

WPS modules



WPS-PPD 12



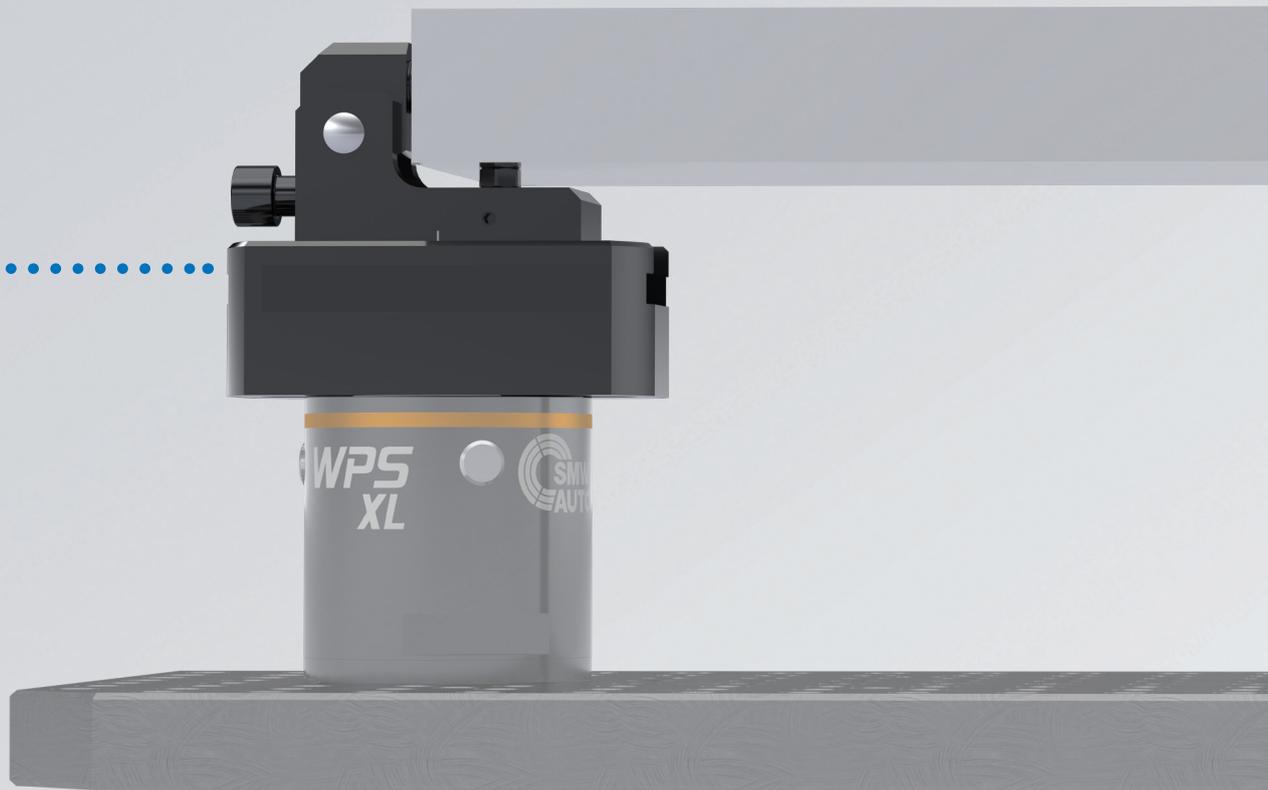
WPS-PPD 12 F



WPS-PPD 16 P



WPS-PPD 24



WPS-PPD 24

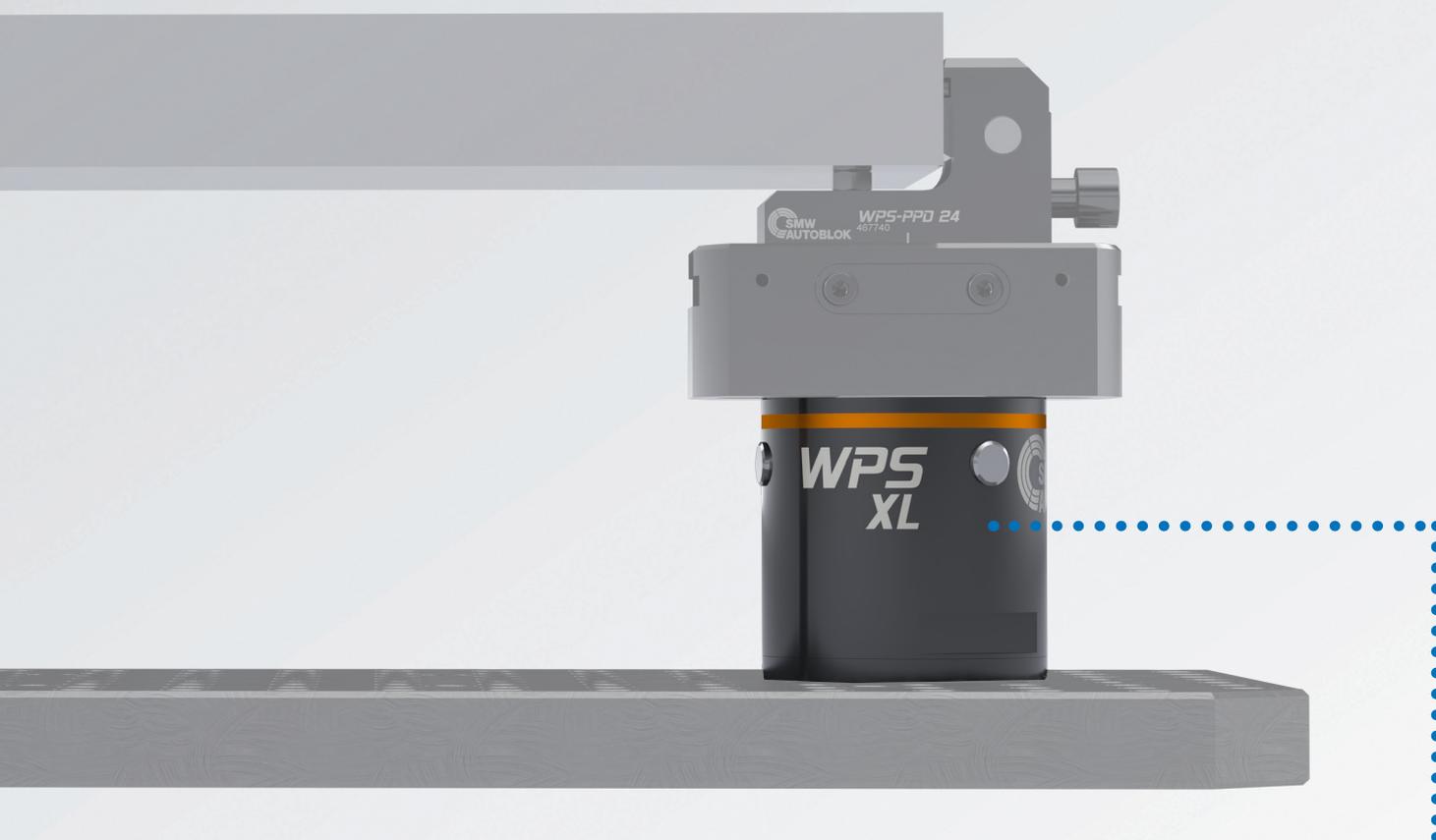


For heavy machining
For more information, see next page

WPS XL

**For heavy machining
Holding force 100 KN**

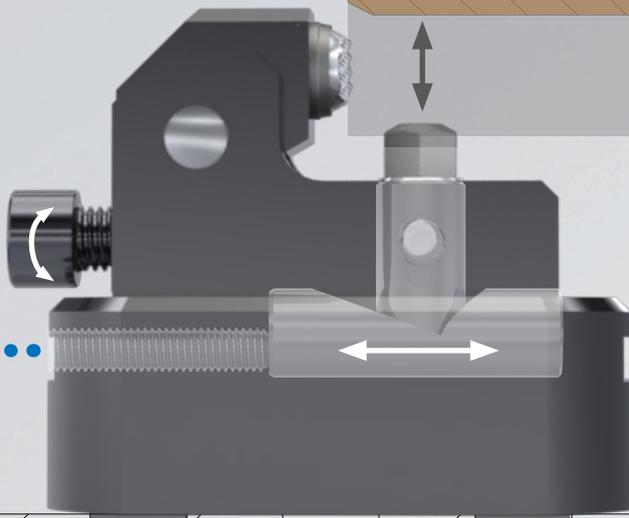
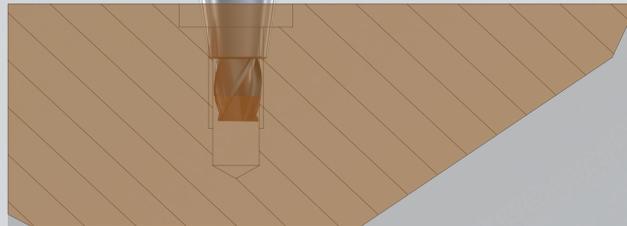
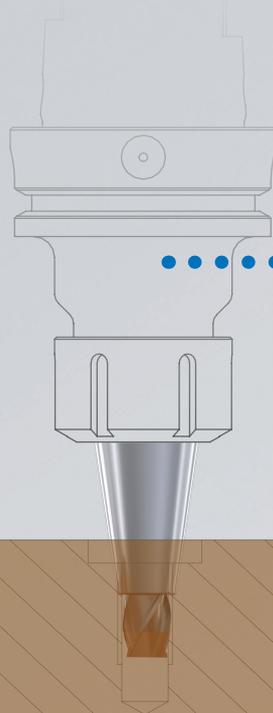
For more information see page 114

**WPS Mini, Max / -Index and XL**

WPS-PPD

Workpiece preparation device

Clamping



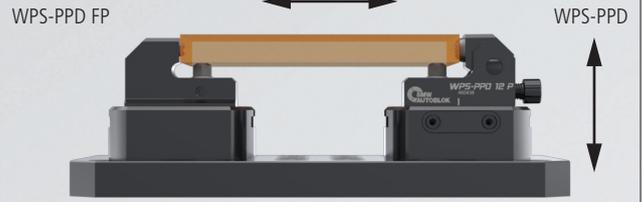
Horizontal
Fine adjustment

Fine adjustment
of the clamping height

Modularity



**Clamping with / without pendulum
Clamping with / without fixed stop**

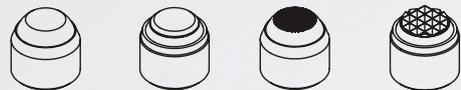


Horizontal fine adjustment / fine adjustment - clamping height

Pendulum feature WPS-PPD P and FP



- Due to the integrated pendulum mechanism, the clamping position adjusts itself to the workpiece geometry automatically.
- Therefore, also not angular workpiece areas can be clamped fast and safe.



- Thanks to 4 different pendulum inserts, the clamping devices are very flexible in use.

Pre-machining

for clamping pins for workpiece direct clamping with WPS



Installation

on grid plate

Workholding glossary

Modularity

Modular system with a wide range of accessories. Compatible with WPS through direct attachment of clamping pins.



Flexible in application

- Option 1: Clamping centrally
- Option 2: Clamping centrally with pendulum
- Option 3: Clamping against fixed stop
- Option 4: Clamping against fixed stop with pendulum



Increase in efficiency

Enormous reduction of setup costs by preparing for direct clamping with WPS clamping modules.



- Ideal for OP 10: preparation of the workpiece for WPS
- Flexible system



Application/customer benefits

- Ideal for OP 10: preparation of the workpiece for WPS
- Very strong and compact design for best accessibility
- Clamping height of the workpiece adjustable
- Easy and flexible mounting
- Direct interface for grid dimension 40 / 50 / 80 mm and interface for zero point system APS / WPS / ZeroAct as a standard

Technical features

- Manual actuation
- Horizontal position adjustable
- Position lockable clamping
- Pull-down effect
- Different heights for the workpiece support by means of different stop pins
- Fine adjustment of the clamping height

Standard equipment

WPS-PPD with UGE grip insert - carbide without stop pin
 WPS-PPD P without pendulum insert and stop pin

WPS-PPD

- Fixed stop without pendulum
- Size 12 / 16 and 24
- Horizontal adjustment



WPS-PPD P

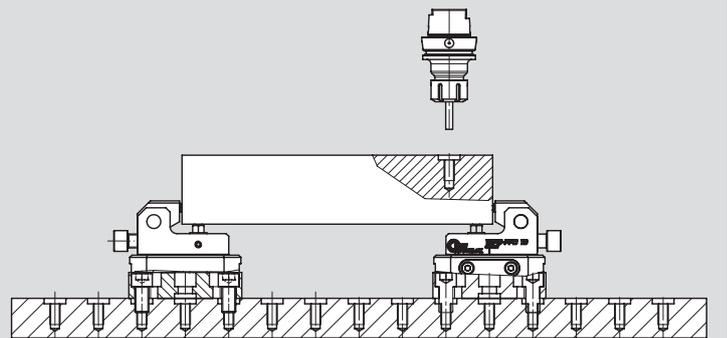
- P = Pendulum insert
- Size 12 / 16 and 24
- Horizontal adjustment



Application example

Clamping with 2 WPS-PPD with fixed grip insert

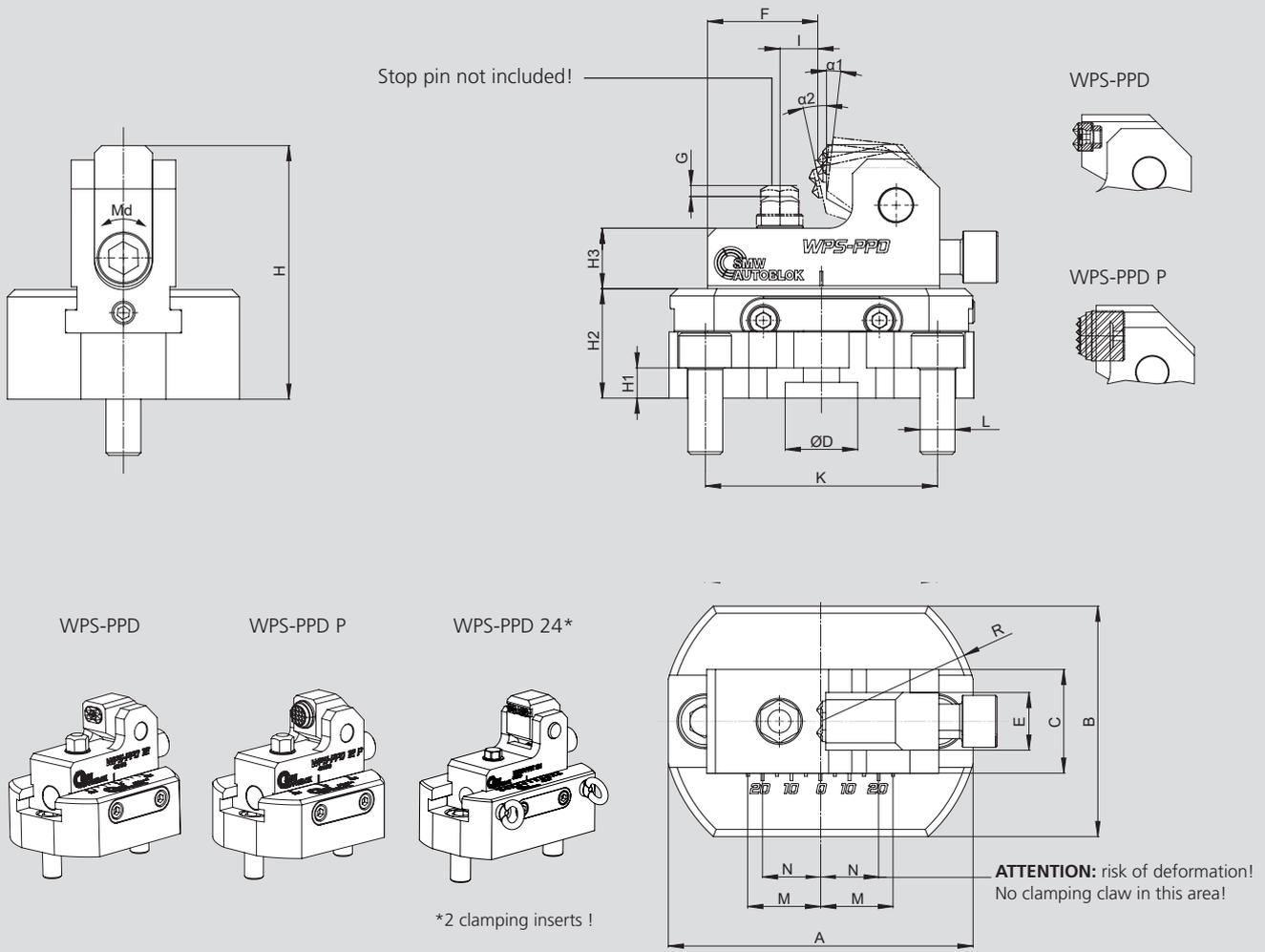
Required workpiece preparation device:
 2x WPS-PPD 12



Order review

Type	Id. No.
WPS-PPD 12 workpiece preparation device	460346
WPS-PPD 12 P workpiece preparation device	460430
Stop Pin ALB / X=5 mm (2x)	017603
Pendulum insert gripper	208939

Dimensions and technical data



SMW-AUTOBLOK Type WPS-PPD		WPS-PPD 12	WPS-PPD 12 P*	WPS-PPD 16	WPS-PPD 16 P*	WPS-PPD 24	WPS-PPD 24 P*
Id. No.		460346	460430	460400	460431	467735	467736
	A	105	105	130	130	210	210
	B	80	80	100	100	120	120
Width base body	C	36	36	45	45	64	64
Fit	D H7	25	25	25	25	40	40
	E	20	20	25	25	38	38
Stroke stop pin	F	38	38	53.75	53.75	85.25	78.25
Height	G	5	5	7	7	9.5	9.5
	H	88	88	116	116	168.5	168.5
	H1	10.5	10.5	13.5	13.5	12	12
	H2	38	38	50	50	75	75
	H3	21	21	25	25	47	47
	I	13	13	18.75	18.75	40.25	33.25
Distance min. / max.	K	50 - 80	50 - 80	80 - 100	80 - 100	100 - 160	100 - 160
ISO4762-12.9	L	M12	M12	M16	M16	M24	M24
Stroke horizontal adjustment	M	± 25	± 25	± 33	± 33	± 53	± 53
	N	22.5	22.5	27.5	27.5	50	50
Swinging angle / stroke in mm	α1°	6.2	6.2	6.2	6.2	6.2	6.2
Swinging angle / stroke in mm	α2°	12	12	12	12	12	12
Angle pendulum	β°	-	± 9°	-	± 9°	-	± 9°
Max. total clamping force	kN	20	20	30	30	50	50
Max. actuating torque Md	Nm	40	40	65	65	90	90

*Pendulum inserts not included!

- Ideal for OP 10: preparation of the workpiece for WPS
- Flexible system



Application/customer benefits

- Ideal for OP 10: preparation of the workpiece for WPS
- Very strong and compact design for best accessibility
- Clamping height of the workpiece adjustable
- Easy and flexible mounting
- Direct interface for grid dimension 40 / 50 mm and interface for zero point system APS / WPS / ZeroAct as a standard

Technical features

- Manual actuation (SW 10)
- Horizontal position adjustable (0-50 mm)
- Position lockable clamping
- Pull-down effect
- Different heights for the workpiece support by means of different stop pins
- Fine adjustment of the clamping height

Standard equipment

- WPS-PPD with UGE grip insert - carbide without stop pin
- WPS-PPD without pendulum insert and stop pin

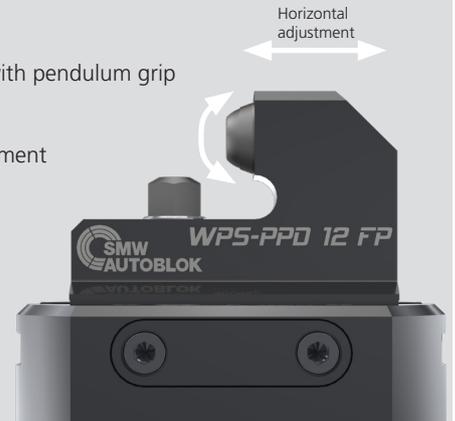
WPS-PPD F

- F = Fixed stop with UGE grip insert
- Size 12 and 16
- Horizontal adjustment



WPS-PPD FP

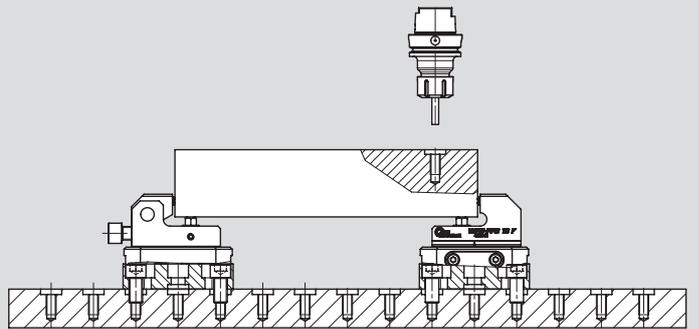
- FP = Fixed stop with pendulum grip insert
- Size 12 and 16
- Horizontal adjustment



Application example

Clamping with 1 WPS-PPD with fixed grip insert against fixed stop WPS-PPD 12 F

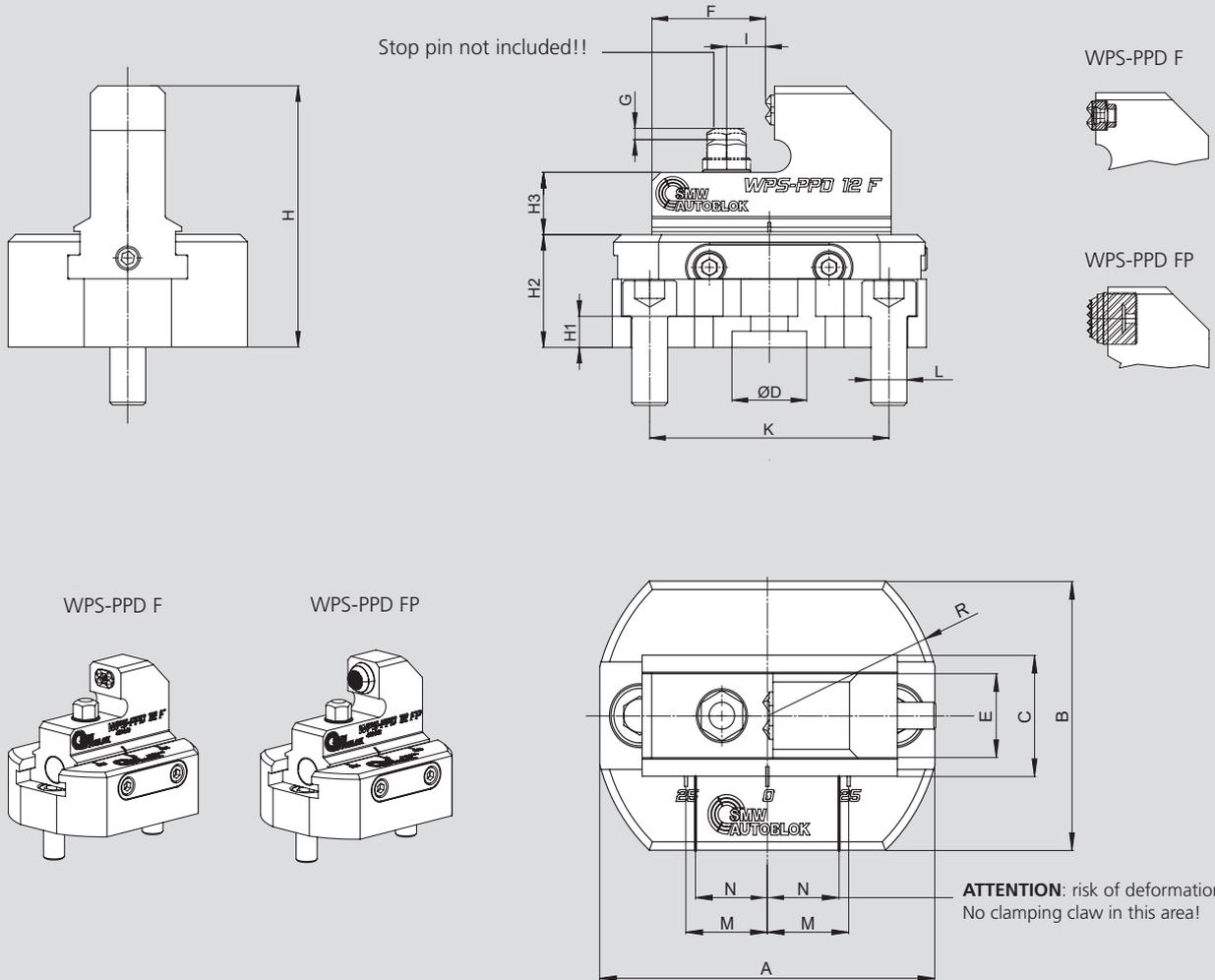
Required workpiece preparation device:
1x WPS-PPD 12 + 1x WPS-PPD 12 F



Order review

Type	Id.-No.
WPS-PPD 12 workpiece preparation device	460346
WPS-PPD 12 FP workpiece preparation device	460434
Stop pin ALB / X=5 mm (2x)	017603
Pendulum insert gripper	208939

Dimensions and technical data

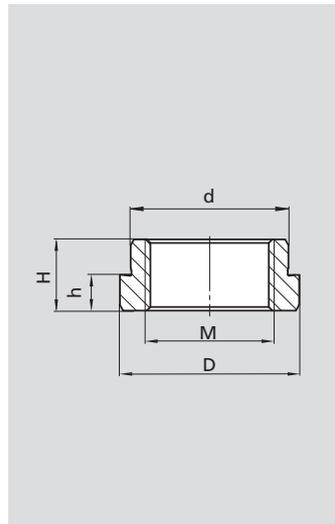


Subject to technical changes.

SMW-AUTOBLOK Type WPS-PPD		WPS-PPD 12 F	WPS-PPD 12 FP*	WPS-PPD 16 F	WPS-PPD 16 FP*
Id. No.		460432	460434	460433	460435
	A	105	105	130	130
	B	80	80	100	100
Width base body	C	36	36	45	45
Fit	D H7	25	25	25	25
	E	25	25	30	30
Stroke stop pin	F	38	38	53.75	53.75
Height	G	5	5	7	7
	H	88	88	116	116
	H1	10.5	10.5	13.5	13.5
	H2	38	38	50	50
	H3	21	21	25	25
	I	13	13	18.75	18.75
Distance min. / max.	K	50 - 80	50 - 80	80 - 100	80 - 100
Screw ISO4762-12.9	L	M12	M12	M16	M16
Stroke horizontal adjustment	M	± 25	± 25	± 33	± 33
	β°	-	± 9°	-	± 9°
Max. load force	kN	20	20	30	30

*Pendulum inserts not included!!

Adaption ring Ø 25(g6) for positioning WPS-PPD 12,16 and 24 on module grid plate - reduction to [Ø] fitting diameter



Adaption ring Ø		Dimensions			Id.No.
D (g6)	d (g6)	M	H	h	
Ø 25	Ø 16	M14x1,5	10	5	460177
Ø 25	Ø 18	M14x1,5	10	5	460135
Ø 25	Ø 20	M18x1,5	10	5	460136
Ø 25	Ø 22	M18x1,5	10	5	460137
Ø 25	Ø 24	M18x1,5	10	5	460138
Ø 25	Ø 25	M18x1,5	10 ⁰	0,8	460139
Ø 40	Ø 25	M18 x 1,5	12	6	467680
Ø 40	Ø 30	M24 x 1,5	12	6	467681
Ø 40	Ø 34	M28 x 1,5	12	6	467682
Ø 40	Ø 36	M28 x 1,5	12	6	467683
Ø 40	Ø 40	M28 x 1,5	12	0,8	467684

Stop pins, Pendulum insert and UGE-10 grip insert for WPS-PPD

Stop pin	Type for WPS-PPD 14 / 16	Id. No.
	Stop pin ALB / X=5 mm	017603
	Stop pin ALB / X=10 mm	016514
	Stop pin ALB / X=15 mm	016515
	Stop pin ALB / X=20 mm	016516
	Stop pin ALB / X=25 mm*	081191

Stop pin	Type for WPS-PPD 24	Id. No.
	Stop pin ALB / X=10 mm	210058
	Stop pin ALB / X=15 mm	210060
	Stop pin ALB / X=20 mm	210061
	Stop pin ALB / X=25 mm	210062
	Stop pin ALB / X=30 mm	210063

*only suitable for WPS-PPD 16P/16 FP!

Pendulum insert	Type for WPS-PPD 14 / 16	Id. No.
	Pendulum insert smooth	208937
	Pendulum insert Pom-Insert	208938
	Pendulum insert gripper	208939
	Pendulum insert HM-Gripper	208940

Pendulum insert	Type for WPS-PPD 24	Id. No.
	Pendulum insert smooth	212414
	Pendulum insert Pom-Insert	212421
	Pendulum insert gripper	211167
	Pendulum insert HM-Gripper	210731

UGE-10	Type for WPS-PPD F	Id. No.
	Fixed UGE-10 grip insert	081845F

*Pendulum insert not included

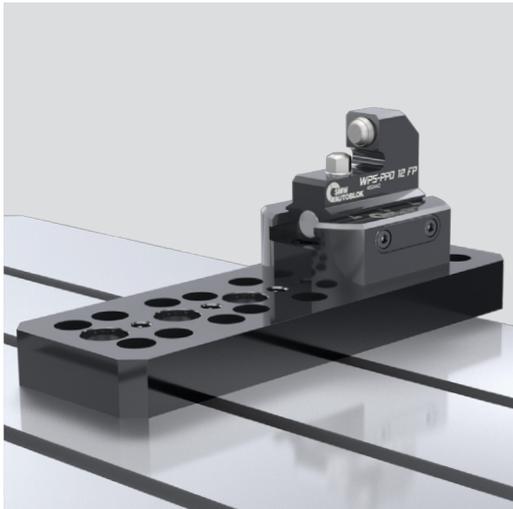
Clamping pin



Type	Thread	Type A Id. No.
Clamping pin WPS	M12	46162355
Clamping pin WPS	M16	46162455
Clamping pin for WPS-PPD 24	M24	467625

- Ideal for OP 10: Preparation of the workpiece for WPS
- Flexible system

Workpiece preparation device



Application/customer benefits

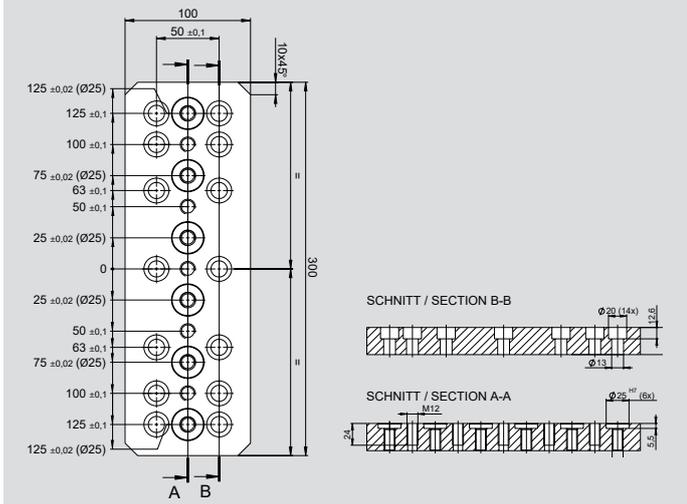
- Easy and flexible use of WPS-PPD direct clamping devices
- Fine adjustment on T-slot tables
- Mounting of WPS-PPD on grid plates between two row of holes possible
- Protected against corrosion
- Very strong version
- Undrilled version for customized finish machining

Standard equipment

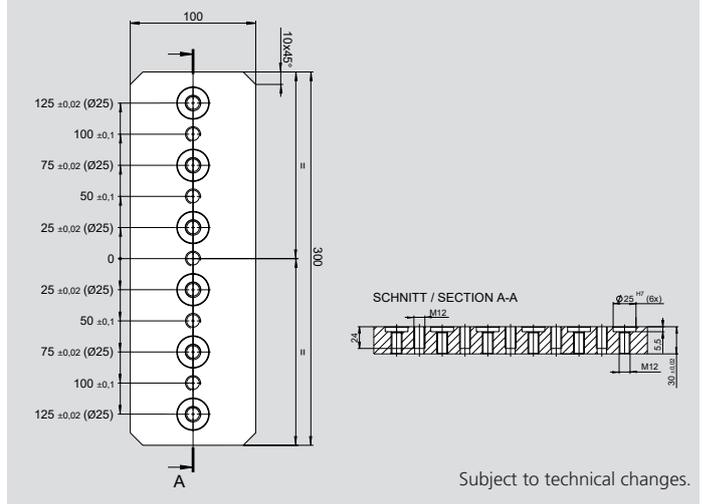
Clamping bar WPS-PPD

Options:

Clamping bar WPS-PPD 300 (460447)
(drilled)

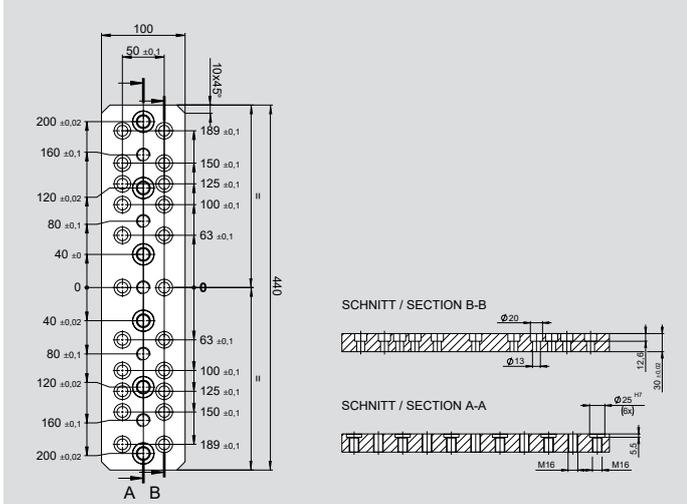


Clamping bar WPS-PPD 300 (460448)
(undrilled)

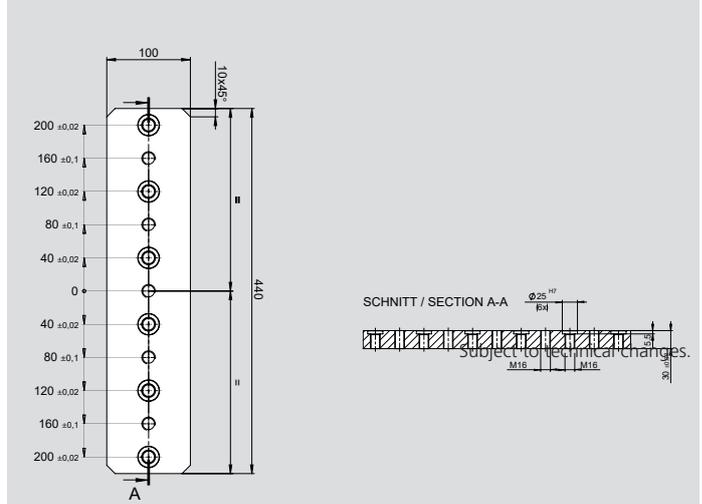


Subject to technical changes.

Clamping bar WPS-PPD 300 (467174)
(drilled)



Clamping bar WPS-PPD 300 (467173)
(undrilled)



Subject to technical changes.

Order review

SMW-AUTOBLOK	WPS-PPD clamping bar (drilled)		WPS-PPD clamping bar (undrilled)	
Type	300	440	300	440
Id. No.	460447	467174	460448	467173

