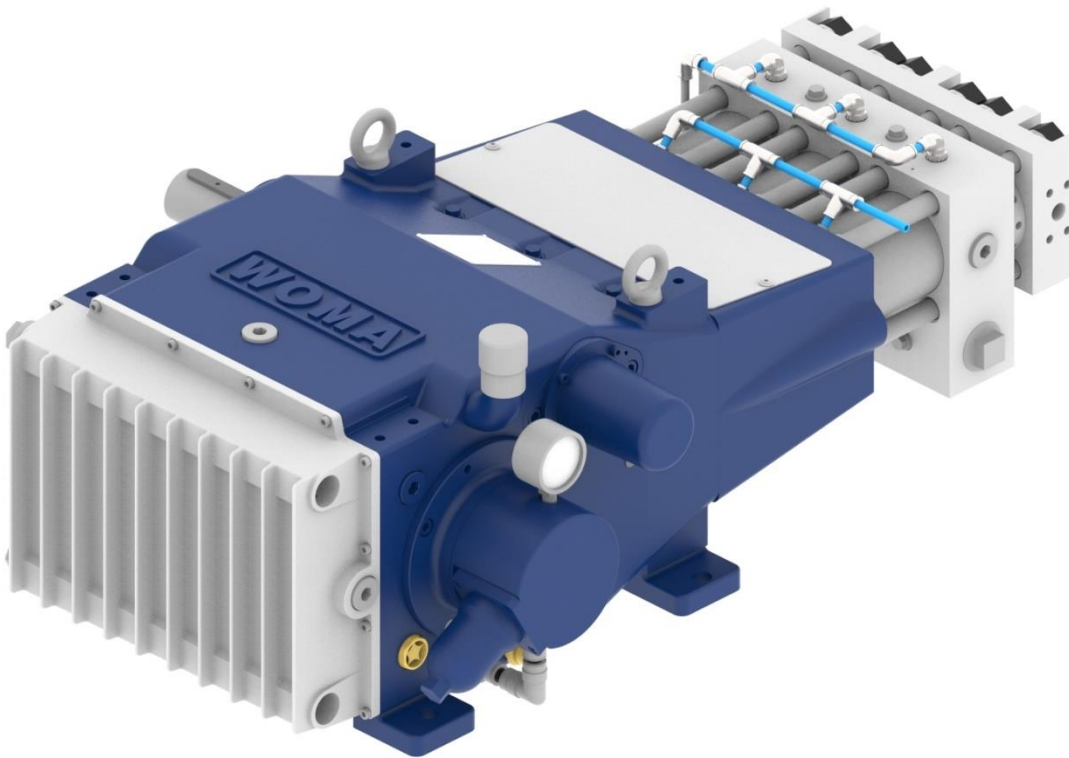


High-pressure pump

190MX

The high-pressure plunger pump type 190MX offers a max. operating pressure of 3,000 bar and a max. nominal flow rate of 33.5 l/min.

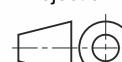


The high-pressure plunger pumps in the MX series deliver working pressures of up to 3,000 bar. This makes the pumps in the MX series ideal for tasks such as cutting, dismantling, decoating and derusting.

Featuring a central valve design, these plunger pumps also have high volumetric efficiencies at high pressures. The carbide plungers used are extremely stable, and guarantee a long service life and therefore low maintenance costs. They are also unaffected by sudden changes in temperature. The plunger guide ensures a long service life for the seal system. The sealing water system used prevents leakage, enables a higher level of durability for the high-pressure seals and counteracts the ingress of air.

Technical data		
Total weight	approx.	370 kg
Inlet pressure connection		G 1½"
Pressure connection with flange		9/16" UNF LH
Cooling water connections		G 1"
Crankshaft speed	max. min.	424 rpm depending on operational parameters
Drive shaft		Diameter 50 mm k6, Keyway as per DIN 6885 sheet 1, A14 x 9 x 72
Average torque at the drive shaft max.	i = 4.25	674 Nm
Moment of inertia J	i = 4.25	0.294 kgm²
Centrifugal moment GD²	i = 4.25	1.152 Nm²
Pumped medium inlet pressure	min. max.	1.5 bar 5.0 bar
Permissible pressure amplitude during operation	max.	±2.0 bar (pressure must not fall below 0.5 bar at any time)
Pumped medium temperature	min. max.	+5 °C +30 °C (higher temperatures on request)
Pumped medium supply requirement	min.	2x change-over set-dependent nominal flow rate of the pump (1.5 times the nominal flow rate of the pump, depending on interchangeable conversion set, if no internal gearbox cooling is installed)
Emission sound pressure level according to DIN EN ISO 11200		>80 dB(A)
Gearbox end oil capacity	approx.	8 l
Oil viscosity ISO VG according to DIN 51517-2 or -3		320 mm²/s
Oil pressure for forced lubrication		1.5–5.0 bar
Oil pressure for overflow valve (setting)		5.0 bar
Oil filter fineness		0.025 mm
Oil temperature	max. setpoint	80 °C 60–70 °C
Heat exchanger cooling water requirement	approx.	2.5 l/min
Heat exchanger cooling water temperature	min. max.	+5 °C +45 °C
Heat exchanger cooling water pressure	min. max.	1.5 bar 10 bar

Performance variants								
Drive shaft speed		Crankshaft speed	P16		P18		P20	
1.500 [rpm]	1.800 [rpm]		3.000 bar		2.750 bar		2.200 bar	
Gear ratio		[rpm]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]
	4.25	424	104	20.5	123	26.5	127	33.5
4.25		353	87	17	103	22	106	28

Werkstoff material / substance		Allgemeintoleranzen general tolerances		Projection E 		Oberfläche / surface EN ISO 1302		 WOMA Kärntner Group				
Halbzeug semi finished product		DIN ISO 2768-mK		dimensions in mm		Material-Nr. / material no.		7.744-336.0				
		Tolerierung / toleration DIN EN ISO 8015		Benennung / description Massblatt Pumpe 190 – 250 MX Dimension sheet pump 190 – 250 MX								
Werkstoffbez. / mat. designation		☐ geprüft	document			number	type	version	status	scale	sheet	of
Schweißtechn. / welding techn.		☐ checked	5940923-0			5940923	DRK	00	FR	15	1	1
Ausgabedatum date of issue		Gezeichnet drawn by		Technische Referenz technical reference		Genehmigt approved by		Änderung / Engineering change		ersetzt / replaces		
								Anzahl / count		Datum / date		index
2025-01-29		DE881314		DE881314		DE884192		0 0		2212703		