QMP 140 series

Press-in units of the QMP 100 series are designed for press and pull forces from **10 kN up to max. 120 kN**.

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 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.

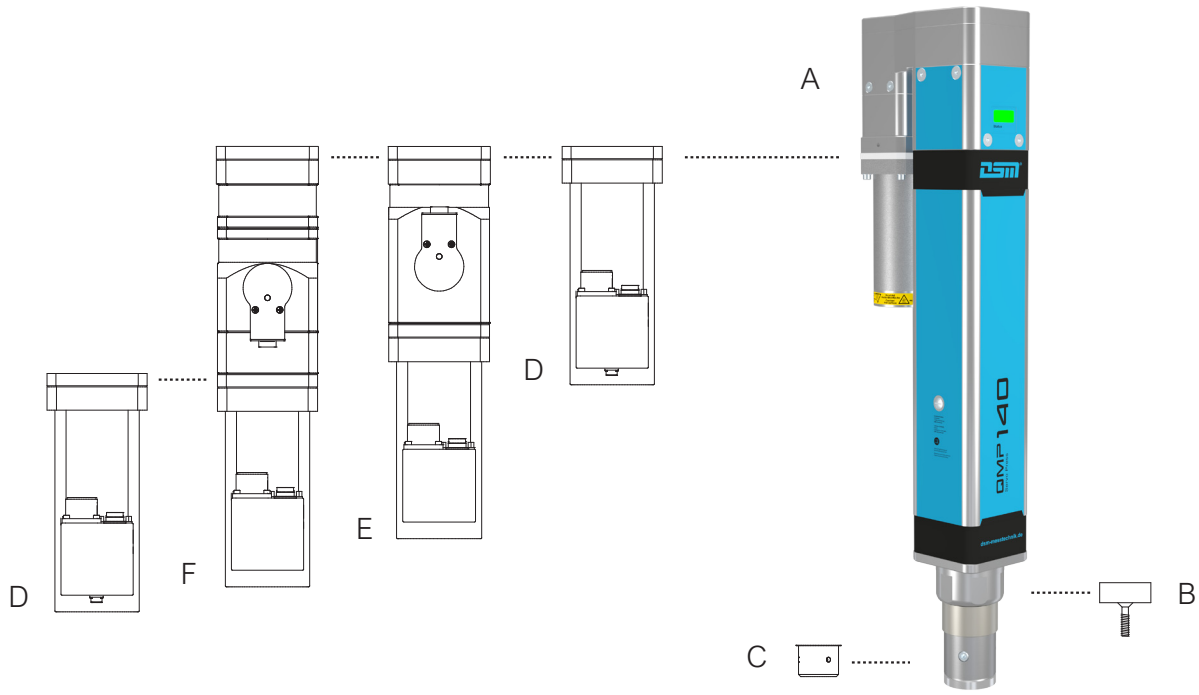
Dimensions QMP 140
https://dsmcloud.gmuendcloud.de/url/qmpsmp

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 ...

DSM Messtechnik GmbH
Dieselstraße 16
73431 Aalen, Germany
info@dsm-messtechnik.de
www.dsm-messtechnik.de

QMP 140 series



Product code

QMP 140 / 70 200 V2 DR 00 00

Series designation	Load cell	Stroke	Drive	Force measurement	Accessories	Tool holder
A	**B**	**A**	**A** **D**	**C**	**E** **F**	**C**

A **QMP 140 Press-in unit with motor offset (V2)**

Type	Stroke	Max. speed	Article number
QMP 140 / XX 200 V2 XX 00 00	200 mm	100 mm/s	QMP-1403002
QMP 140 / XX 300 V2 XX 00 00	300 mm	100 mm/s	QMP-1403003
QMP 140 / XX 500 V2 XX 00 00	500 mm	100 mm/s	QMP-1403005

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

B **Execution load cell**

Type	Max. force	Application area	Article number
Load cell 70 kN for QMP 140	70 kN	10 - 70 kN	QMP-1400070
Load cell 100 kN for QMP 140	100 kN	20 - 100 kN	QMP-1400100
Load cell 120 kN for QMP 140	120 kN	24 - 120 kN	QMP-1400120

Force accuracy 0,5 % of the final value

QMP 140 series

C Execution force measurement

Type	Force measurement	Tool bracket	Article number
Execution DR for QMP 140	in direction press	DIN810 A50, Ø50H7 85 deep	QMP-1401000
Execution ZU for QMP 140	in direction pull	M36 x 3 50 deep	QMP-1401005
Execution DZ for QMP 140	in direction press and pull	M36 x 3 50 deep	QMP-1401010

D Motor holding brake

Type	Article number
Motor holding brake MHB	QMP-1403112

E Holding brake

Type	Article number
Holding brake HB	QMP-1403110

F Backstop

Type	Article number
Backstop RS-R	QMP-1403115

Accessories

Ventilator unit (for cooling the motor)

Type	Article number
Ventilator unit for QMP 140	DSM-305906

Sealing air connection

Type	Article number
Sealing air connection (avoids the ingression 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 140 (acc. to customers specification)

Type	Article number
Portal frame for QMP 140	QMP-1408000
C-frame for QMP 140	QMP-1408500

... 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.

DSM Messtechnik GmbH
Dieselstraße 16
73431 Aalen, Germany

info@dsm-messtechnik.de
www.dsm-messtechnik.de