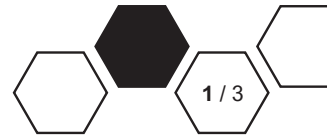
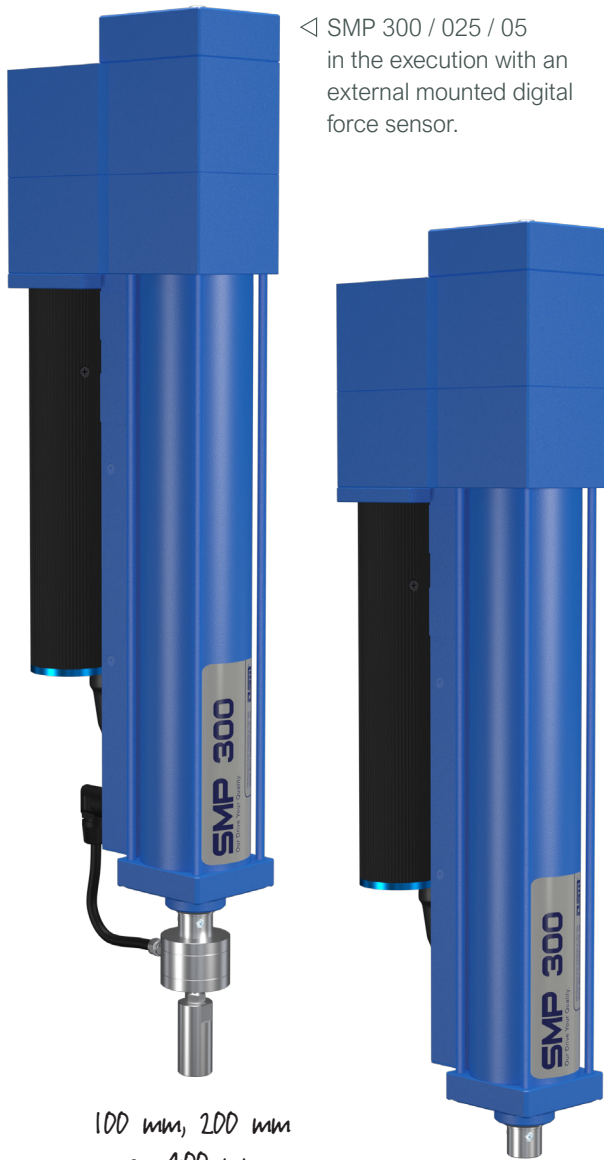


SMP 300 series



Press-in units of the SMP 300 series are designed for press forces from **0.05 kN up to max. 2 kN**.



◁ SMP 300 / 025 / 05
in the execution with an external mounted digital force sensor.

100 mm, 200 mm
or 400 mm
stroke distance

Fact : The press-in unit SMP is powered by a brushless servo motor, which is placed to the side via a motor offset.

The rotational movement of the servo motor is transferred via a helical gear unit to the recirculating ball screw. The rotational movement is converted there into a linear movement and the plunger is moved.

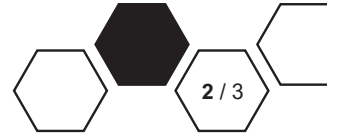
The high-precision load cell and the absolute displacement measuring system – in combination with the MultiPro 3G – ensure assembly accuracy and complete documentation of the production data.

 Dimensions SMP 300
<https://dsmcloud.gmuendcloud.de/url/qmpsm>

Fields of application of DSM press-in technology

Precision press-in, Press-in to end stop, Clinch, Bending, Embossing / Forming,
Testing / Measuring, Caulking, Clipping, Test switch / snap-in point, Calibration ...

SMP 300 series



Product code
SMP 300 / 01 200 V2 DR 00 00

Series designation	Load cell	Stroke	Drive	Force measurement	Accessories	Tool holder
A	B C	A	A	A	A	A
			Standard			

A SMP 300 Press-in unit

Type	Stroke	Max. speed	Article number
SMP 300 / XX 100 V2 DR 00 00	100 mm	350 mm/s	SMP-303001
SMP 300 / XX 200 V2 DR 00 00	200 mm	350 mm/s	SMP-303002
SMP 300 / XX 400 V2 DR 00 00	400 mm	350 mm/s	SMP-303004

Resolution stroke measurement system 0,003 mm, stroke repeat accuracy under force 0,01 mm by about 20 mm/s
 V2: Motor offset DR: Force measurement in direction press, Tool holder DIN 810 A8

B Execution external load cell

Type	Max. force	Application area	Article number
Load cell 0,25 kN for SMP 300	0,25 kN	0,05 - 0,25 kN	SMP-300002
Load cell 0,5 kN for SMP 300	0,5 kN	0,1 - 0,5 kN	SMP-300005

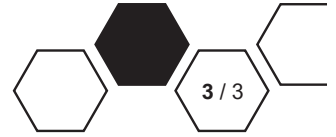
Force accuracy 0,5 % of the final value

C Execution load cell

Type	Max. force	Application area	Article number
Load cell 1 kN for SMP 300	1 kN	0,2 - 1 kN	SMP-300010
Load cell 2 kN for SMP 300	2 kN	0,4 - 2 kN	SMP-300020

Force accuracy 1 % of the final value

SMP 300 series



Accessories

Sealing air connection

Type	Article number
Sealing air connection (avoids the ingress of dirt particles into the press-in unit)	QMP-3000100

Service package – Lubrication set

Type	Article number
Lubrication set (grease gun, armoured hose, grease cartridge and lubrication tube set)	DSM-281990

Frames for SMP 300 (acc. to customers specification)

Type	Article number
Portal frame for SMP 300	SMP-3008000
C-frame for SMP 300	SMP-3008500

.. or as a complete solution, installed in a [workstation](#), for customer-specific joining applications.

The protected area – in which the SMP press-in unit mounted on a frame is located – is closed on 3 sides with a protective enclosure and is monitored by a lifting door or a safety light curtain in conjunction with a safety PLC. The joining process is controlled with the MultiPro 3G and the force and simultaneously the stroke are measured, regulated and controlled.