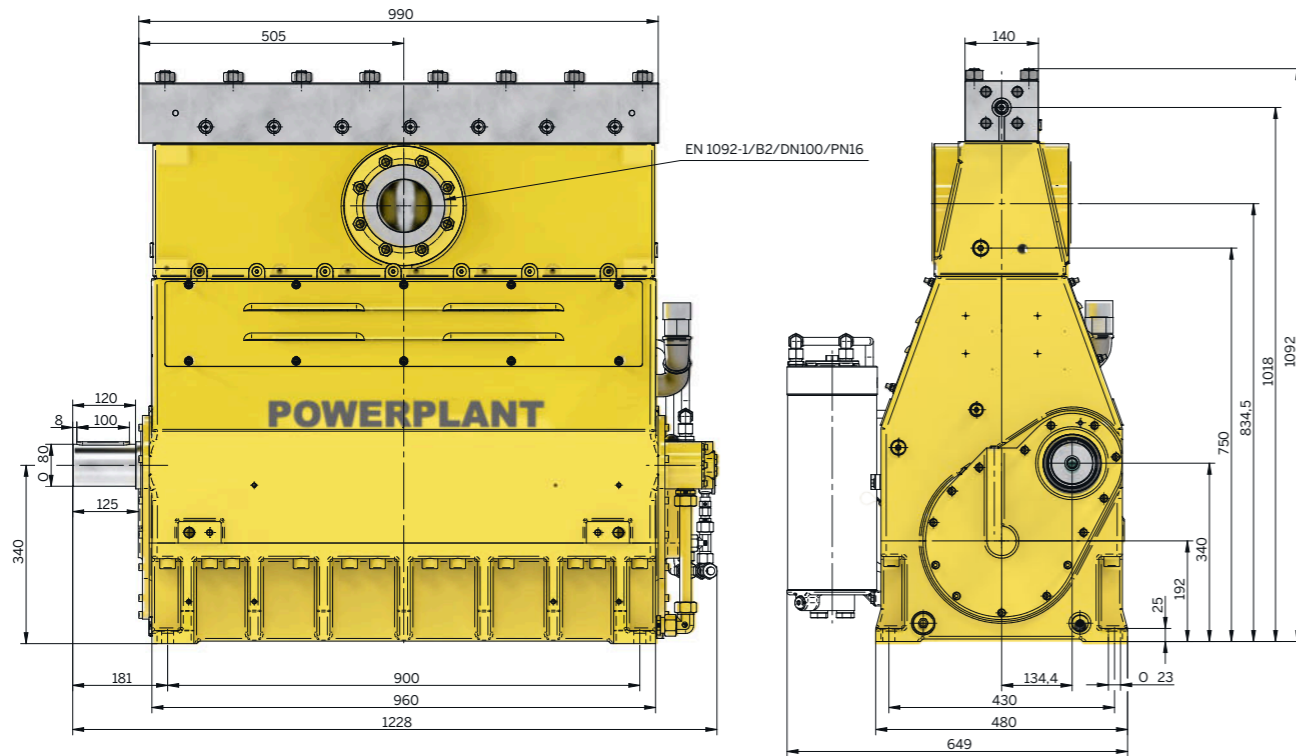




P 500 PLUNGER PUMP

Kamjet plunger pumps are designed for continuous operation. Refer to the crankshaft speed, average piston speed and drive power.

Plunger pump
Weight: approx. 1620 kg



Dimensions: mm

Stationary unit with diesel engine

Length: 3970 mm
Width: 1640 mm
Height: 2672 mm
Weight: ca. 6500 kg at 500 kW

Features

- Power ratings up to 500 kW
- Vertical 7 cylinder design

Quality and reliability

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Stainless steel pump head free of alternating stress
- Integral speed reduction gear
- Pressurized oil lubrication system with oil cooler/filter
- Bellows form hermetic seal between the suction chamber and crank section
- High component similarity to existing pump series
- Minimum crankshaft speed with external oil pump 32 r.p.m.

TECHNICAL DATA, SERIES P 500

Performance parameters (Standard design)

P	Q** [l/min]	Required power rating [kW]						D [mm]	r.p.m.	
		200	250	300	350	400	500		n1	n2
		Operating pressure [bar]								
474	33	2700	3800	4500	-	-	-	15	1500	411
	39	2000	2900	3800	4500	-	-		1500 / 1800	493
	47	1500	2100	2900	3600	4500	-		1800	591
	46	2200	2800	3200	-	-	-	17,5	1500	411
	55	1830	2300	2800	3200	-	-		1500 / 1800	493
	66	1530	1910	2300	2700	3100	3200		1800	591
	56	1810	2300	2700	3000	-	-	19,3	1500	411
	67	1510	1880	2300	2600	3000	-		1500 / 1800	493
	81	1260	1570	1880	2200	2500	3000		1800	591
	60	1680	2100	2500	2800	-	-	20	1500	411
72	1400	1750	2100	2500	2800	-	1500 / 1800		493	
86	1170	1460	1750	2100	2300	2800	1800		591	
473	101	1080	1350	1610	1800	-	-	25	1500	411
	121	900	1120	1350	1570	1800	-		1500 / 1800	493
	145	750	940	1120	1310	1500	1760		1800	591
	125	860	1070	1300	1430	-	-	28	1500	411
	150	720	900	1070	1250	1430	-		1500 / 1800	493
	180	600	750	900	1040	1200	1400		1800	591
472	142	750	930	1120	1240	-	-	30	1500	411
	170	620	780	930	1100	1240	-		1500 / 1800	493
	204	520	650	780	910	1040	1220		1800	591
	177	620	770	930	1030	-	-	33	1500	411
	213	510	640	770	900	1030	-		1500 / 1800	493
	255	430	540	640	750	860	1010		1800	591
	195	550	700	820	910	-	-	35	1500	411
	234	460	570	700	800	910	-		1500 / 1800	493
	281	380	480	570	670	760	900		1800	591
	258	420	530	630	700	-	-	40	1500	411
	309	350	440	530	610	700	-		1500 / 1800	493
	370	300	370	440	510	580	700		1800	591
	329	330	420	500	550	-	-	45	1500	411
	395	280	350	420	480	550	-		1500 / 1800	493
	474	230	300	350	400	460	540		1800	591
	411	270	340	400	450	-	-	50	1500	411
	493	220	280	340	400	450	-		1500 / 1800	493
	591	200	230	280	330	370	440		1800	591
	497	220	280	330	370	-	-	55	1500	411
	596	200	230	280	320	370	-		1500 / 1800	493
	715	150	200	230	270	310	360		1800	591
	586	200	230	280	310	-	-	60	1500	411
	703	160	200	230	270	310	-		1500 / 1800	493
	842	130	160	200	230	260	310		1800	591
	687	160	200	240	270	-	-	65	1500	411
	825	130	170	200	230	270	-		1500 / 1800	493
	988	110	140	170	200	220	260		1800	591
	797	140	170	210	230	-	-	70	1500	411
	956	110	140	170	200	230	-		1500 / 1800	493
	1146	100	120	140	170	200	220		1800	591
1041	110	130	160	180	-	-	80	1500	411	
1249	100	110	130	150	180	-		1500 / 1800	493	
1497	70	100	110	130	150	170		1800	591	

Data

- Rod force: 88 kN
- Stroke: 75 mm
- Mean plunger speed at n2
400 1/min. = 1.00 m/sec
493 1/min. = 1.23 m/sec
591 1/min. = 1.48 m/sec

Certificates

- Machine directive 2006/42/EU
- ATEX 94/9/EU
- API 674 (with deviations)
- TA-Luft
- NORSOK M501
- NORSOK M650
- NACE MR0175

Standards

- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001
- BS OHSAS 18001
- ASME-U
- EAC

** Data refer to the medium water (compressibility considered)

D = Plunger diameter
n1 = Motor/Engine r.p.m.
n2 = Crankshaft r.p.m.



Suze tech .ltd

Phone/whatsapp +86 18969639961

zhejiang china info@kamjet.com www.kamjet.com

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