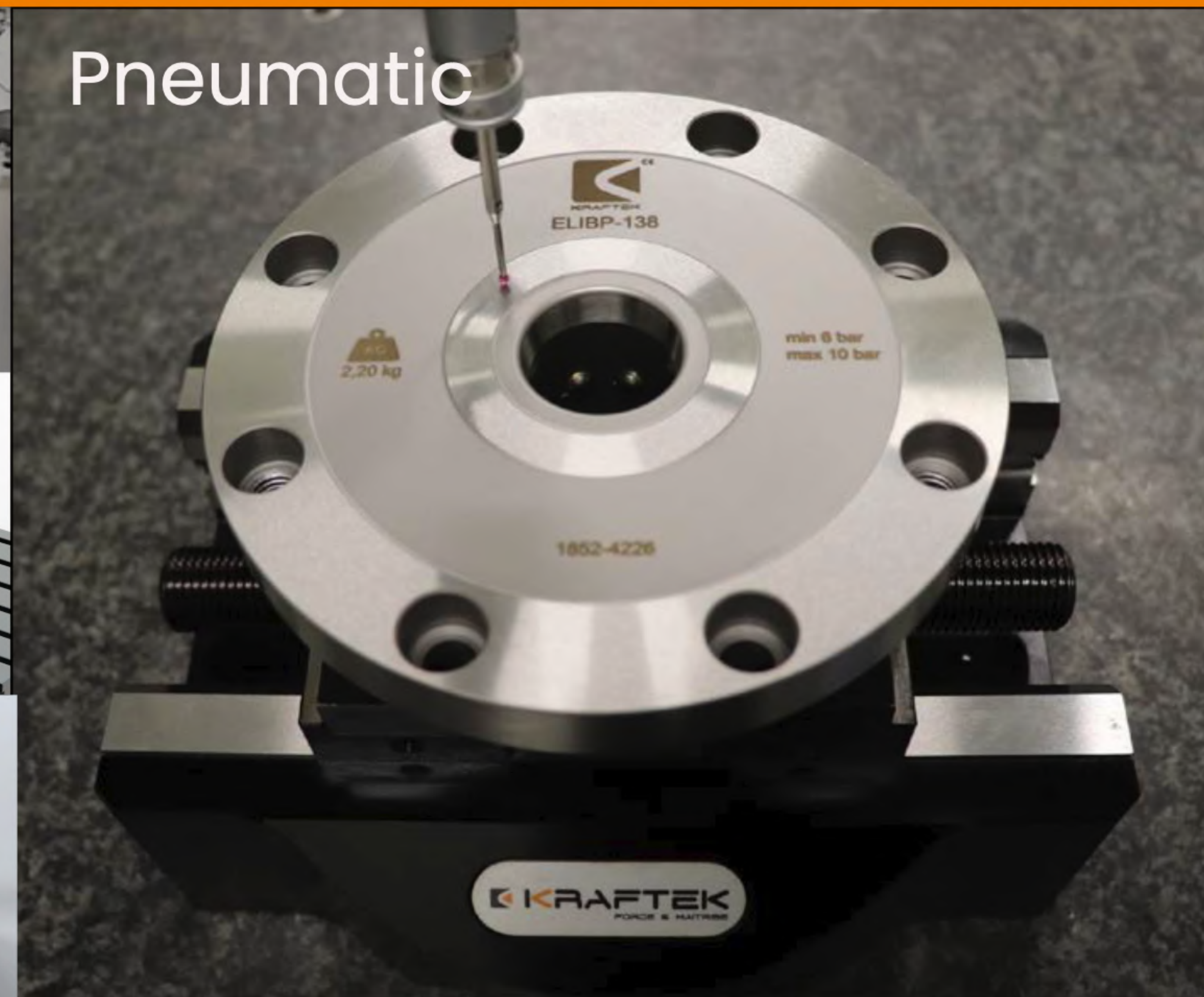
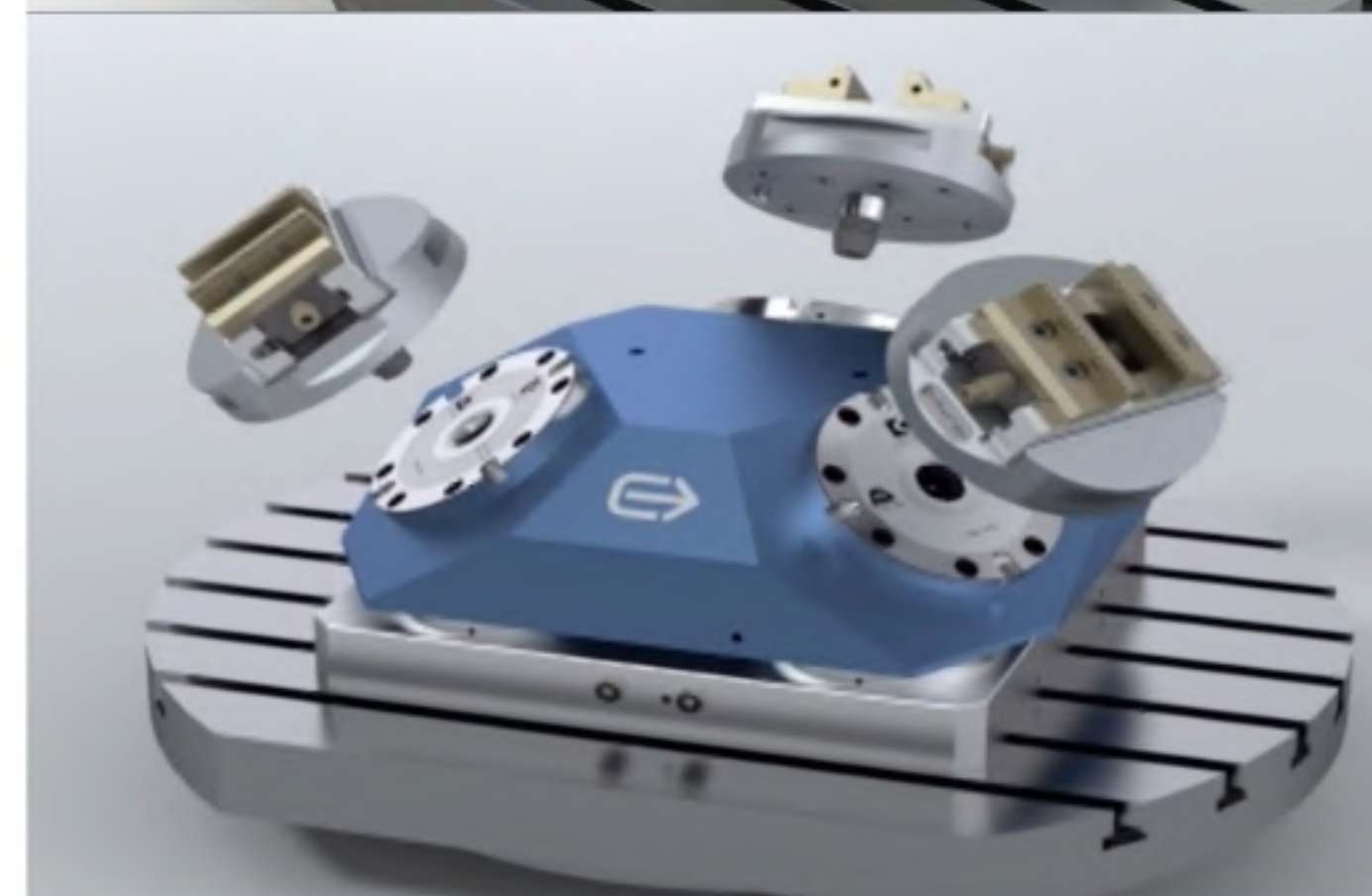
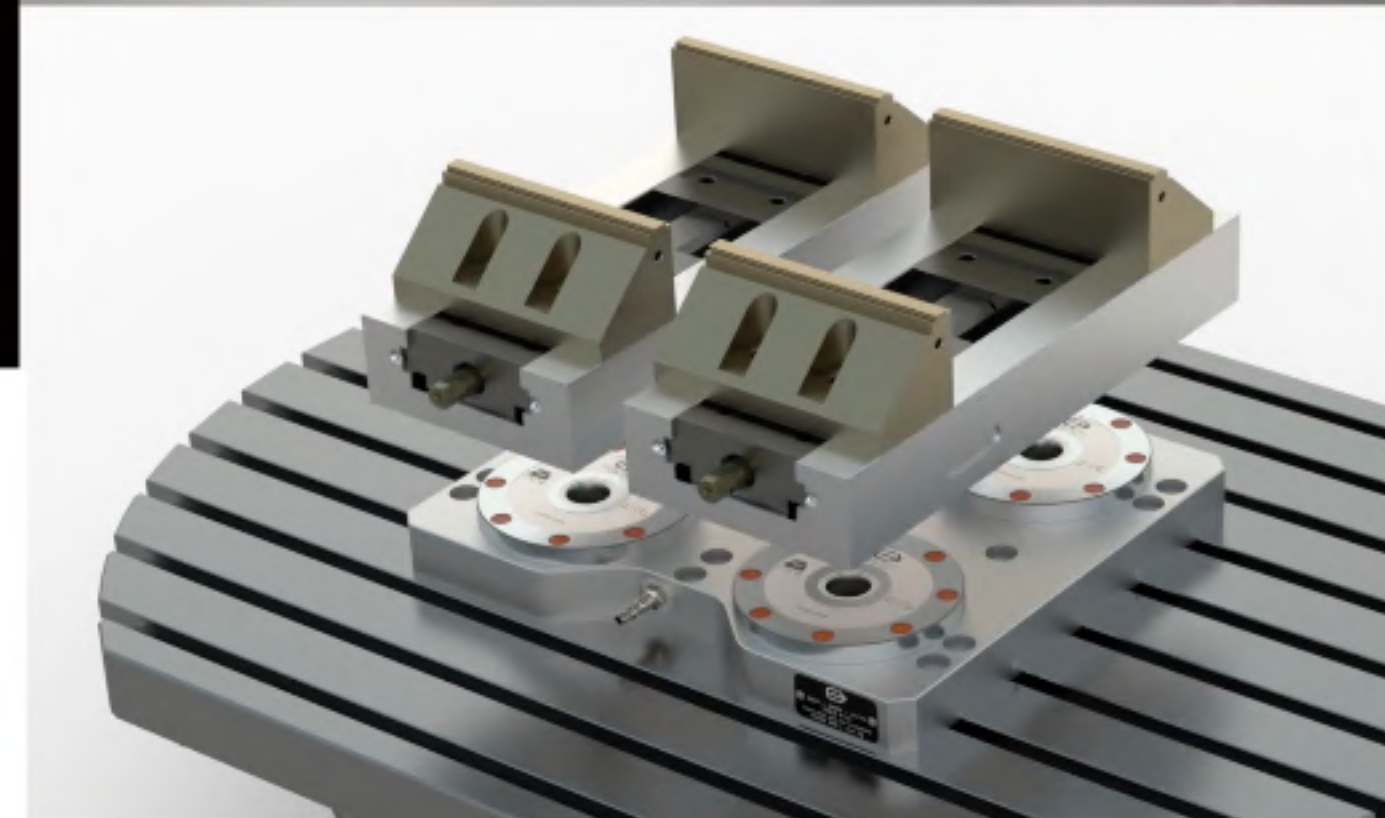




MicroLoc[®]

EASYLOCK Pneumatic Zero Point Systems





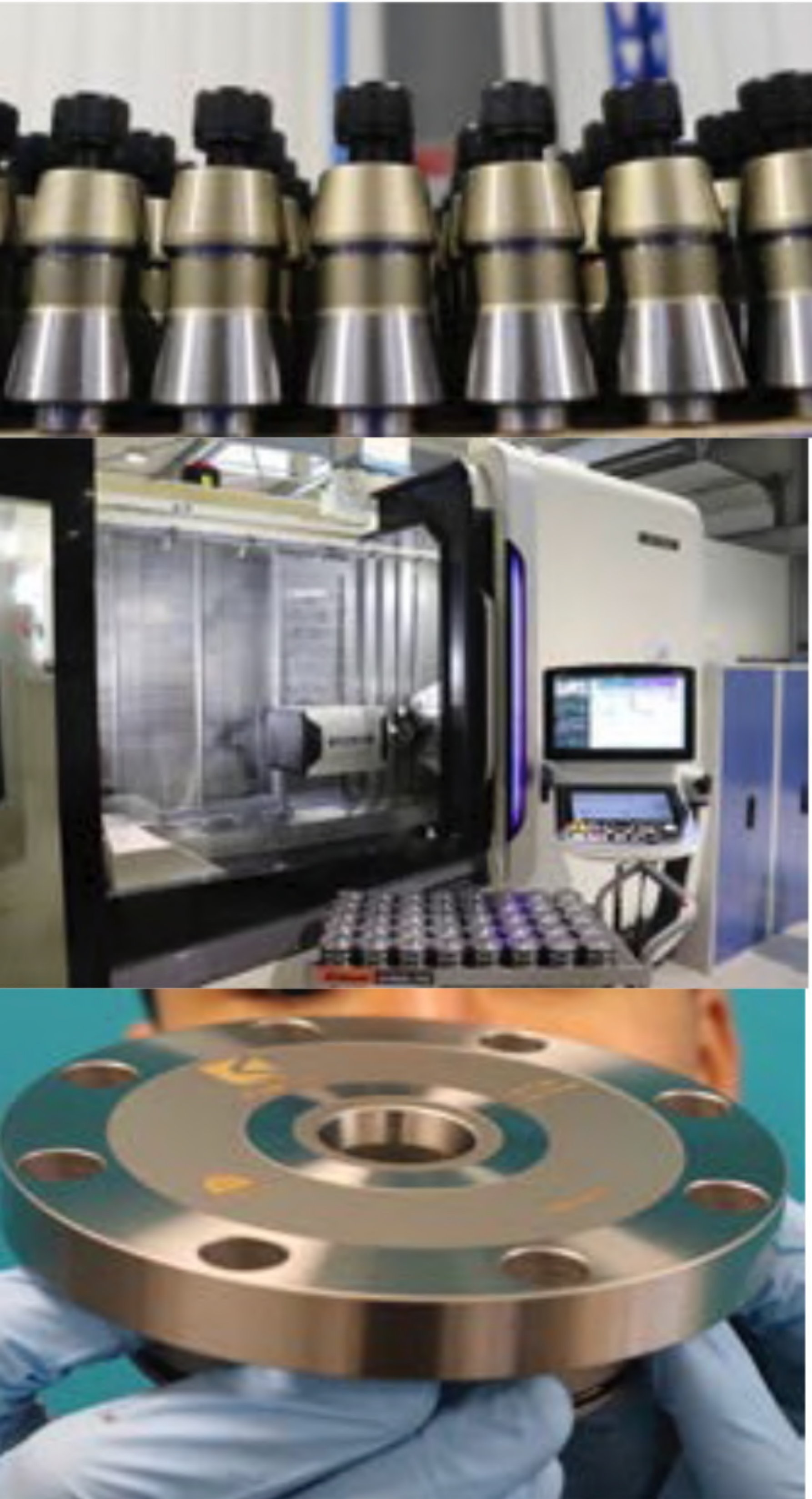
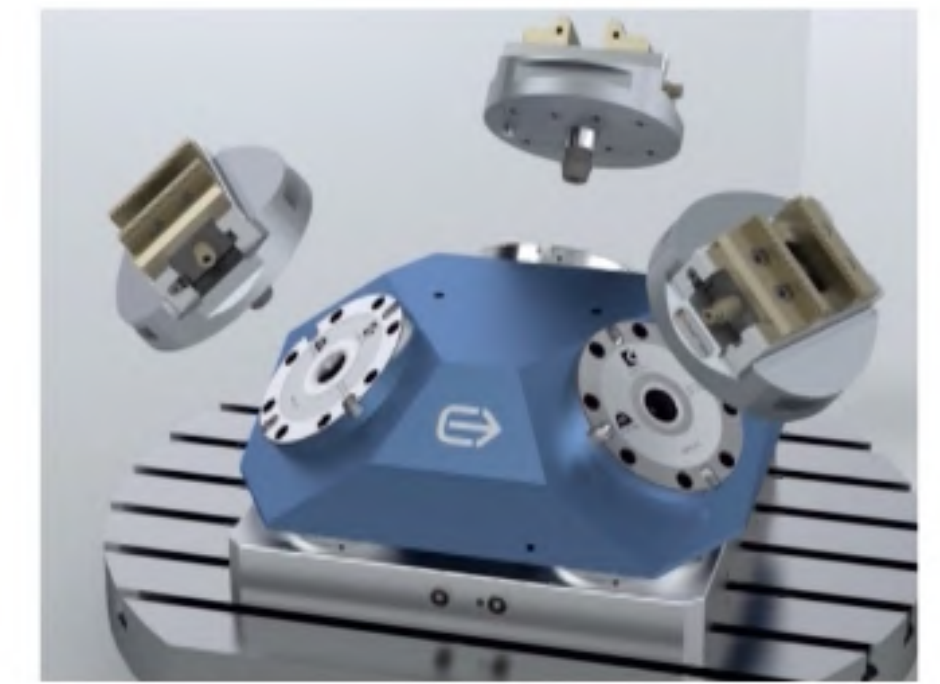
EasyLock

Zero-Point Clamping System

The quick change of fixtures is well recognised for increasing productivity and helping the operator to perform a changeover of fixtures quickly and easily, keeping the spindle turning.

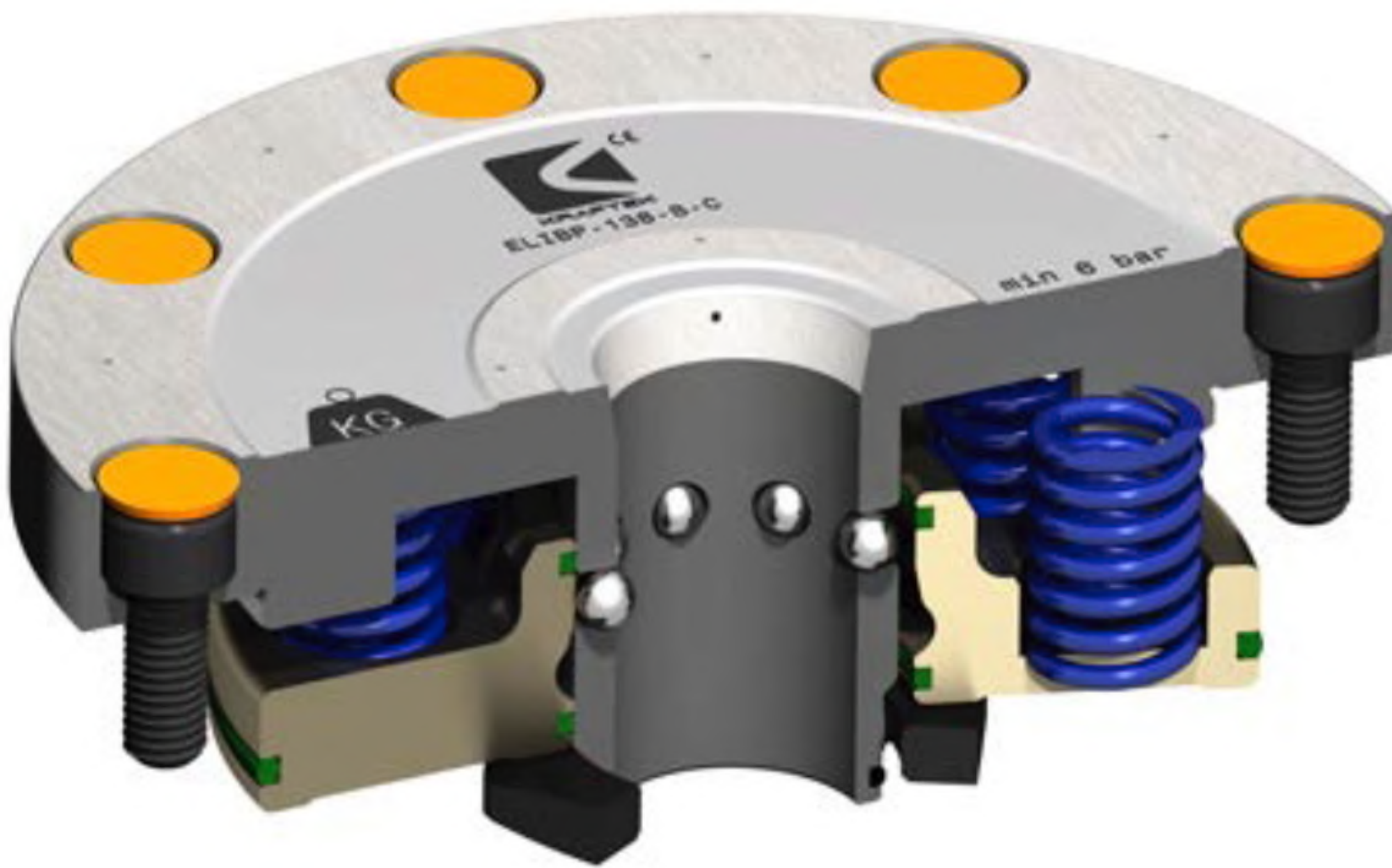
Benefits of using EASYLOCK zero point systems:

- › Repeat accuracy of less than 5 microns
- › Quick-change of production series
- › Flexibility of fixtures and interchangeability between equipped machines.
- › Adaptability by project
- › Increase Overall Equipment Efficiency (OEE).
- › Move fixtures from CNC Mills to Lathes to measuring machines





EasyLock- Functionality Overview



> EASYLOCKS are available in steel or stainless steel. They are used with 3 kinds of clamping pins for centering, locating and positioning.

> Thanks to these clamping pins, fixtures can be clamped and positioned precisely on the EASYLOCK zero point system.

> The blow out system evacuates excess air and prevents cutting oil pollution inside the EASYLOCK.

The 3 following options are available:

> Blow-out system option: *(-S)= Blow-out
This EASYLOCK option evacuates chips inside during unclamping the workpiece. The chips are projected outwards.

> Control Option:
*(-C)= Control
The control system checks EASYLOCK opening during unclamping. This option is mainly used for robotic systems.

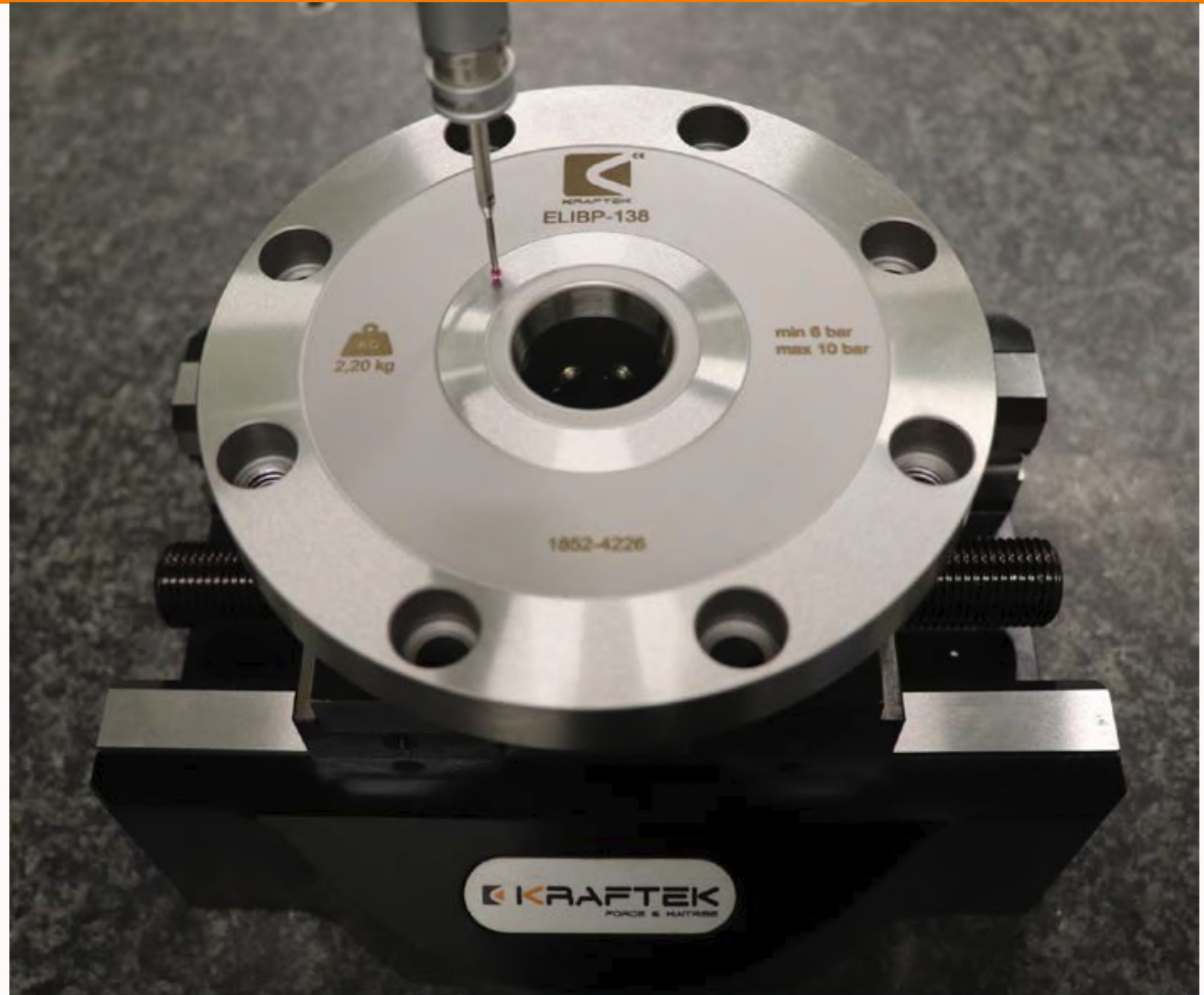
> Indexing Option:
*(-I)= Indexing
The indexing function ensure an exact positioning every 90°.



MicroLoc® EASYLOCK Pneumatic Zero Point Systems

EasyLock- Quality Control

Each zero point system is mounted and tested before it leaves our premises.
We are ISO 9001: 2015 certified





EasyLock >EL138 (i)



Technical Features

The Easylock ELxBx-138 clamping module positions and clamps workpieces or fixtures with a repeat accuracy of less than 5 µm. Piston with central hole (holding nut in the piston base).

>EASYLOCK system locks through spring forces the clamping pin in rest position. A safety system guarantee. It can be opened hydraulically (ELxBH-138) or pneumatically (ELxBP-138).

>This zero point system is in hardened steel (ELABx-138), or treated stainless steel (ELIBx-138).

>The unit can be equipped with a blow-out system (-S), an unlocking control system (-C), or an indexing system (-I).

>The set screws, their cover caps, the seals and the indexing pin are delivered with the module.

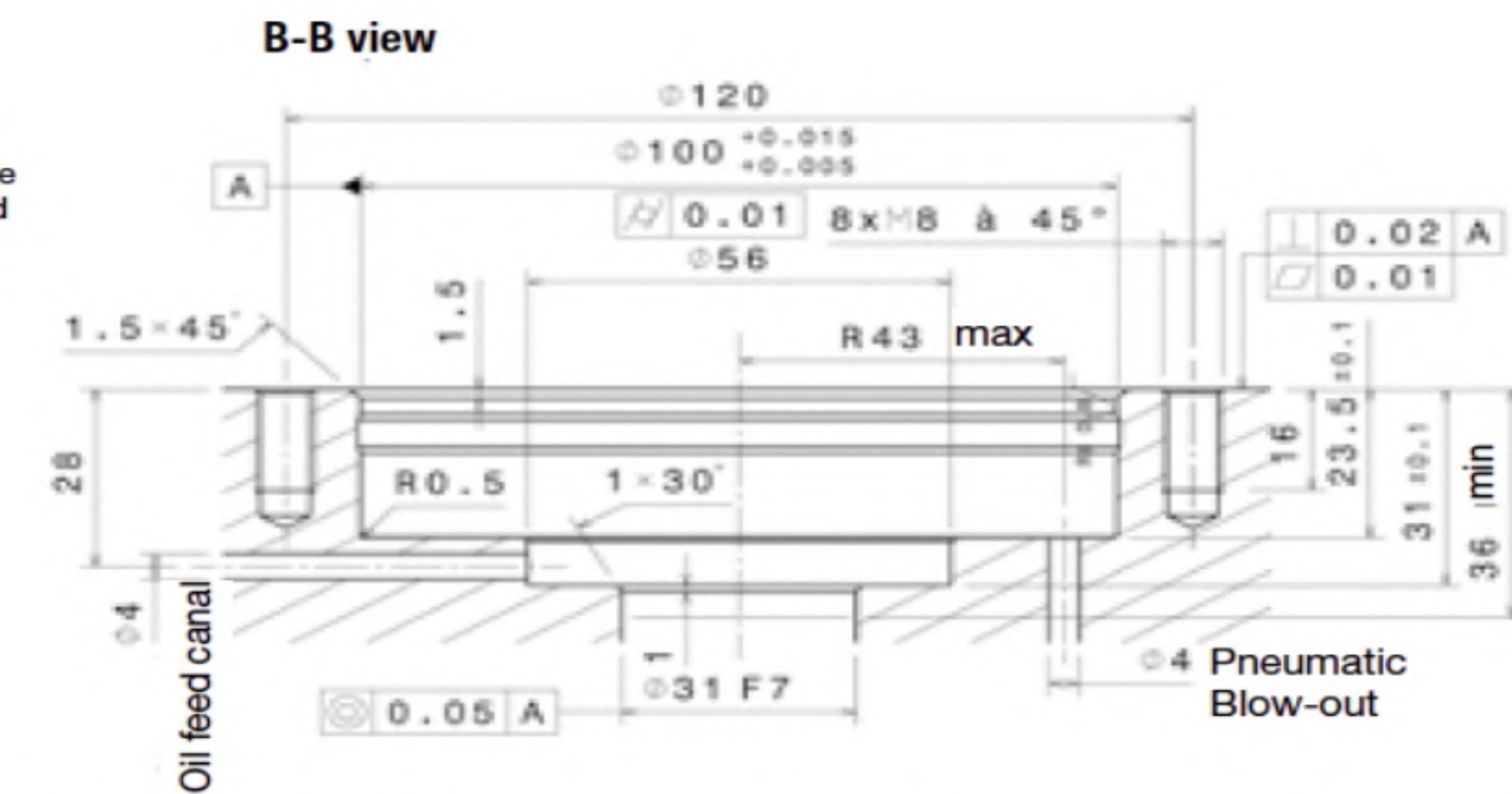
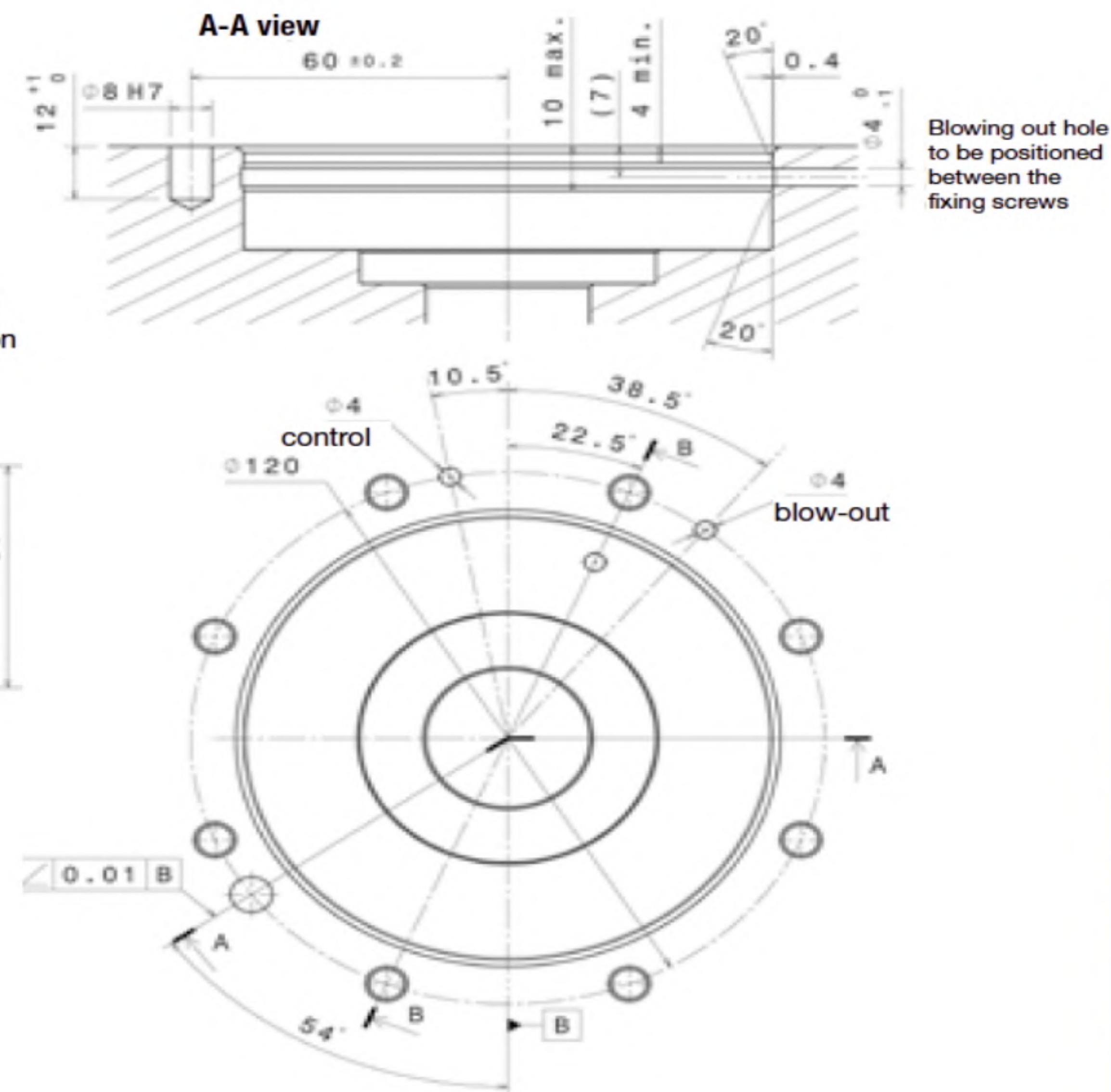
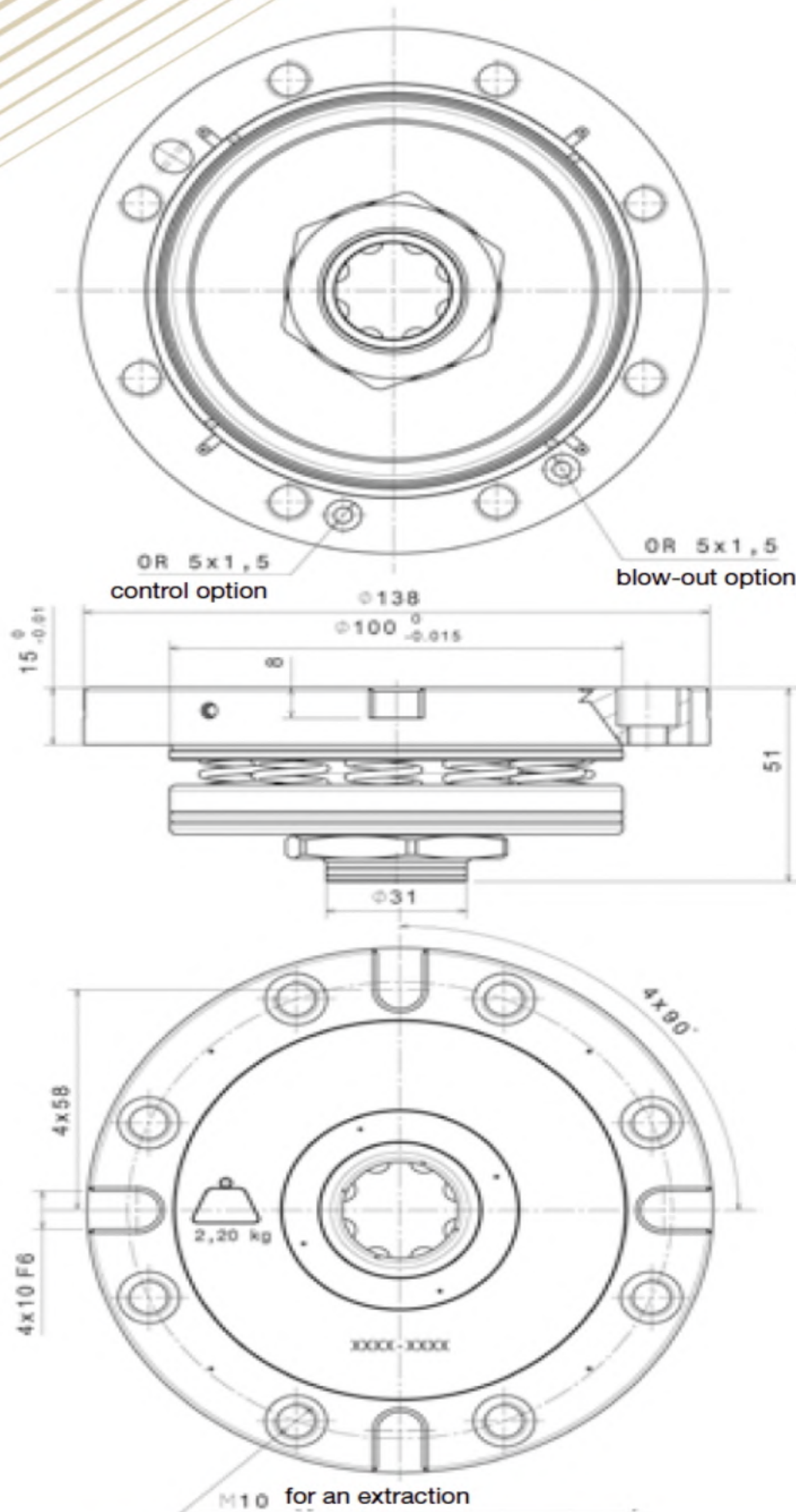
The respective clamping pins are:

TELB-138 pull-stud pin
TDELB-138 positioning pin
TCELB-138 centering pin

EASYLOCK

>ELxBx-138 (-S)(-C)(-I)

DIMENSIONS AND MOUNTING POSSIBILITIES



Technical Features	ELxBHP-138(-S) (-C)(-I) Hydraulic	ELxBPP-138 (-S) (-C)(-I) Pneumatic
Repeat accuracy	0,005 mm	0,005 mm
Operating pressure for opening	30 bars	6 bars
Maximum pressure	60 bars	10 bars
Pull-in force up to	35 kN/50 kN (CHc M10/CHc M12)	35 kN/50 kN (CHc M10/CHc M12)
Holding force	25 kN	16 kN
Weight with set screws	2.92 kg	2.3 kg

EasyLock >EL85 (i)



Technical Features

The Easylock ELxBxP-85 clamping module positions and clamps workpieces or fixtures with a repeat accuracy of less than 5 µm.

>EASYLOCK system locks through spring forces the clamping pin in rest position. A safety system guarantee. It can be opened hydraulically (ELxBHP-85) or pneumatically (ELxBPP-85).

>This zero point system is in hardened steel (ELABxP-85), or treated stainless steel (ELIBxP-85).

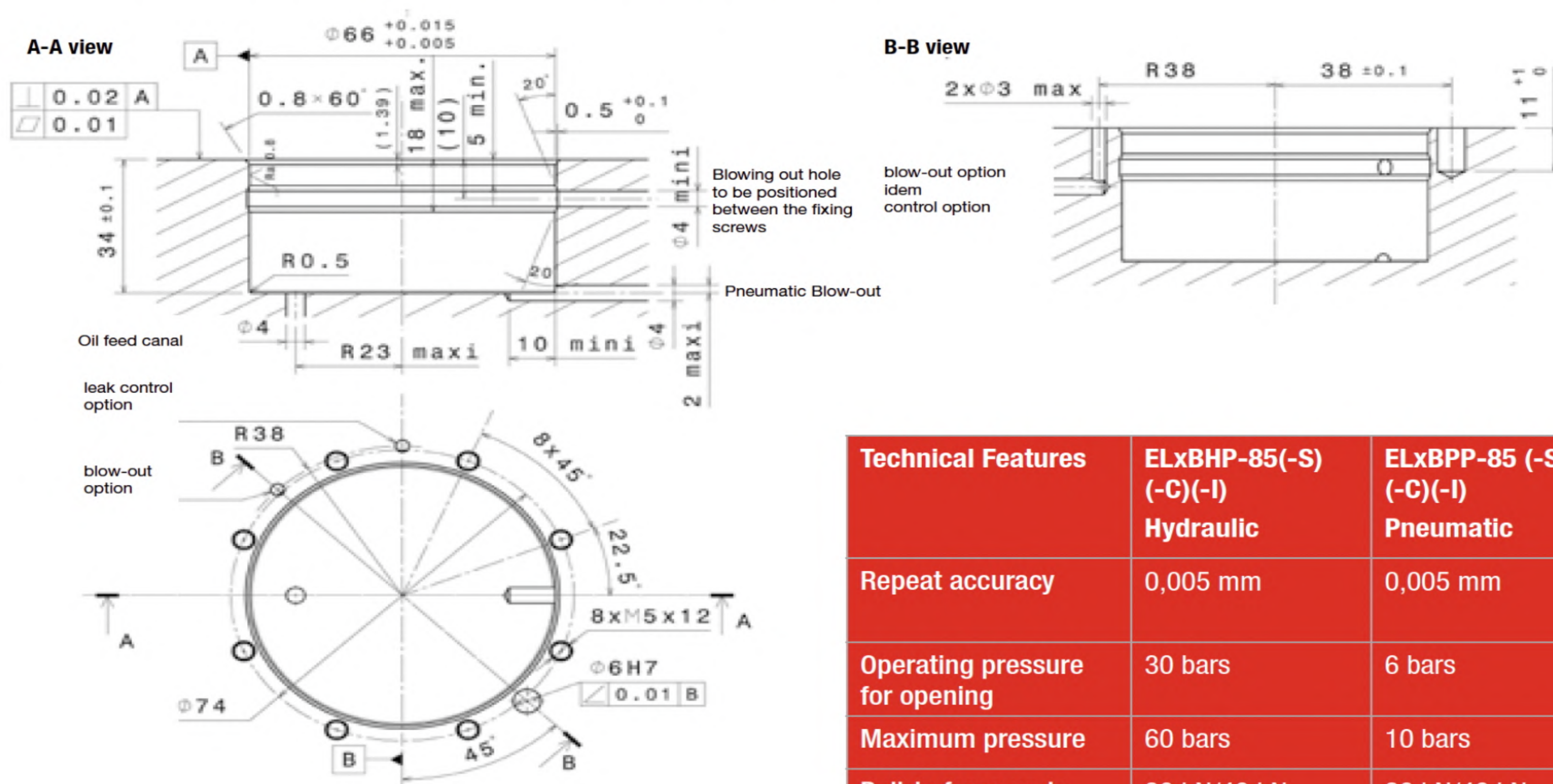
>The unit can be equipped with a blow-out system (-S), an unlocking control system (-C), or an indexing system (-I).

>The set screws, their cover caps, the seals and the indexing pin are delivered with the module.

The respective clamping pins are:

TELB-138 pull-stud pin
TDELB-138 positioning pin
TCELB-138 centering pin

DIMENSIONS AND MOUNTING POSSIBILITIES



Technical Features	ELxBHP-85(-S) (-C)(-I) Hydraulic	ELxBPP-85 (-S) (-C)(-I) Pneumatic
Repeat accuracy	0,005 mm	0,005 mm
Operating pressure for opening	30 bars	6 bars
Maximum pressure	60 bars	10 bars
Pull-in force up to	30 kN/40 kN (CHc M10/CHc M12)	30 kN/40 kN (CHc M10/CHc M12)
Holding strength	12 kN	7 kN
Weight with set screws	1.06 kg	1.02 kg



MicroLoc® EASYLOCK Pneumatic Zero Point Systems

EASYLOCK

> CLAMPING PINS

FOR EASYLOCK Ø85 AND Ø138 WITH CLAMPING BALLS

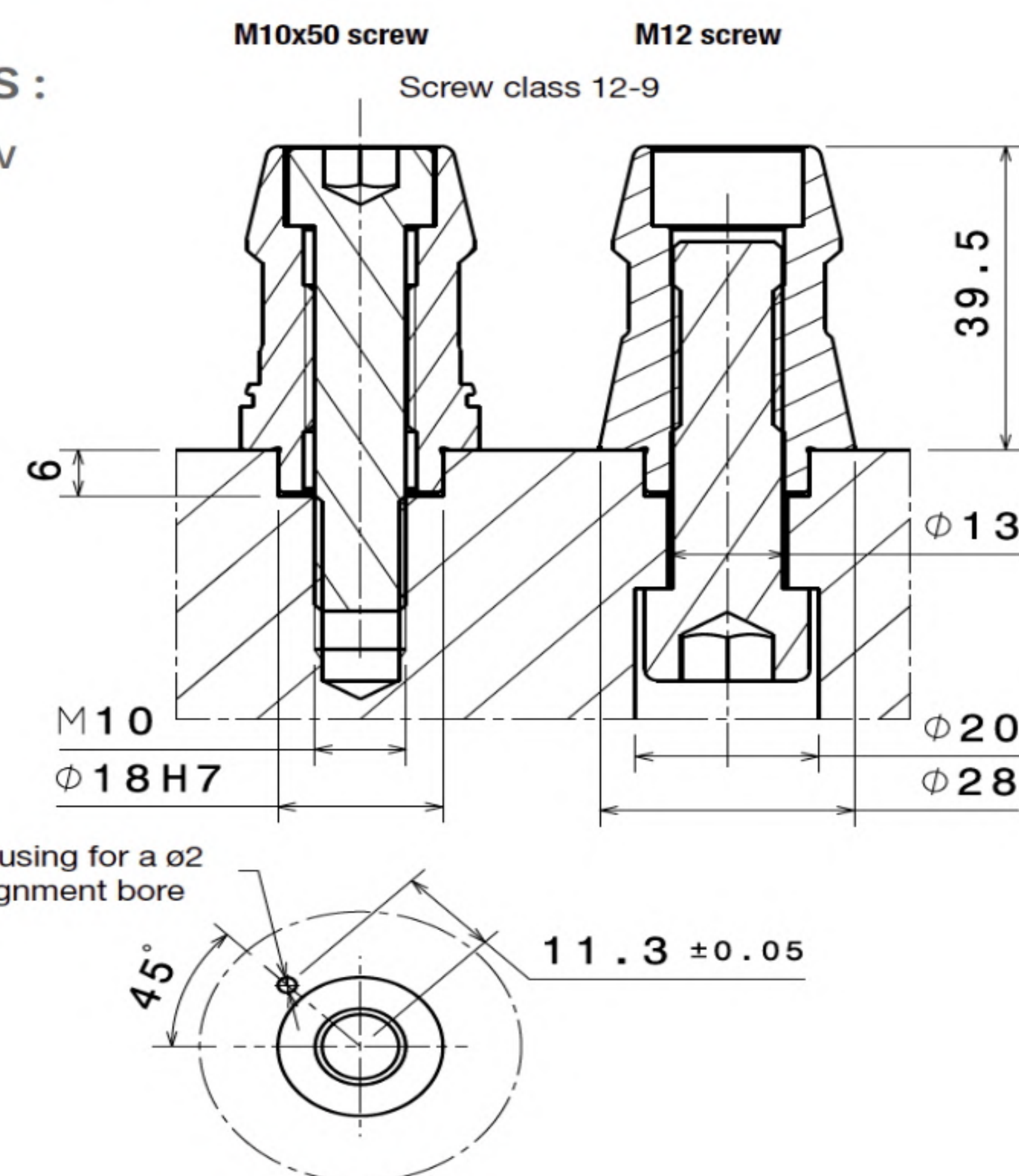
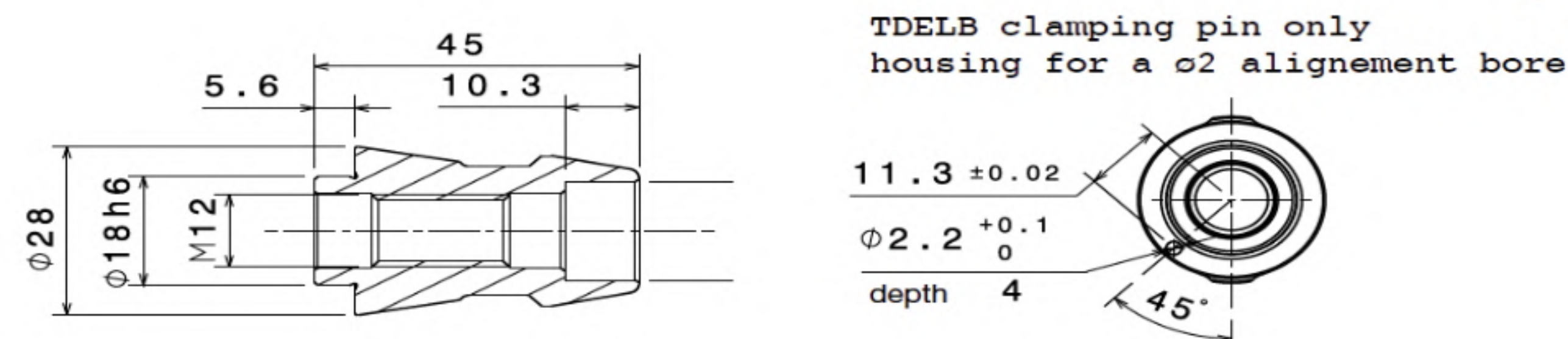


CLAMPING PINS FOR:

- > ELxBx-138 (-S) (Easylock with Ø138 clamping balls)
- > ELxBxx85 (-S) (Easylock with Ø85 clamping balls)

2 WAYS TO SCREW THE CLAMPING PINS :

Attachement of a M12 screw from below
or a CHc M10 screw from above

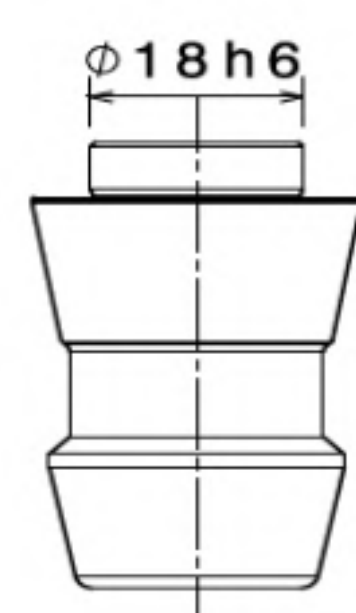




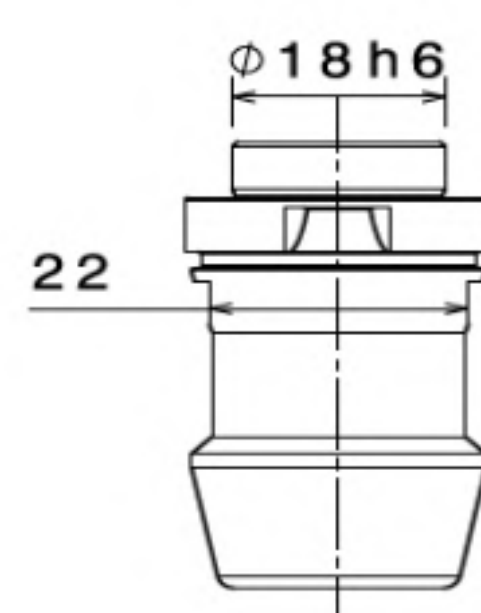
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EASYLOCK > CLAMPING PINS INSTALLATION AND POSITIONING

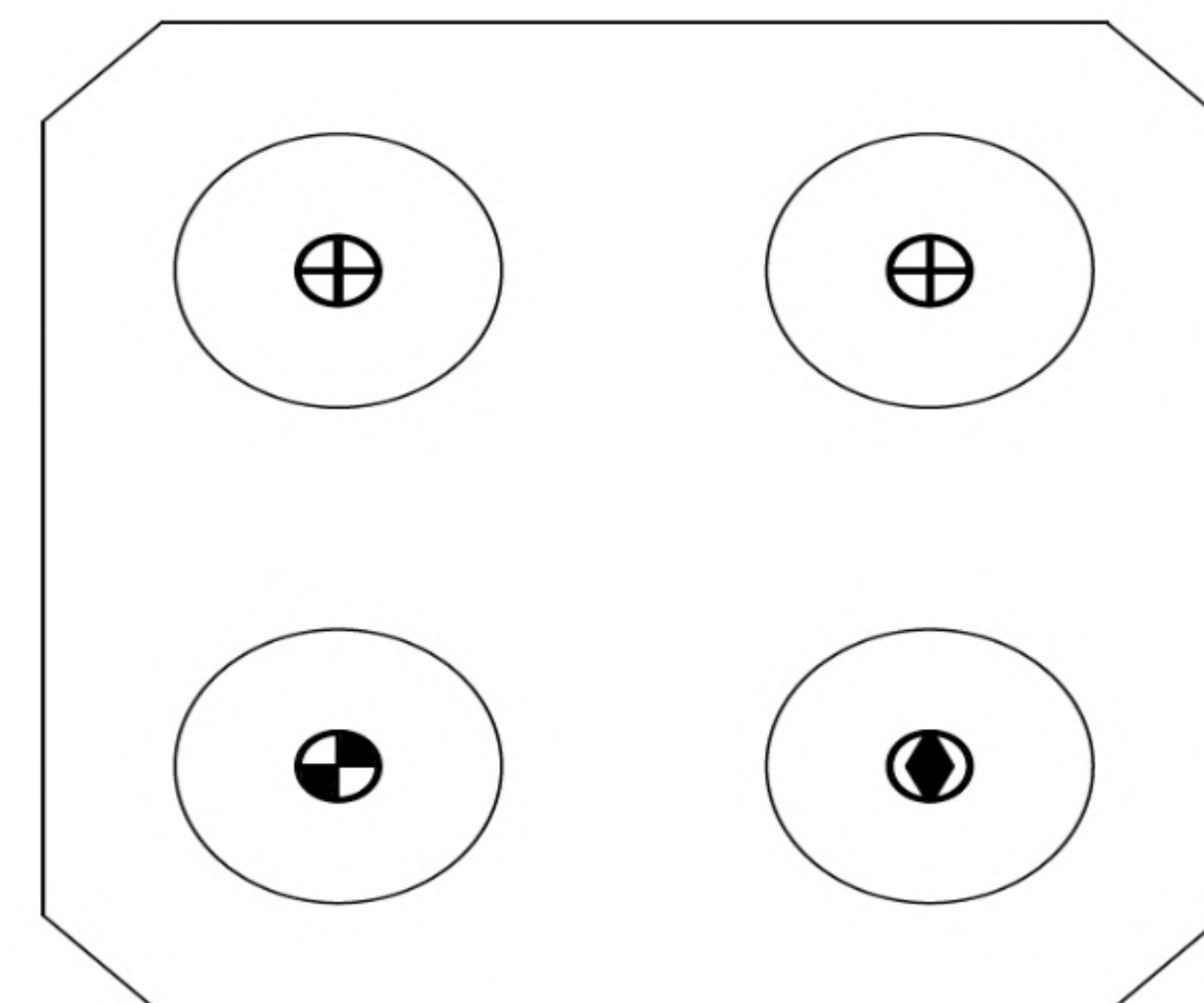
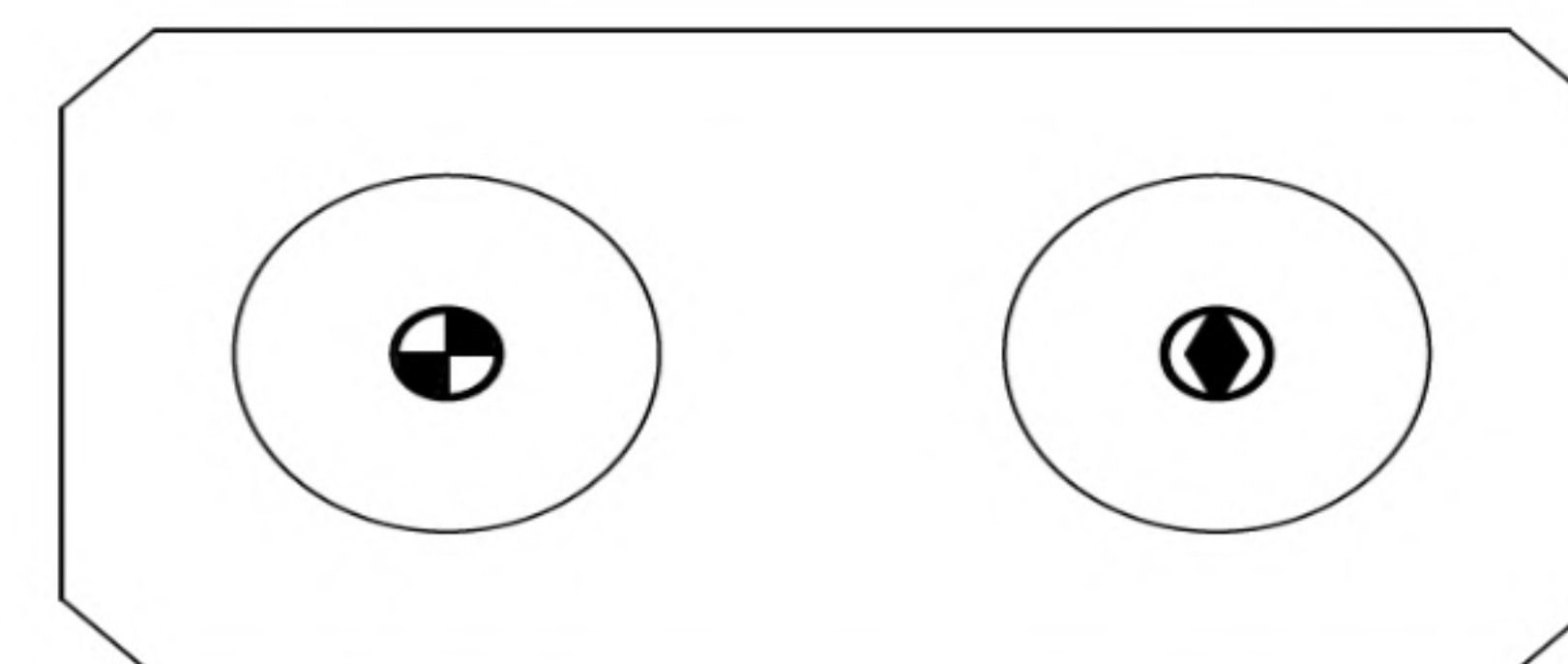
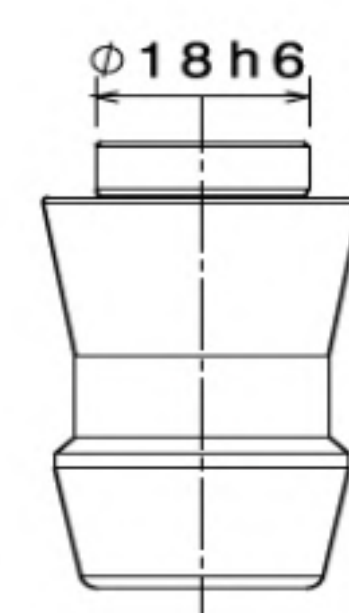
Centering pin
TGELB-138



Positioning pin
TDELB-138



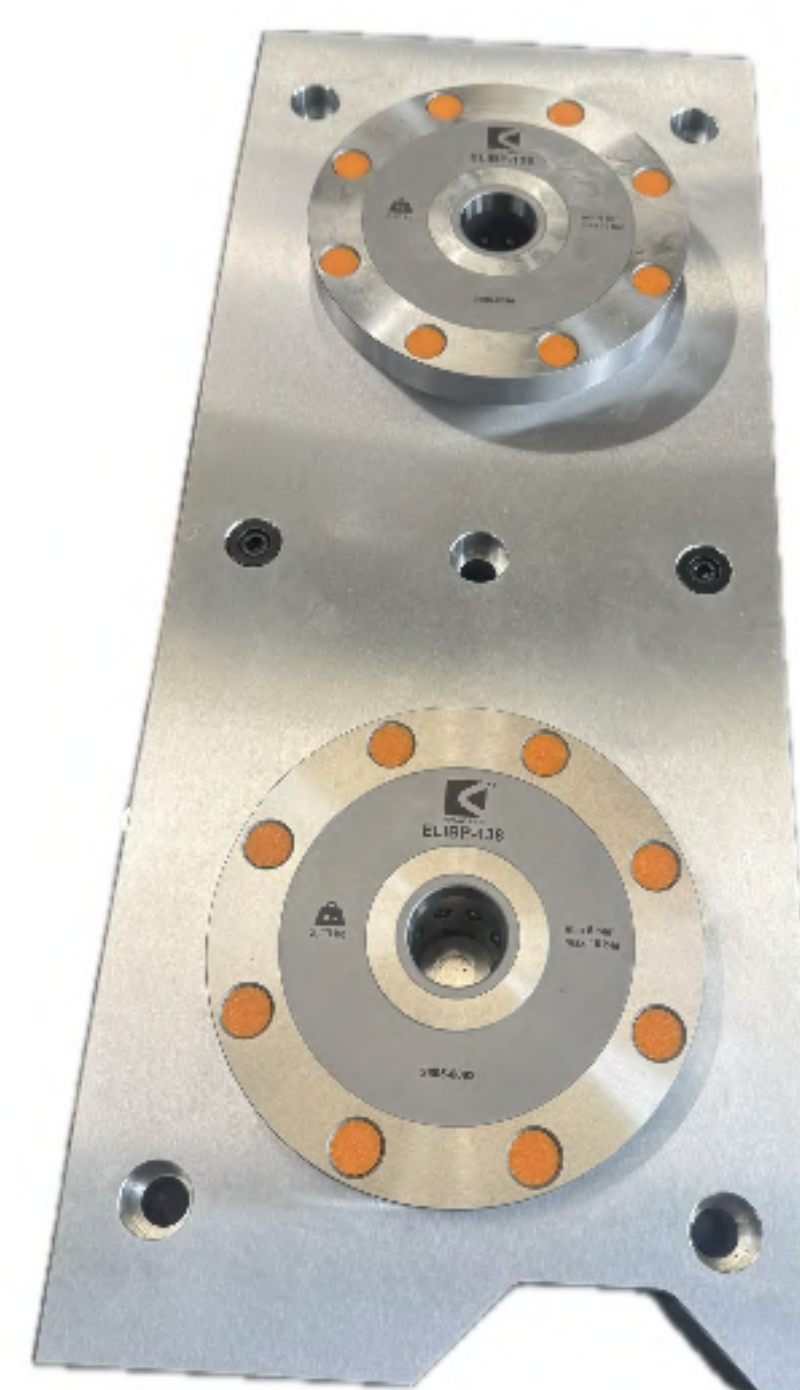
Pull-stud pin
TELB-138





Applications

Clamping vices and devices on an upper table with 6 EASYLOCK zero point Units.



2 EASYLOCK zero point Unit Base

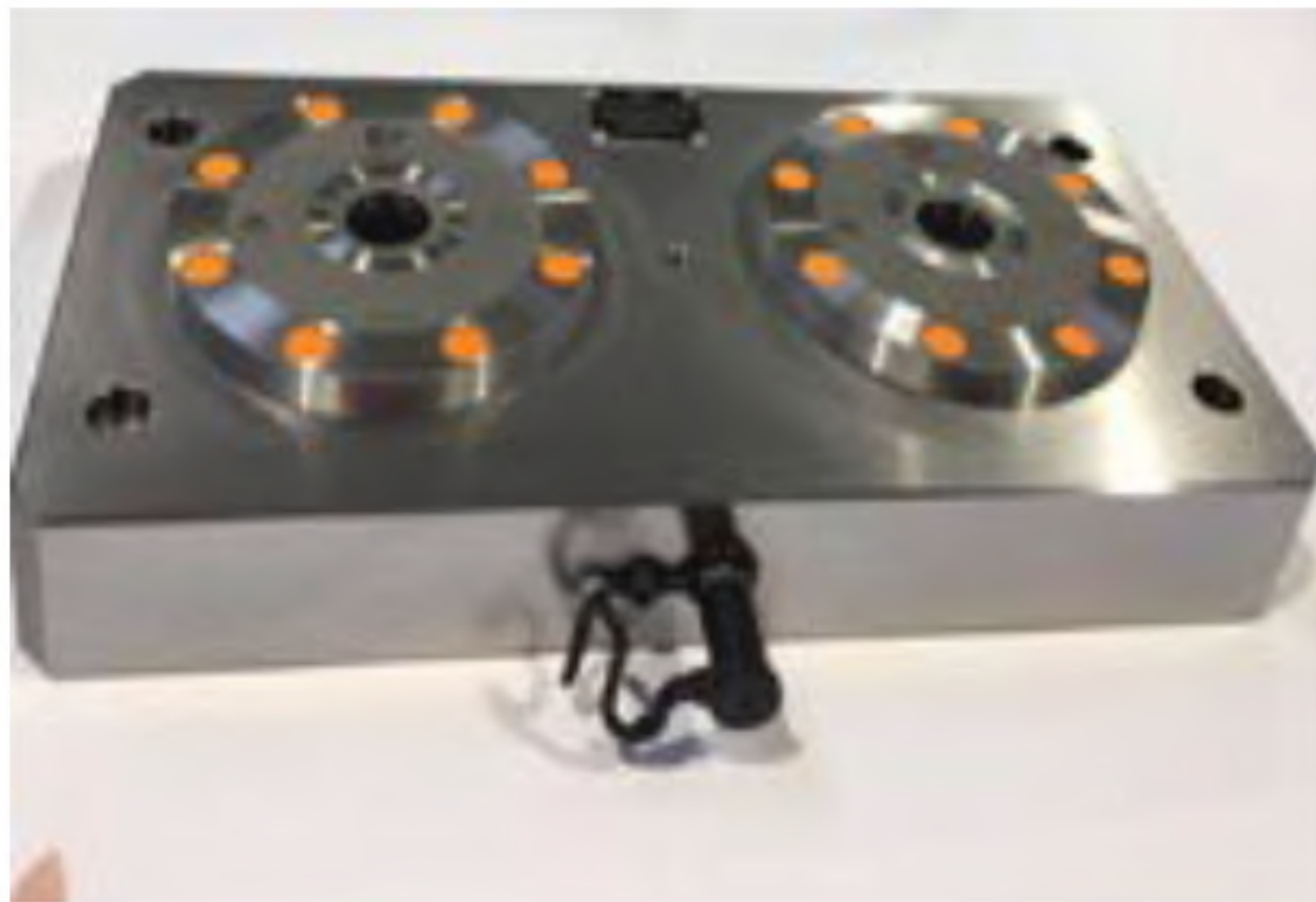
EASYLOCK 138 with clamping slides on the pallet gripper of the robot EASYBOX L/R 250 for handling 250 kg pallets.





MicroLoc® EASYLOCK Pneumatic Zero Point Systems

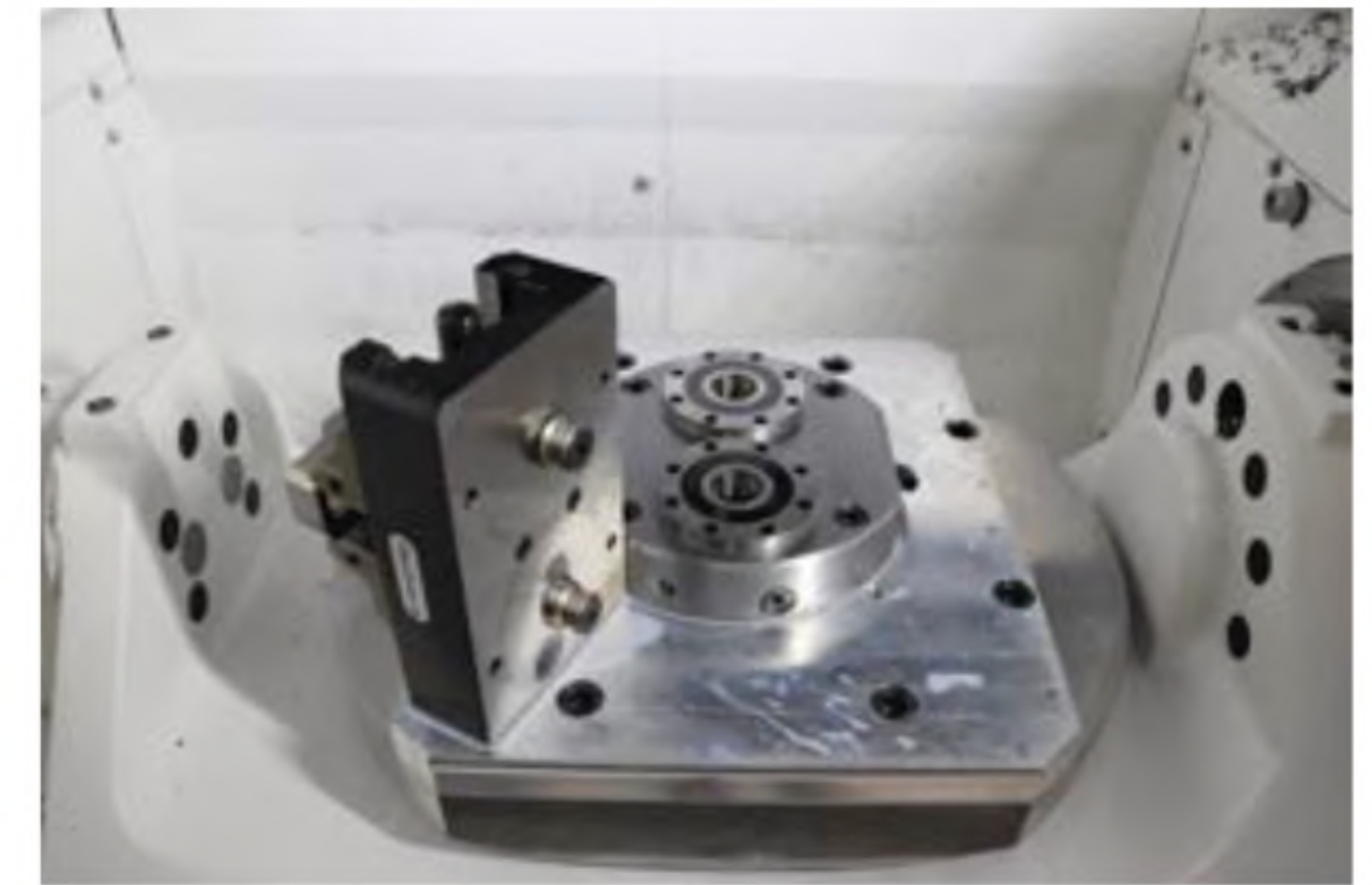
Applications



2 EASYLOCK zero point Unit Base



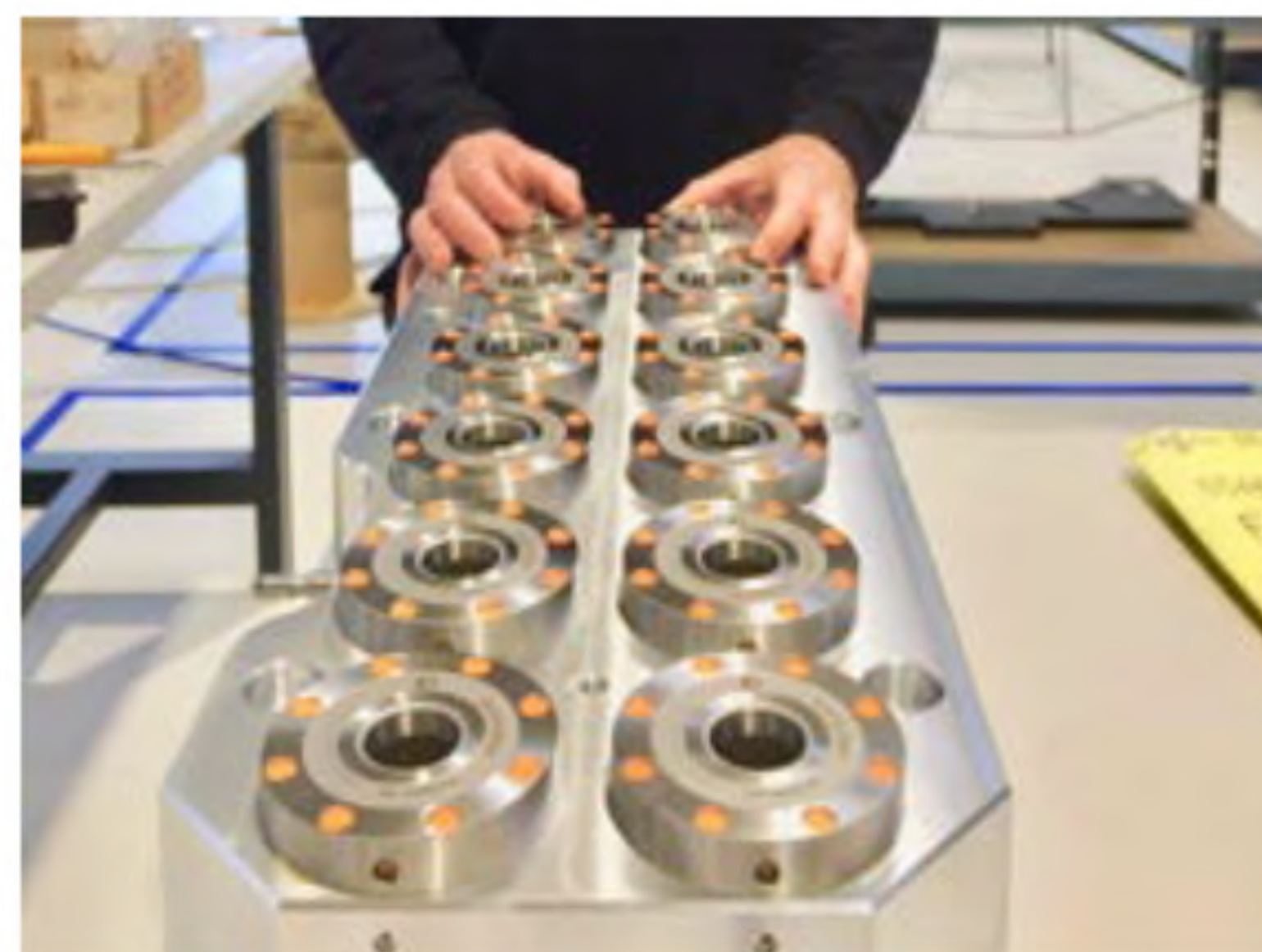
Base for Automation System



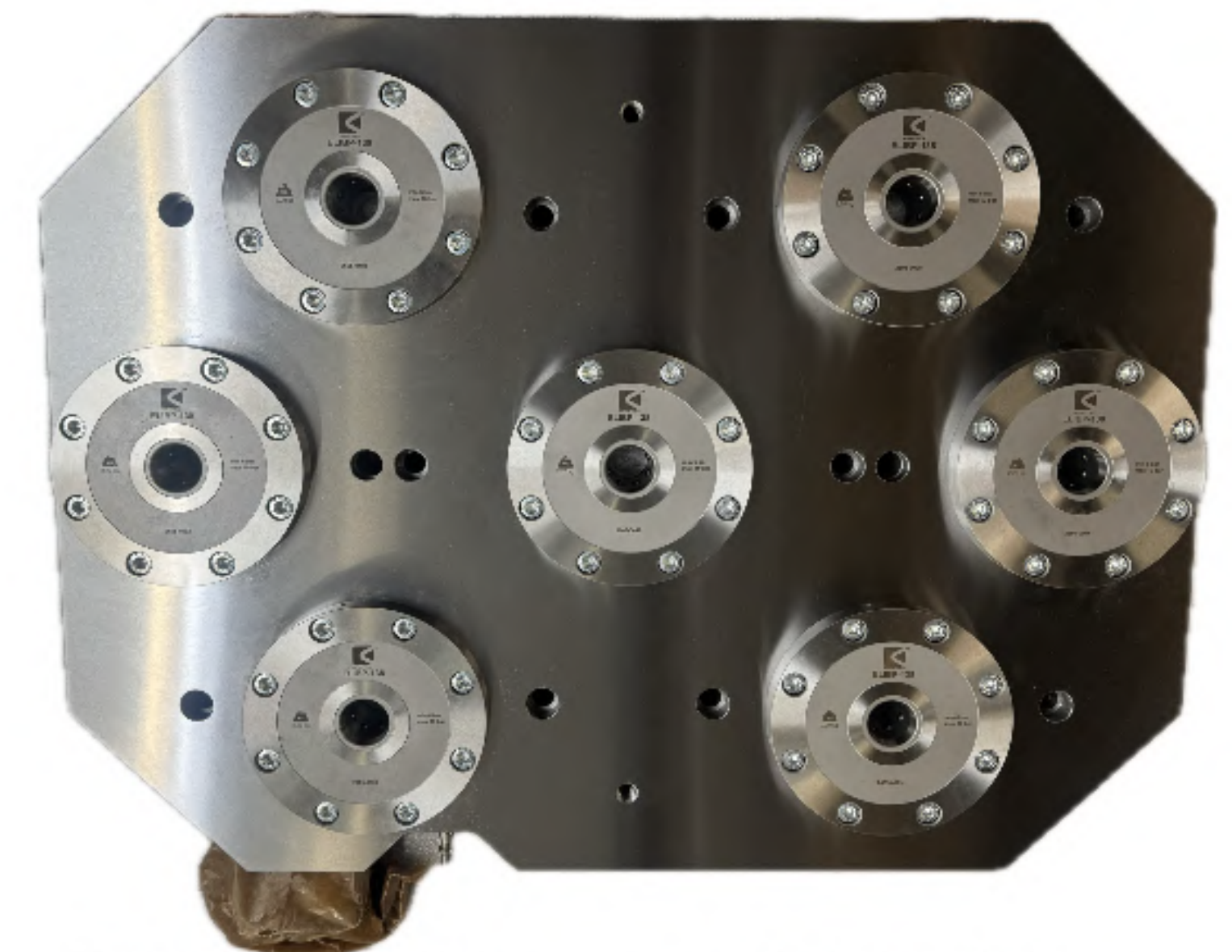
Base with Vice System



4 EASYLOCK zero point Unit Base



12 EASYLOCK zero point Unit Base
custom for Aerospace Company



7 EASYLOCK zero point Unit Base
custom for Haas EC-1600



MicroLoc[®] EASYLOCK Pneumatic Zero Point Systems

Standard Base Systems, still custom made to suit your machine

1 Easy Lock Unit Base System



ELB2020-1
200 x 200 x 60mm with 2 Pins
Operating Pressure 6-10 BAR

2 Easy Lock Unit Base System



ELB4020-2
400 x 200 x 60mm with 4 Pins
Operating Pressure 6 - 10 BAR



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EASYLOCK Pneumatic Zero Point Systems

Standard Base Systems, still custom made to suit your machine

4 Easy Lock Unit Base System



ELB4040-44
400 x 400 x 60mm with 8 Pins
Operating Pressure 6-10 BAR

6 Easy Lock Unit Base System



ELB6040-6
600 x 400 x 60mm with 12 Pins
Operating Pressure 6 - 10 BAR



MicroLoc®

EASYLOCK Pneumatic Zero Point Systems

**Custom made solutions to suit your application.
Free no obligation drawing and quote provided on request.**

Cube/Tombstone to suit Horizontal Pallet
Cast Iron- machined and equipped with
EASYLOCK zero point Units - 138 Diameter.

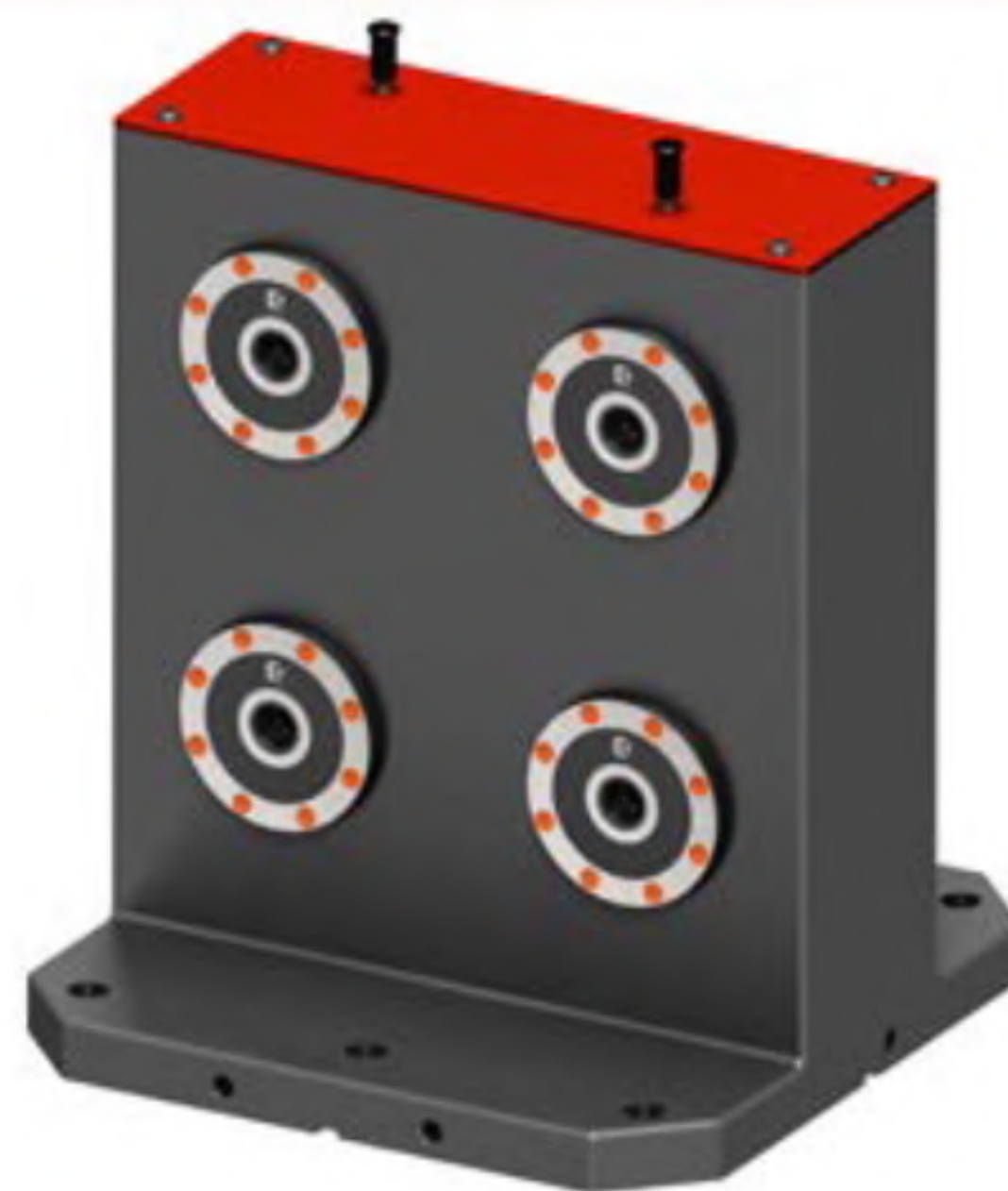
Pallet positioning repeatability < 5 µm.
Pallet holding force: 4 x 1.6 kN in positive
clamping.

CLAMPING FIXTURES
2 and 4-SIDED Cubes/Tombstones

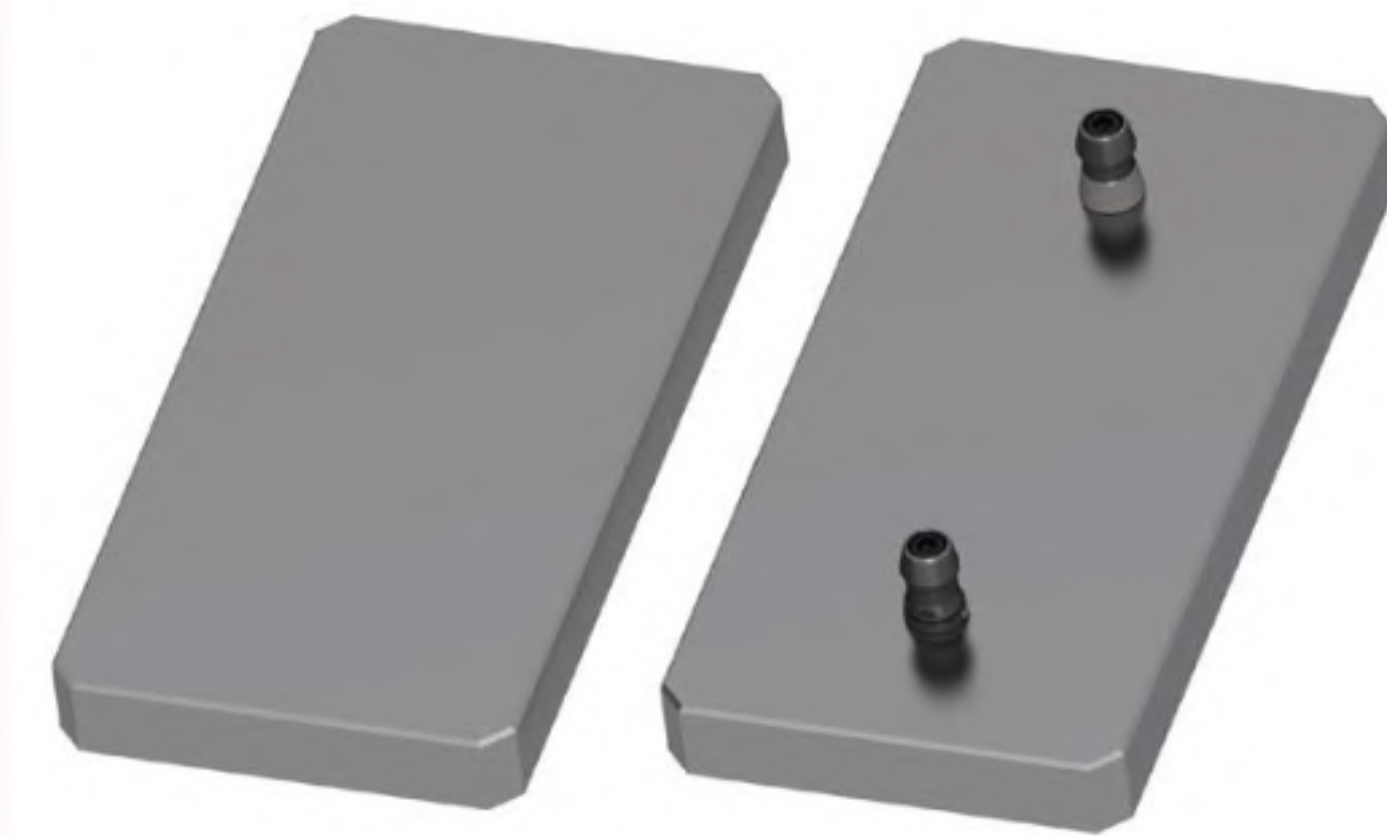
Benefits

- › Very fast changeover of fixtures, no set-up.
- › Can be used in different machines.
- › Increase productivity.
- › Decrease machine down time, keep spindle turning

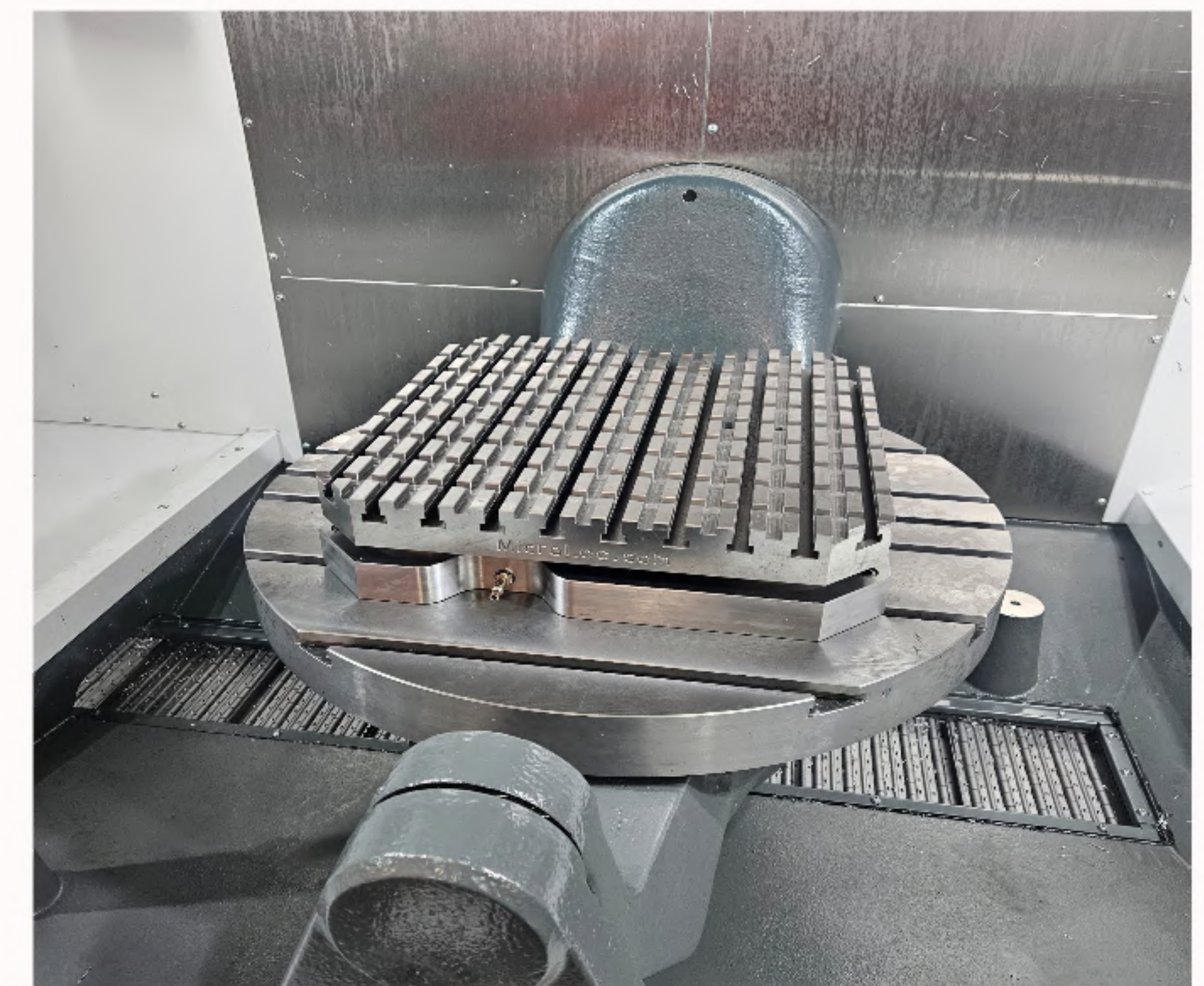
Specifications: :
Quick clamping/unclamping of pallets and fixtures.



**Pallets: we can machine Aluminium plain Pallets, Fixture
Pallets or even MicroLoc Bases with ZPS Plugs**



PP4020-2
400 x 200 x 40mm with 2 Pins



MVB.4040Z-MicroLoc Base
400 x 400 x 55mm with 4 Pins

Zero Point Units and Plugs
Manufactured in France by :
Kraftek
16 Rue Claude Chappe Z.A La Haute Limougère
37 230 FONDETTES France

KRAFTEK
FORCE & MAÎTRISE



MicroLoc[®]

EasyLock Zero Point Systems

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