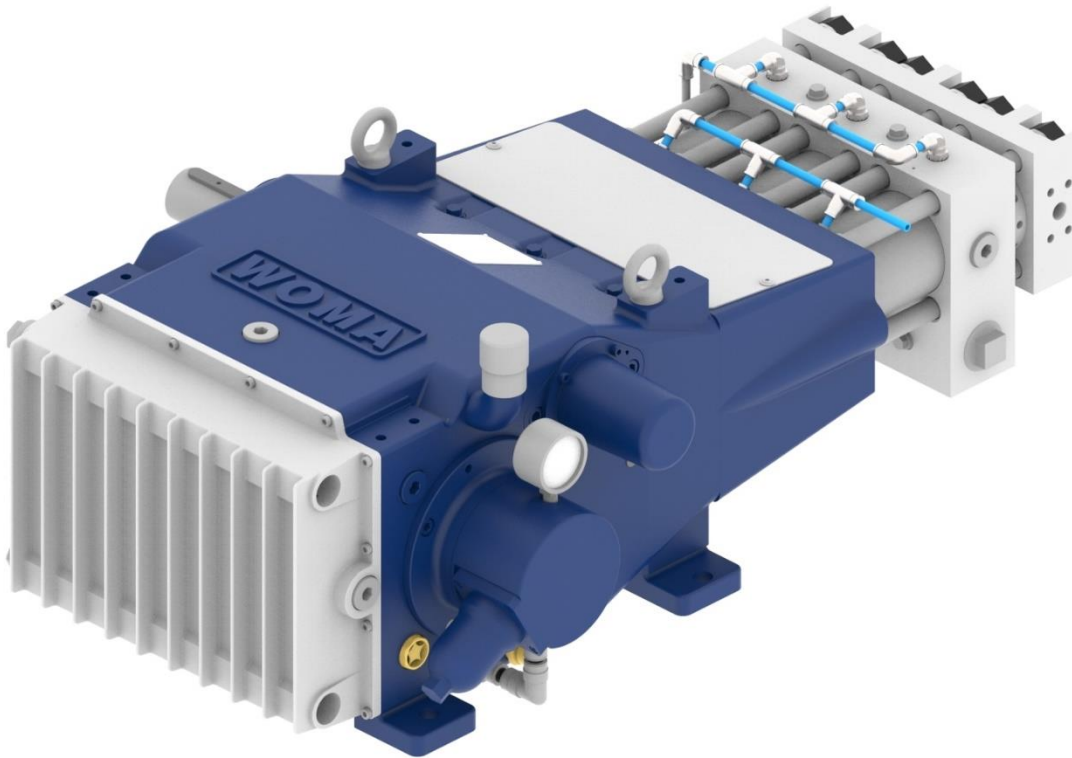


High-pressure pump 250MX

The high pressureplunger pump type 250MX offers a max. operating pressure of 3,000 bar and a max. nominal flow rate of 40 l/min.



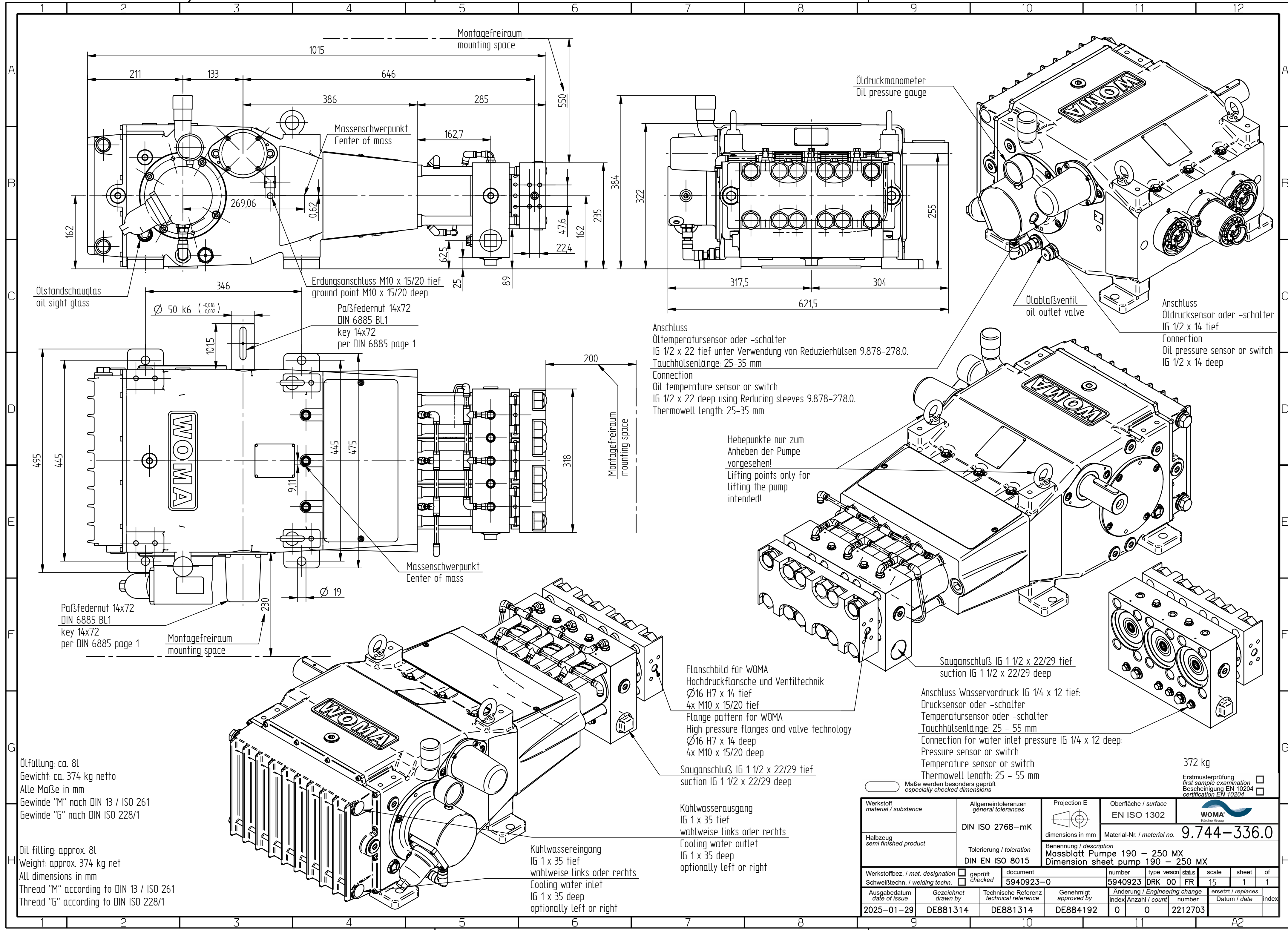
The high-pressure plunger pumps in the MX series deliver working pressures of up to 3,000 bar. This makes the pumps in the MX series ideal for tasks such as cutting, dismantling, decoating and derusting.

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.	504 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 on the drive shaft max.	i = 3.04 i = 3.57	942 Nm 802 Nm
Moment of inertia J	i = 3.04 i = 3.57	0.044 kgm² 0.036 kgm²
Centrifugal moment GD²	i = 3,04 i = 3.57	1.74 Nm² 1.42 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.	2 times the nominal flow rate of the pump, depends on interchangeable conversion set (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								
Speed Drive shaft		Crank-shaft 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]
	3.57	504	124	24.5	147	31.5	152	40
3.04		493	121	24	144	30.5	148	39
3.57		420	103	20.5	122	26	126	33.5

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Werkstoff material / substance		Allgemeintoleranzen general tolerances		Projection E		Oberfläche / surface		Material-Nr. / material no.	
Halbzeug semi finished product		DIN ISO 2768-mK		dimensions in mm		EN ISO 1302		9.744-336.0	
Werkstoffbez. / mat. designation		Tolerierung / toleration		Benennung / description		scale		sheet	
Schweißtechn. / welding techn.		DIN EN ISO 8015		Massblatt Pumpe 190 - 250 MX		15		1	
Ausgabedatum date of issue		Gezeichnet drawn by		Genehmigt approved by		Anzahl / count		Datum / date	
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A2		A2		A2		A2		A2	