

High-pressure pump 330MX

The 330MX high-pressure plunger pump offers a max. operating pressure of 3,000 bar and a max. Nominal flow rate of 57.5 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.	883 kg
Inlet pressure connection		IG 2"
Pressure connection with flange		9/16" UNF LH
Cooling water connections		IG ½"
Crankshaft speed	max. min.	426 1/min depending on operational parameters
Drive shaft		diameter 70 mm k6, Dowel according to DIN 6885 sheet 1, A20 x 12 x 100
Average torque on the drive shaft max.		1278 Nm
Moment of inertia J		0.114 kgm²
Centrifugal moment GD²		4.45 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.	1.5 times the nominal pump flow rate, depending on the exchange rate.
Emission sound pressure level according to DIN EN ISO 11200		>80 dB(A)
Gearbox end oil capacity	approx.	30 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.	10 - 20 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	P18		P20		P22	
1.500 [rpm]	1.800 [rpm]		3.000 bar		2,500 bar		2,100 bar	
Gear ratio		[rpm]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]
	4.23	426	187	37	200	46.5	209	57.5
4.23		355	156	31	166	39	174	48

