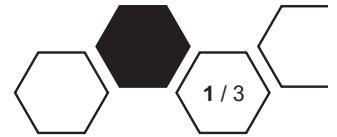


# QMP 80 series



Press-in units of the QMP 80 series are designed for press and pull forces from **0.4 kN up to max. 20 kN**.



— Status display

■ **OK**  
Press-in prozess is okay

■ **RUN**  
Press-in prozess runs

■ **NOK**  
Press-in prozess is not okay

 Dimensions QMP 80  
<https://dsmcloud.gmuendcloud.de/url/qmpsmmp>

200 mm, 300 mm  
or 500 mm  
stroke distance

## Fact :

The press-in unit QMP is powered by a brushless servo motor, which is placed vertical or offset to the side via a motor offset. Optionally this is available with integrated holding brake (MHB) and designed as restraining brake. Furthermore, it is possible to equip the motor with an electro-mechanical holding brake (HB) or with a return stop (RS).

The return stop is a brake with override. Thereby the plunger is blocked against a „pressing in“ in every position and therefore is able to hold a counteracting force. The permanent holding of the adjusted force is assured by the regulation via stepper motor control. By use of the return stop it is optionally possible to carry out the braking of the movement (lagging of speed down to zero) by the motor holding brake (MHB+RS).

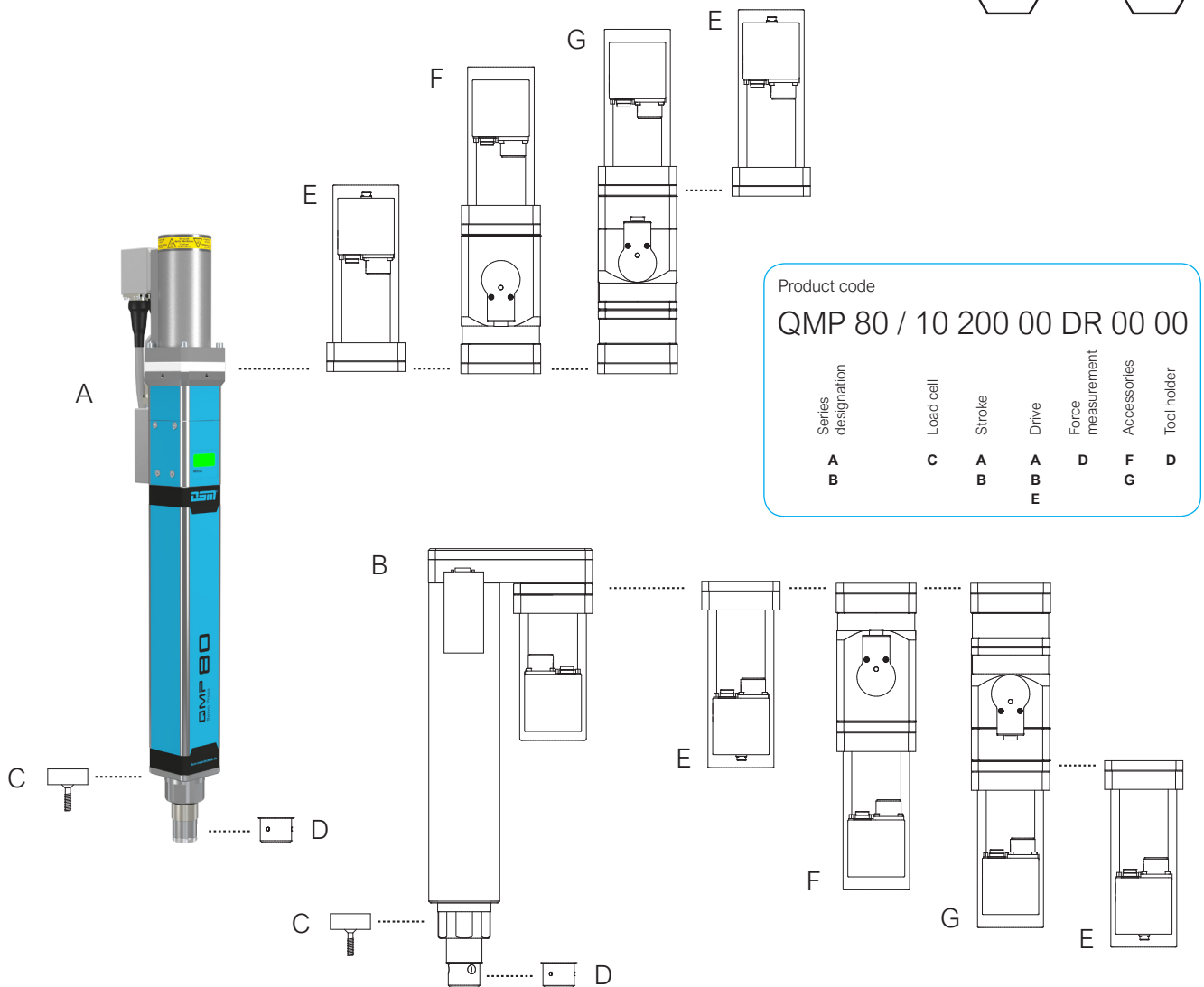
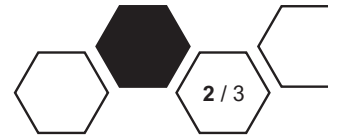
The rotational movement of the servo motor is transferred via a helical gear unit to the recirculating ball screw. The rotational movement is converted there into a linear movement and the plunger is moved.

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.

## 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 ...

# QMP 80 series



## A QMP 80 Press-in unit

Type	Stroke	Max. speed	Article number
QMP 80 / XX 200 00 XX 00 00	200 mm	200 mm/s	QMP-0803002
QMP 80 / XX 300 00 XX 00 00	300 mm	200 mm/s	QMP-0803003
QMP 80 / XX 500 00 XX 00 00	500 mm	200 mm/s	QMP-0803005

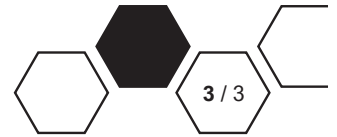
Resolution stroke measurement system 0,003 mm, stroke repeat accuracy under force 0,01 mm by about 20 mm/s

## B QMP 80 Press-in unit with motor offset (V2Z)

Type	Stroke	Max. speed	Article number
QMP 80 / XX 200 V2Z XX 00 00	200 mm	200 mm/s	QMP-0803202
QMP 80 / XX 300 V2Z XX 00 00	300 mm	200 mm/s	QMP-0803203
QMP 80 / XX 500 V2Z XX 00 00	500 mm	200 mm/s	QMP-0803205

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

# QMP 80 series



## C Execution load cell

Type	Max. force	Application area	Article number
Load cell 2,5 kN for QMP 80	2,5 kN	0,4 - 2,5 kN	QMP-0800002
Load cell 5 kN for QMP 80	5 kN	0,8 - 5 kN	QMP-0800005
Load cell 10 kN for QMP 80	10 kN	2 - 10 kN	QMP-0800010
Load cell 20 kN for QMP 80	20 kN	4 - 20 kN	QMP-0800020

Force accuracy 0,5 % of the final value

## D Execution force measurement

Type	Force measurement	Tool bracket	Article number
Execution DR for QMP 80	in direction press	DIN810 A20, Ø20H7 45 deep	QMP-0801000
Execution ZU for QMP 80	in direction pull	M20 x 1,5 40 deep	QMP-0801005
Execution DZ for QMP 80	in direction press and pull	M20 x 1,5 40 deep	QMP-0801010

## E Motor holding brake

Type	Article number
Motor holding brake MHB	QMP-0803112

## F Holding brake

Type	Article number
Holding brake HB	QMP-0803110

## G Backstop

Type	Article number
Backstop RS-L without V2Z (motor offset)	QMP-0803116
Backstop RS-R with V2Z (motor offset)	QMP-0803117

## 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

### 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 QMP 80 (acc. to customers specification)

Type	Article number
Portal frame for QMP 80	QMP-0808000
C-frame for QMP 80	QMP-0808500

... or as a complete solution, installed in a workstation, for customer-specific joining applications.

The protected area – in which the QMP 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.