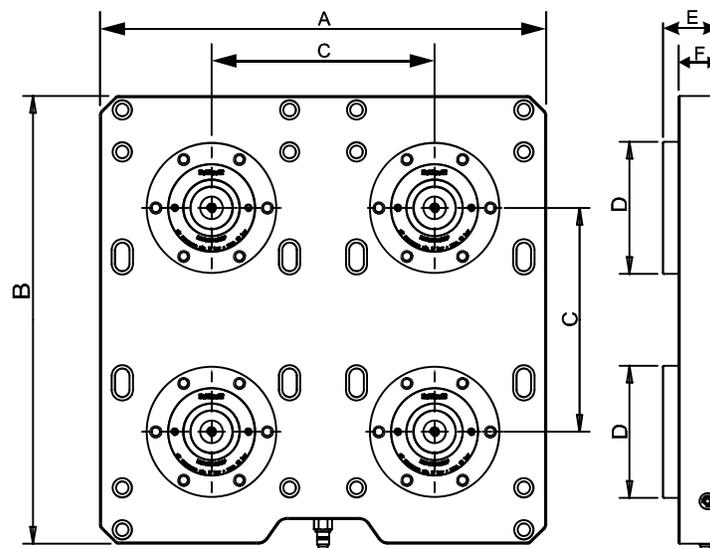
Clamp plate made of steel with 2 clamping elements either QP.1 or QP.2.  
 Plate is clamped mechanically and released pneumatically at 6 bar  
 Pull-down force QP.1- 2X10 kN  
 Pull-down force QP.2- 2X16 kN  
 Repeat accuracy < 0.01 mm



Part No.	A	B	C	D	E	F	Weight
BU70100-2MP118P	400	200	200	118	50	36	24 kg.
BU70100-2MP138P	400	200	200	138	60	36	28 kg.

## Clamp Plate-4 clamping element

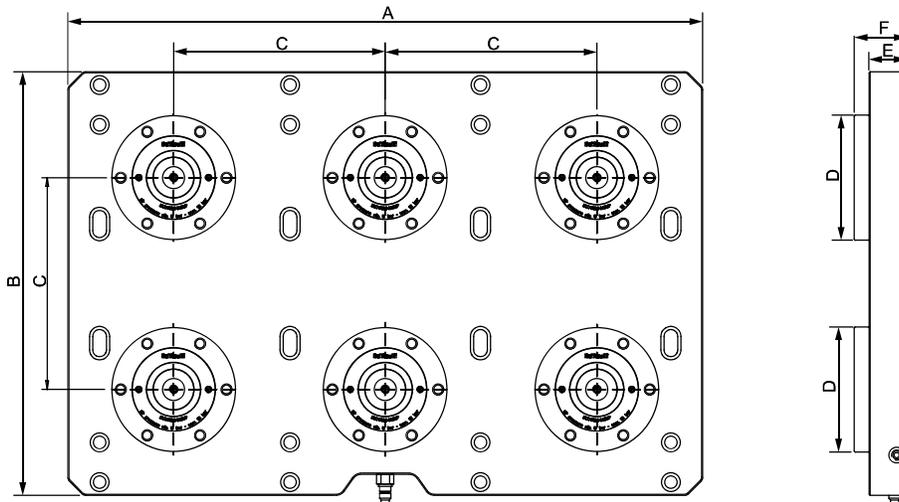
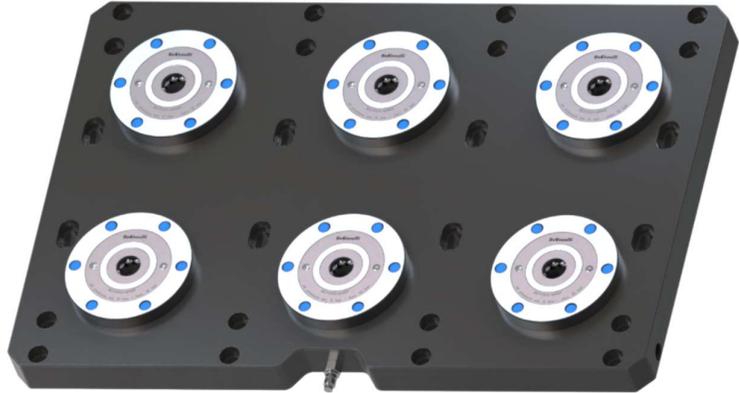
Clamp plate made of steel with 4 clamping elements either QP.1 or QP.2.  
 Plate is clamped mechanically and released pneumatically at 6 bar  
 Pull-down force QP.1- 4X10 kN  
 Pull-down force QP.2-4X16 kN  
 Repeat accuracy < 0.01 mm



Part No.	A	B	C	D	E	F	Weight
BU70100-4MP118P	400	400	200	118	50	36	48 kg.
BU70100-4MP138P	400	400	200	138	60	36	56 kg.

## Clamp Plate-6 clamping element

Clamp plate made of steel with 6 clamping elements either QP.1 or QP.2.  
 Plate is clamped mechanically and released pneumatically at 6 bar  
 Pull-down force QP.1- 6X10 kN  
 Pull-down force QP.2- 6X16 kN  
 Repeat accuracy < 0.01 mm



Part No.	A	B	C	D	E	F	Weight
BU70100-6MP118P	600	400	200	118	36	50	72 kg.
BU70100-6MP138P	600	400	200	138	36	60	84 kg.



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A Brand of

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