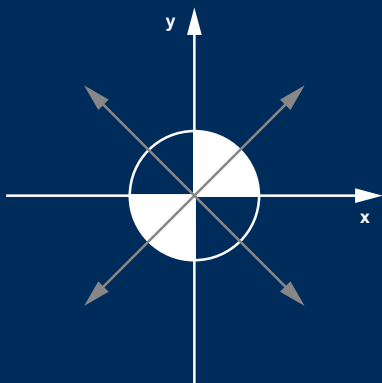




PLUS5

MECHANICAL ZERO POINT SYSTEM

0.1



PLUS 5 - 52

Plus 5 - Mechanical Zero Point system

Pag. 0.1.4



PLUS 5 - 96

Plus 5 - Mechanical Zero Point system

Pag. 0.1.5



PLUS 5 ALL IN ONE 52/96

Plus 5 Plus 5 All in One
Mechanical Zero Point system

Pag. 0.1.6



PLUS 5 INDEX - 52

Plus 5 Index- Mechanical Zero Point system

Pag. 0.1.7



PLUS 5 INDEX - 96

Plus 5 Index- Mechanical Zero Point system

Pag. 0.1.8



PLUS 5 INDEX ALL IN ONE 52/96

Plus 5 Plus 5 All in One
Mechanical Zero Point system

Pag. 0.1.9



PLUS 5 - 52 PLUS 5 - 96

Clamping plate

Pag. 0.1.10



PLUS 5 - 52

Interface 96

Pag. 0.1.14



PLUS 5 - 52/96

Reduction plates

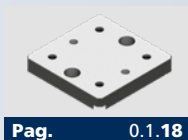
Pag. 0.1.15



PLUS 5 - 52/96

Clamping pins

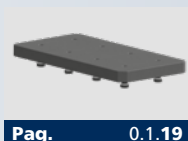
Pag. 0.1.16



PLUS 5 - 52/96

Pallet interface plate

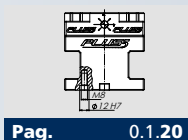
Pag. 0.1.18



PLUS 5 - 52/96

Plates

Pag. 0.1.19



PLUS 5 - 52/96

Risers

Pag. 0.1.20



PLUS 5 - 52/96

Alu pyramid

Pag. 0.1.21



PLUS 5 - 52 PLUS 5 - 96

Tiltings

Pag. 0.1.22



PLUS 5 - 96

Multiple tilting

Pag. 0.1.24



PLUS 5 - 52/96

- Safety plate
- Alignment plate

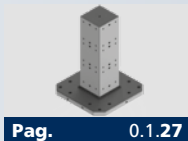
Pag. 0.1.25



PLUS 5 - 52

Tombstone

Pag. 0.1.26



PLUS 5 - 96

Tombstone

Pag. 0.1.27



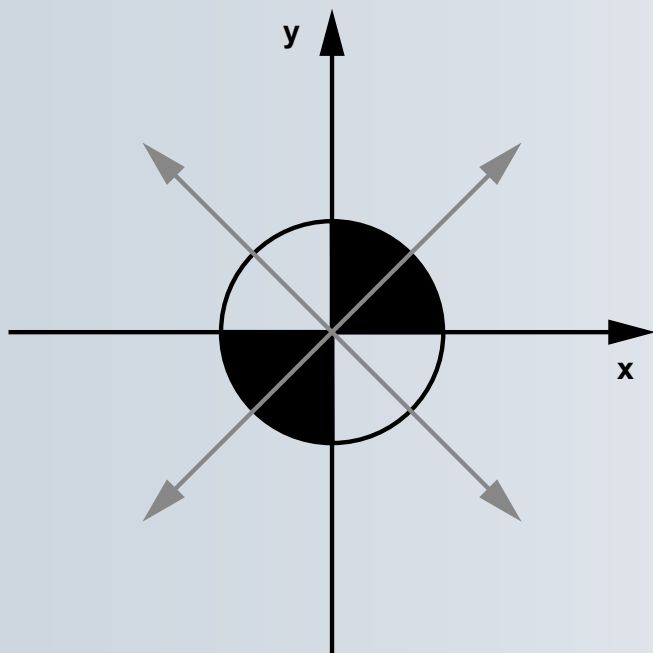
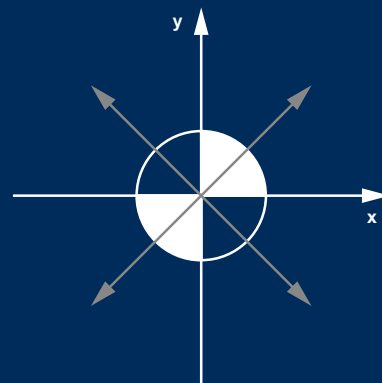
PLUS 5 - 52/96

Accessories

Pag. 0.1.28

PLUS5

MECHANICAL ZERO POINT SYSTEM

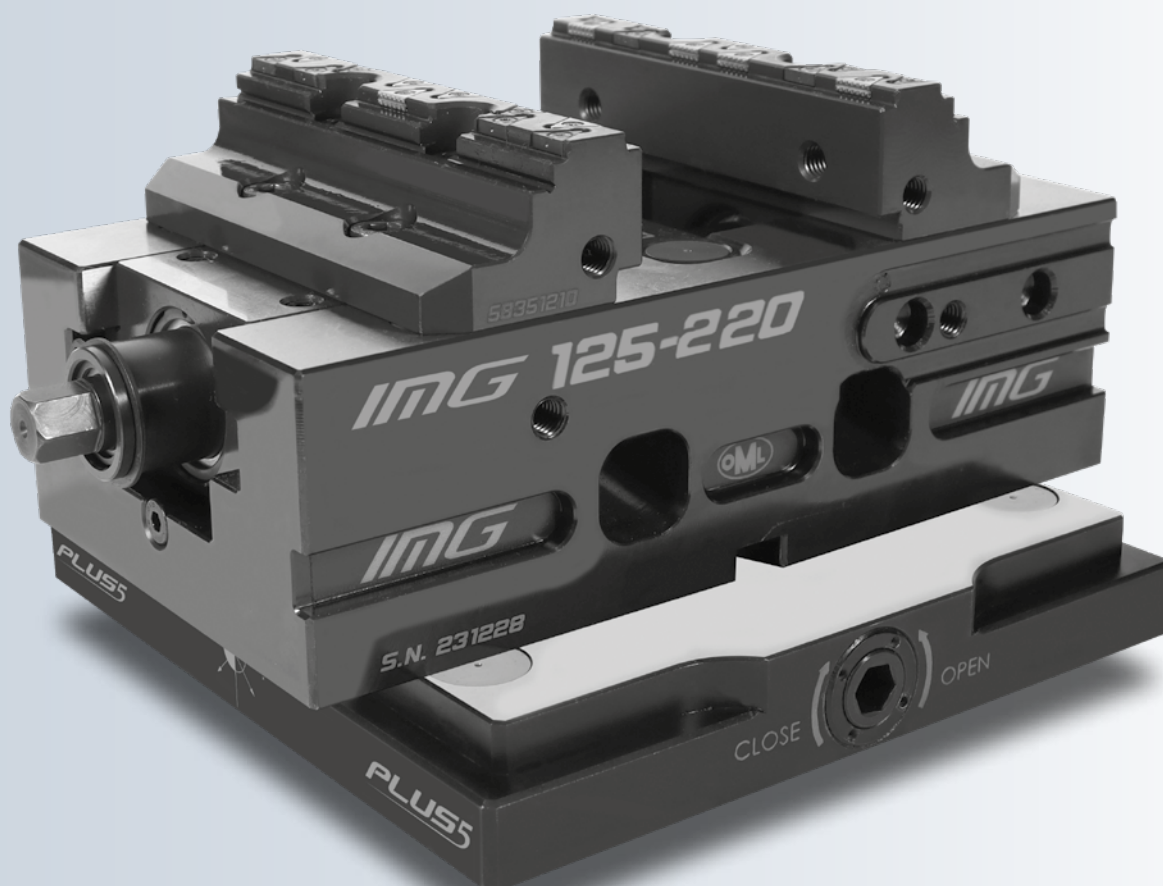


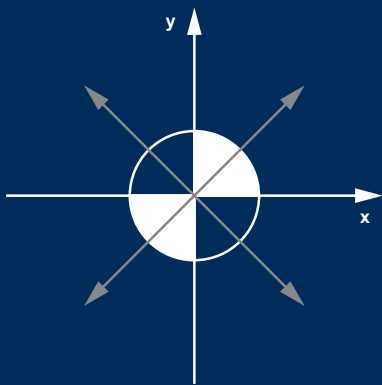
PLUS5

- The symbol on the side represents the vectorial force transmission system that acts by binding the pins uniformly and in all directions.



Watch the video



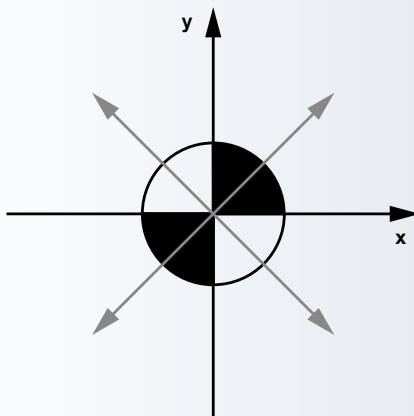


PLUS5

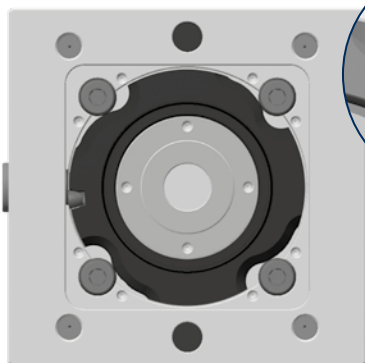
MECHANICAL ZERO POINT SYSTEM

0.1

PLUS5 BENEFITS



- ▶ Locking and unlocking system of the pins with a rotation of only 180 degrees
- ▶ Does not require a torque wrench. The limit switch determines locking / unlocking
- ▶ Repeatability < 0.005mm
- ▶ Pull down force 7 kN for Plus 5 52 and 8 kN for Plus 5 96
- ▶ Holding force 40 kN for Plus 5 52 and 80 kN for Plus 5 96

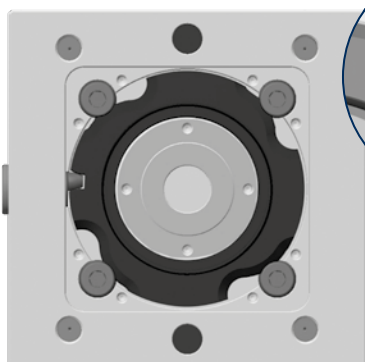


Open

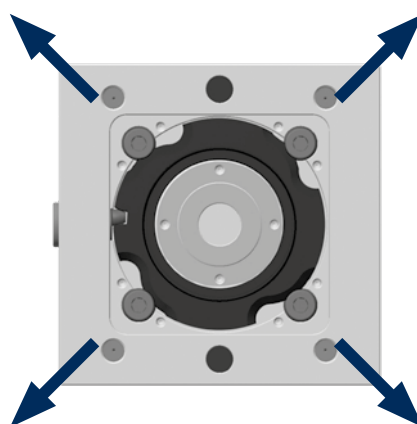
The mechanism designed for locking the pins consists of a cam which is operated by an eccentric pin.

The system guarantees high performance in terms of precision and clamping force.

This is due in particular to the fact that the cam locks the 4 pins outwards at the same time.



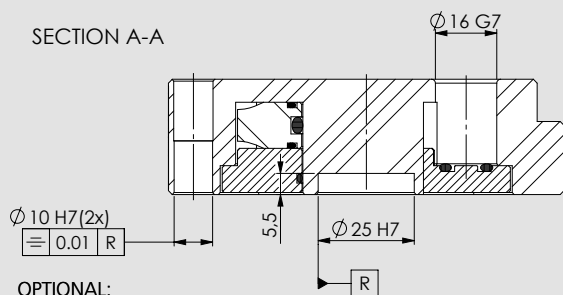
Closed



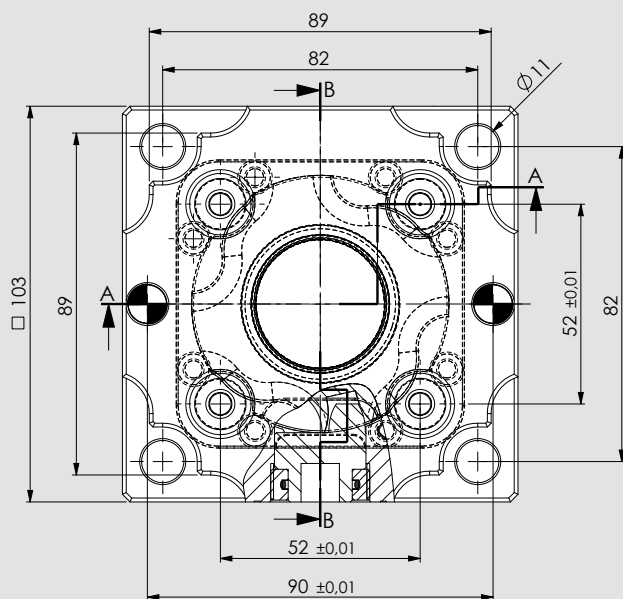
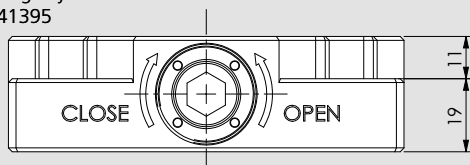


- Complete with wrench 10mm
- Pins not included

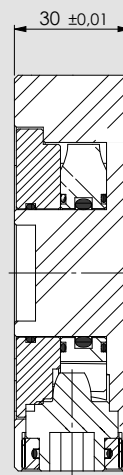
SECTION A-A



OPTIONAL:
Multislot positioning key
58341393 / 58341395



SECTION B-B



Subject to technical changes.

Id. No.

46240101

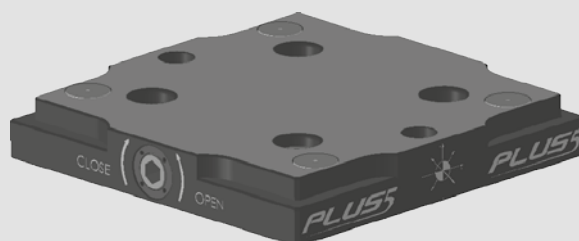
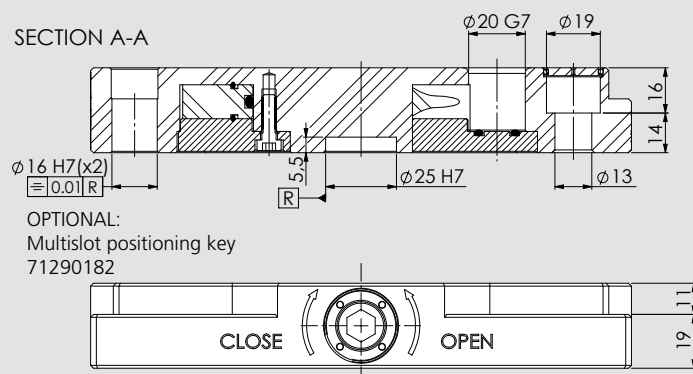
Weight (Kg)

2

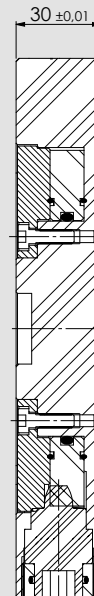
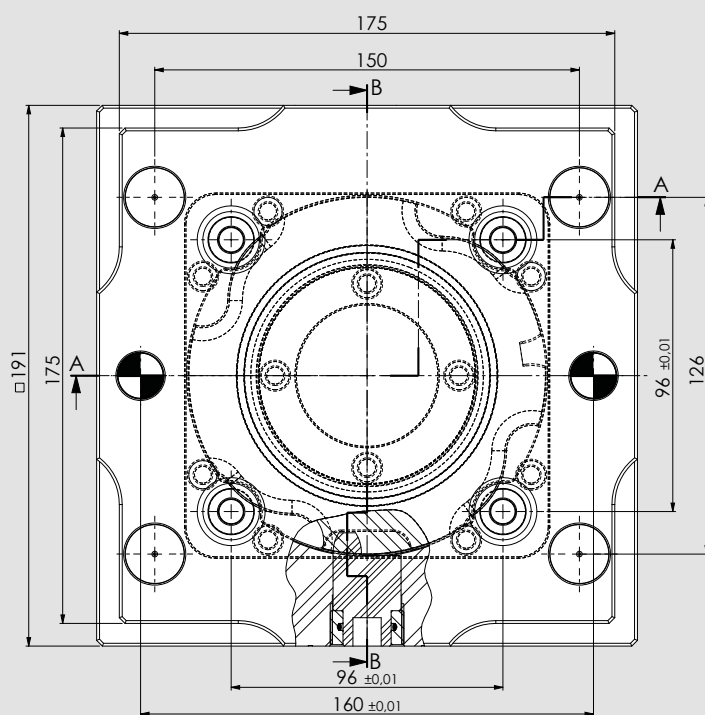


- Complete with wrench 10mm
- Pins not included

SECTION A-A



SECTION B-B



Subject to technical changes.

Id. No.
46240102

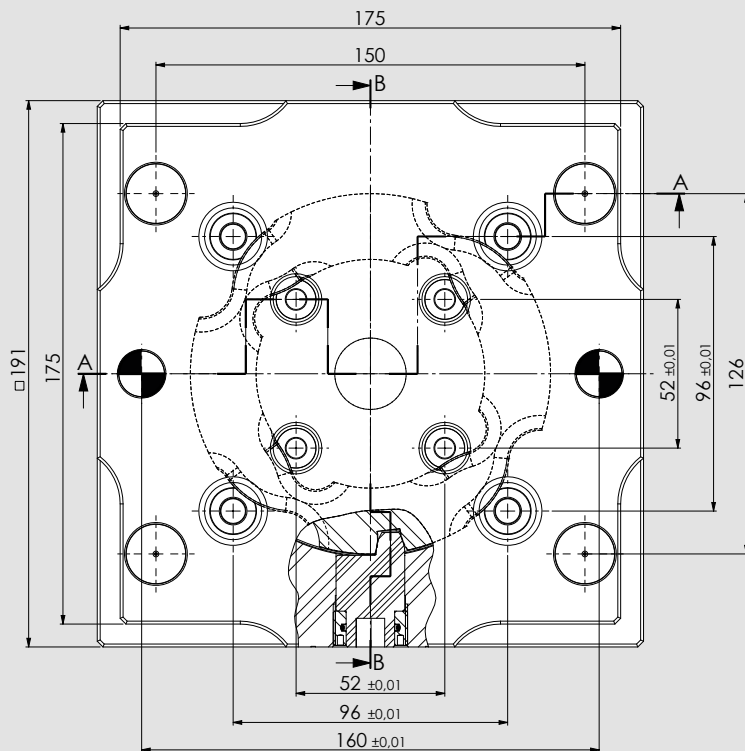
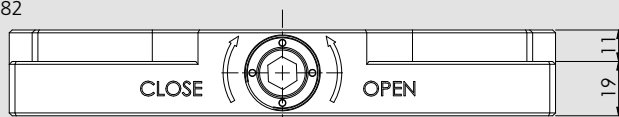
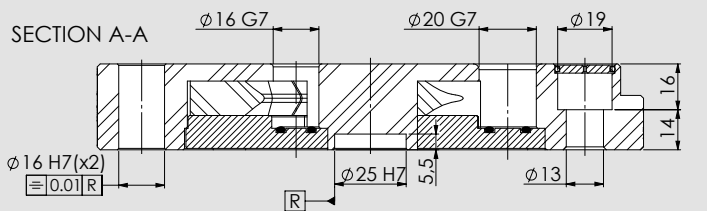
Weight (Kg)
7,5

PLUS 5 All in One 52/96

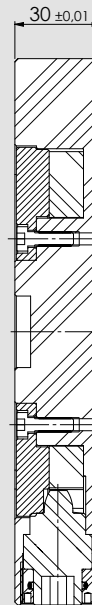
PLUS 5 All in One - Mechanical Zero Point system



- Complete with:
 - wrench 10mm
 - protection caps (Plus 5 52 / 96)
- Pins not included



SECTION B-B

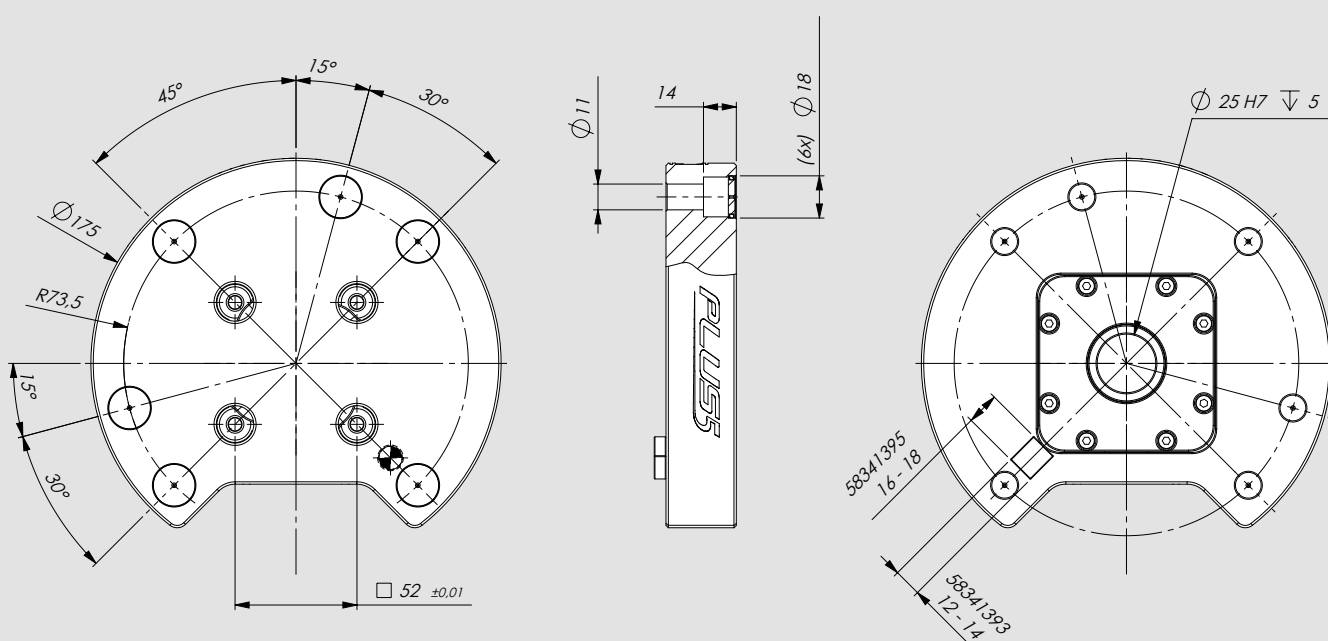
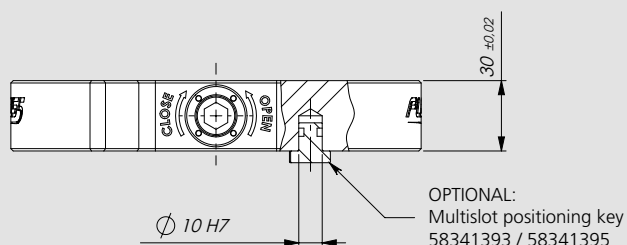


Subject to technical changes.

Id. No.	Weight (Kg)
46240103	7,5



- Complete with wrench 10mm
- Pins not included

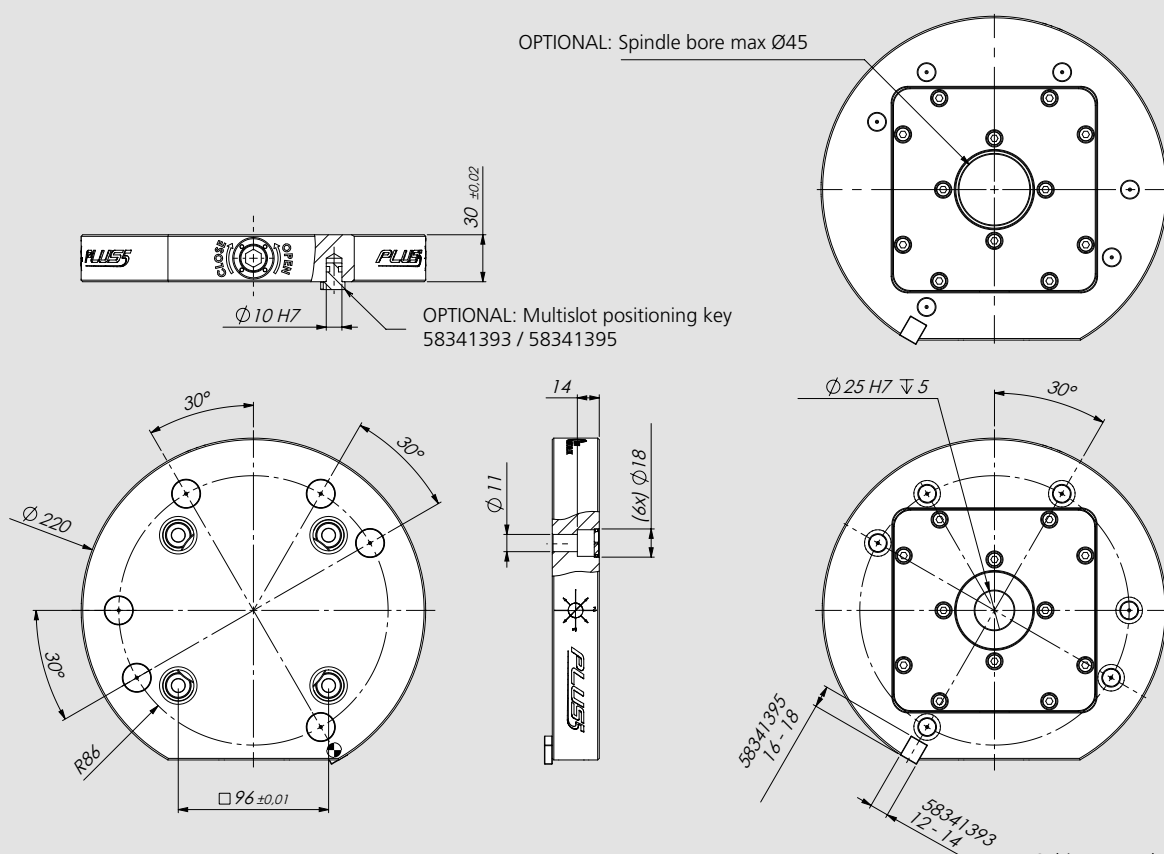


Subject to technical changes.

Id. No.	Weight (Kg)
46240111	6



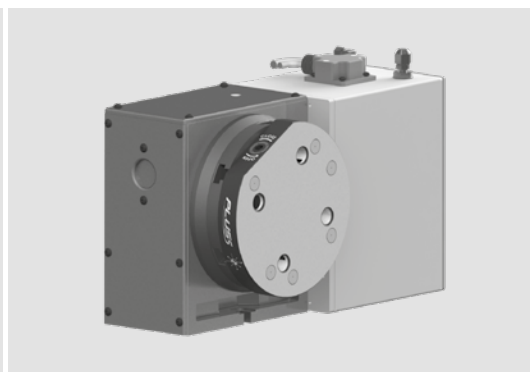
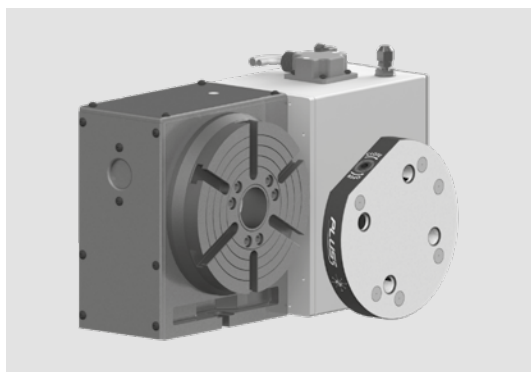
- Complete with wrench 10mm
- Pins not included



Subject to technical changes.

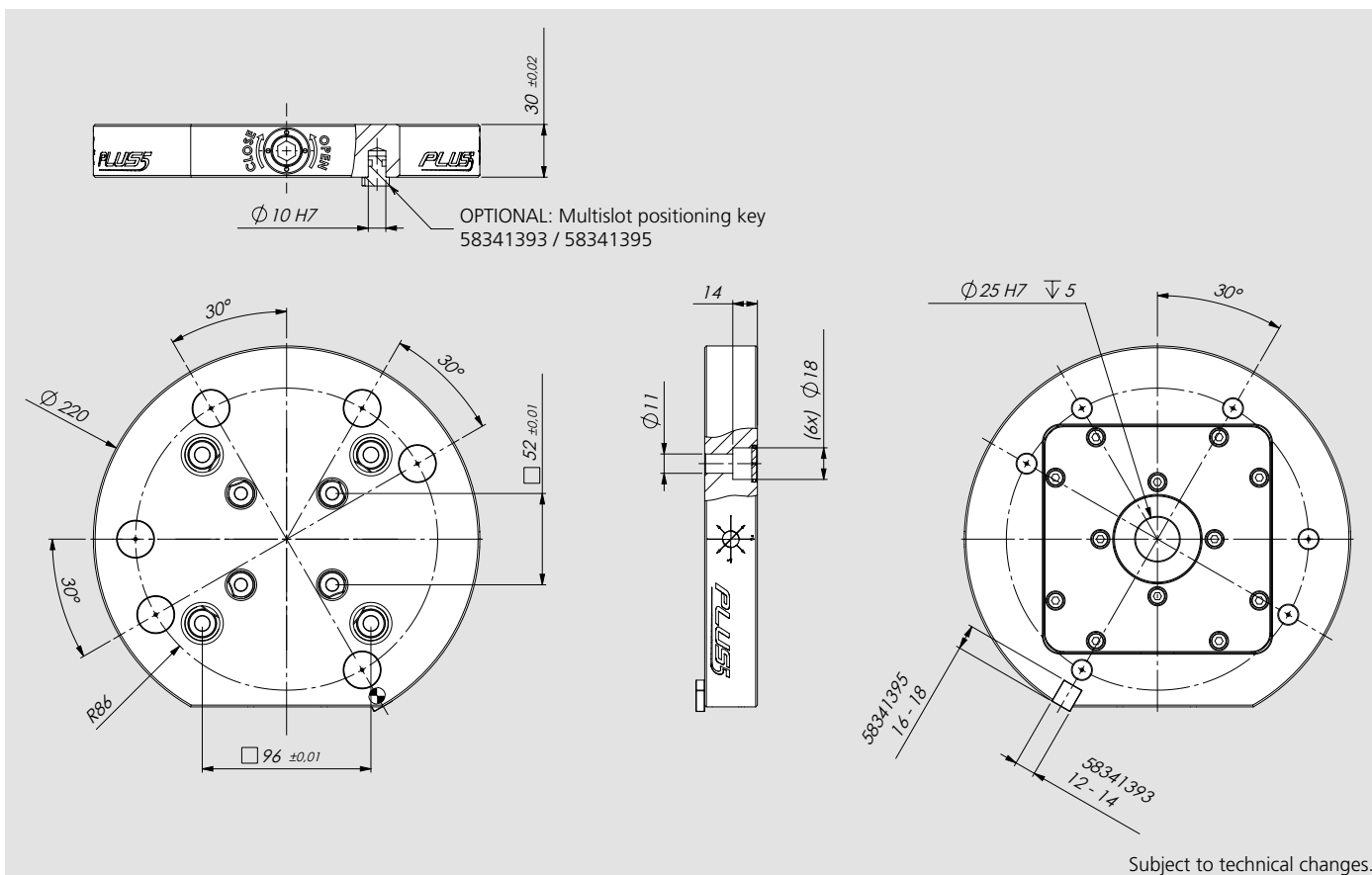
Id. No.	Weight (Kg)
46240112	8

Working example





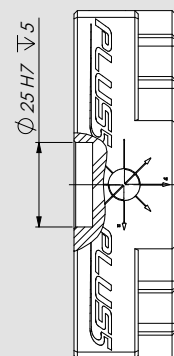
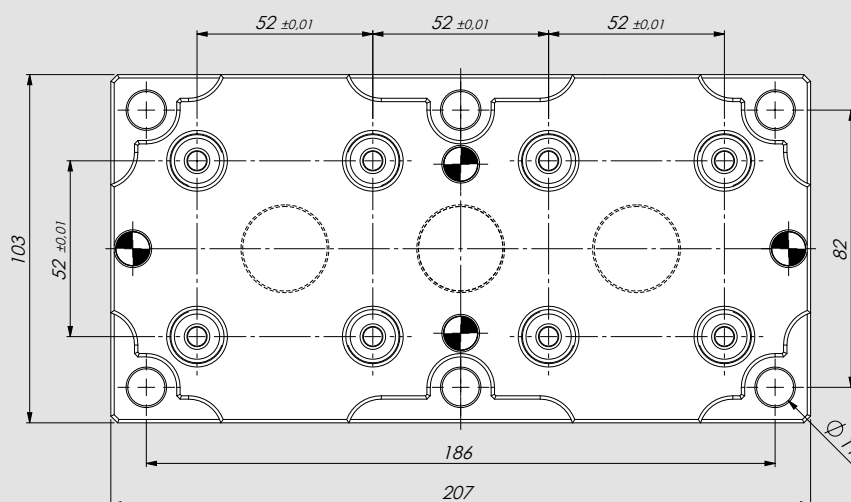
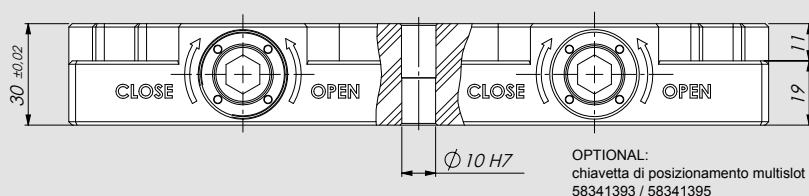
- Complete with:
 - wrench 10mm
 - protection caps (Plus 5 - 96)
- Pins not included



Id. No.	Weight (Kg)
46240113	8

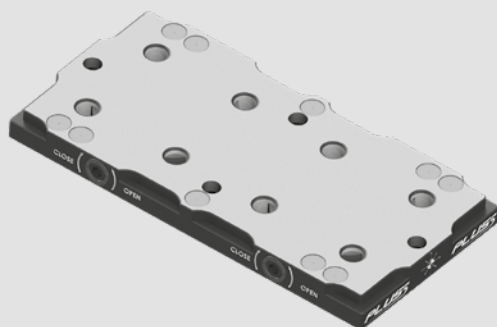


- Complete with:
 - wrench 10mm
 - n. 2 safety plates (Id. No. 46248205)
- Pins not included

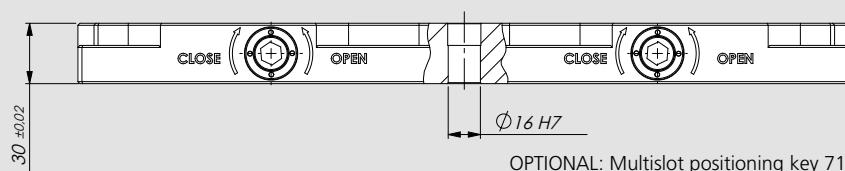


Subject to technical changes.

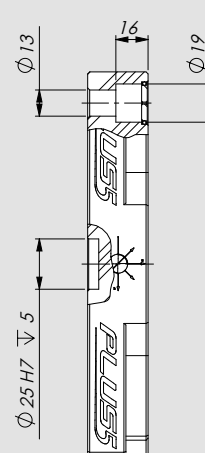
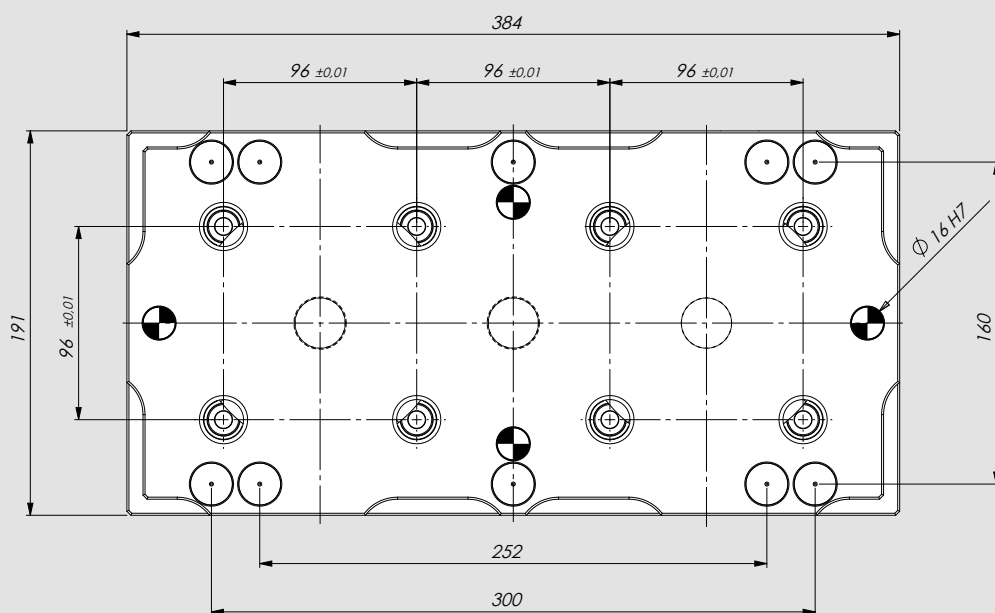
Id. No.	Weight (Kg)
46248200	4



- Complete with:
 - wrench 10mm
 - n. 2 safety plates (Id. No. 46248215)
- Pins not included



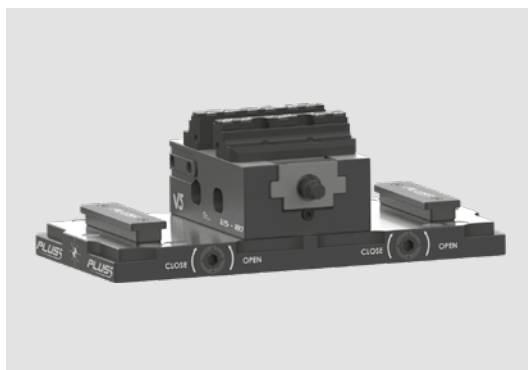
OPTIONAL: Multislot positioning key 71290182

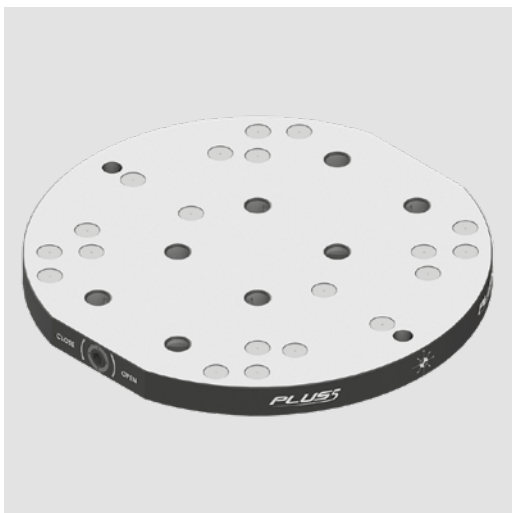


Subject to technical changes.

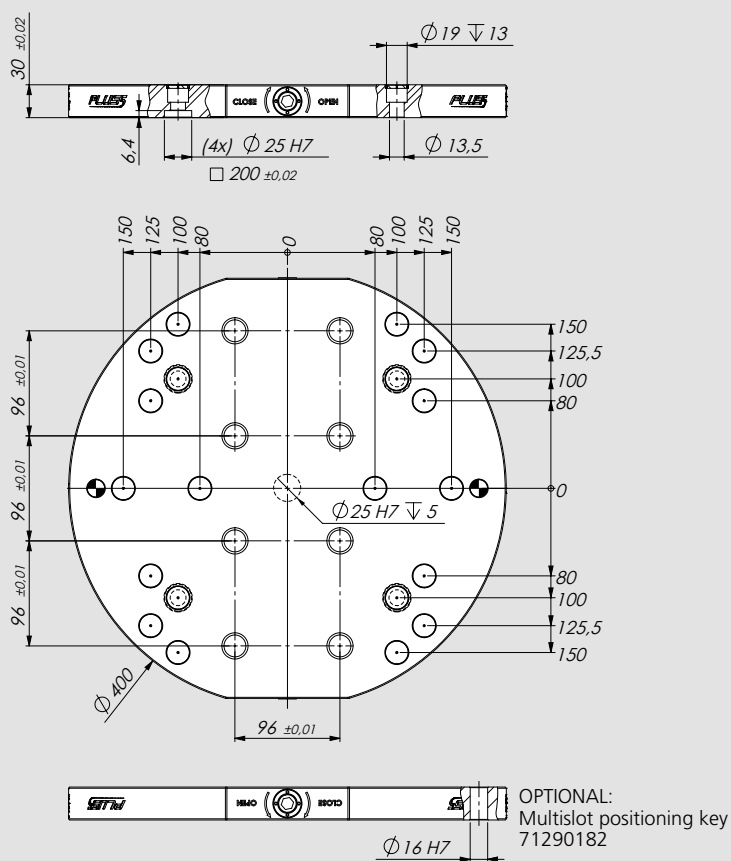
Id. No.	Weight (Kg)
46248210	16

Working example





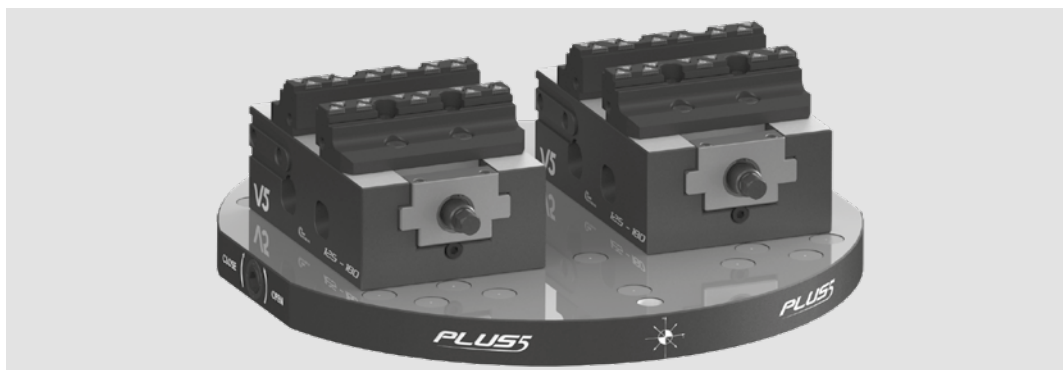
- Complete with:
 - wrench 10mm
 - n. 2 safety plates (Id. No. 46248215)
- Pins not included



Subject to technical changes.

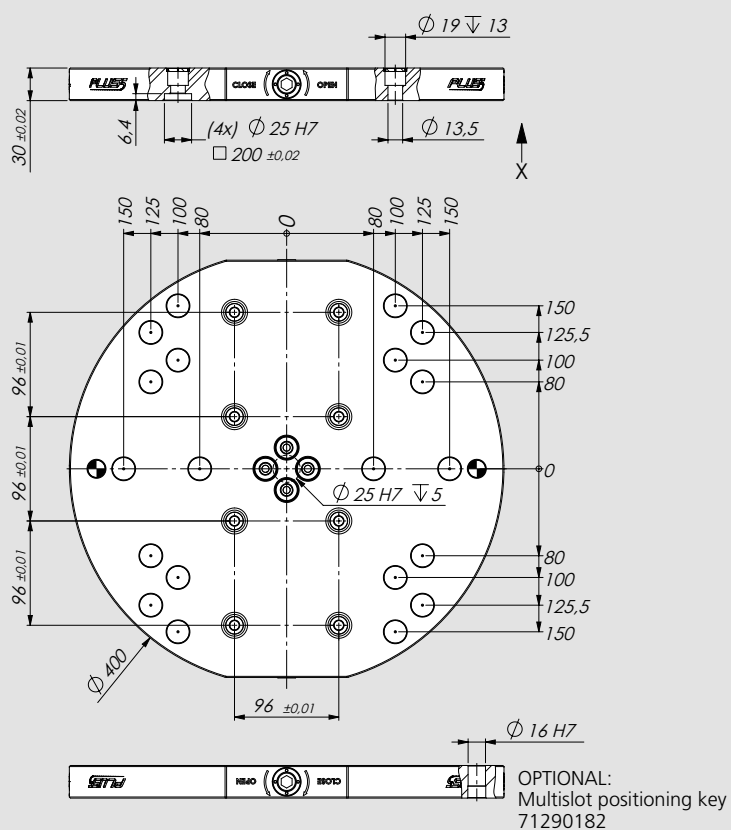
Id. No.	Weight (Kg)
46248220	27

Working example

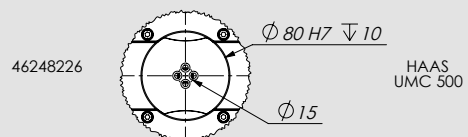
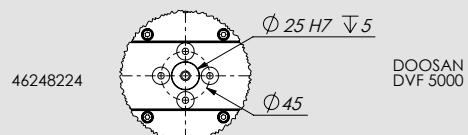
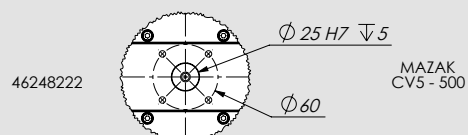




- Complete with:
 - wrench 10mm
 - n. 2 safety plates (Id. No. 46248215)
- Pins not included
- n. 4 fittings male



VISTA da X



Subject to technical changes.

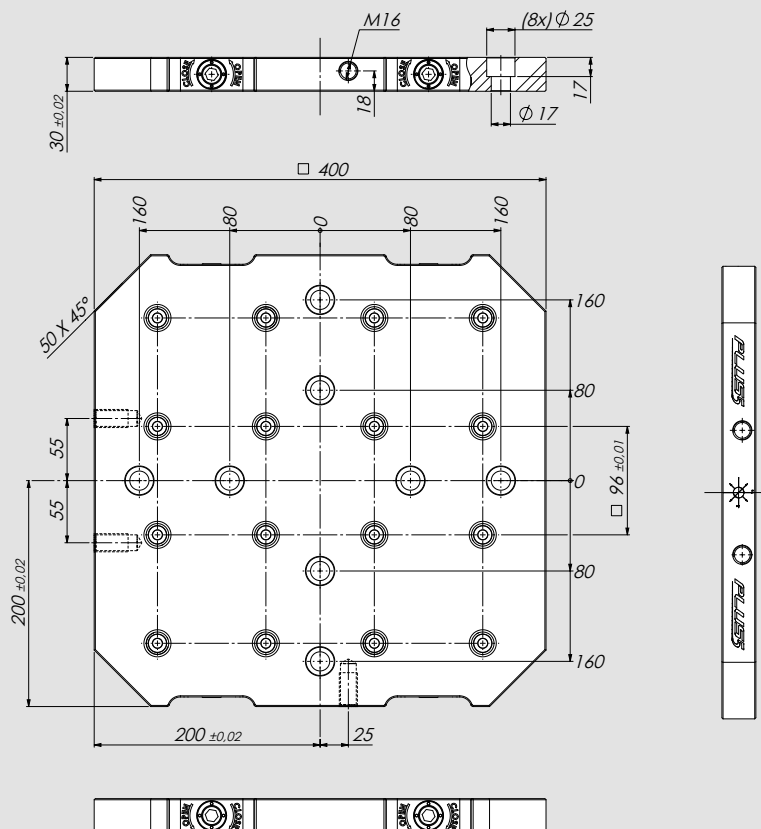
Description	Id. No.	Description	Id. No.	Description	Id. No.	Weight (Kg)
Mazak CV5-500	46248222	Doosan DVF 5000	46248224	Haas UMC 500	46248226	27

Working example



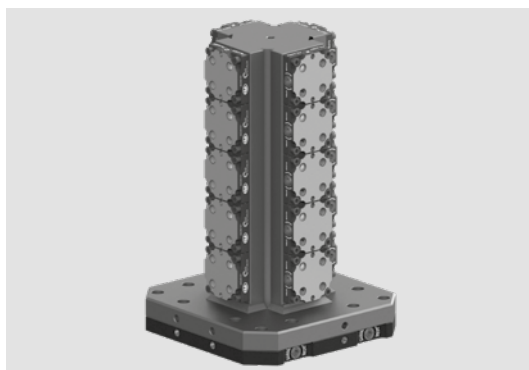


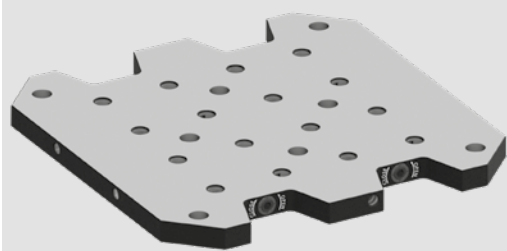
- Complete with:
 - wrench 10mm
 - n. 6 safety plates (Id. No. 46248215)
- Pins not included



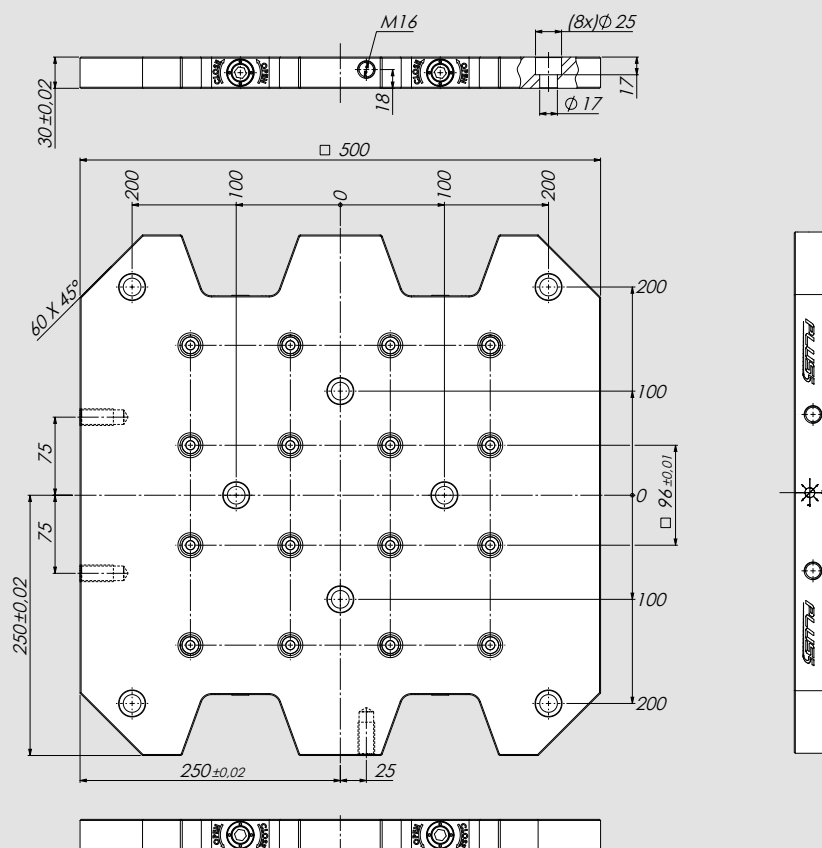
Id. No.	Weight (Kg)
46248230	33

Working example



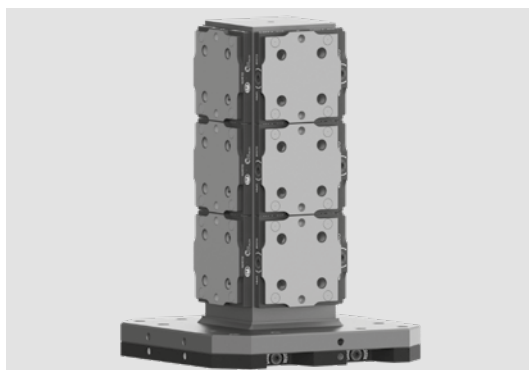


- Complete with:
 - wrench 10mm
 - n. 6 safety plates (Id. No. 46248215)
- Pins not included



Id. No.	Weight (Kg)
46248232	50

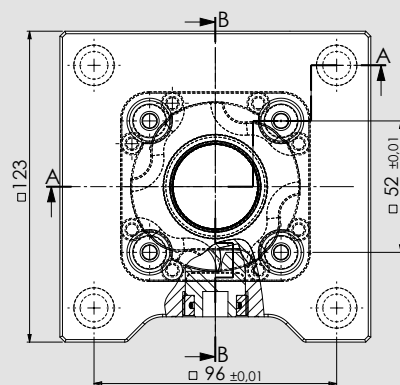
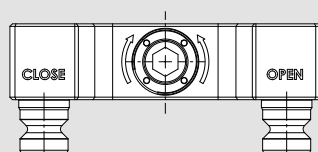
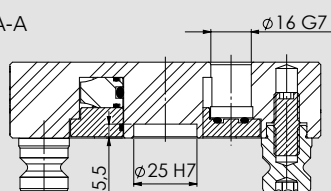
Working example



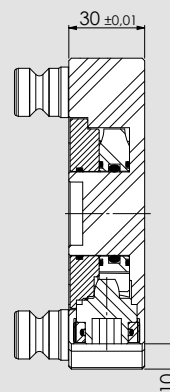


- Complete with:
 - wrench 10mm
 - n. 4 pins 96 (46240220)

SECTION A-A

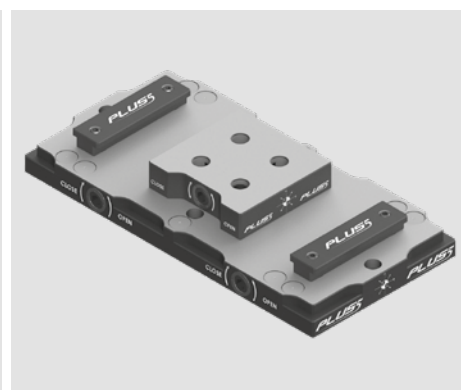
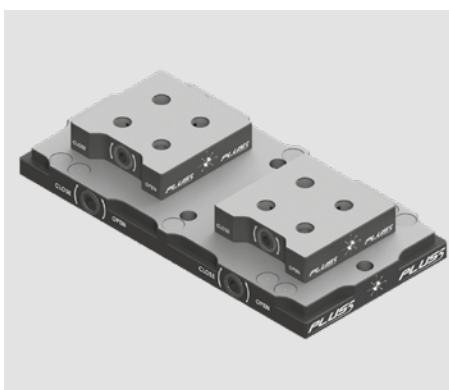


SECTION B-B

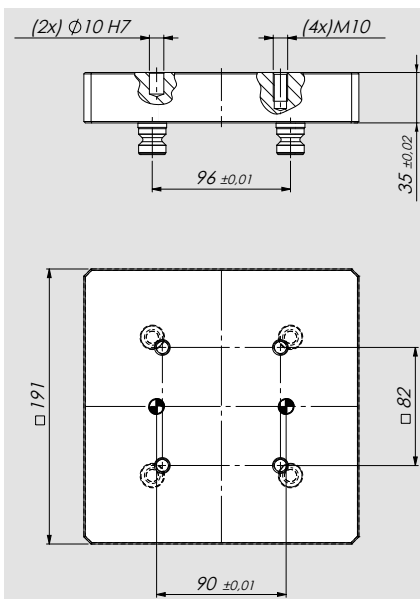
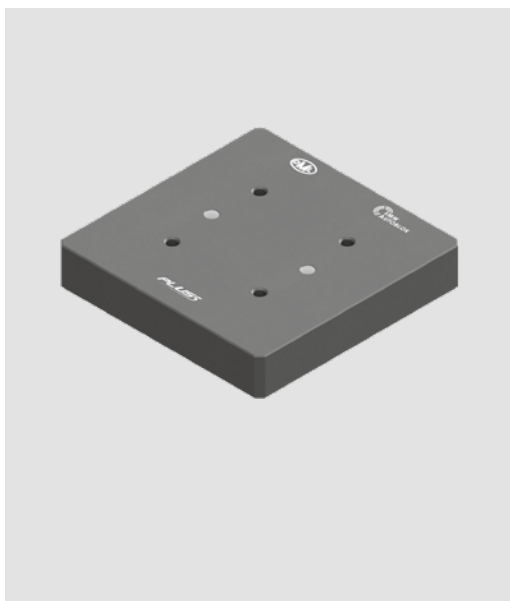


Id. No.	Weight (Kg)
46240104	3,5

Working example



Reduction plate

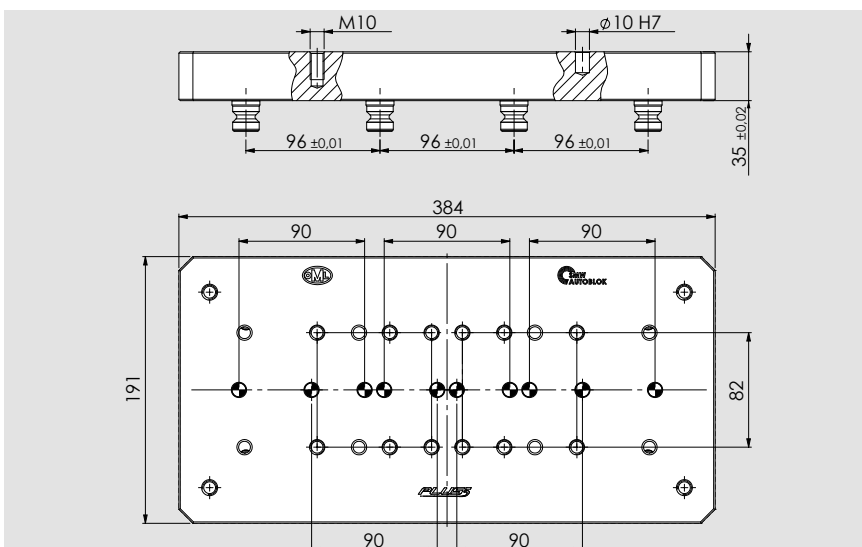


Complete with

- Fixing screws and dowel pins for Plus 5 52
- Set of 4 Plus 5 96 pins

Id. No.	Weight (Kg)
46242210	10

Multiple reduction plate

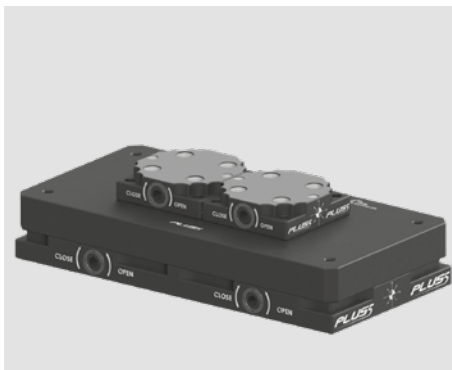


Complete with

- Fixing screws and dowel pins for Plus 5 52
- n. 2 Set of 4 Plus 5 96 pins

Id. No.	Weight (Kg)
46242220	21

Working example

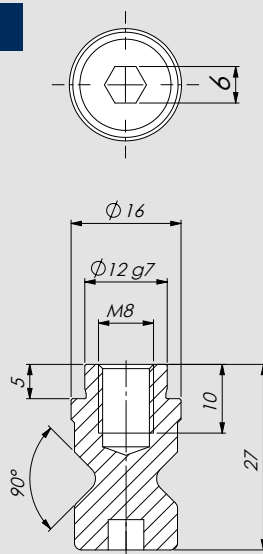


Clamping pins

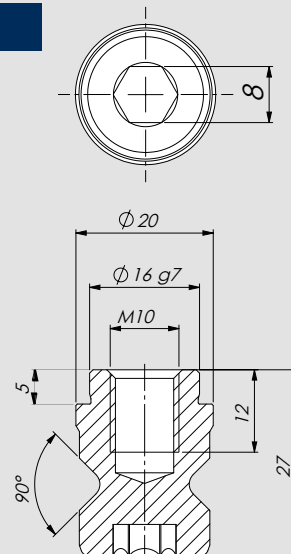


- Complete of grub screw M8 for Plus5 52 and M10 for Plus5 96

52



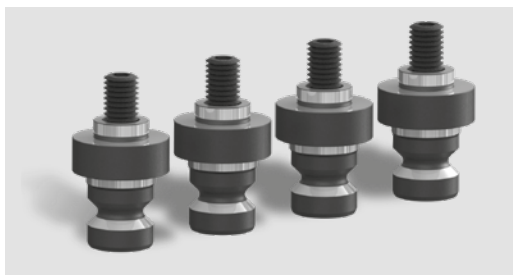
96



Description	Id. No.	Weight (Kg)
Set of 4 pins for PL5 - 52	46240214	0,12
Set of 4 pins for PL5 - 96	46240224	0,20
Pin for PL5 - 52	46240210	0,03
Pin for PL5 - 96	46240220	0,05

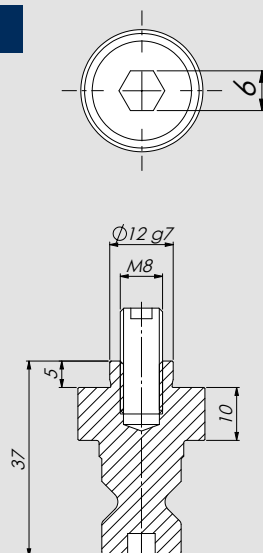
The dimensions of the pin identify compatibility with other pins on the market

Raised clamping pins

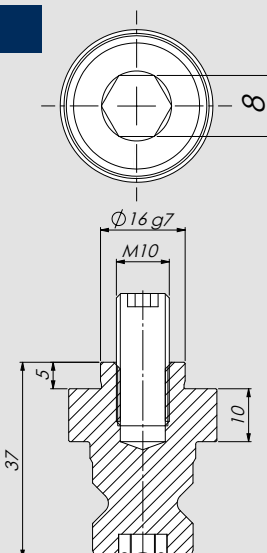


- Complete of grub screw M8 for Plus5 52 and M10 for Plus5 96

52

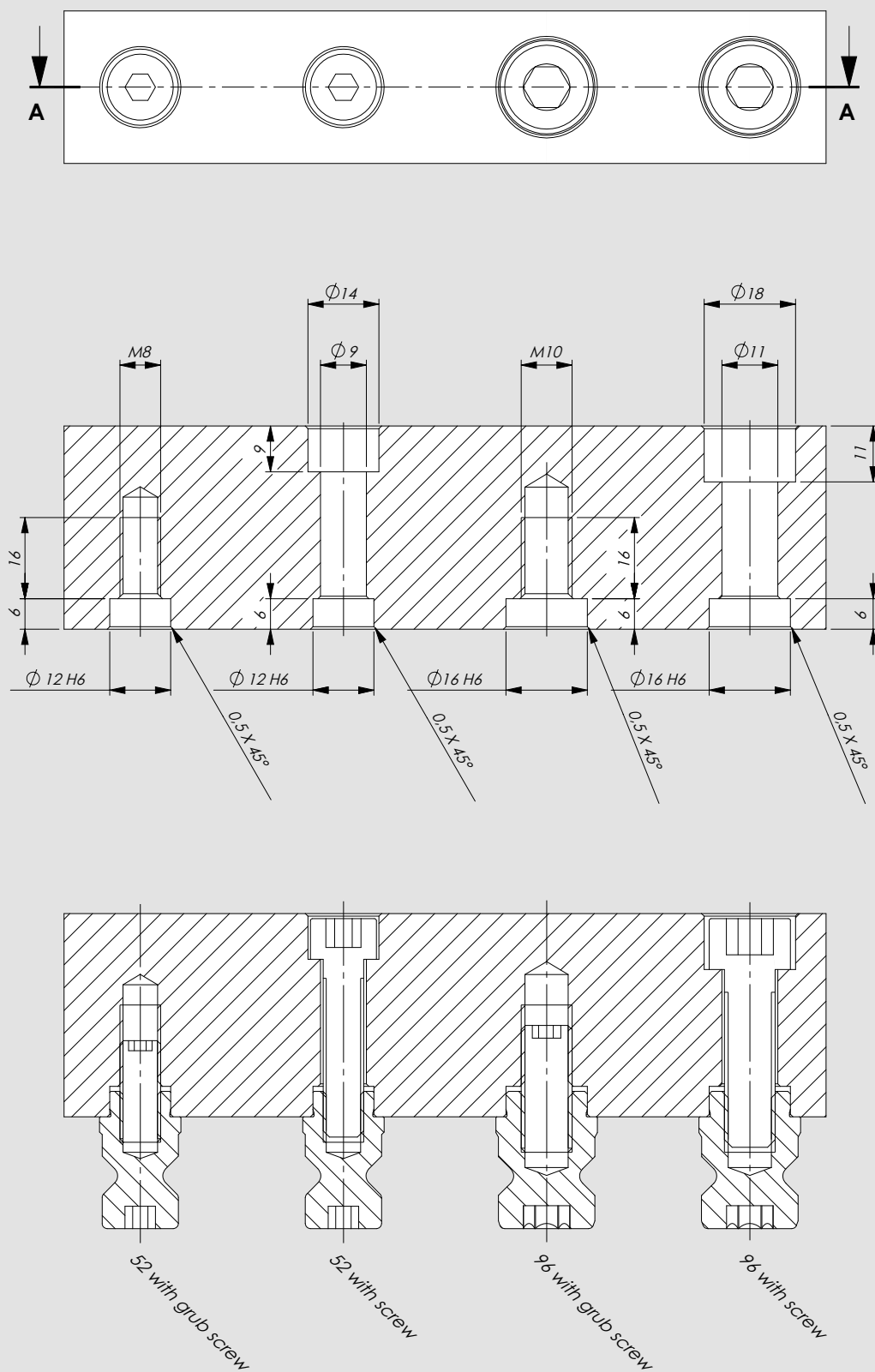


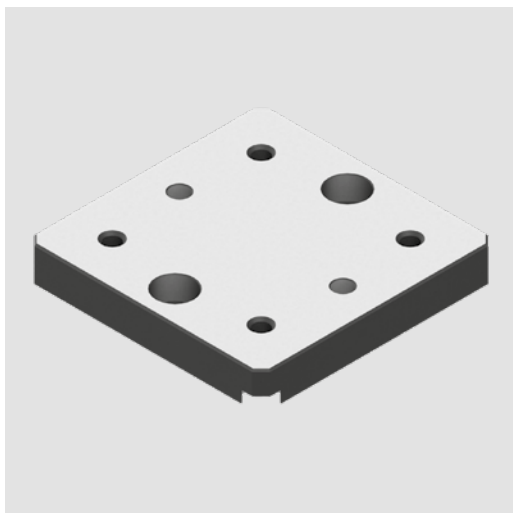
96



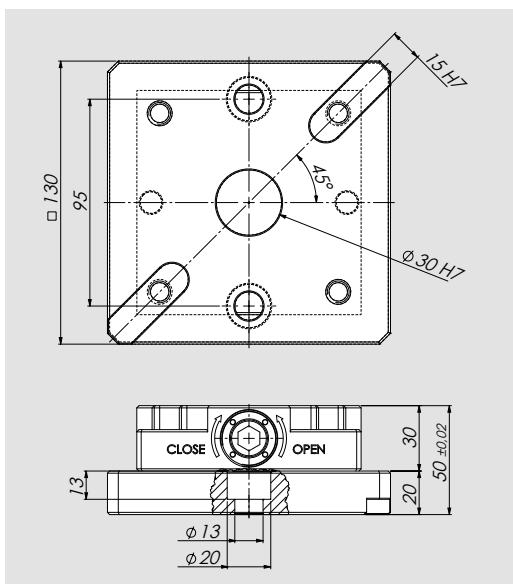
Description	Id. No.	Weight (Kg)
Set of 4 raised pins for PL5 - 52	46240234	0,12
Set of 4 raised pins for PL5 - 96	46240244	0,20
Raised pin for PL5 - 52	46240230	0,03
Raised pin for PL5 - 96	46240240	0,05

The dimensions of the pin identify compatibility with other pins on the market





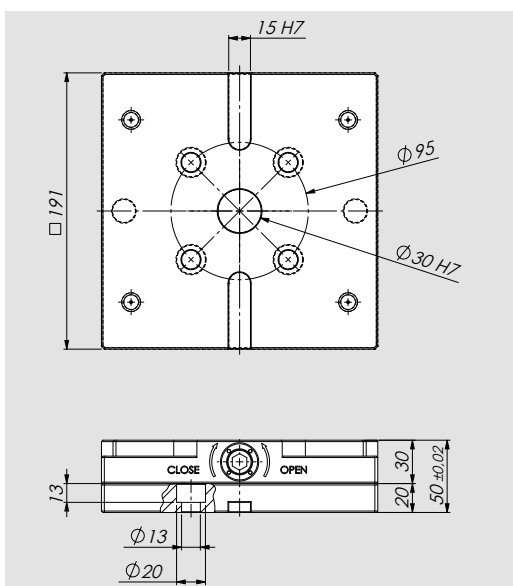
Working example



PLUS 5 - 52 Pallet interface plate

Complete with screws and dowel pins
Plus 5 not included

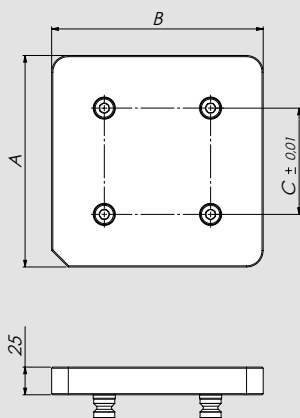
Id. No.	Weight (Kg)
46242110	2,5



PLUS 5 - 96 Pallet interface plate

Complete with screws and dowel pins
Plus 5 not included

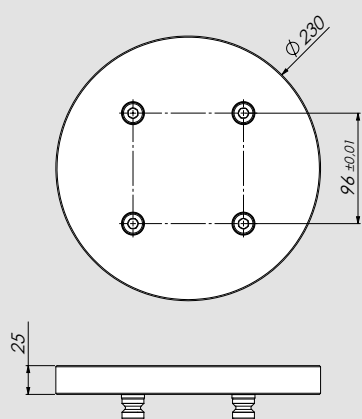
Id. No.	Weight (Kg)
46242120	5,5



PLUS 5 - 52 / 96 Smooth plate

Complete with set of 4 pins

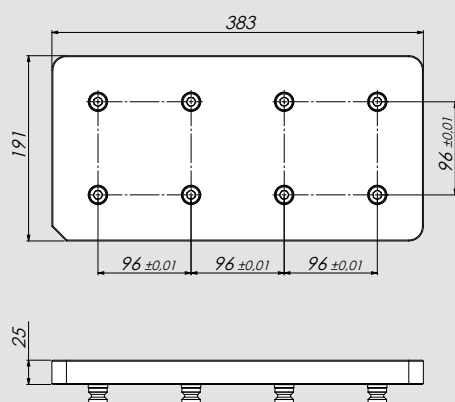
Id. No.	Type	A	B	C	Weight
46247710	52	103	103	52	2 Kg
46247720	96	191	191	96	7 Kg



PLUS 5 - 96 Smooth round plate

Complete with set of 4 pins

Id. No.	Weight (Kg)
46247730	8



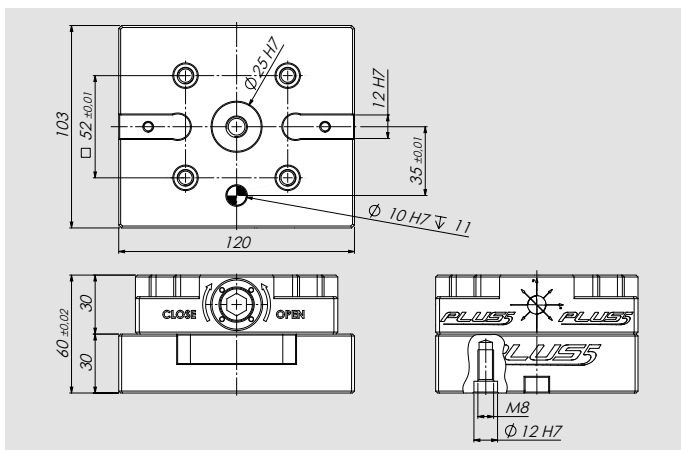
PLUS 5 - 96 Double smooth plate

Complete with n. 2 set of 4 pins Plus 5 96

Id. No.	Weight (Kg)
46247740	15

RISER PLUS 5 - 52 (H tot = 60)

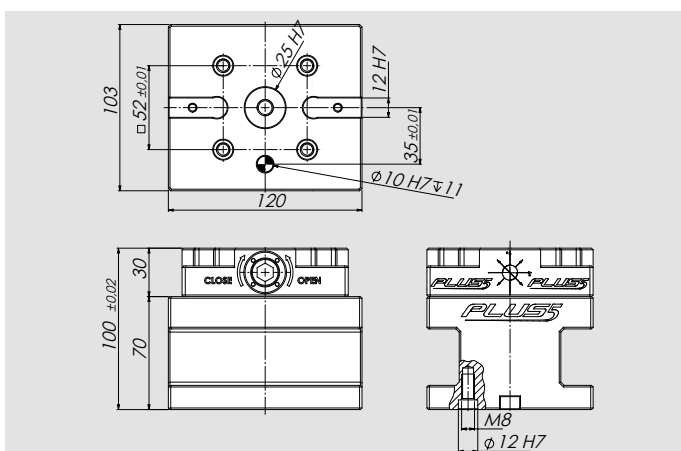
Complete with screws and dowel pins
Plus 5 not included



Id. No.	Weight (Kg)
46242018	2

RISER PLUS 5 - 52 (H tot = 100)

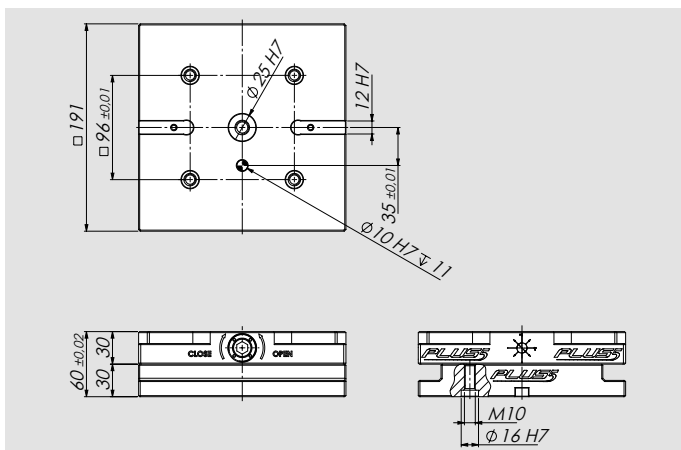
Complete with screws and dowel pins
Plus 5 not included



Id. No.	Weight (Kg)
46242019	5

RISER PLUS 5 - 96 (H tot = 60)

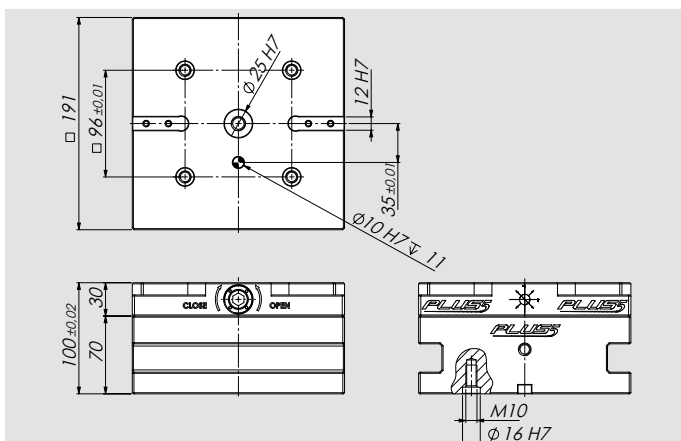
Complete with screws and dowel pins
Plus 5 not included



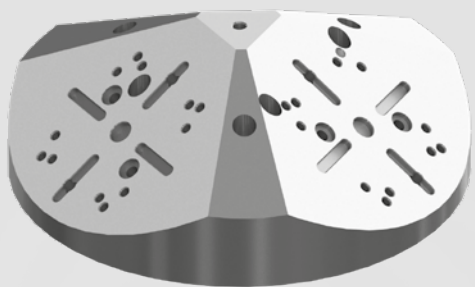
Id. No.	Weight (Kg)
46242028	7

RISER PLUS 5 - 52-96 (H tot = 100)

Complete with screws and dowel pins
Plus 5 not included



Id. No.	Weight (Kg)
46242029	18



Applications / Customer Benefits

- Ideal for 5 axis machines
- Compact design
- Possibility to be mounted directly on machine tools with radial slots at 45 / 60 degrees
- Possibility to be mounted directly on APS Zero Point system and Plus5

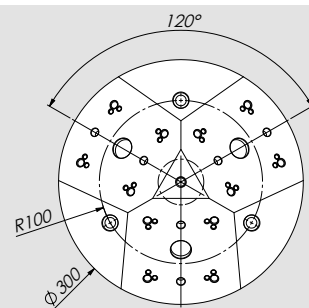
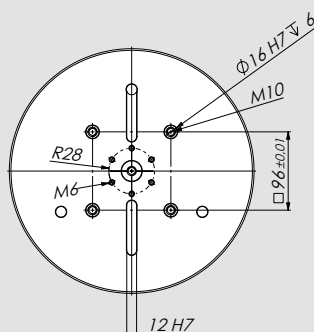
Technical features

- Material: ALU

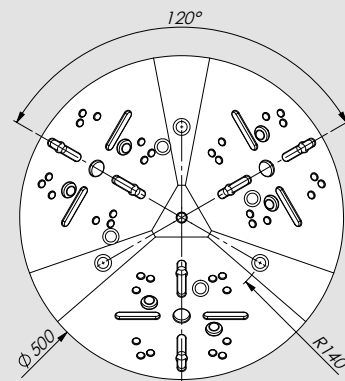
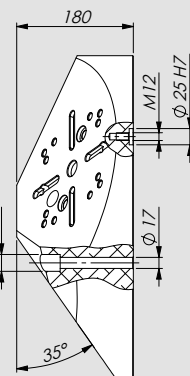
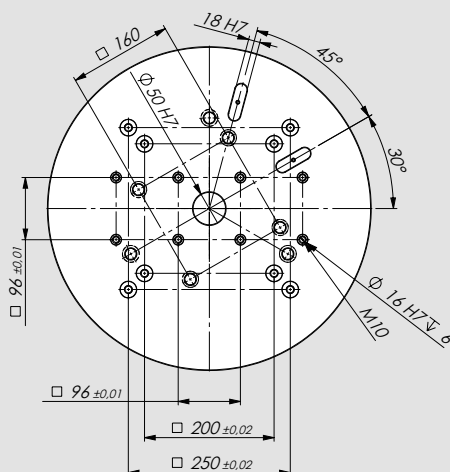
Standard equipment

Positioning keys and screws for IMG, V5 and E5 vises
Pins and screws

IMG 88 - 130
V5 88 - 130
E5 88 - 130
PLUS 5 - 52

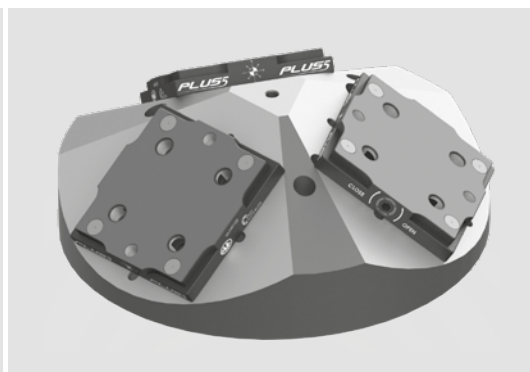
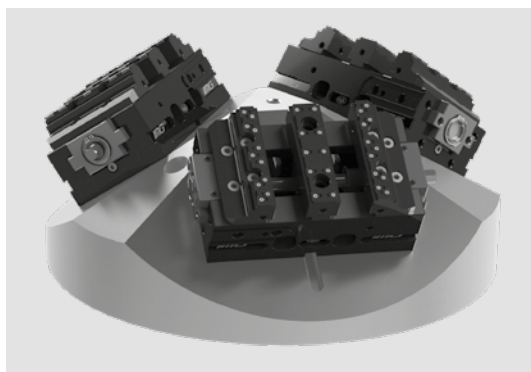


IMG 125 - 180
IMG 125 - 220
V5 125 - 180
E5 125 - 180
PLUS 5 - 96



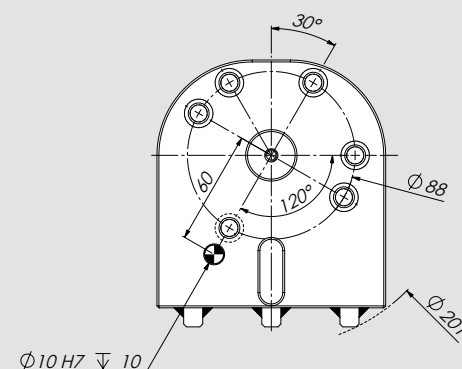
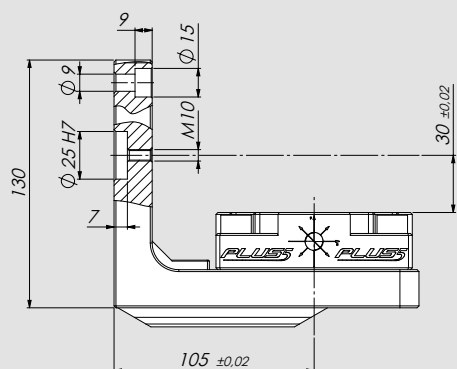
Type	Id. No.	Weight (Kg)
For IMG, V5, E5 88-130 and PLUS 5 - 52	58343210	12
For IMG 125-180, IMG 125-220, V5, E5 125-180 and PLUS 5 - 96	58353210	55

Working example





Plus 5 - 52 not included



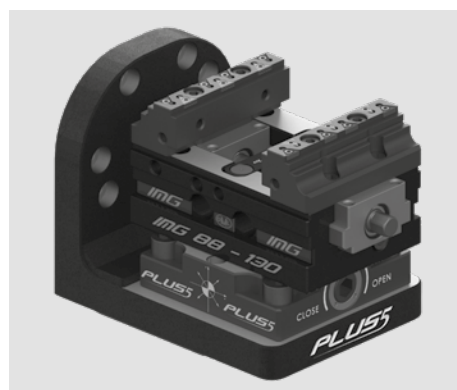
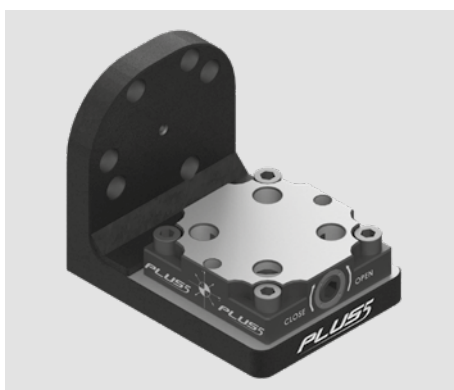
Id. No.

46242038

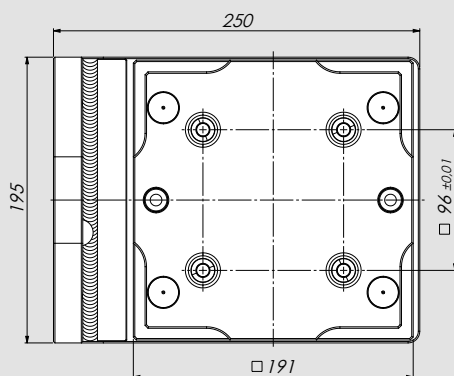
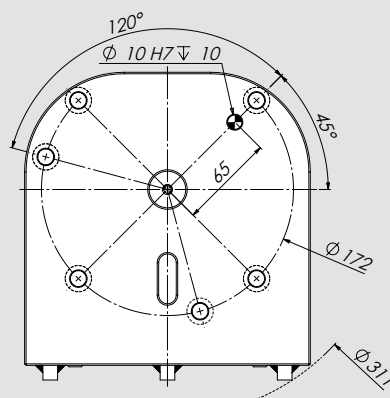
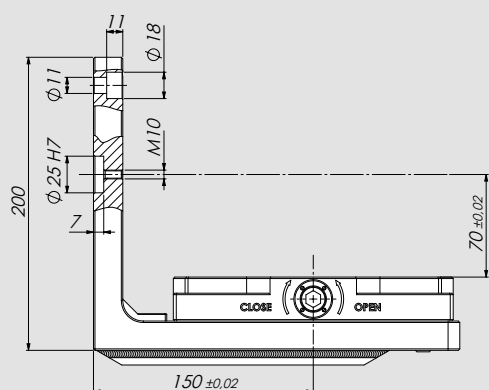
Weight (Kg)

6

Working example



Plus 5 - 52 not included



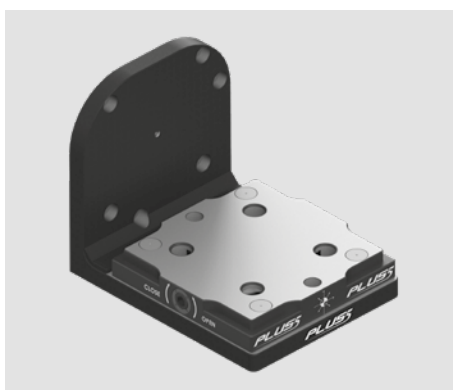
Id. No.

46242039

Weight (Kg)

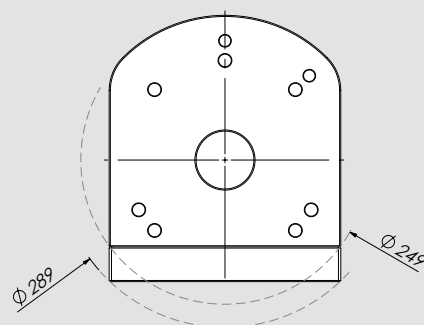
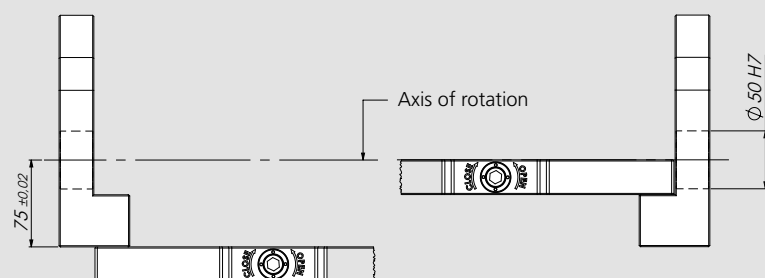
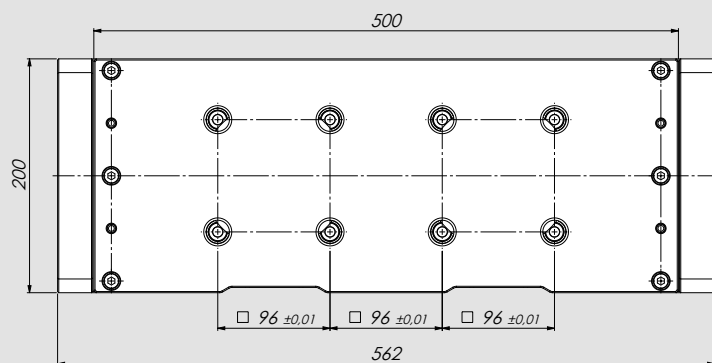
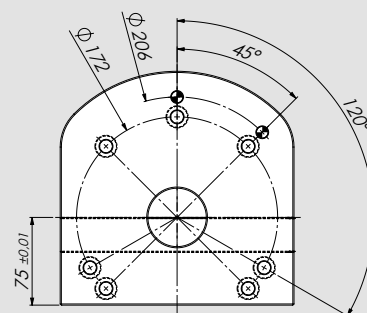
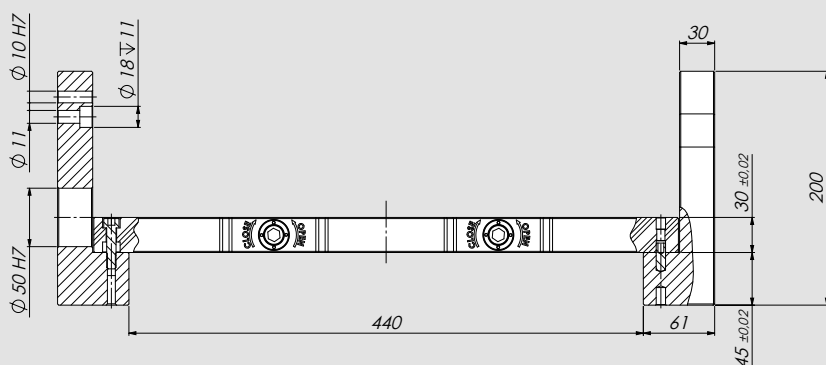
14

Working example





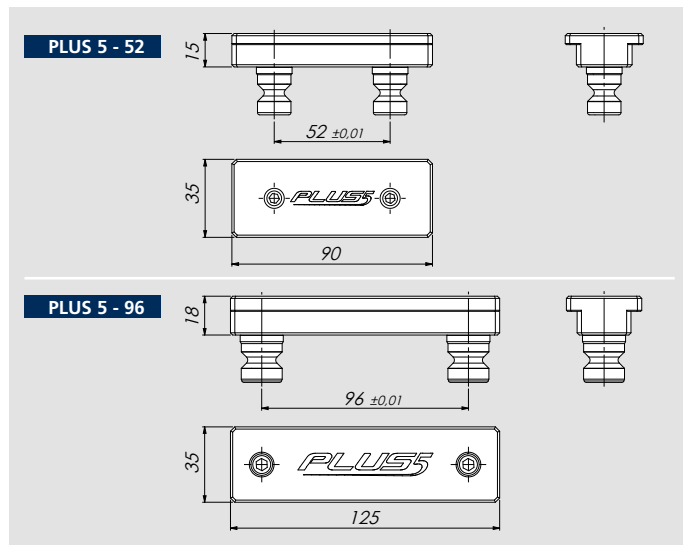
- Complete with:
 - wrench 10mm
 - n. 2 safety plates (Id. No. 46248215)
- Pins not included



Id. No.	Weight (Kg)
46248320	43

PLUS 5 - 96

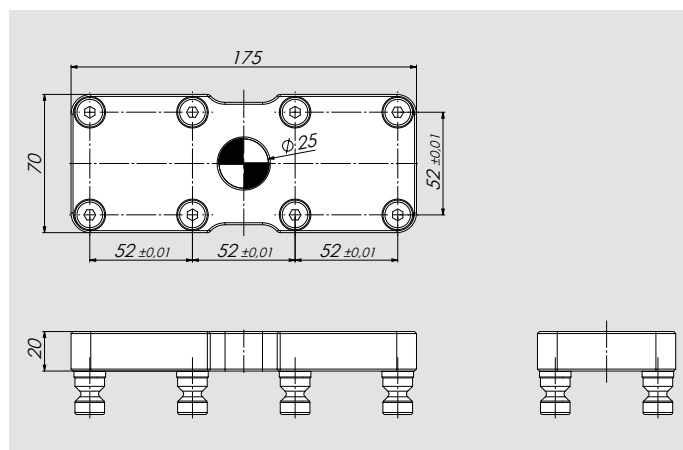
Safety plate for locking on two different modules. Complete with pins 96



Type	Id. No.	Weight (Kg)
Plus 5 - 52	46248205	0,3
Plus 5 - 96	46248215	0,4

PLUS 5 - 52

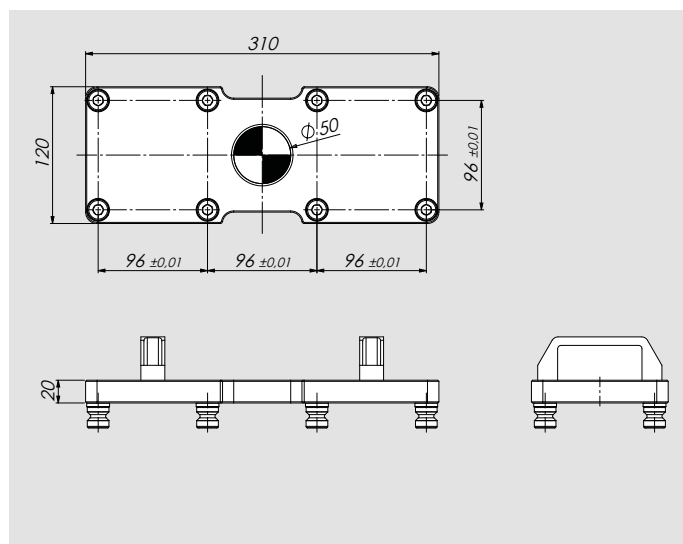
Alignment plate complete with pins 52



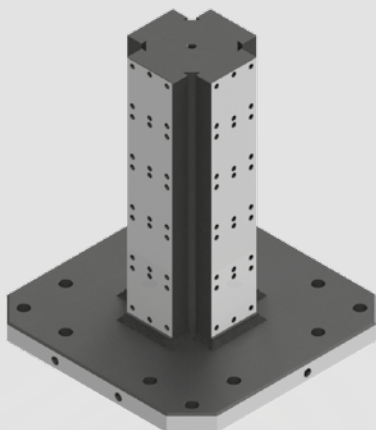
Id. No.	Weight (Kg)
46240410	2

PLUS 5 - 96

Alignment plate complete with pins 96



Id. No.	Weight (Kg)
46240420	6



Applications / Customer Benefits

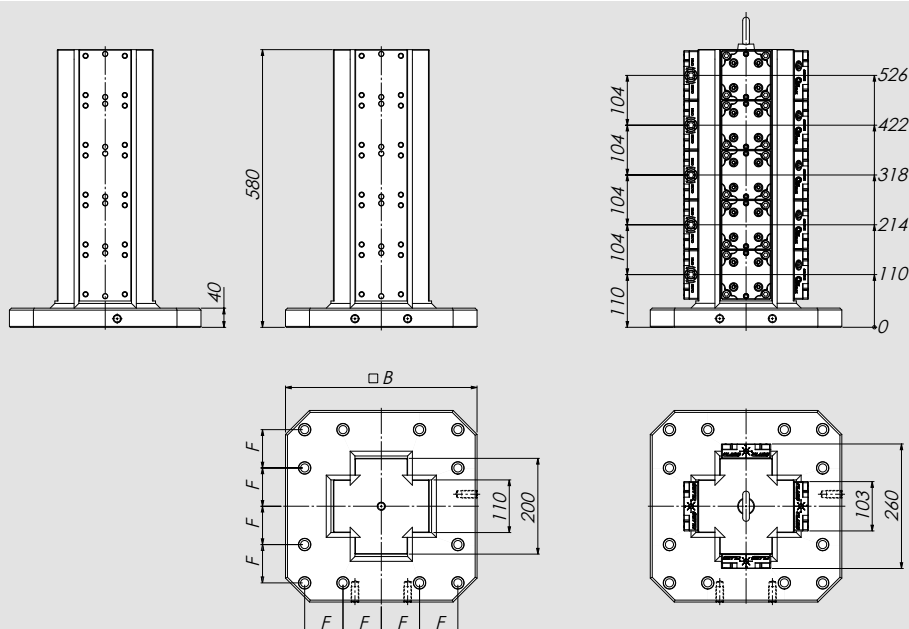
- Ideal for horizontal machines
- Compact design

Technical features

- Material: steel

Standard equipment

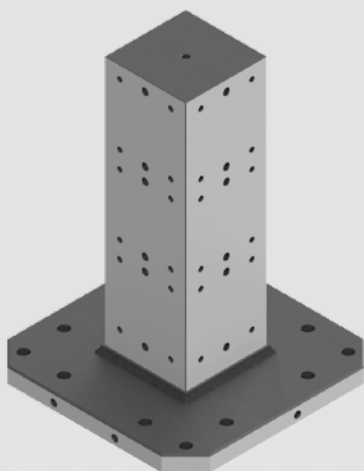
Steel tombstone complete with fixing screws and dowel pins



Type	Id. No.	B	F	Weight	Weight (only tombstone)
Tombstone Plus 5 - 52 - Base 400	46247110	400	80	162 Kg	121 Kg
Tombstone Plus 5 - 52 - Base 500	46247120	500	100	190 Kg	148 Kg

Working example





Applications / Customer Benefits

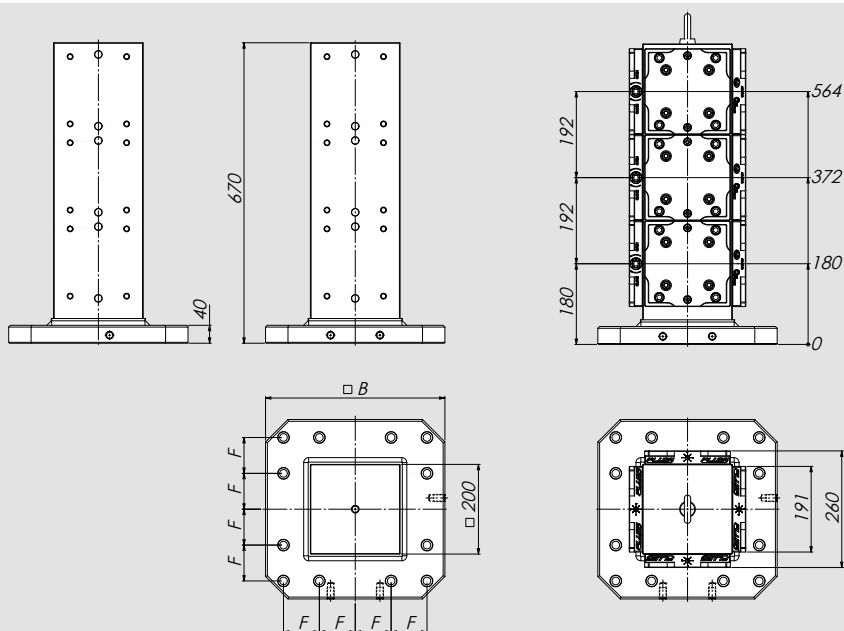
- Ideal for horizontal machines
- Compact design

Technical features

- Material: steel

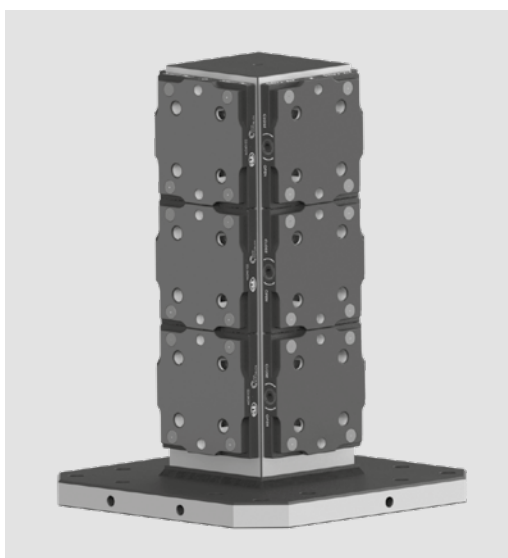
Standard equipment

Steel tombstone complete with fixing screws and dowel pins



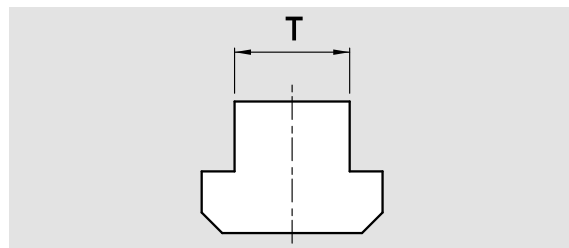
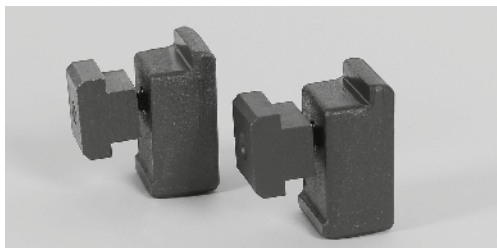
Type	Id. No.	B	F	Weight	Weight (only tombstone)
Cubo Plus 5 - 96 - Base 400	46247210	400	80	253 Kg	160 Kg
Cubo Plus 5 - 96 - Base 500	46247220	500	100	280 Kg	187 Kg

Working example

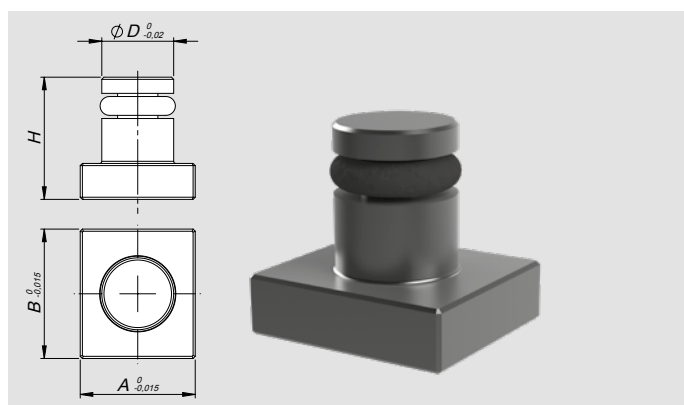


PLUS 5 - 52/96

Pair of Clamps



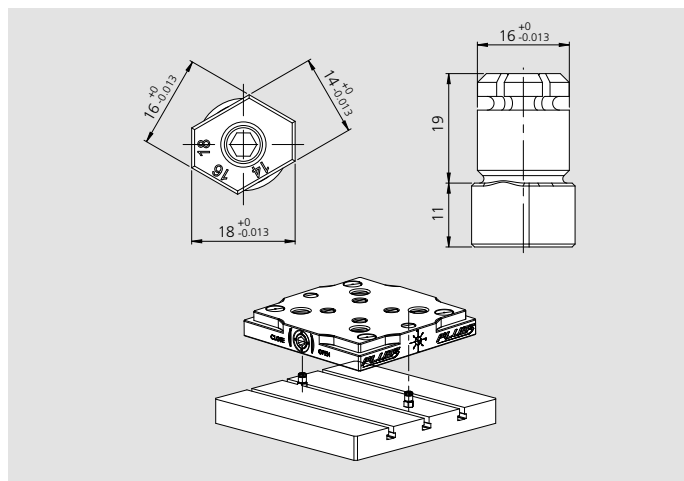
Type	mm 12	mm 14	mm 16	mm 18	mm 20	mm 22
PLUS 5 52/96	58022792	58022793	58022794	58022795	58022796	58022797



Key only for:

- Plus 5 52
- Plus 5 Index 96

Id. No.	A	B	H	D
58341393	12	14	17	10
58341395	16	18	17	10



Multi-Slot screw for Plus 5 96

Type	Id. No.
Multi-Slot 14 / 16 / 18	71290182

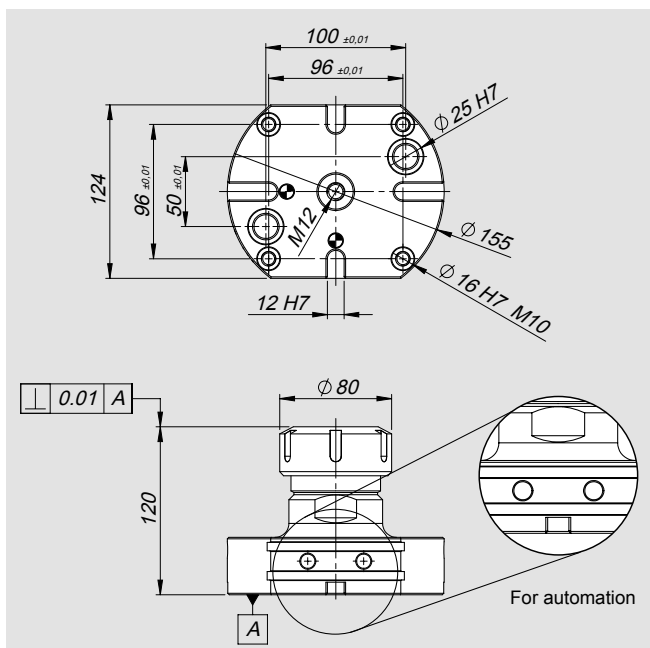


PLUS 5 - 52/96

Steel protection cap

Type	Id. No.	Weight (Kg)
Set 4 caps Plus 5 52	46240314	0,08
Set 4 caps Plus 5 96	46240324	0,16
Protection cap Plus 5 52	46240310	0,02
Protection cap Plus 5 96	46240320	0,04

COLLECT CHUCK ER50



Id. No.
46233500

Working example



