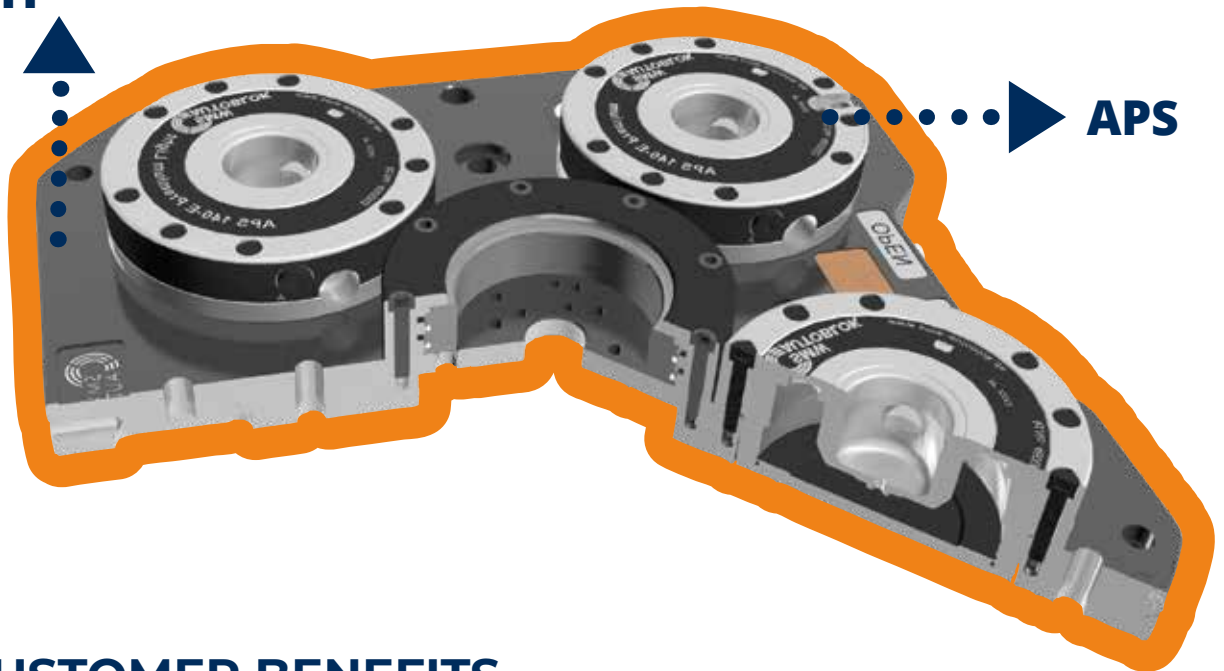


MODULE HEIGHT EXTENSION



**CLAMPING
UNIT**



CUSTOMER BENEFITS

- ▶ Pre-assembled clamping unit with some types of APS (see next table)
- ▶ For 5-axis machining center
- ▶ Universal applicable
- ▶ Fast and easy set-up
- ▶ Repeatability < 0.005 mm
- ▶ Distribution plate for media feed (pneumatic / hydraulic) 6 channels



CLAMPING UNIT

2

Types	Id.n.	APS size						n. of APS	Height H	SAB-1 std	available for n. axis		Weight
		100 E-PREMIUM	140 BASIC	140 E-PREMIUM	140 PREMIUM LIGHT	140 PREMIUM LIGHT SC	190 E-PREMIUM				3	5	
MODULE HEIGHT EXTENSION	460110							1	H65				6 Kg
	460112							1	H60				8 Kg
	460113							1	H80				11 Kg
	460114							1	H120				14 Kg
	460115							1	H180				18 Kg
	460111							1	H100				20,5 Kg
	46203030							1	H100				12 Kg
	46203020							1	H100				18 Kg
	46203040							1	H76				8,3 Kg
	41702150							1	H76				14,5 Kg
	46203000						6 feedings	1	H95				10,5 Kg
CLAMPING UNIT	46202210		1 feeding					2	H60				21 Kg
	46202200		1 feeding					4	H60				42 Kg
	460020				2 feedings			2	H60				21 Kg
	460021		2 feedings					2	H60				21 Kg
	460022				2 feedings			4	H60				41 Kg
	460023		2 feedings					4	H60				41 Kg
	46186672				2 feedings			6	H60				64 Kg
	46186674		2 feedings					6	H60				64 Kg
	46202230					3 feedings		2	H60				21 Kg
	46202220					3 feedings		4	H60				41 Kg
	46202000					2/4/6 feedings		4	H60				43 Kg

MODULE HEIGHT EXTENSION

without integrated feedings configuration possible scheme

APS 100 E PREMIUM
(1 KEY)



460005

CONFIGURATION ONE

**Module Height
Extension
APS 100**



APS 140 E PREMIUM
(1 KEY)



460002

CONFIGURATION ONE

**Module Height
Extension
APS 140**



CONFIGURATION TWO

**Module Height
Extension
APS 140
with SAB-1 std valve**



APS 190 E PREMIUM
(1 KEY)



46165640

CONFIGURATION ONE

**Module Height
Extension
APS 190**



CONFIGURATION TWO

**Module Height
Extension
APS 190
with SAB-1 std valve**

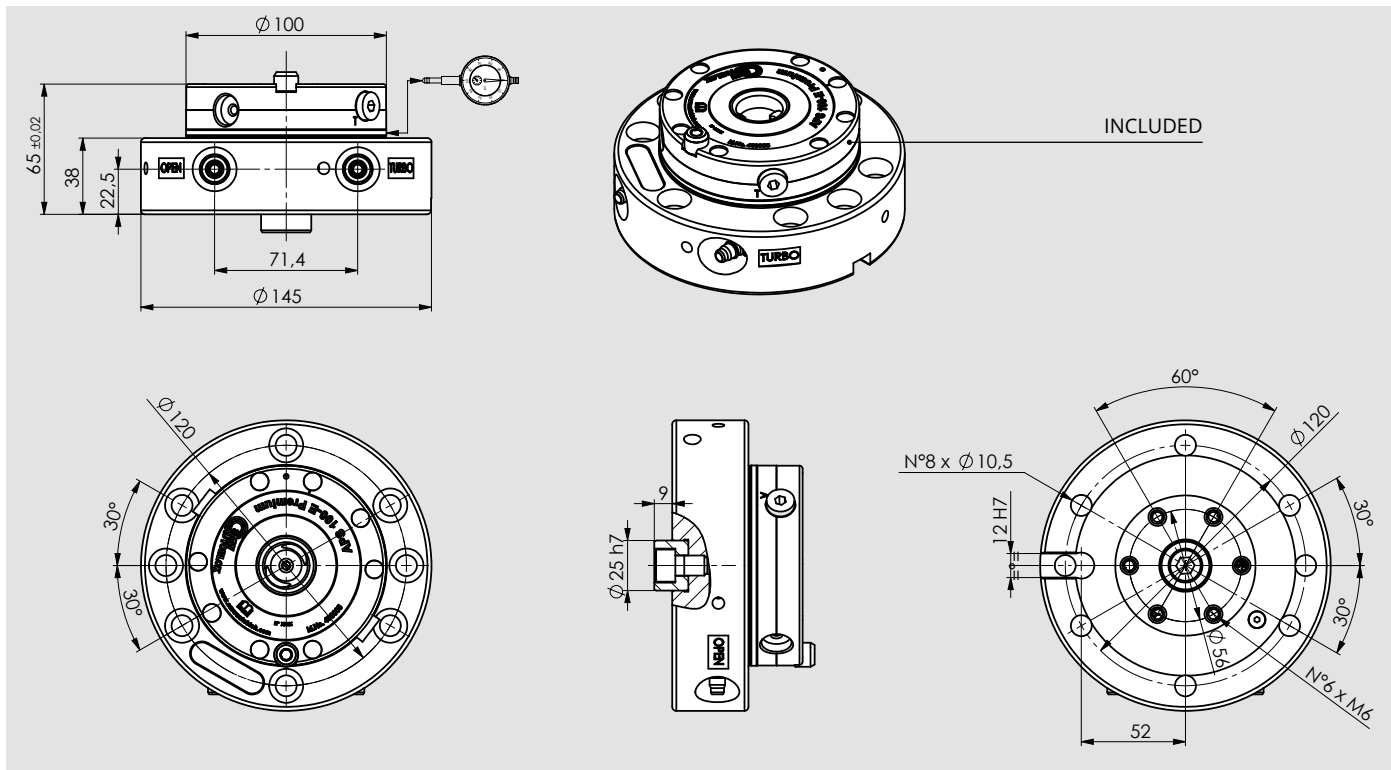


T-NUTS SET
optional



ATTENTION: the pneumatic system of the pressure switch must signal the alarm condition and must prevent the pallet exchange on the APS or any robot operation when the inlet pressure is less than 6 bar.

MODULE HEIGHT EXTENSION with one APS 100 E PREMIUM



ID.N. MODULE HEIGHT EXTENSION (APS INCLUDED)	HEIGHT	WEIGHT
460110 MODULE EXTENSION APS 100 PREMIUM H65	65 mm	6 Kg

NOTE 1: for every unit is included the key Id.n. 46162133 (APS chapter).

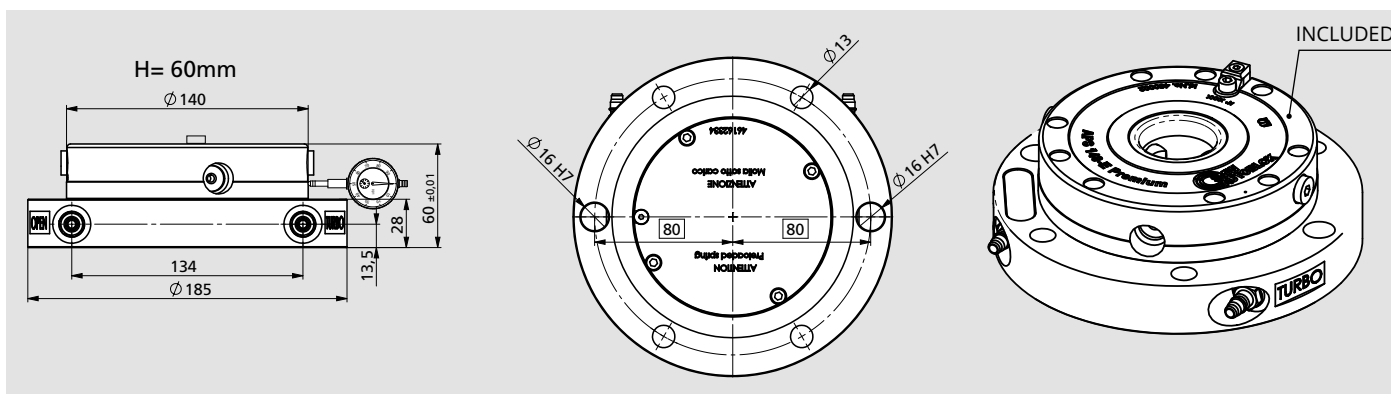
NOTE 2: OPTIONALS T-nuts set: - 46204100 with T-slot 12 / - 46204101 with T-slot 14 / - 46204102 with T-slot 18.

NOTE 3: the module height extension can also be mounted on APS 140 using the pin 46162355 (ONE APS PALLET chapter).

NOTE 4: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 5: the module extension is equipped with radial screws for the fine centering of the APS.

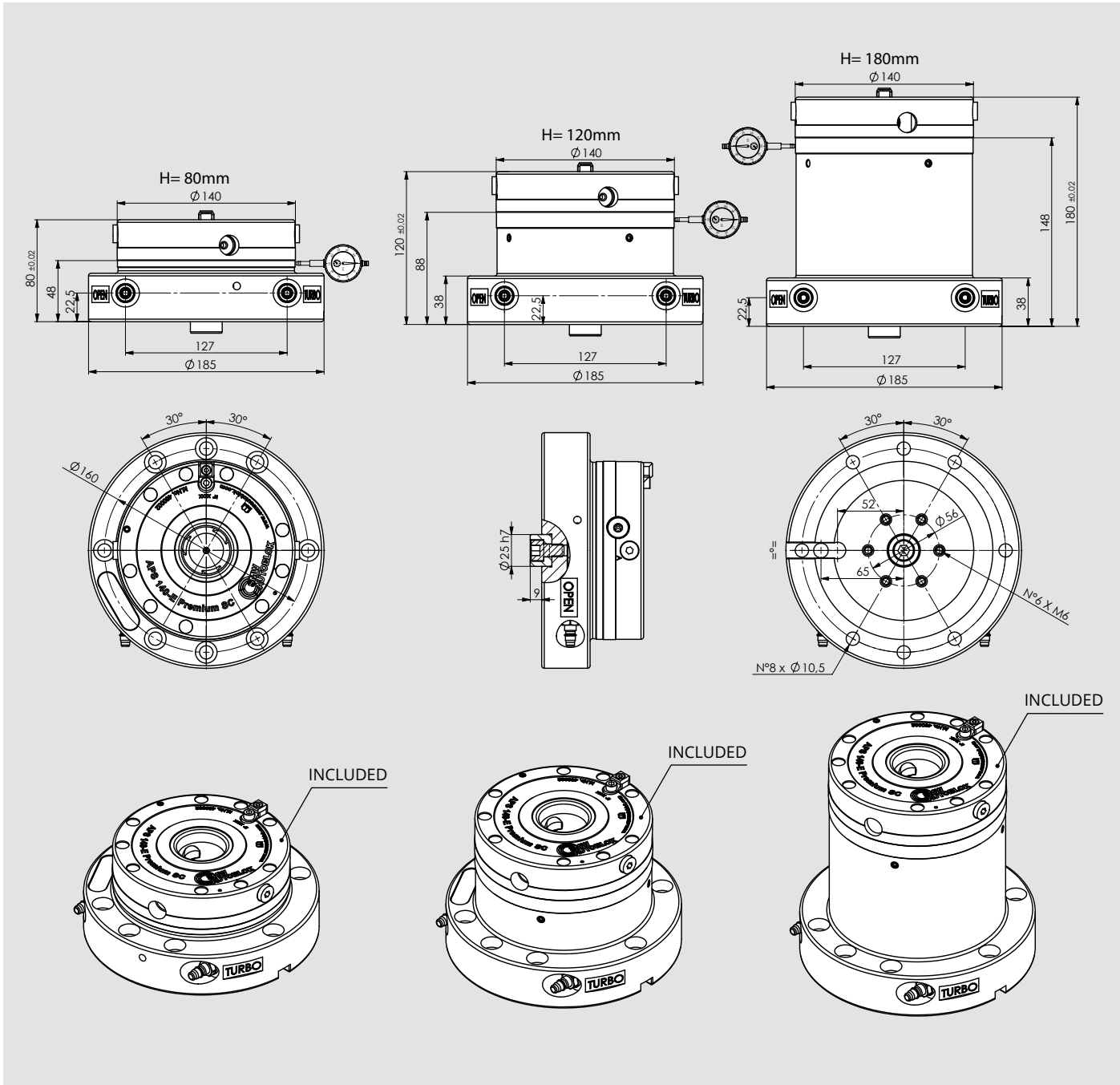
MODULE HEIGHT EXTENSION with one APS 140 E PREMIUM



ID.N. MODULE HEIGHT EXTENSION (APS INCLUDED)	HEIGHT	WEIGHT
460112 MODULE EXTENSION APS 140 PREMIUM H60	60 mm	8 Kg

NOTE 1: for every unit is included the key Id.n. 46162333 (APS chapter)

MODULE HEIGHT EXTENSION with APS 140 E PREMIUM



ID.N. MODULE HEIGHT EXTENSION (APS INCLUDED)	HEIGHT	WEIGHT
460113 MODULE EXTENSION APS 140 PREMIUM H80	80 mm	11 Kg
460114 MODULE EXTENSION APS 140 PREMIUM H120	120 mm	14 Kg
460115 MODULE EXTENSION APS 140 PREMIUM H180	180 mm	18 Kg

NOTE 1: for every unit is included the key Id.n. 46162333 (APS chapter).

NOTE 2: OPTIONALS T-nuts set: - 46204100 with T-slot 12 / - 46204101 with T-slot 14 / - 46204102 with T-slot 18.

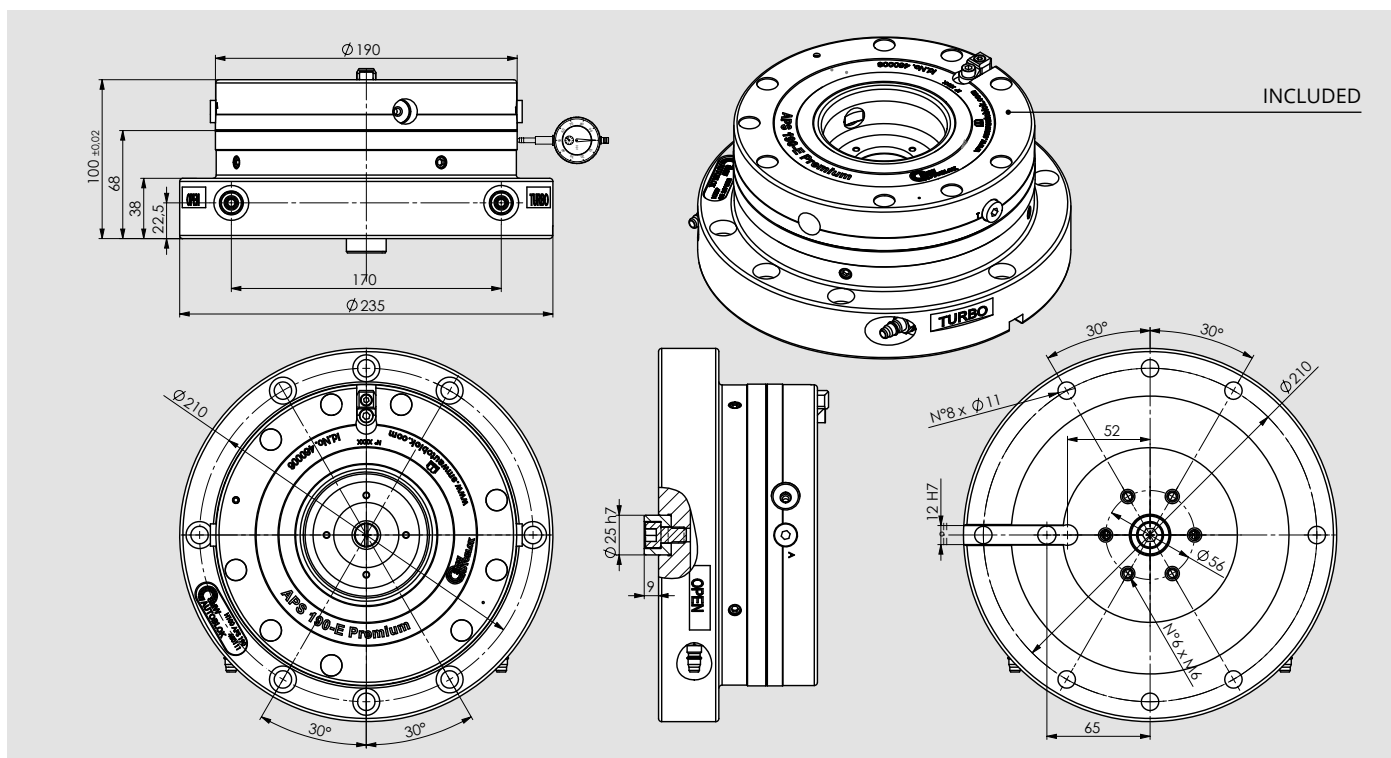
NOTE 3: the module height extension can also be mounted on APS 140 and APS 190 using respectively the pins 46162355 (APS 140) and 46162635 (APS 190) (ONE APS PALLET chapter).

NOTE 4: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 5: the module extension is equipped with radial screws for the fine centering of the APS.

MODULE HEIGHT EXTENSION with APS 190 E PREMIUM

2



ID.N. MODULE HEIGHT EXTENSION (APS INCLUDED)	HEIGHT	WEIGHT
460111 MODULE EXTENSION APS 190 PREMIUM H100	100 mm	20,5 Kg

NOTE 1: for every unit is included the key Id.n. 46162333 (APS chapter).

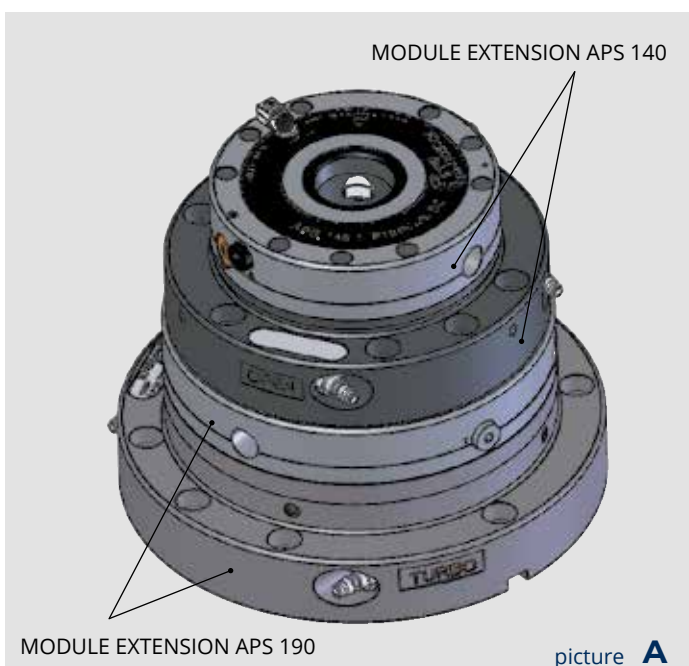
NOTE 2: OPTIONALS T-nuts set: - 46204100 with T-slot 12 / - 46204101 with T-slot 14 / - 46204102 with T-slot 18.

NOTE 3: the module height extension can also be mounted on APS 140 and APS 190 using respectively the pins 46162355 (APS 140) and 46162635 (APS 190) (ONE APS PALLET chapter)

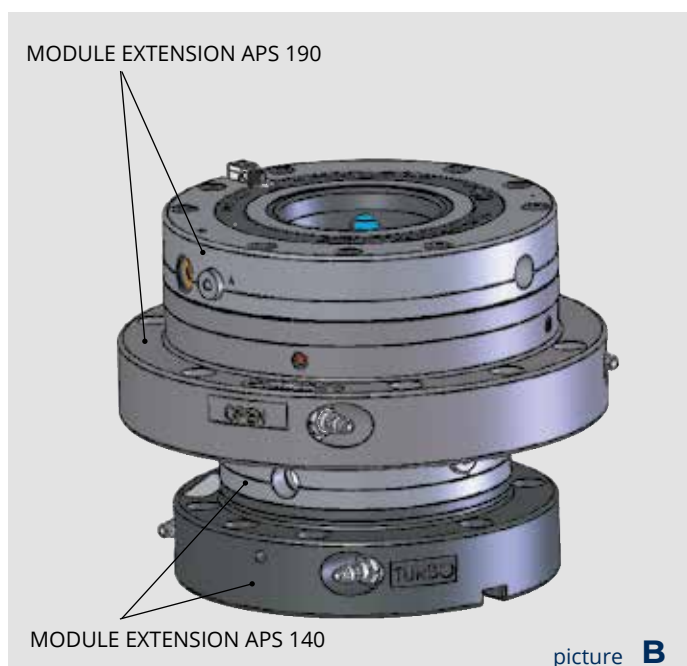
NOTE 4: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 5: the module extension is equipped with radial screws for the fine centering of the APS.

MOUNTING EXAMPLES

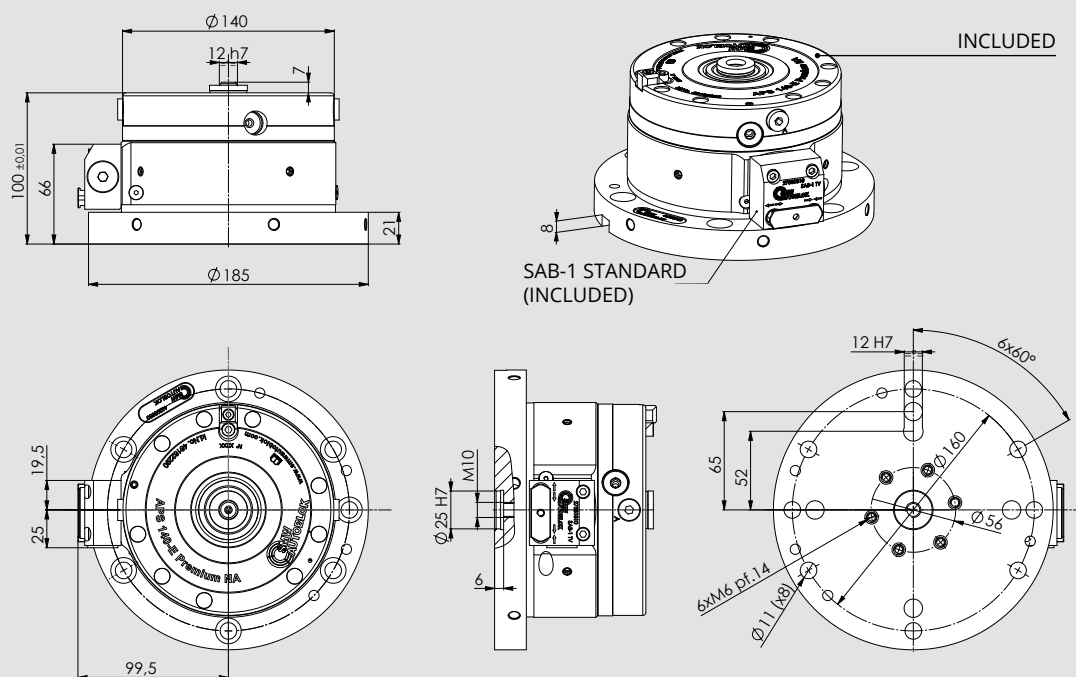


Application example with module extension **APS140 460113**
mounted on the module extension **APS190 460111**



Application example with module extension **APS190 460111**
mounted on the module extension **APS140 460113**

ONE APS WITH SAB-1 VALVE MODULE HEIGHT EXTENSION with APS 140



ID.N. MODULE HEIGHT EXTENSION (APS AND SAB-1 STANDARD INCLUDED)

46203030 MODULE HEIGHT EXTENSION APS 140 E PREMIUM H100 + SAB-1

HEIGHT

100 mm

WEIGHT

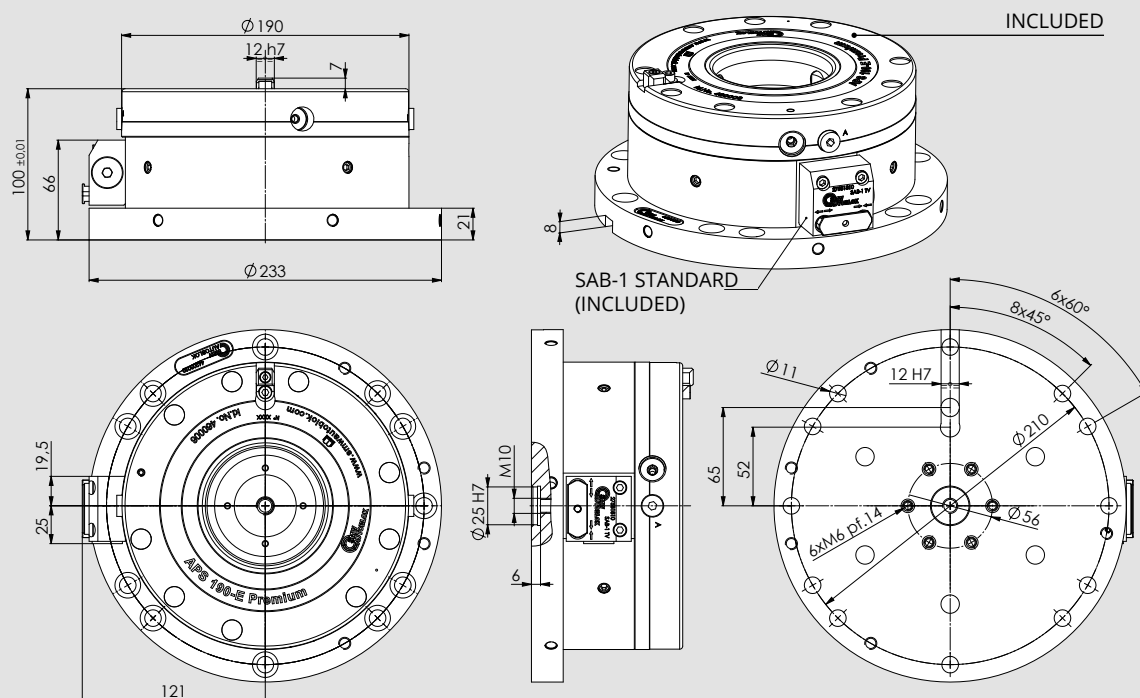
12 Kg

NOTE 1: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 2: the module extension is equipped with radial screws for the fine centering of the APS.

NOTE 3: the module height extension can also be mounted on APS 140 and APS 190 using respectively the pins 46162355 (APS 140) and 46162635 (APS 190) (ONE APS PALLET chapter).

ONE APS WITH SAB-1 VALVE MODULE HEIGHT EXTENSION with APS 190



ID.N. MODULE HEIGHT EXTENSION (APS AND SAB-1 STANDARD INCLUDED)

46203020 MODULE HEIGHT EXTENSION APS 190 E PREMIUM H100 + SAB-1

HEIGHT

100 mm

WEIGHT

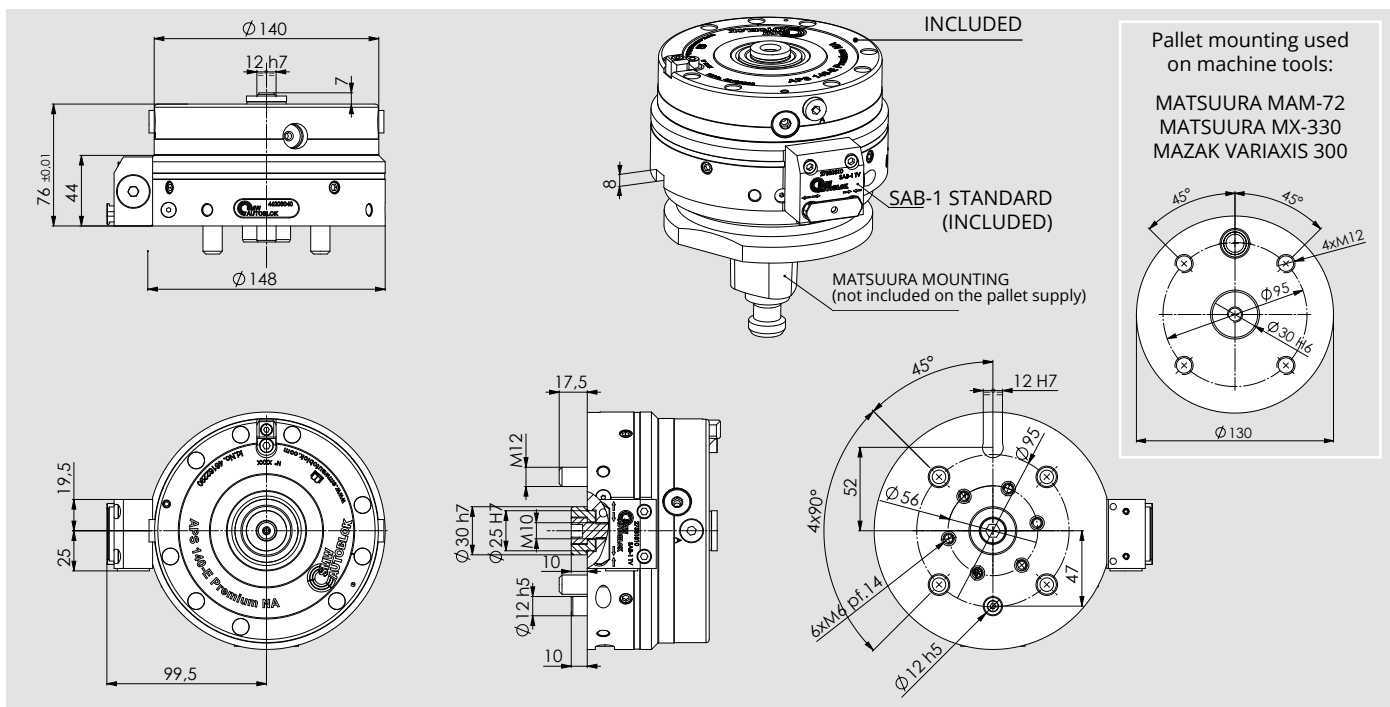
18 Kg

NOTE 1: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 2: the module extension is equipped with radial screws for the fine centering of the APS.

NOTE 3: the module height extension can also be mounted on APS 140 and APS 190 using respectively the pins 46162355 (APS 140) and 46162635 (APS 190) (ONE APS PALLET chapter).

ONE APS WITH SAB-1 VALVE D130 MODULE HEIGHT EXTENSION with APS 140



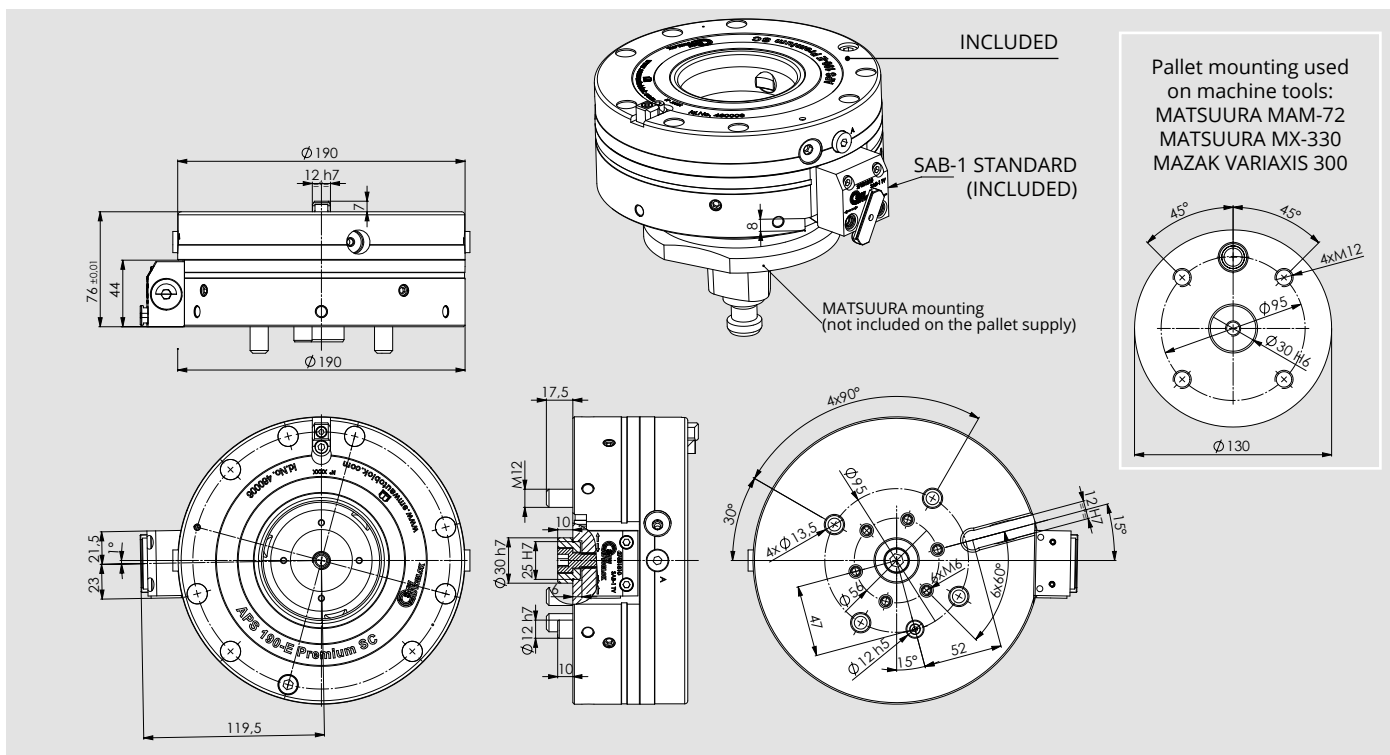
ID.N. MODULE HEIGHT EXTENSION (APS AND SAB-1 STANDARD INCLUDED)	HEIGHT	WEIGHT
46203040 MODULE HEIGHT EXTENSION ONE APS 140 E PREMIUM H76 + SAB-1	76 mm	8,3 Kg

NOTE 1: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 2: the module extension is equipped with radial screws for the fine centering of the APS.

NOTE 3: the module height extension can also be mounted on APS 140 using the pin 46162355 (ONE APS PALLET chapter).

ONE APS WITH SAB-1 VALVE D130 MODULE HEIGHT EXTENSION with APS 190



ID.N. MODULE HEIGHT EXTENSION (APS AND SAB-1 STANDARD INCLUDED)	HEIGHT	WEIGHT
41702150 MODULE HEIGHT EXTENSION ONE APS 190 E PREMIUM H76 + SAB-1	76 mm	14,5 Kg

NOTE 1: when use the module in rotation (rpm 200-1000) request balancing (listed separately).

NOTE 2: the module extension is equipped with radial screws for the fine centering of the APS.

NOTE 3: the module height extension can also be mounted on APS 140 and APS 190 using respectively the pins 46162355 (APS 140) and 46162635 (APS 190) (ONE APS PALLET chapter).