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ZJ Series Sand and Slurry Pump



ZJ series sand and slurry pump is a new type of anti-abrasion pump, belonging to axial, self-suction, single-stage, single suction, centrifugal slurry pumps. This series of pumps in the hydraulic design, structural design and the use of wear-resistant materials, combines the advantages of similar products at home and abroad as well as self-innovation, featured by high efficiency and energy-saving, small vibration, low noise, reliable operation, long service life and convenient maintenance. The overall performance ranks in the domestic leading level and most of the efficiency indicators in the international advanced level.

The pump can be widely used for transporting slurry with solid particles in the electric power, metallurgy, coal, building materials and other industries, such as hydraulic ash removal in power plant, slurry transportation in metallurgical

concentrator, coal slurry in coal preparation plant and transportation of heavy medium, etc.

The maximum slurry weight concentration(C_w) of ZJ series sand and slurry pump: ash (slag) slurry and coal slurry is 45%; pulp and heavy medium is 60%.

Parameter

Caliber	50-300mm
Maximum flow quantity	2333m ³ /h
Maximum head	133.7m
Speed	300-1480r/min
Power	11-800kw

For details, please refer to the bottom clear water performance table.

Structure drawing of ZJ series slurry pumps

Structural features

1. ZJ series sand and slurry pump: horizontal type

1) Pump head

The pump head of ZJ series pump comprises a pump casing, impeller and shaft sealing device. The pump head and the bracket are connected by bolt fastening. The outlet position of the pump can be rotated to eight different angles at the interval of 45 degrees for installation and use as required.

The pump casing adopts double-shell structure. The outer layer is a metal pump case (including the front and rear pump shells) usually made of HT200 or QT500-7; the inner layer can be manufactured by high chromium alloy cast iron (including the volute, front and rear guard plates), or rubber (including the front and rear volutes).

The impeller consists of front and rear cover plates, blades and back blades. The blades, usually are 3-6 twisted blades. While the number of back blades are usually 8, distributed on the outside of the front and rear cover plates. The impeller(made of high chromium alloy cast iron) and shaft adopt screwed connection.

The shaft sealing device has three forms: auxiliary impeller and packing combination seal, packing seal, mechanical seal.

The auxiliary impeller and packing combination seal form is composed of stuffing box, auxiliary impeller, seal cage, packing, packing gland and shaft sleeve.

The packing seal form consists of stuffing box, spacer sleeve, seal cage, packing, packing gland and shaft sleeve.

The mechanical seal form comprises stuffing box, spacer sleeve, mechanical seal, gland and shaft sleeve.

2) Bracket part

The bracket part has two structures: horizontal split type and cylinder type.

The horizontal split bracket has two types: oil lubrication and grease lubrication. The oil lubrication bracket is mainly composed of bracket body, bracket gland, shaft, bearing box, bearing, bearing gland, nut, grease seal and other parts. 150ZJ and above pumps are also equipped with water cooling unit.

Compared with oil lubrication bracket, the grease lubrication bracket adds the embedded bearing cover and oil cup, and removes water cooling device.

The cylinder bracket adopt grease lubrication, mainly composed of bracket body, bearing body, shaft, bearing, bearing gland, oil seal, oil cup and other parts, which is only suitable for 200ZJ and below pumps with low power.

2. ZJL series sand and slurry pump: vertical type

ZJL series sand and slurry pump is primarily composed of impeller, volute, rear guard plate, shaft sleeve, bracket, support plate, shaft, bearing, bearing body and other parts.

The impeller, volute and guard plate are all made of high chromium alloy cast iron; the impeller and shaft adopt screwed connection, while the volute, bracket and bearing body use bolt fastening.

The pump shaft and motor can use direct drive coupling or belt drive. Use grease lubrication for bearings. This series of pumps has no shaft seal.

Model	Maximum motor power (KW)	Clear water performance					Maximum particle size handled occasionally (mm)	Weight (kg)
		Flow quantity Q(m3/h)	Head H(m)	Speed n(r/min)	Peak efficiency η(%)	Net positive suction head (NPSH)r (m)		
550ZJ-B160	1400	2960-7600	22.0-56.0	250-365	79.5	6.7	130	25902
550D-C160	1400	2720-7870	20.0-52.5	250-365	81.9	7.2	160	22420
500D-A130	1400	2533-6530	21.5-67.4	300-490	85.7	4.7	100	11045
350ZJ-I-F100	560	525-2339	14.9-62.8	300-590	77.6	4.4	96	5470
350ZJ-I-C104	560	1335-3300.6	36.6-66.9	490-590	77.6	7.3	150	6750
350ZJ-I-C100	710	834-3502	11.1-60.0	300-593	73	7.4	150	6710
350ZJ-I-A85	710	1025-3741	12.3-62.3	400-742	77.2	10.5	71	4800
350ZJ-I-A80	630	837-3575	8.4-56.4	400-742	75.7	10.5	70	4100
300ZJ-I-A100	450	464-1826	15.3-65.2	300-590	81.1	3	88	4580
300ZJ-I-B100	450	464-1826	15.3-65.2	300-590	76.2	3	112	4580
300ZJ-I-A95	400	441-1735	13.8-58.8	300-590	78.1	3	88	4535
300ZJ-I-A90	560	505-1844	21.2-79.9	400-730	82.8	3.9	85	4565
300ZJ-I-C90	400	604-2392	10.9-50.9	300-590	78.6	3.6	150	5060
300ZJ-I-A85	450	477-1742	18.9-71.3	400-730	79.8	3.8	85	4525
300ZJ-I-A70	630	635-2333	16.0-76.8	490-980	80.4	3.9	92	3274
300ZJ-I-A65	500	589-2166	13.8-66.2	490-980	77.4	3.7	92	3245
300ZJ-I-A56	250	395-1568	9.7-46.0	400-980	80.9	3.5	96	2340
250ZJ-I-A103	560	402-1573	29.7-110.5	400-730	74.5	2.8	69	5230
250ZJ-I-A96	560	403-1466	25.4-93.7	400-730	77.8	3.5	69	4200
250ZJ-I-A90	450	378-1374	22.3-82.4	400-730	73.8	3.4	69	4145
250ZJ-I-A85	800	376-1504	30.1-128.7	490-980	76.5	3.5	76	4100
250ZJ-I-A83	800	367-1469	28.7-122.7	490-980	75.5	3.5	76	4085
250ZJ-I-A80	710	354-1416	26.7-114.0	490-980	73.5	3.4	76	4060
250ZJ-I-C80	450	451-1790	7.4-38.3	300-592	75.1	3.3	120	4832
250ZJ-I-A78	630	415-1796	21.1-102.5	490-980	71.5	3.2	76	4045
250ZJ-I-A75	560	300-1480	20.8-97.5	490-980	77.5	3	72	2760
250ZJ-I-A73	500	292-1441	19.7-92.4	490-980	76.5	3	72	2745
250ZJ-I-A70	450	280-1381	18.1-84.9	490-980	74.5	2.9	72	2725
250ZJ-I-A68	450	272-1342	17.1-80.1	490-980	72	2.7	72	2712
250ZJ-I-A65	315	299-1249	15.4-71.0	490-980	76.9	3	72	2520
250ZJ-I-A63	315	290-1211	14.4-66.7	490-980	75.9	3	72	2508
250ZJ-I-A60	280	276-1153	13.1-60.5	490-980	73.9	2.8	72	2490
200ZJ-I-A85	560	221-907	32.0-133.7	490-980	70.5	2.8	54	3844
200ZJ-I-A75	355	225-900	22.8-102.9	490-980	74.1	3	56	2880
200ZJ-I-A73	355	219-876	21.6-97.5	490-980	73.1	3	56	2865
200ZJ-I-A70	315	205-976	19.4-86.4	490-980	75.6	2.8	56	2256
200ZJ-I-A68	315	199-948	18.3-81.5	490-980	74.6	2.8	56	2248
200ZJ-I-A65	250	235-950	16.4-72.0	490-980	79.6	2.5	62	2000
200ZJ-I-A63	250	228-921	15.4-67.6	490-980	78.6	2.5	62	1988
200ZJ-I-A60	185	218-870	13.9-62.0	490-980	83.5	2.5	62	1800
200ZJ-I-A58	185	211-841	13.0-57.9	490-980	82.5	2.5	62	1791
200ZJG-I-B45	132	85-538	10.5-72.9	700-1480	68	10.7	28	2261
150ZJ-I-A71	220	142-552	21.8-93.8	490-980	69.8	2.4	48	2093
150ZJ-I-A70	185	93-401	20.2-91.2	490-980	62.3	2	37	1943
150ZJ-I-A65	200	150-600	17.4-75.7	490-980	70.8	2.5	48	1892
150ZJ-I-A63	185	146-582	16.3-71.1	490-980	69.8	2.5	48	1880
150ZJ-I-A60	160	135-550	14.7-63.5	490-980	75.9	2.5	48	1760
150ZJ-I-A58	132	131-532	13.7-59.3	490-980	74.9	2.5	48	1730
150ZJ-I-C58	160	134-596	12.8-61.0	490-980	69.1	2	75	1825
150ZJ-I-A55	110	124-504	12.3-53.4	490-980	72.9	2.3	48	1810
150ZJ-I-A50	75	115-460	9.5-43.1	490-980	76.8	2.5	48	1198
150ZJ-I-A48	75	111-442	8.7-39.7	490-980	75.8	2.5	48	1185
150ZJG-I-B45	110	105-458	10.9-72.5	700-1480	65.4	7.3	25.6	1063
150ZJ-I-C42	132	142-550	12.1-62.8	700-1480	77.1	2.2	69	1070
100ZJ-I-A50	160	85-360	20.5-100.2	700-1480	69.6	2.5	34	987
100ZJ-I-A46	132	79-331	17.3-84.8	700-1480	67.6	2.3	34	973
100ZJ-I-A42	90	66-275	14.7-70.8	700-1480	71	2.5	35	625
100ZJ-I-B42	90	83-365	12.7-66.8	700-1480	71.6	2.5	40	635
100ZJG-I-B42	75	45-205	12.6-70.7	700-1480	63.2	1.8	18	480
100ZJ-I-A39	75	61-255	12.6-61.0	700-1480	39	2.4	35	615
100ZJ-I-A36	55	61-245	9.7-49.5	700-1480	71.6	2	32	597
100ZJ-I-A33	45	56-225	8.2-41.6	700-1480	69.6	1.8	32	590
80ZJ-I-A52	160	51-242	22.1-109.8	700-1480	56.3	2.1	21	993
80ZJ-I-A42	75	61-204	14.4-70.4	700-1480	66.7	2.5	24	599
80ZJ-I-A39	55	57-189	12.4-60.7	700-1480	64.7	2.4	24	589
80ZJ-I-A36	45	46-190	9.6-51.4	700-1480	67.7	2.5	24	559
80ZJ-I-A33	37	43-174	8.0-43.2	700-1480	65.7	2.3	24	552
65ZJ-I-A30	15	23-79	7.4-34.8	700-1480	63.5	2	19	450
65ZJ-I-A27	11	20-71	6.0-28.2	700-1480	61.5	1.8	19	445
50ZJ-I-A50	90	27-111	22.3-110.7	700-1480	45.1	3	13	941
50ZJ-I-A46	55	23-94	17.9-85.8	700-1480	44.7	1.4	14	657
50ZJ-I-A33	18.5	12-54	7.7-42.5	700-1480	42.1	2.9	13	395
40ZJ-I-A19	15	8.0-34.9	12.8-57.1	1430-2930	58.8	1.3	11	116
40ZJ-I-A17	7.5	4.5-23.4	9.1-44.6	1400-2900	52.4	2.5	11	90

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