

F-Tool ZeroPoint Clamping System (ZPS)



simple palletising with the F-Tool PowerFlex Centring

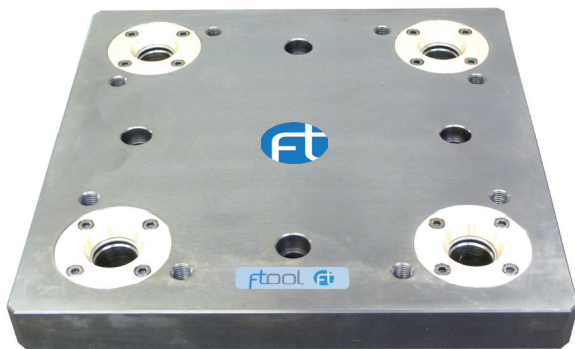
Wonderfully simple...

F-Tool ZPS

The F-Tool ZPS is a simple, precise, powerful zero point clamping system. The positioning takes place by means of conically cut clamping pins which compress the centring ring during clamping and form a friction-locked connection with the base unit. This compensates for any lateral clearance. The pallet can be fastened to the ZPS base unit mechanically using screws or by means of an additional independent clamping mechanism.

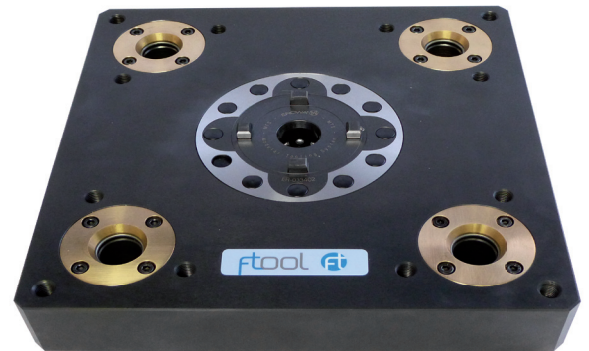
FTool ZPS-300-36-M

- for standard-sized pallets 300 x 300 mm
- flat building height 36 mm
- strong screw connection for heavy weights and coarse chipping
- no air or hydraulics connection required
- no alignment pallet required



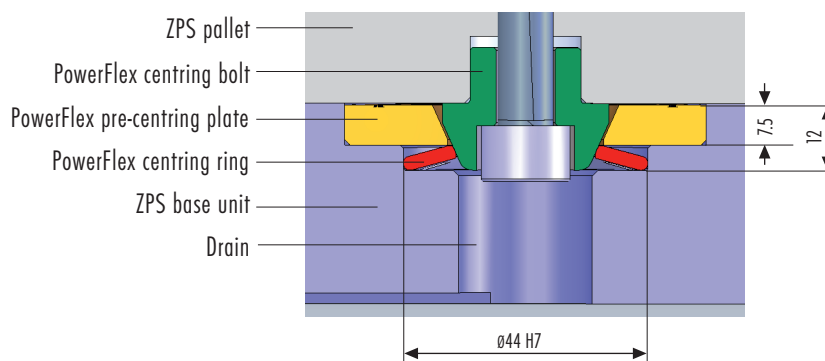
FTool ZPS-300-55-MP-MTS-Single

- for standard-sized pallets 300 x 300 mm and pallets Ø 148 mm
- central independent MTS clamping chuck for pallets PP148
- two clamping sizes in a (300 x 300 mm / Ø 148 mm)
- pallets can be clamped quickly and easily using air pressure
- In case of strong loads the pallets can also be secured with 4 x M12
- no alignment pallet required

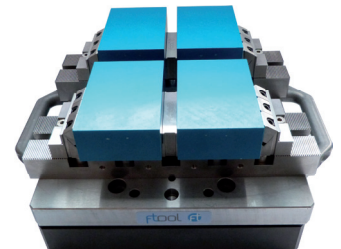
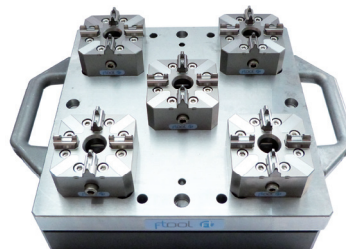
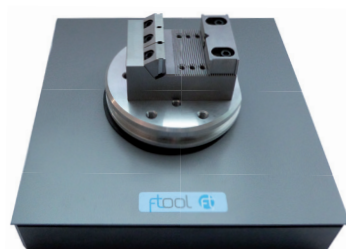
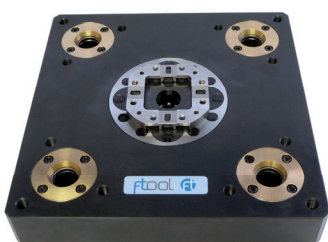


F-Tool PowerFlex centring

The centring mechanism is wonderfully simple. The F-Tool PowerFlex centring ring can be inserted loosely in the prepared centring bore holes and fastened with the pre-centring plate.



Universal options of use



compatible with F-Tool PowerPlate and EROWA MTS pallets P148

various aluminium and steel plates 300 x 300mm are available for daily use

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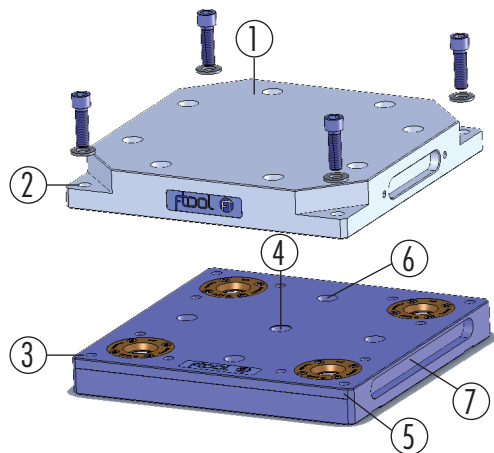
Universal

Precise

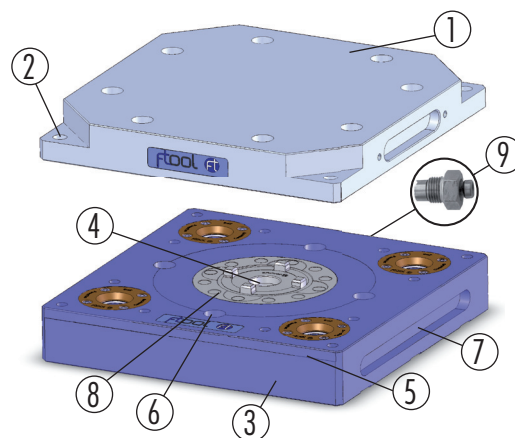
Flexible

Economical

In the FTool ZPS the four PowerFlex centring units automatically form a reference position in the centre of the base unit. The reference position is not as normally determined by a centring unit, but equalised evenly by means of the four PowerFlex centring rings. Minor deviations in the positioning on the pallet or thermal influence are systematically compensated and centrally distributed by the PowerFlex centring rings.



- ① Pallet 300 x 300 mm
- ② Clamping holes for M12
- ③ base plate
- ④ Integrated reference position
- ⑤ Integrated alignment edge
- ⑥ Fastening holes
- ⑦ Fastening slot
- ⑧ Clamping mechanism MTS
- ⑨ Air non-return valve



ZPS Technical Features

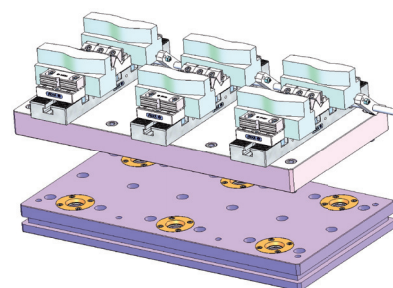
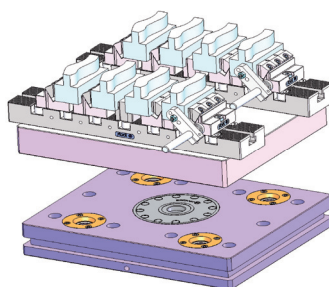
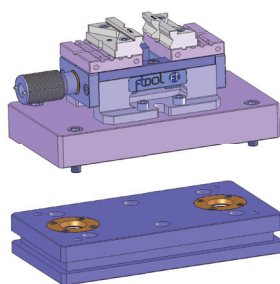
- simple components for flexible applications
- tolerant rough centring of ± 5 mm to insert pallet
- short centring bolt, short paths (protruding only 14 mm)
- low installation height (PowerFlex centring unit $t=12$ mm)
- high positioning and repetition precision ± 0.005 mm means and devices
- for high loads and high lateral forces the pallets are fastened with 4 x M12 screws
- mechanical or pneumatic clamping/unclamping

ZPS possible applications

- manually or pneumatically operated palletizing system on processing centres
- positioning system in fixture construction
- multiple pick-up of machine tools
- fast changing system of clamping means and devices
- fast changing system on clamping cubes

Modular system for DIY

If necessary, the FTool PowerFlex centring can be arranged individually and as a double, quadruple or multiple palletizing system. The FTool PowerFlex centring is therefore also suitable for DIY positioning systems and devices. The low installation height of app. 20 mm opens up new palletizing options



Article no.	Article	Quantity	Weight	Code	
FT 02160	FTool ZPS-300-36-M manual basic unit	1 piece	26.00 kg	P	
FT 02161	FTool ZPS-300-55-MP-MTS-single pneumatic basic unit (ER-033402)	1 piece		P	
FT 02185	FTool ZPS-300-55-MTS-MP Basic unit with pneumatic clamping (ER 033400)	1 piece		P	
FT 02162	FTool ZPS PowerFlex centring unit	Set of 2 pieces	0.36 kg	P	
FT 02163	FTool pallet ER-PP148 alu (PowerPlate) (without spigot)	1 piece	1.41 kg	P	
FT 02164	FTool ZPS PowerFlex centering bolt	Set of 2 pieces	0.20 kg	P	
FT 02165	FTool ZPS ALU pallet M 300 x 300 x 44 mm	1 piece	12.00 kg	P	
FT 02166	FTool ZPS pallet steel M 300 x 300 x 36 mm	1 piece	25.00 kg	P	
FT 02167	FTool ZPS ALU pallet MP 300 x 300 x 44 mm incl. MTS chucking spigot	1 piece	12.00 kg	P	
FT 02168	FTool ZPS pallet steel MP 300 x 300 x 36 mm incl. MTS chucking spigot	1 piece	25.00 kg	P	

...simply wonderful