

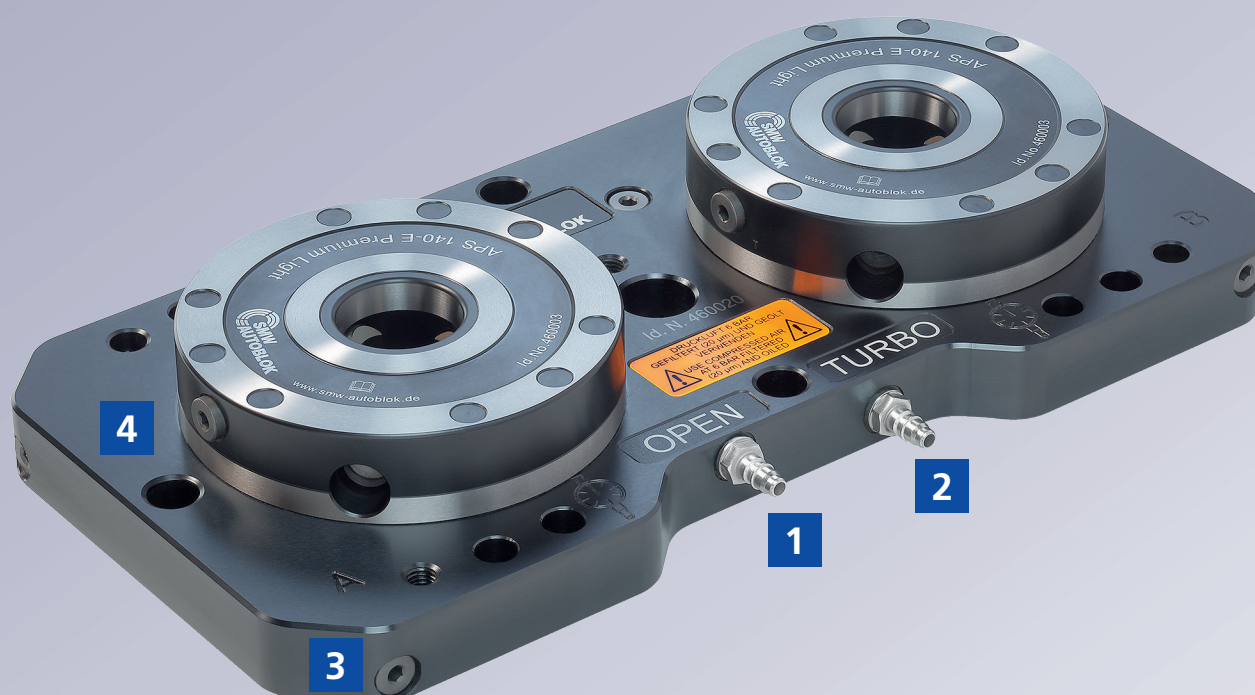
APS

Clamping unit fully assembled

Ready for use



Industry 4.0
Product



1 Functional overview of the APS clamping units

- ▶ Quick pneumatic connections 1
- ▶ Turbo function for highest pull-in forces 2
- ▶ Solid base plate (height 28 mm) for maximum stiffness at a total height of only 60 mm 3
- ▶ Easy mounting on the machine table due to positioning holes 4



Application/customer benefits

- Pre-assembled clamping unit with 2 pieces APS 140 Premium Light or Basic
- Universal applicable
- Fast and easy set-up

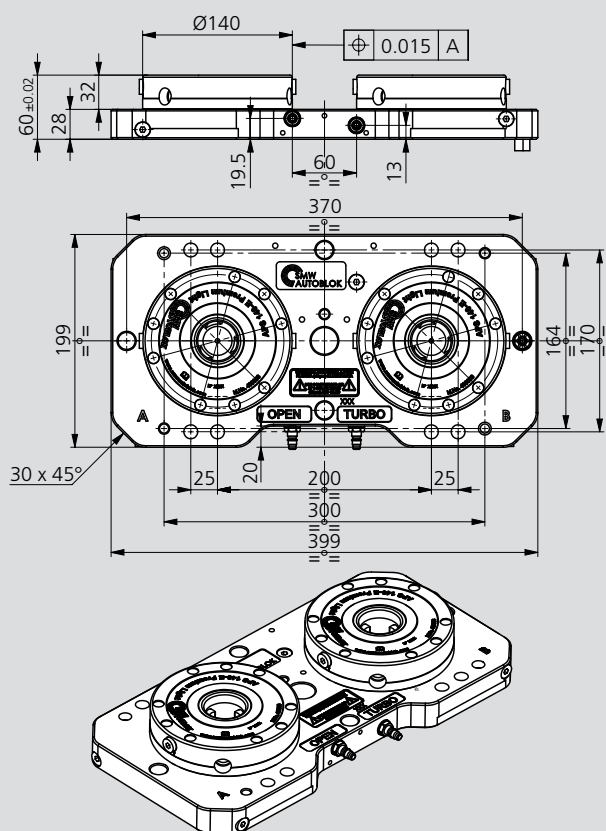
Technical features

- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Turbo function for increasing the pull-in forces (pull-in force without Turbo 7.5 kN)
- Air cleaning (only Premium Light)
- Grid dimension 200 mm

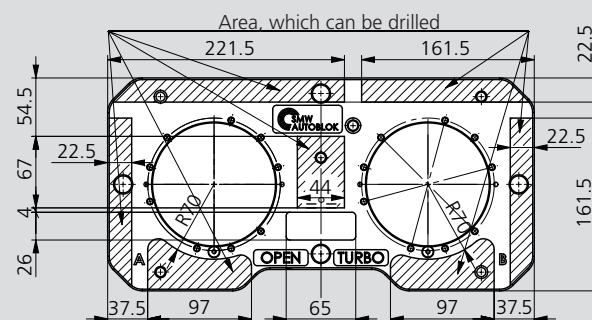
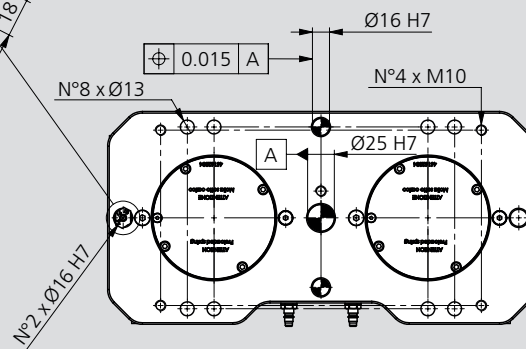
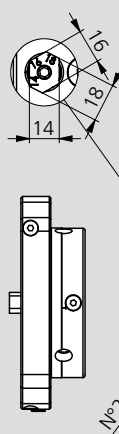
Standard equipment

Clamping unit with 2 pieces APS 140 Premium Light or Basic
Quick pneumatic connections

For clamping pallets please see page 56



Optional: Positioning key Multislot (Id. No.71290182)

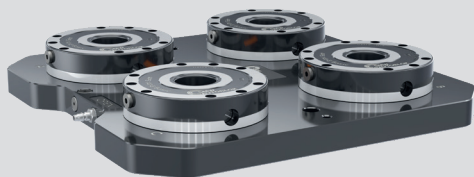


Subject to technical changes.

Order numbers

Type	Id. No.	Pull-in force with Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 2 APS 140-E Premium Light	460020	26*	< 0.005	21
Clamping unit with 2 APS 140-E Basic	460021	26*	< 0.005	21

* For each module.



Application/customer benefits

- Pre-assembled clamping unit with 4 pieces APS 140 Premium Light or Basic
- Universal applicable
- Fast and easy set-up

Technical features

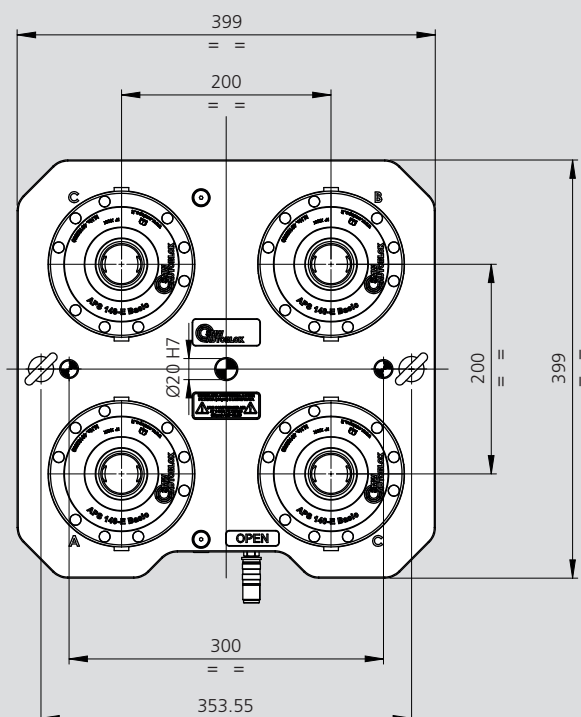
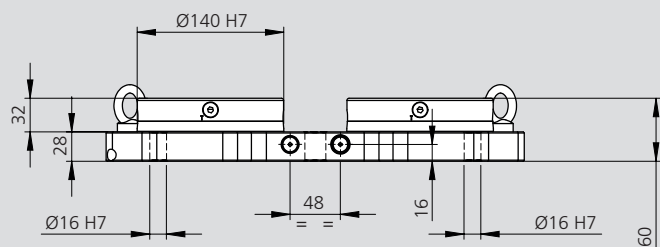
- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Pull-in force without Turbo 7.5 kN
- Air cleaning (only Premium Light)
- Grid dimension 200 mm

Standard equipment

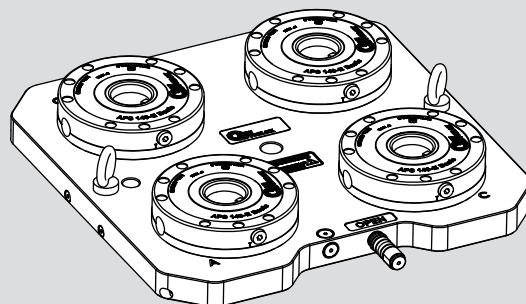
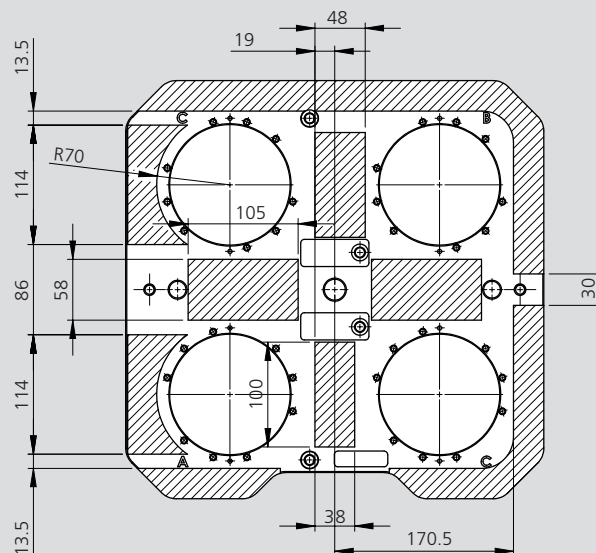
Clamping unit with 4 pieces APS 140

Quick pneumatic connections

For clamping pallets please see page 56



Optional: Positioning key Multislot (Id. No. 71290182)

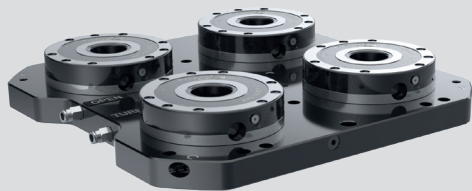


Subject to technical changes.

Order numbers

Type	Id. No.	Pull-in force without Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 4 APS 140-E Basic	46168215	7.5*	< 0.005	41

* For each module.



Application/customer benefits

- Pre-assembled clamping unit with 4 pieces APS 140 Premium Light or Basic
- Universal applicable
- Fast and easy set-up
- Suitable for vertical machines

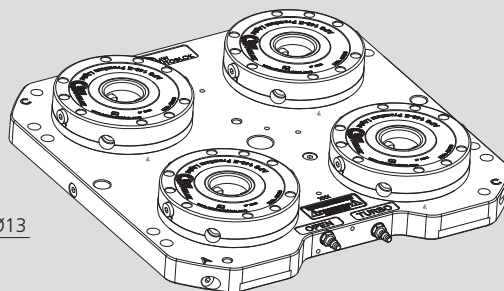
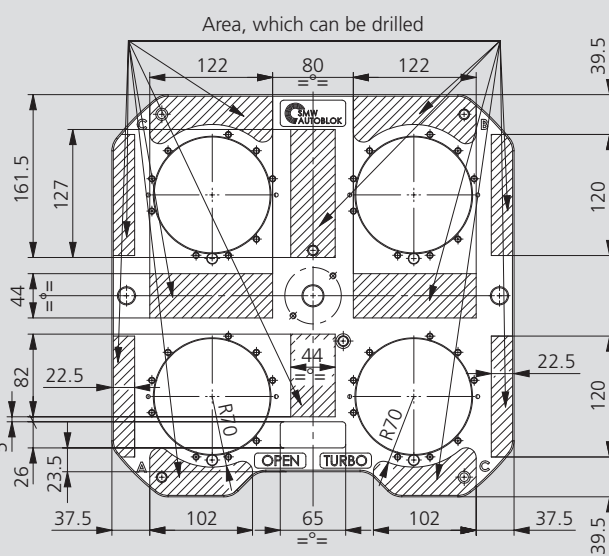
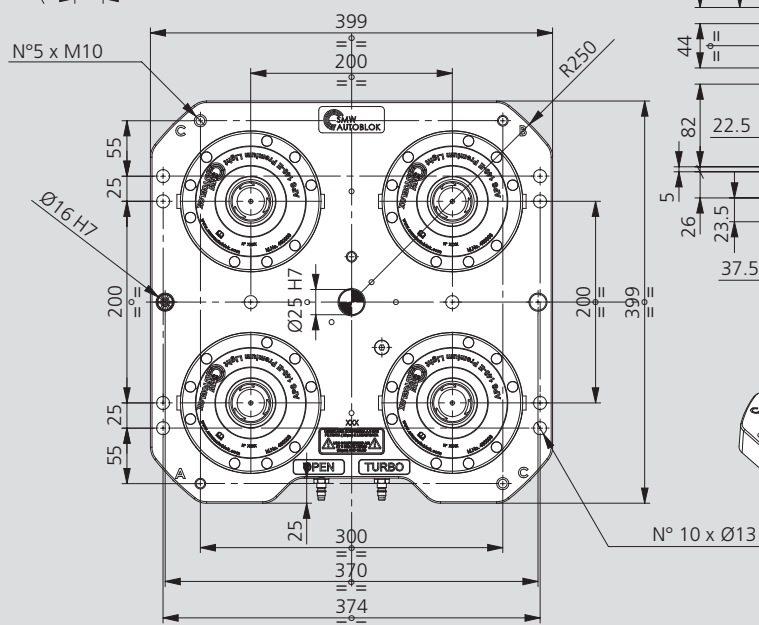
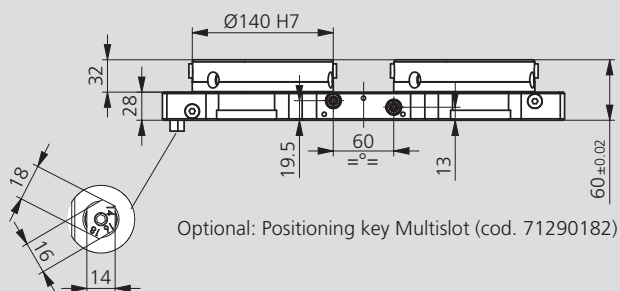
Technical features

- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Turbo function for increasing the pull-in forces (pull-in force without Turbo 7.5 kN)
- Air cleaning (only Premium Light)
- Grid dimension 200 mm

Standard equipment

Clamping unit with 4 pieces APS 140 Premium Light or Basic
Quick pneumatic connections

For clamping pallets please see page 56



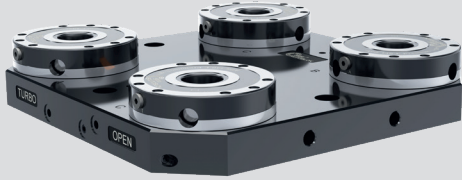
Subject to technical changes.

Order numbers

Type	Id. No.	Pull-in force with Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 4 APS 140-E Premium Light	460022	26 *	< 0.005	41
Clamping unit with 4 APS 140-E Basic	460023	26 *	< 0.005	41

* For each module.

■ Preferably for horizontal machining center



Application/customer benefits

- Pre-assembled clamping unit with 4 pieces APS 140 Premium Light or Basic
- Suitable for standard machine pallets type JIS 6337-1980
- Universal applicable
- Fast and easy set-up

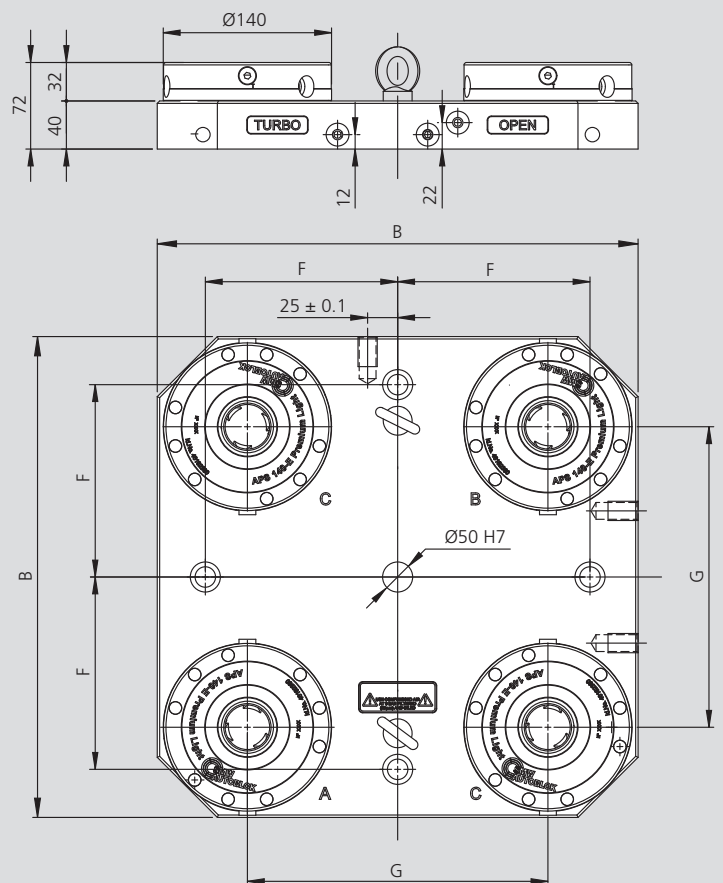
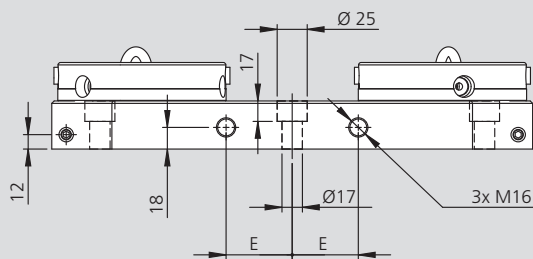
Technical features

- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Turbo function for increasing the pull-in forces (pull-in force without Turbo 7.5 kN)
- Air cleaning (only Premium Light)

Standard equipment

Clamping unit with 4 pieces APS 140 Premium Light or Basic
Quick pneumatic connections

For clamping pallets please see page 56



Subject to technical changes.

Order numbers

Type	Id. No.	B [mm]	E [mm]	F [mm]	G [mm]	Pull-in force with Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 4 APS 140 Premium Light	46167040	400	55	160	250	26*	< 0.005	57
Clamping unit with 4 APS 140 Basic	46167045	400	55	160	250	26*	< 0.005	57
Clamping unit with 4 APS 140 Premium Light	46167050	500	75	200	300	26*	< 0.005	85
Clamping unit with 4 APS 140 Basic	46167055	500	75	200	300	26*	< 0.005	85
Clamping unit with 4 APS 140 Premium Light	46167060	630	100	250	420	26*	< 0.005	130
Clamping unit with 4 APS 140 Basic	46167065	630	100	250	420	26*	< 0.005	130

* For each module.

■ For 5-axis machining center



Application/customer benefits

- Pre-assembled clamping unit with 4 pieces APS 140 Premium Light or Basic
- For 5-axis machining center
- Universal applicable
- Fast and easy set-up

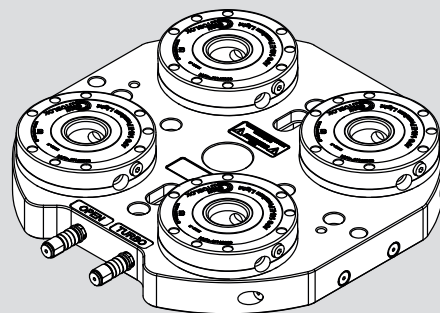
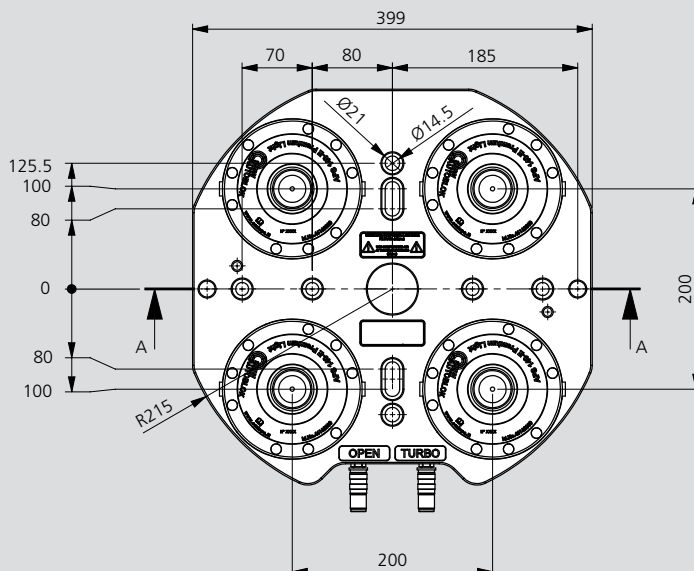
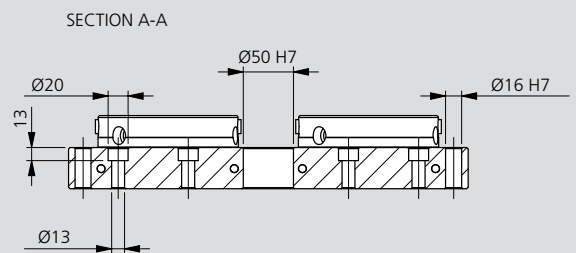
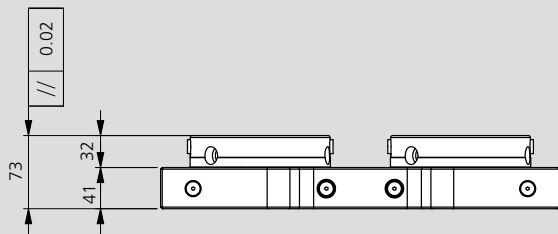
Technical features

- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Turbo function to increase the pull-in forces (pull-in force without Turbo 7.5 kN)
- Air cleaning (only Premium Light)

Standard equipment

Clamping unit with 4 pieces APS 140 Premium Light or Basic
Quick pneumatic connections

For clamping pallets please see page 56



Subject to technical changes.

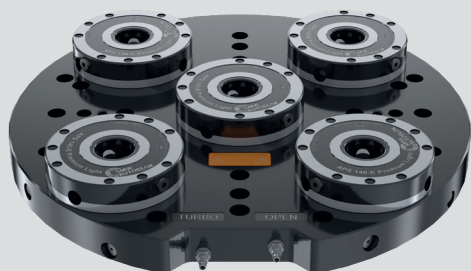
Special clamping units on request.

Order numbers

Type	Id. No.	Pull-in force with Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 4 APS 140 Premium Light	46168020	26*	< 0.005	45
Clamping unit with 4 APS 140 Basic	46168025	26*	< 0.005	45

* For each module.

■ For 5-axis machining center

**Application/customer benefits**

- Pre-assembled clamping unit with 5 pieces APS 140 Premium Light or Basic
- For 5-axis machining center
- Universal applicable
- Fast and easy set-up

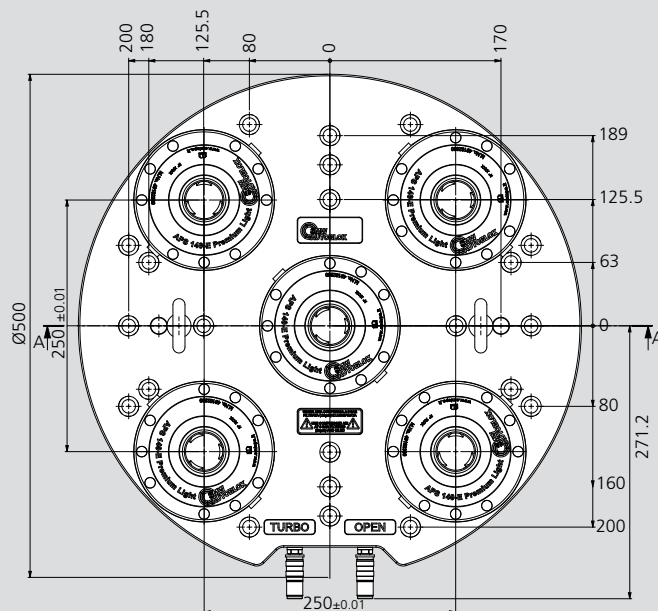
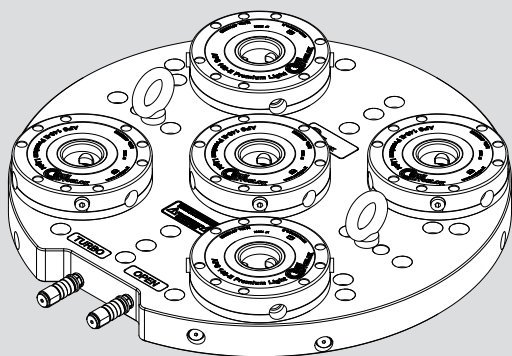
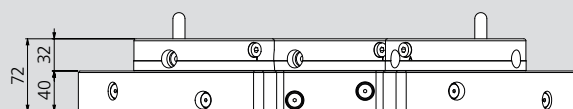
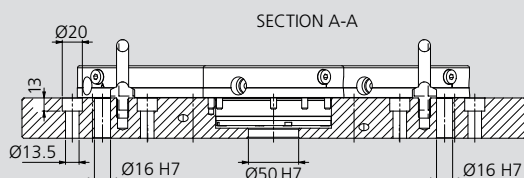
Technical features

- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Turbo function to increase the pull-in forces (pull-in force without Turbo 7.5 kN)
- Air cleaning (only Premium Light)
- Grid dimension 250 mm

Standard equipment

Clamping unit with 5 pieces APS 140 Premium Light or Basic
Quick pneumatic connections

For clamping pallets please see page 56



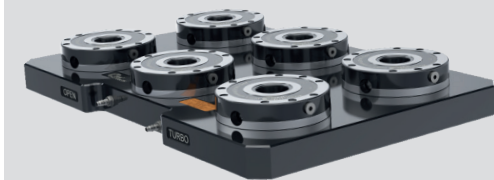
Subject to technical changes.

Special clamping units on request.

Order numbers

Type	Id. No.	Pull-in force with Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 5 APS 140 Premium Light	46168030	26*	< 0.005	68
Clamping unit with 5 APS 140 Basic	46168035	26*	< 0.005	67

* For each module.



Application/customer benefits

- Pre-assembled clamping unit with 6 pieces APS 140 Premium Light or Basic
- Universal applicable
- Fast and easy set-up

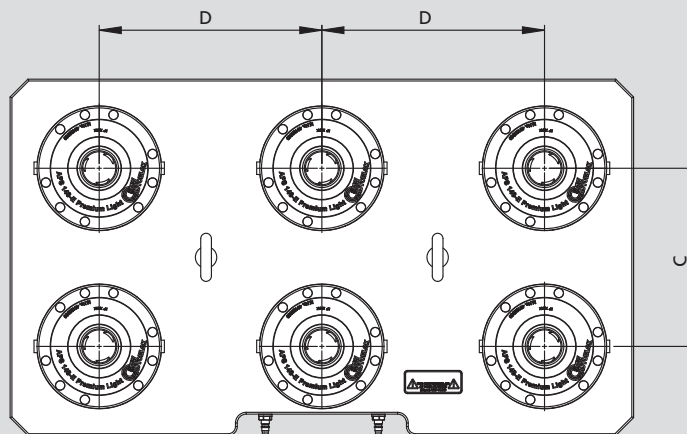
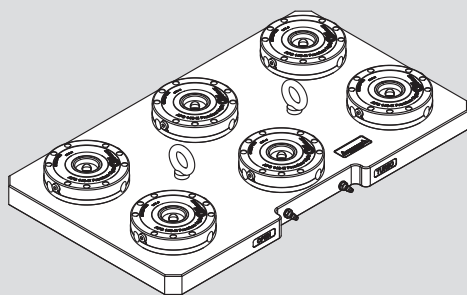
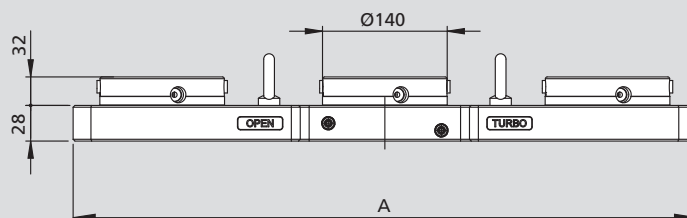
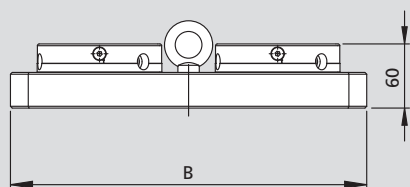
Technical features

- 3 clamping slides (Basic: 2 clamping slides)
- Repeatability < 0.005 mm
- Turbo function for increasing the pull-in forces (pull-in force without Turbo 7.5 kN)
- Air cleaning (only Premium Light)
- Grid dimension 200 mm

Standard equipment

Clamping unit with 6 pieces APS 140 Premium Light or Basic
Quick pneumatic connections

For clamping pallets please see page 56



Subject to technical changes.

Special clamping units on request.

Order numbers

Type	Id. No.	A [mm]	B [mm]	C [mm]	D [mm]	Pull-in force with Turbo [kN]	Repeatability [mm]	Weight [kg]
Clamping unit with 6 APS 140 Premium Light	46168110	600	400	200	200	26*	< 0.005	83
Clamping unit with 6 APS 140 Basic	46168115	600	400	200	200	26*	< 0.005	84

* For each module.

Media feed 3-axis zero feedings

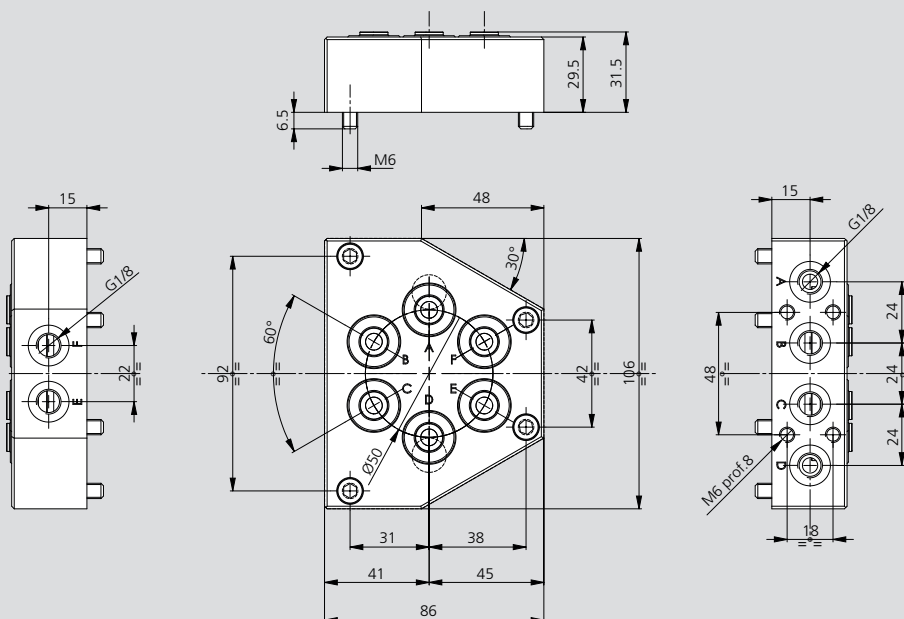
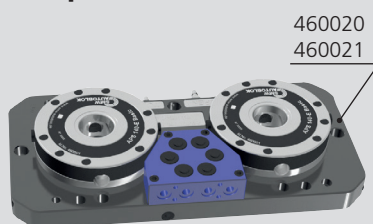
■ For plate with 2 APS 140 E

APS 140-E

0



Example



Subject to technical changes.

Media feed for plate with 2 APS 140

Id. No.

Possible feedings

Weight [kg]

Kit SUPP-2 INN PASCAL WVP-2FPL on plate with 2 APS 140 3-axis

46202040

A-D

1.6

Kit SUPP-4 INN PASCAL WVP-2FPL on plate with 2 APS 140 3-axis

46202032

A-B-C-D

1.6

Kit SUPP-6 INN PASCAL WVP-2FPL on plate with 2 APS 140 3-axis

46202033

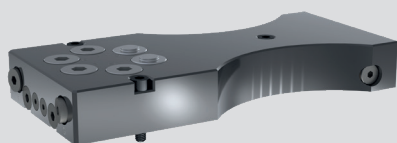
A-B-C-D-E-F

1.6

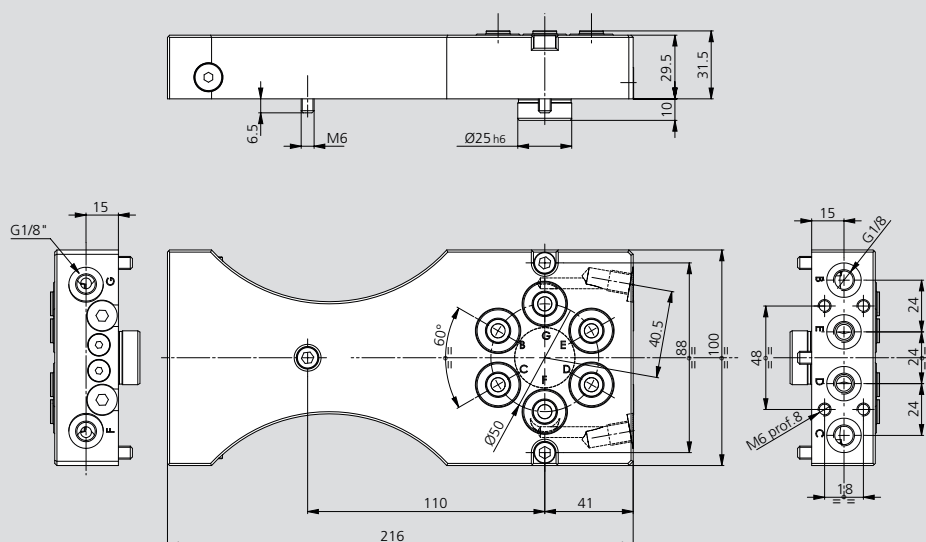
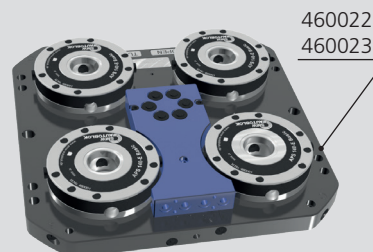
Media feed 3-axis zero feedings

■ For plate with 4 APS 140E

APS 140-E



Example



Subject to technical changes.

Media feed for plate with 4 APS 140

Id. No.

Possible feedings

Weight [kg]

Kit SUPP-2 INN PASCAL WVP-2FPL on plate with 4 APS 140 3-axis

46202039

B-C

3.8

Kit SUPP-4 INN PASCAL WVP-2FPL on plate with 4 APS 140 3-axis

46202028

B-C-D-E

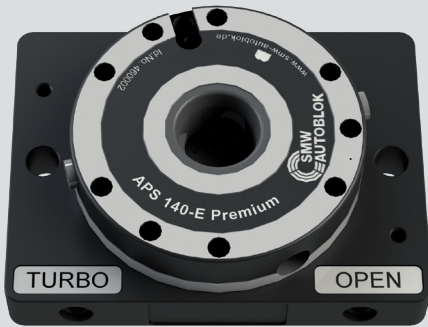
3.8

Kit SUPP-6 INN PASCAL WVP-2FPL on plate with 4 APS 140 3-axis

46202029

B-C-D-E-F-G

3.8



Application/customer benefits

- Pre-assembled clamping unit with 1 piece APS 140 Premium
- Universal applicable
- Fast and easy set-up

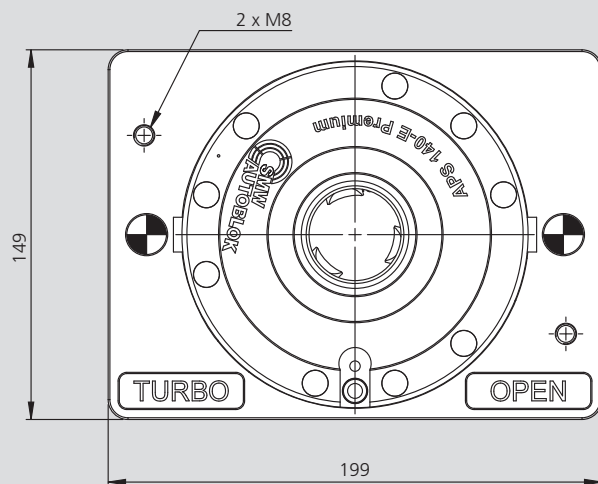
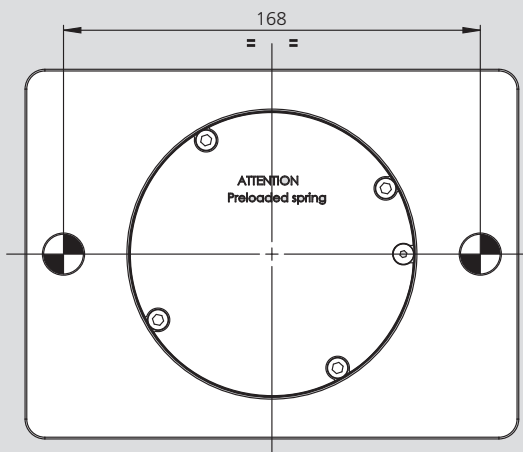
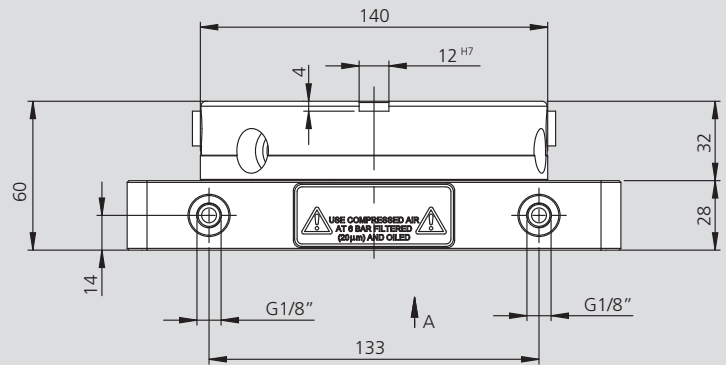
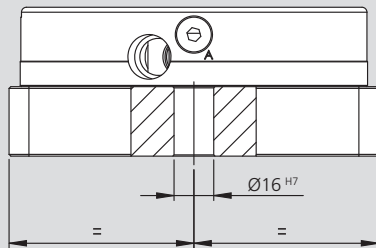
Technical features

- 3 clamping slides
- Repeatability < 0.005 mm
- Turbo function to increase the pull-in forces (pull-in force without Turbo 7.5 kN)
- Anti rotating protection
- Air cleaning

Standard equipment

Clamping unit with 1 piece APS 140 Premium
Quick pneumatic connections

For clamping pallets please see page 56



Subject to technical changes.

Order numbers

Module height extensions (APS included)	Id. No.	Height [mm]	Weight [kg]
Module extension with 1 APS 140 Premium	46168260	60	11