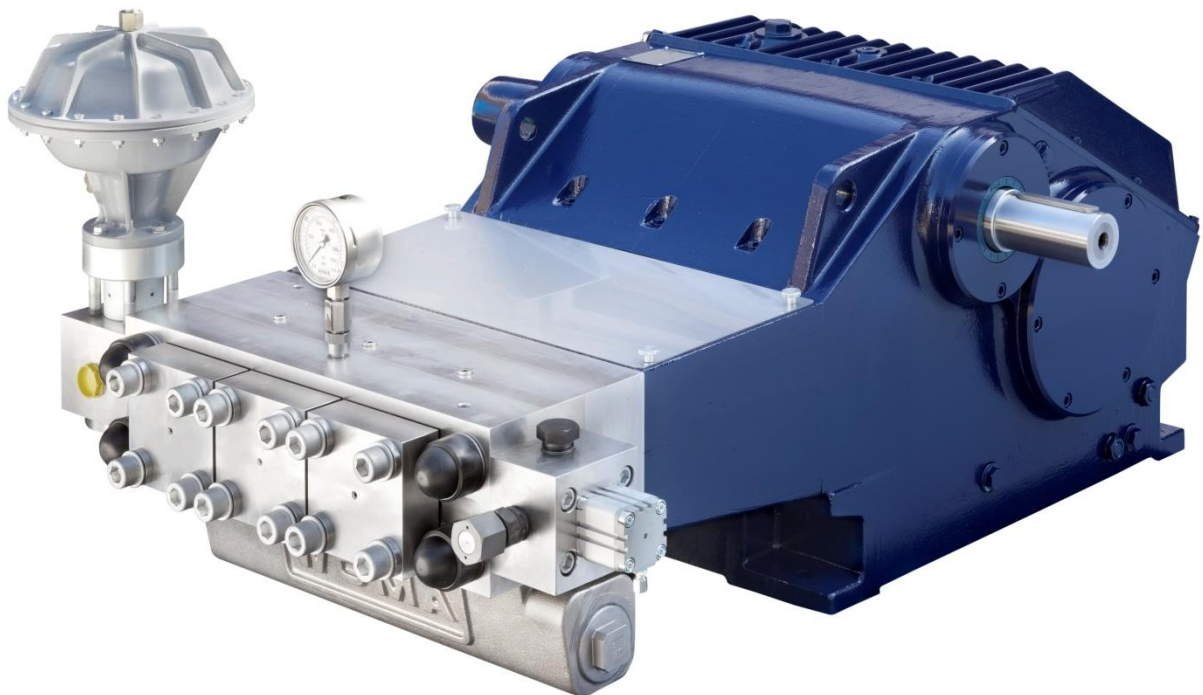


High-pressure pump 700Z

The type 700Z high-pressure pump provides a max. operating pressure of 1,500 bar and a max. flow rate of 435 l/min.



With operating pressures of up to 1,500 bar and nominal flow rates of up to 744 l/min, the Z-series is the ideal pump for industrial cleaning as well as for paint removal and descaling.

Proper guidance of the plunger ensures a long service life of the sealing system. The used sealing water system prevents leakage, allows for a particularly high durability of the high-pressure seals and counteracts the intrusion of air. The central valve design of the pump results in a high volumetric efficiency. Pumps with an operating pressure of 1,000 bar or more are equipped with carbide plungers, which ensure a long service life and thus low maintenance costs.

On request, the availability of an ATEX version can be checked.

Technical data		
Weight	approx.	1,430 kg
Inlet pressure connection		IG 3"
Pressure connection with flange		M24x1.5 M36x2 M42x2
Cooling water connection		G ½"
Crankshaft	max. min.	545 1/min Depends on operation parameters
Drive shaft		Diameter 70mm k6, feather key DIN 6885 Sheet 1, A20 x 12 x 100
Torque at drive shaft	max.	2,719 Nm
Moment of inertia J	i = 3.30 i = 3.45	0.491 kgm ² 0.473 kgm ²
Centrifugal moment GD ²	i = 3.30 i = 3.45	19.26 Nm ² 18.55 Nm ²
Inlet pressure	min. max.	1.5 bar 5.0 bar
Pressure amplitude	max.	± 2.0 bar
Flow temperature	min. max.	+5 °C +45 °C (higher temperatures on request)
Flow inlet requirement	min.	1.5x nominal feed rate of the pump, dependent on the conversion set
Emission sound pressure level according to DIN EN ISO 11200		>80 dB(A)
Oil capacity of transmission end	approx.	45 l
Oil viscosity ISO VG under DIN 51517-2 or -3		320 mm ² /s
Oil pressure lubrication		2.5 - 5.0 bar
Oil pressure set value overflow valve		5.0 bar
Oil filter fineness		0.025 mm
Oil temperature	max. Set value	80 °C 60 - 70 °C
Heat exchanger cooling water requirement	appr.	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**												
Pinion shaft		Crank shaft	P30		P35		P40		P45		P50	
1,500 [1/min]	1,800 [1/min]		1,500 bar*		1,300 bar		1,000 bar		800 bar		650 bar	
Gear ratio		[1/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]	[kW]	[l/min]
	3.30	545	408	149	486	206	496	273	507	349	513*	435*
	3.45	522	390	143	465	197	474	261	485	334	491	416
3.30		455	340	124	405	171	413	227	423	291	428	362

* Maximum values of the pump

** Technical changes reserved

Overview pump 700Z

