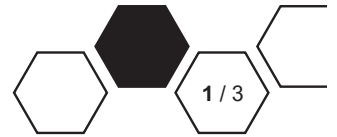


# SMP 400 series



Press-in units of the SMP 400 series are designed for press forces from **1 kN up to max. 10 kN**.



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. Optionally this is available with integrated holding brake (MHB) and designed as restraining brake.

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.

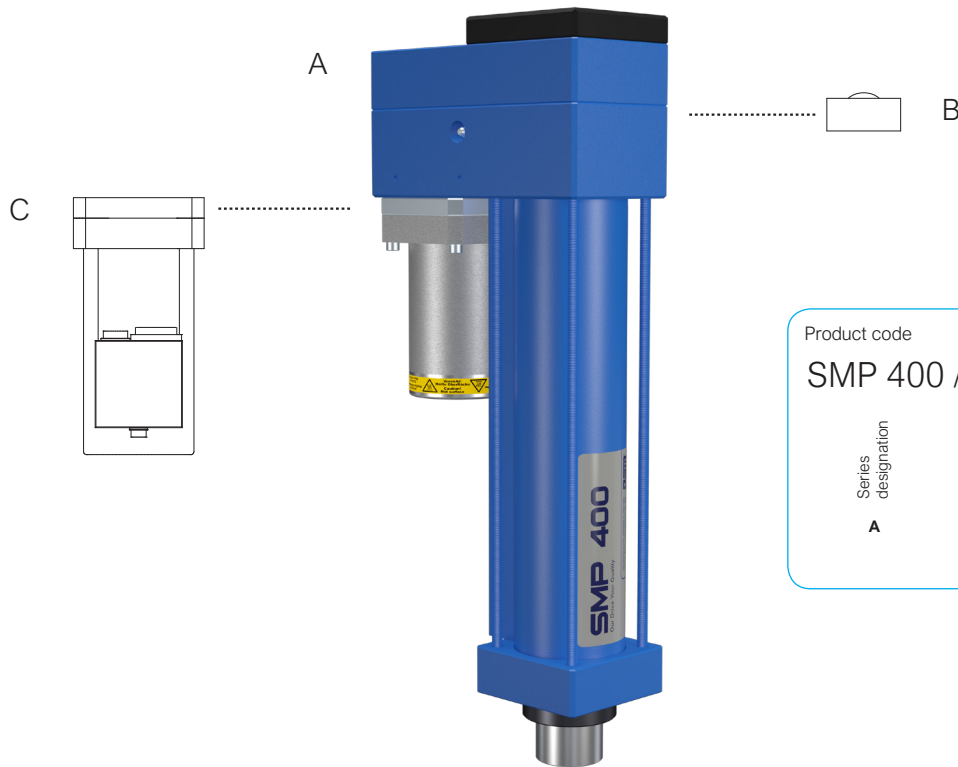
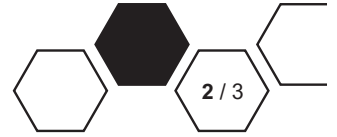
 Dimensions SMP 400

<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 400 series



Product code

**SMP 400 / 05 200 V2 DR 00 00**

 Series designation  
**A**

 Load cell  
**B**

 Stroke  
**A**

 Drive  
**A**  
**C**

 Force measurement  
**A**

 Accessories  
**A**

 Tool holder  
**A**

Standard

## A SMP 400 Press-in unit

| Type                         | Stroke | Max. speed | Article number |
|------------------------------|--------|------------|----------------|
| SMP 400 / XX 100 V2 DR 00 00 | 100 mm | 200 mm/s   | SMP-403001     |
| SMP 400 / XX 200 V2 DR 00 00 | 200 mm | 200 mm/s   | SMP-403002     |
| SMP 400 / XX 400 V2 DR 00 00 | 400 mm | 200 mm/s   | SMP-403004     |

Resolution stroke measurement system 0,003 mm, stroke repeat accuracy under force 0,01 mm by about 20 mm/s

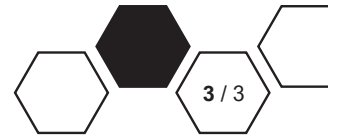
V2: Motor offset DR: Force measurement in direction press, Tool holder with mounting drill holes

## B Execution load cell

| Type                        | Max. force | Application area | Article number |
|-----------------------------|------------|------------------|----------------|
| Load cell 5 kN for SMP 400  | 5 kN       | 1 - 5 kN         | SMP-400005     |
| Load cell 10 kN for SMP 400 | 10 kN      | 2 - 10 kN        | SMP-400010     |

Force accuracy 1 % of the final value

# SMP 400 series



## C Motor holding brake

| Type                    | Article number |
|-------------------------|----------------|
| Motor holding brake MHB | SMP-3008820    |

## Accessories

### Ventilator unit (for cooling the motor)

| Type                                             | Article number |
|--------------------------------------------------|----------------|
| Ventilator unit – right (assembly on right side) | DSM-305903     |
| Ventilator unit – left (assembly on left side)   | DSM-305904     |

### Service package – Lubrication set

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

### Sealing air connection

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

### Frames for SMP 400 (acc. to customers specification)

| Type                     | Article number |
|--------------------------|----------------|
| Portal frame for SMP 400 | SMP-4008000    |
| C-frame for SMP 400      | SMP-4008500    |

.. 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.