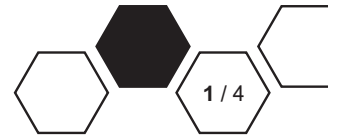


XMP 90 – modular and therefore flexible in use



A press-in unit with huge modularity. The XMP, which is designed from standardised components, is based on a modular principle and provides a flexible solution for your assembly process for simple as well as for complex tasks.

XMP, the electromechanical press-in unit with the „X“ – the crossover of experience and innovation combines the best of the QMP and SMP series with future-oriented press-in technology.

Gear modules for a process optimized movement speed.

Offers many possibilities like e.g. mounting of a customers motor and configuration with motor holding brake, holding brake or backstop.



The space-saving control system with integrated servo controller is used for the evaluation of curves and their documentation as well as for the control of the XMP press-in unit.

Thanks to the variability of our press-in procedures, you have a high-performance system for the use in the quality critical assembly.

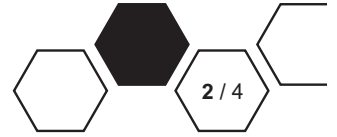


Fast system integration and error-free setup.
The decentralised intelligence of the XMP transmits the characteristic data via Plug-and-Play.

For a visual support during the assembly the large illuminated field shows the process status, the direction of movement and the position of the plunger.

Absolute stroke / length measuring system makes a reference movement unnecessary.

Different installation options and variants of the load cell.
The load cell is also available as redundant or diversely redundant version.



Execution Stroke 200
592 mm

Execution Stroke 400
792 mm

Weight

Execution Stroke 200
31 kg

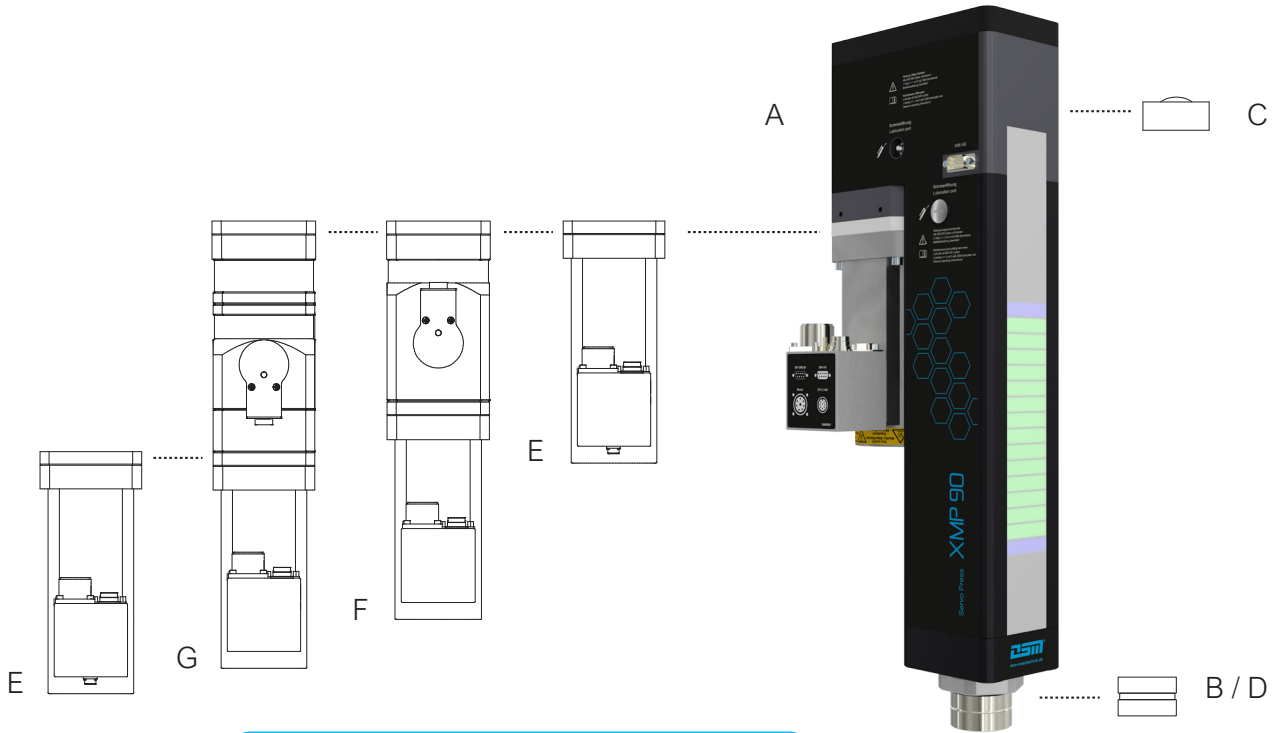
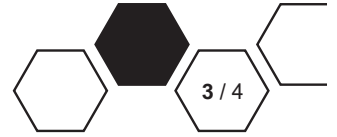
Execution Stroke 400
40 kg

Max. force, nominal load	5 / 12,5 / 25 kN
Drive motor	Electronically controlled, maintenance-free servo motor
Motor mounting	180° turned with offset gear
Options motor	Motor holding brake (e.g. hold tool) Execution customer motor
Stroke	200 mm / 400 mm
Nominal speed	Gear 4Z 200 mm/s (max. 25,0 kN) Gear 2Z 400 mm/s (max. 12,5 kN) Gear 1Z 800 mm/s (max. 5 kN)
Holding time	max. 2,5 s with backstop any time with holding brake max. 999 s
Installation options / executions load cells	KO: Top, at the counter bearing KU: Bottom, in the plunger RU: Bottom, in the plunger (redundant) OU: Top and bottom (diversely redundant)
Measurement direction	DR: Press DZ: Press and pull
Measuring principle	Digital DMS technology, drift-free force measurement
Accuracy force measurement	0,5 % of the final value (load cell bottom) 1 % of the final value (load cell top)
Execution stroke/length measurement	Absolute stroke/length measuring system, enables absolute and relative stroke measurement
Stroke/length repeat accuracy	< 0,01 mm (by about 20 mm/s)
Resolution	0,003 mm
Plunger	Recirculating ball screw; non-rotating plunger
Max. weight of additional tool	10 kg / 50 kg with motor holding brake
Assembly	Face side, screws and centring via fitting collar; Installation position vertical / horizontal
Service	Maintenance-friendly: lubrication interval 600.000 cycles; Repair-friendly: Certain components can be replaced by the user without adjustment.

Designation, size press-in unit	Force	Stroke	Gear	Measuring direction	Option	Force measuring	Option to combine	Plunger
XMP 90 /	5	200	4Z	DR	00	KU	00	00
<i>Example</i>	5	200	1Z	DR	MB	KU	MB	99
	12,5	400	2Z	DZ	HB	KO	HB	
	25		4Z		RS	OU	RS	
					KM	RU	SL	
					SL		LE	
					LE			

- 00 = Standard;
- 4Z = 200 mm/s (max. 25 kN);
- 2Z = 400 mm/s (max. 12,5 kN);
- 1Z = 800 mm/s (max. 5 kN);
- DR = Press;
- DZ = Press and pull;
- MB = Motor holding brake;
- HB = Holding brake;
- RS = Backstop;
- KM = Customer motor;
- SL = Sealing air connection
- LE = Fan unit
- KU = Force bottom (in the plunger)
- KO = Force top (at the counter bearing)
- OU = Force top / bottom (diverse)
- RU = Force bottom redundant
- 99 = Special

XMP 90 series



Product code

XMP 90 / 25 200 4Z DR 00 KU 00 00

Series designation	Load cell	Stroke	Gear module	Measuring direction	Accessories	Force measuring	Accessories (to combine)	Plunger
A	B C D	A	A	B C D	E F G	B C D	E F G	A

A XMP 90 Press-in unit

Type	Stroke	Max. speed	Article number
XMP 90 / XX 200 4Z XX 00 XX 00 00	200 mm	200 mm/s (max. 25 kN)	XMP-0903002
XMP 90 / XX 400 4Z XX 00 XX 00 00	400 mm	200 mm/s (max. 25 kN)	XMP-0903004
XMP 90 / XX 200 2Z XX 00 XX 00 00	200 mm	400 mm/s (max. 12,5 kN)	XMP-0903102
XMP 90 / XX 400 2Z XX 00 XX 00 00	400 mm	400 mm/s (max. 12,5 kN)	XMP-0903104
XMP 90 / XX 200 1Z XX 00 XX 00 00	200 mm	800 mm/s (max. 5 kN)	XMP-0903202
XMP 90 / XX 400 1Z XX 00 XX 00 00	400 mm	800 mm/s (max. 5 kN)	XMP-0903204

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

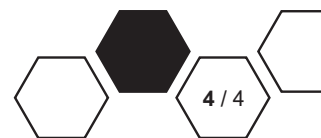
B Load cell, execution DR – for installation option KU and OU

Type	Max. force	Application area	Article number
Load cell 5 kN for XMP 90 KU / OU	5 kN	1 - 5 kN	XMP-0900005
Load cell 12,5 kN for XMP 90 KU / OU	12,5 kN	2,5 - 12,5 kN	XMP-0900012
Load cell 25 kN for XMP 90 KU / OU	25 kN	5 - 25 kN	XMP-0900025

DR: Force measurement in direction press; Force accuracy 0,5 % of the final value

This load cell execution is installed in the plunger (bottom) for both installation variants (KU: Force bottom OU: Force top / bottom)

XMP 90 series



C Load cell, execution DR – for installation option KO and OU

Type	Max. force	Application area	Article number
Load cell 5 kN for XMP 90 KO / OU	5 kN	1 - 5 kN	XMP-090xxxx
Load cell 12,5 kN for XMP 90 KO / OU	12,5 kN	2,5 - 12,5 kN	XMP-090xxxx
Load cell 25 kN for XMP 90 KO / OU	25 kN	5 - 25 kN	XMP-090xxxx

DR: Force measurement in direction press; Force accuracy 1 % of the final value
 This load cell execution is installed at the counter bearing (top) for both installation variants (KO: Force top OU: Force top / bottom)

D Load cell, execution DR – for installation option RU

Type	Max. force	Application area	Article number
Load cell redundant 5 kN for XMP 90 RU	5 kN	1 - 5 kN	XMP-090xxxx
Load cell redundant 12,5 kN for XMP 90 RU	12,5 kN	2,5 - 12,5 kN	XMP-090xxxx
Load cell redundant 25 kN for XMP 90 RU	25 kN	5 - 25 kN	XMP-090xxxx

DR: Force measurement in direction press; Force accuracy 0,5 % of the final value
 This load cell execution has a redundant design and is installed in the plunger (RU: Force bottom redundant)

Execution force measurement DZ – for installation option KU

Load cell calibration for execution DZ (press and pull)	XMP-0901000
---	-------------

E Motor holding brake

Type	Article number
Motor holding brake MB	QMP-0803112

F Holding brake

Type	Article number
Holding brake HB	QMP-0803110

G Backstop

Type	Article number
Backstop RS	QMP-0803117

Accessories

Ventilator unit (for cooling the motor)

Type	Article number
Ventilator unit for XMP 90	DSM-305906

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 XMP 90 (acc. to customers specification)

Type	Article number
Portal frame for XMP 90	XMP-0908000
C-frame for XMP 90	XMP-0908500