

Introduction to Slurry Pump by PRS



Precision Technology

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ZMJ Series Slurry Pumps in Brief

The ZMJ type slurry pump is a high-efficiency, energy-saving, single-stage, single-suction, centrifugal slurry pump. According to the structural form, it is divided into horizontal type (ZXJ series) and vertical type (ZFJ series). Horizontal pumps are divided into various specifications according to outlet diameter: 350mm, 300mm, 250mm, 200mm, 150mm, 100mm, 80mm, 65mm, 50mm, 40mm, etc. Vertical pumps are divided into 250mm, 200mm, 150mm, 100mm, 80mm, etc. according to outlet diameter. 65mm, 50mm, 40mm and other specifications.

This series of slurry pumps has innovations in hydraulic design, structural design, etc. The flow-passing parts are made of self-developed anti-corrosion high-chromium alloy-resistant cast iron. It has high efficiency, energy saving, long service life, light weight, reasonable structure, It has remarkable features such as reliable operation, small vibration, low noise, and easy maintenance. It is suitable for electric power, metallurgy, coal, building materials and other industries. The processing medium is abrasive or corrosive slurry containing solid particles. The solid-liquid mixed concentration mortar is 45% and the slurry is 60%. The medium temperature is ≤60℃. This type of pump Can be used in multiple cascades. This series of slurry pumps has passed ministerial-level new product identification and provincial-level energy-saving certification. It is concluded that the performance of the pumps is at the domestic leading level, and the efficiency indicators of most pumps have reached the international advanced level.

The ZMJ series slurry pump has been listed as a power achievement promotion project of the Ministry of Energy, a selection product promoted by the Ministry of Metallurgy and the Ministry of Coal, and a main selection product of the Planning and Design Institute and Complete Equipment Bureau of the Ministry of Electric Power as the main paving machine selection product for 50~300MW thermal power units.

Type Designation of ZMJ/ZXJ/ZF Slurry Pumps

200ZMJ-I-A60	200ZMJ-I-A60
200ZXJ-I-A60	200ZXJ-I-A60
200ZFJ-I-A60	200ZFJ-I-A60
200	Outlet diameter(mm)
Z	Slurry pump
M	High chromium
X	Rubber
F	Nonmetallic plus silicon carbide
I (II)	I denoted the first stage pump or single stage pump II denoted the second stage pump
A	Numbers of the vanes of impeller

Symbol

Numbers of the vans

A	B	C	D	E	F	G	
5	4	3	2	1	6	7	

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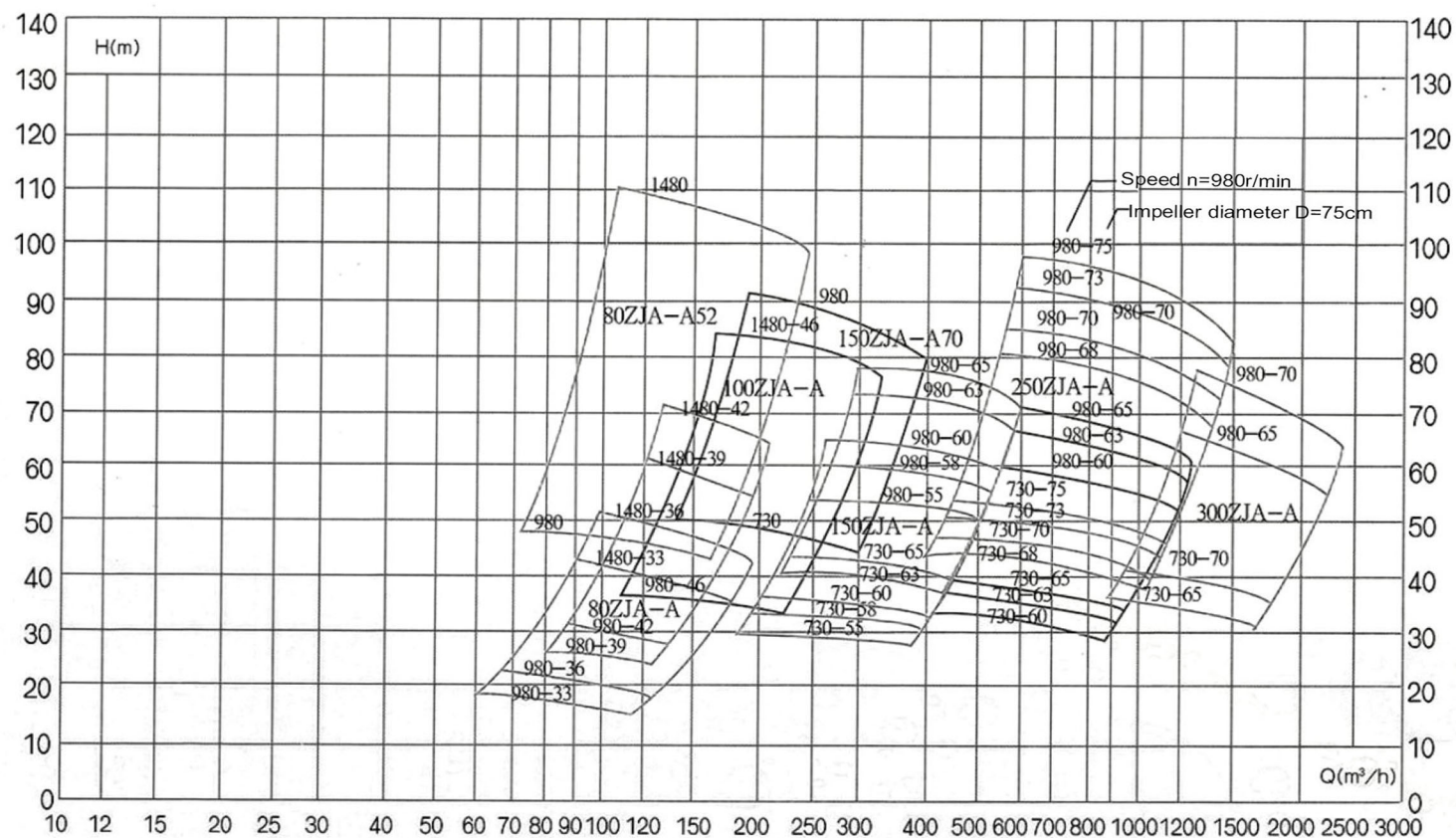
Symbol

Numbers of the vans

A	B	C	D	E	F	G	
5	4	3	2	1	6	7	

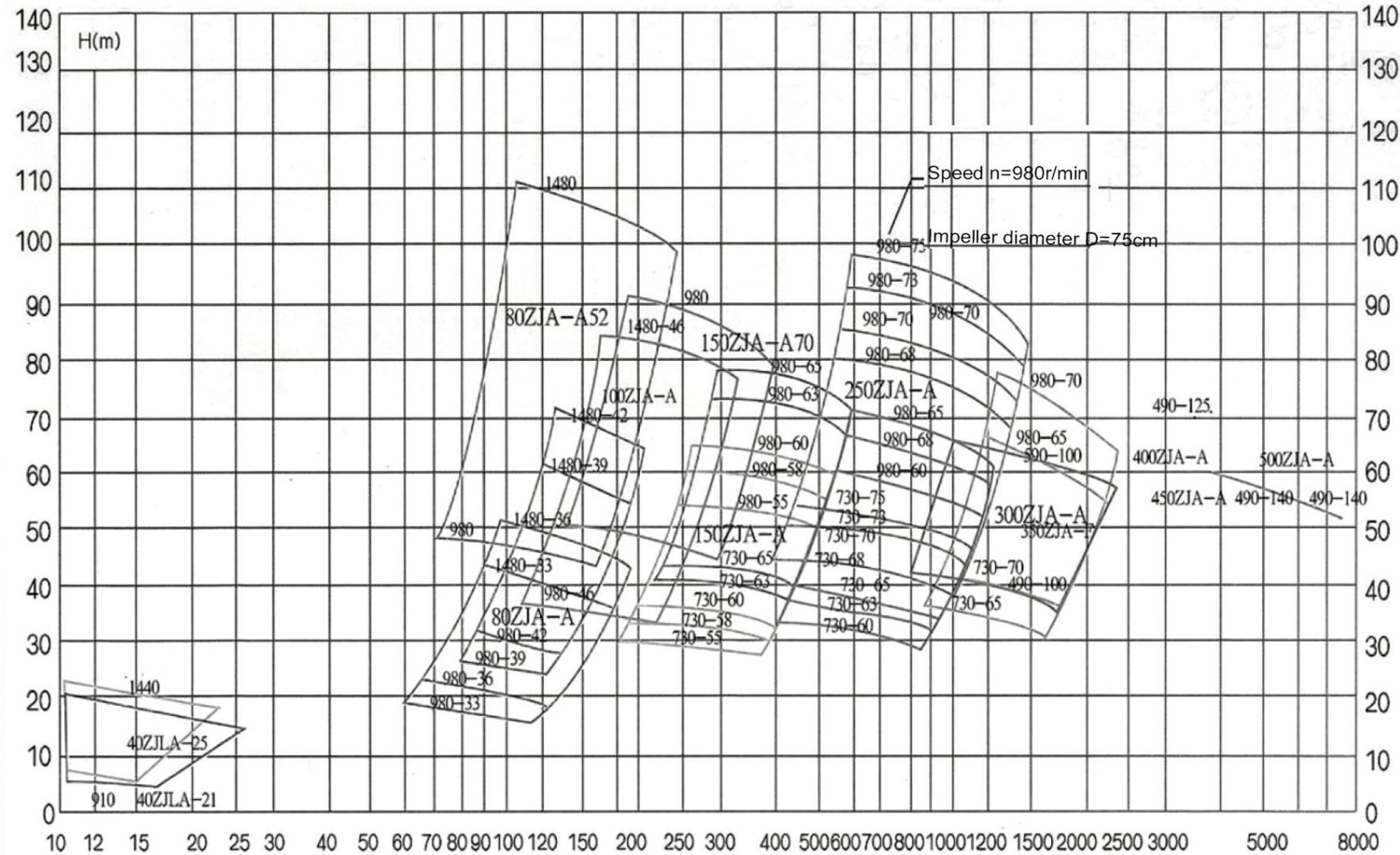
60	External diameter of impeller(cm)
K	Opening model impeller

Graphical Performance of the ZMJ Series Slurry Pumps(1)

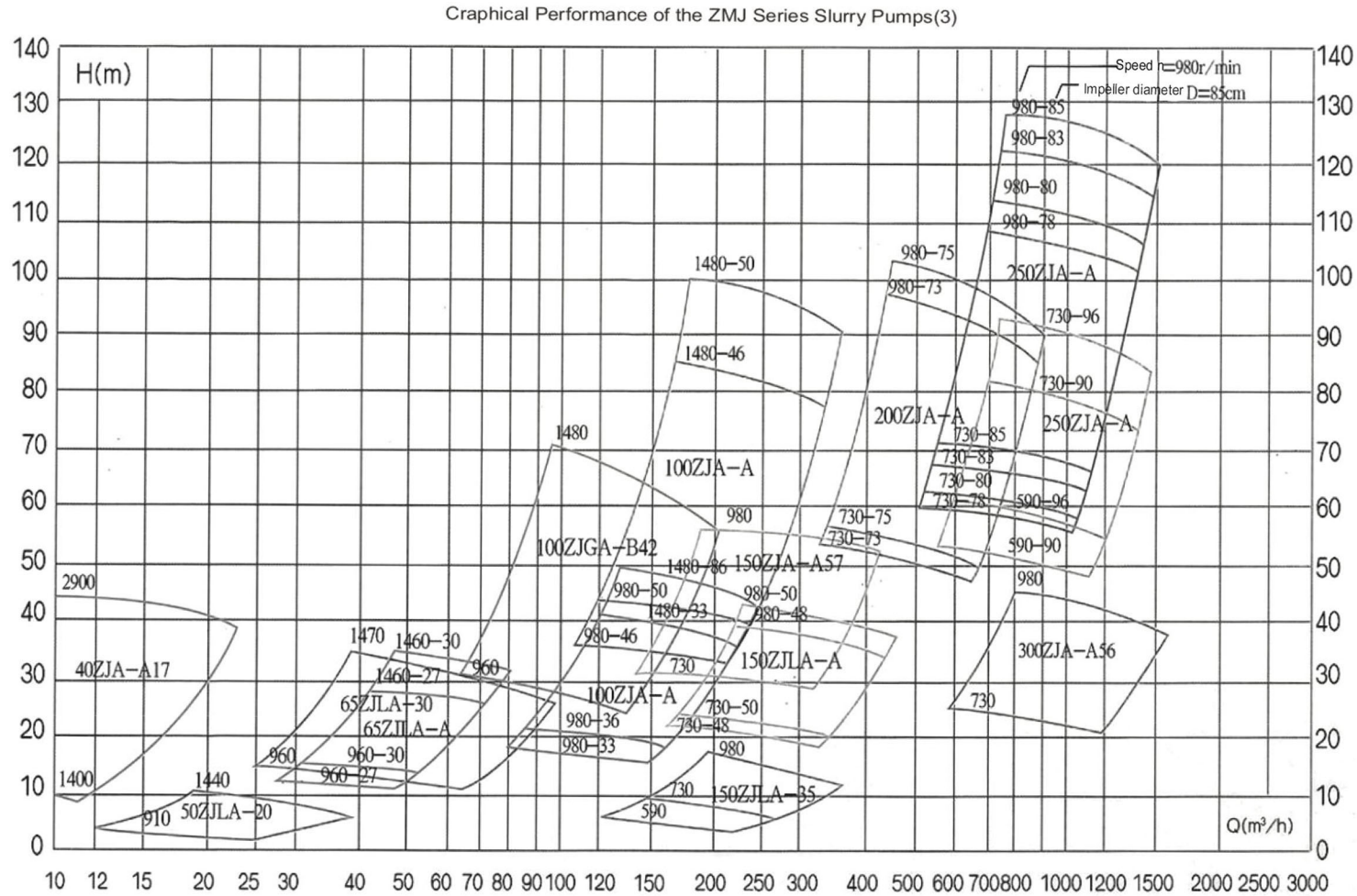


Note: Approximate clear water performance for preliminary pump selection only.

Graphical Performance of the ZMJ Series Slurry Pumps(2)



Note: Approximate clear water performance for preliminary pump selection only.



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Performance and Main Technical Datas of ZMJ Slurry Pumps and Other Pumps (1)

Type	Allowable max power of motor (kw)	Clear water performance					Particle max.size handled occasionally(mm)	Pump weight(kg)
		Capacity (m³/h)	Head (m)	Speed (r/min)	Max.eff. (%)	HPSHr (m)		
500ZMJ-I-A140 500ZMJ-I-AK140	1200	3750-7960	49-55.2	200-490	82	5-10	120	19100
450ZMJ-I-A140 450ZMJ-I-AK140	1200	3310-6610	52-57	200-490	85	5-10	120	18864
400ZMJ-I-A125 400ZMJ-I-AK125	1200	2520-5040	48-66	200-500	80	4.5-9	110	14432
350ZMJ-I-F100	560	526-2339	14.9-62.8	300-590	77.6	4.4	96	5465
300ZMJ-I-A100 300ZMJ-I-AK100	450	464-1826	15.3-65.2	300-590	81.1	3.0	88	5265
300ZMJ-I-A95 300ZMJ-I-AK95	400	441-1735	13.8-58.8	300-590	78.1	3.0	88	5220
300ZMJ-I-A90 300ZMJ-I-AK90	560	505-1844	21.2-79.9	400-730	82.8	3.9	85	5005
300ZMJ-I-A85 300ZMJ-I-AK85	450	477-1742	18.9-71.3	400-730	79.8	3.8	85	4965
300ZMJ-I-A70 300ZMJ-I-AK70	630	635-2333	16.0-76.8	490-980	80.4	3.9	92	3560
300ZMJ-I-A65 300ZMJ-I-AK65	500	589-2166	13.8-66.2	490-980	77.4	3.7	92	3531
300ZMJ-I-A56 300ZMJ-I-AK56	250	395-1568	9.7-46.0	490-980	80.9	3.5	96	3030
250ZMJ-I-A103 250ZMJ-I-AK103	560	402-1573	29.7-110.5	400-730	74.5	2.8	69	5085
250ZMJ-I-A96 250ZMJ-I-AK96	560	403-1466	25.4-93.7	400-730	77.8	3.5	69	5200
250ZMJ-I-A90 250ZMJ-I-AK90	450	378-1374	22.3-82.4	400-730	73.8	3.4	69	5035
250ZMJ-I-A85 250ZMJ-I-AK85	800	376-1504	30.1-128.7	490-980	76.5	3.5	96	4530
250ZMJ-I-A83 250ZMJ-I-AK83	800	367-1469	28.7-122.7	490-980	75.5	3.5	76	4514
250ZMJ-I-A80 250ZMJ-I-AK80	710	354-1416	26.7-114.0	490-980	73.5	3.4	76	4490
250ZMJ-I-A78 250ZMJ-I-AK78	630	345-1380	25.4-108.4	490-980	71.5	3.2	76	4474
250ZMJ-I-A75 250ZMJ-I-AK75	560	300-1480	20.8-97.5	490-980	77.5	3.0	72	3480
250ZMJ-I-A73 250ZMJ-I-AK73	500	292-1441	19.7-92.4	490-980	76.5	3.0	72	3466
250ZMJ-I-A70 250ZMJ-I-AK70	450	280-1381	18.1-84.9	490-980	74.5	2.9	72	3446
250ZMJ-I-A68 250ZMJ-I-AK68	450	272-1342	17.1-80.1	490-980	73.5	2.7	72	3432

Performance and Main Technical Datas of ZMJ Slurry Pumps and Other Pumps (2)

Type	Allowable max power of motor (kw)	Clear water performance					Particle max.size handled occasionally(mm)	Pump weight(kg)
		Capacity (m³/h)	Head (m)	Speed (r/min)	Max. eff. (%)	HPSHr (m)		
250ZMJ-I-A65 250ZMJ-I-AK65	315	299-1249	15.4-71.0	490-980	76.9	3.0	72	3020
250ZMJ-I-A63 250ZMJ-I-AK63	315	290-1211	14.4-66.7	490-980	75.9	3.0	72	3008
250ZMJ-I-A60 250ZMJ-I-AK60	280	276-1153	13.1-60.5	490-980	73.9	2.8	72	2991
200ZMJ-I-A85 200ZMJ-I-AK85	560	221-907	32.0-133.7	490-980	70.5	2.8	54	4110
200ZMJ-I-A75 200ZMJ-I-AK75	355	225-900	22.8-102.9	490-980	74.1	3.0	56	3070
200ZMJ-I-A73 200ZMJ-I-AK73	355	219-876	21.6-97.5	490-980	73.1	3.0	56	3056
200ZMJ-I-A70 200ZMJ-I-AK70	315	205-976	19.4-86.4	490-980	75.6	2.8	56	2465
200ZMJ-I-A68 200ZMJ-I-AK68	315	199-948	18.3-81.5	490-980	74.6	2.8	56	2453
200ZMJ-I-A65 200ZMJ-I-AK65	250	235-950	16.4-72.0	490-980	79.6	2.5	62	2323
200ZMJ-I-A63 200ZMJ-I-AK63	250	228-921	15.4-67.6	490-980	78.6	2.5	62	2311
200ZMJ-I-A60 200ZMJ-I-AK60	185	218-870	13.9-62.0	490-980	83.5	2.5	62	2223
200ZMJ-I-A58 200ZMJ-I-AK58	185	211-841	13.0-57.9	490-980	82.5	2.5	62	2214
200ZMJ-I-A50 200ZMJ-I-AK50	185	180-648	11-34.4	490-980	82.7	2.5	55	2013
150ZMJ-I-A71 150ZMJ-I-AK71	220	142-552	21.8-93.8	490-980	69.8	2.4	48	2263
150ZMJ-I-A70 150ZMJ-I-AK70	185	93-401	20.0-91.2	490-980	62.3	2.0	37	2245
150ZMJ-I-A65 150ZMJ-I-AK65	200	150-600	17.4-75.7	490-980	70.8	2.5	48	2223
150ZMJ-I-A63 150ZMJ-I-AK63	185	146-582	16.3-71.1	490-980	69.8	2.5	48	2211
150ZMJ-I-A60 150ZMJ-I-AK60	160	135-550	14.7-63.5	490-980	75.9	2.5	48	2203
150ZMJ-I-A58 150ZMJ-I-AK58	132	131-532	13.7-59.3	490-980	74.9	2.5	48	2033
150ZMJ-I-C58	160	134-596	12.8-61.0	490-980	69.1	2.0	75	2063
150ZMJ-I-A57 150ZMJ-I-AK57	110	95-427	13.2-56.3	490-980	67.8	1.8	32	2023
150ZMJ-I-A55 150ZMJ-I-AK55	110	124-504	12.3-53.4	490-980	72.9	2.3	48	2019

Performance and Main Technical Datas of ZMJ Slurry Pumps and Other Pumps (3)

Type	Allowable max power of motor (kw)	Clear water performance					Particle max.size handled occasionally(mm)	Pump weight(kg)
		Capacity (m³/h)	Head (m)	Speed (r/min)	Max. eff. (%)	HPSHr (m)		
150ZMJ-I-A50 150ZMJ-I-AK50	75	115-460	9.5-43.1	490-980	76.8	2.5	48	1735(1468)
150ZMJ-I-A48 150ZMJ-I-AK48	75	111-442	8.7-39.7	490-980	75.8	2.5	48	1728(1641)
150ZMJ-I-C42	132	142-550	12.1-62.8	700-1480	77.1	2.2	69	1605(1518)
100ZMJ-I-A60	315	103-380	55-176	700-1480	55.1	3.0	30	1575(1503)
100ZMJ-I-A50 100ZMJ-I-AK50	160	85-360	20.5-100.2	700-1480	69.6	2.5	34	1475(1388)
100ZMJ-I-A46 100ZMJ-I-AK46	132	79-331	17.3-84.8	700-1480	67.6	2.3	34	1461(1374)
100ZMJ-I-A42 100ZMJ-I-AK42	90	66-275	14.7-70.8	700-1480	71.0	2.5	35	1075(1021)
100ZMJ-I-B42	90	83-365	12.7-66.8	700-1480	71.6	2.5	40	1085(1031)
100ZMJ-I-A39 100ZMJ-I-AK39	75	61-255	12.6-61.0	700-1480	69.0	2.4	35	1064(1010)
100ZMJ-I-A36 100ZMJ-I-AK36	55	61-245	9.7-49.5	700-1480	71.6	2.0	32	1010(956)
100ZMJ-I-A33 100ZMJ-I-AK33	45	56-225	8.2-41.6	700-1480	69.6	1.8	32	1003(949)
80ZMJ-I-A52 80ZMJ-I-AK52	160	51-242	22.1-109.8	700-1480	56.3	2.1	21	1465(1378)
80ZMJ-I-A42 80ZMJ-I-AK42	75	61-204	14.4-70.4	700-1480	66.7	2.5	24	1053(963)
80ZMJ-I-A39 80ZMJ-I-AK39	55	57-189	12.4-60.7	700-1480	64.7	2.4	24	1042(952)
80ZMJ-I-A36 80ZMJ-I-AK36	45	46-190	9.6-51.4	700-1480	67.7	2.5	24	980(926)
80ZMJ-I-A33 80ZMJ-I-AK33	37	43-174	8.0-43.2	700-1480	65.7	2.3	24	973(919)
65ZMJ-I-A30 65ZMJ-I-AK30	15	23-79	7.4-34.8	700-1480	63.5	2.0	19	504(512)
65ZMJ-I-A27 65ZMJ-I-AK27	11	20-71	6.0-28.2	700-1480	61.5	1.8	19	500(508)
50ZMJ-I-A50 50ZMJ-I-AK50	90	27-111	22.3-110.7	700-1480	45.1	3.0	13	1378
50ZMJ-I-A46 50ZMJ-I-AK46	55	23-94	17.9-85.8	700-1480	44.7	1.4	13	1082(992)
50ZMJ-I-A33 50ZMJ-I-AK33	18.5	12-54	7.7-42.5	700-1480	42.1	2.9	13	537(545)
40ZMJ-I-A19 40ZMJ-I-AK19	15	8-35	12.8-57.1	1430-2930	58.8	1.3	11	173

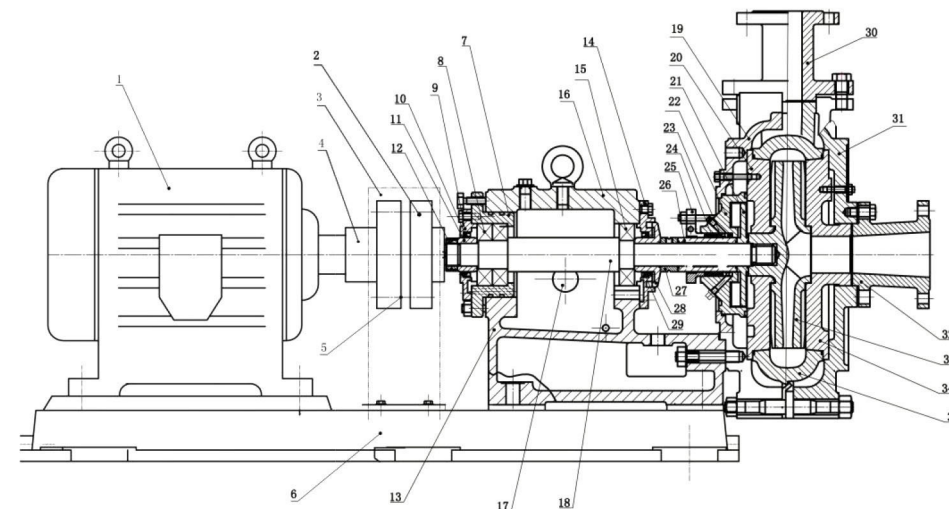
Performance and Main Technical Datas of ZMJ Slurry Pumps and Other Pumps (4)

Type	Allowable max power of motor (kw)	Clear water performance					Particle max size handled occasionally(mm)	Pump weight(kg)
		Capacity (m ³ /h)	Head (m)	Speed (r/min)	Max. eff. (%)	HPSHr (m)		
40ZMJ-I-A17 40ZMJ-I-AK17	7.5	4-23	9.0-44.6	1400-2900	52.4	2.5	11	121(127)
250ZMJ-65	185	200-1211	11-33.1	730	68	/	30	4240
200ZMJ-60	185	180-630	7.2-54.7	730-980	73	/	26	3330
150ZMJ-50	55	121-350	12.3-24	590-730	75	/	20	1200
150ZMJ-35	37	99-364	3.0-17.9	490-980	69.0	/	15	800
100ZMJ-34	45	74-293	5.5-36.8	700-1480	65.1	/	10	630
80ZMJ-36	45	50-201	7.3-45.5	700-1480	58.2	/	10	65
65ZMJ-30	18.5	18-98	5.9-34.7	700-1470	53.7	/	8	440
50ZMJ-20	4	8-38	1.4-10.7	700-1440	38.6	/	10	24
40ZMJ-B25	4	4.9-22.9	4.0-21.5	700-1440	37.6	/	8	225
40ZMJ-A21	4	4.6-25.9	3.3-17.0	700-1440	44.6	/	10	210

Note:

- 1.(NPSH) r means the stall speed of the sampe, the second is the value of the specrfied point.
2. The normal size by 56% to allow for the maximum size of the intermittent pass.
3. The weight of the pump column, there is a commonbase for the two values of the pump. Among them Outside the brackets for high-speed data pump weight parameters, with brackets for the low speed pump weight.

Structure Drawing of Type ZMJ Slurry Pump



- | | | | |
|---------------------|--------------------------|---------------------------|----------------------|
| 1. Motor | 11. Spacer Sleeve | 21. One Pair of Impellers | 31. Pump Casing |
| 2. Pump | 12. Nut | 22. Stuffing Box | 32. Water Absorption |
| 3. Coupling Guard | 13. Bracket Body | 23. Seal Ring | Short Tube |
| 4. ITU | 14. Front Bearing Cap | 24. Filler | 33. Impeller |
| 5. Pin | 15. Front Bearing | 25. Packing Gland | 34. Guard Plate |
| 6. Base | 16. Tray Cover | 26. Sleeve | 35. Volute |
| 7. Bearing Box | 17. Oil Standard | 27. Demolition Rings | |
| 8. Rear Bearing | 18. Axis | 28. Drip Ring | |
| 9. Rear Bearing Cap | 19. After Pump Shell | 29. Oil Seals | |
| 10. Oil Seals | 20. Rear Retaining Plate | 30. Outlet Tube | |

Structure Features of Type ZMJ Slurry Pump

Pump Design:

- ◇ Uses of double metal casings;
- ◇ Casing centrally split in vertical direction;
- ◇ Discharge port can be positioned at 8 different positions at an interval of 45°

Bearing Lubrication:

Depenjing on design of bearing housings;

- ◇ Oil for box type;
- ◇ Greast for column type;
- ◇ Oil or grease for box type wity inserted

Cover.

Shaft Seal Form

- ◆ Auxiliary impeller shaft seal: Applicable to single-stage pumps and first-stage pumps used in series. Normal pressure clean water or grease is used to lubricate the packing for its parking seal.
- ◆ Stuffing seal: Applicable to second-stage pumps used in series and above pumps, which require shaft seal water.
- ◆ Mechanical seal: Applicable to working conditions where leakage is not allowed.

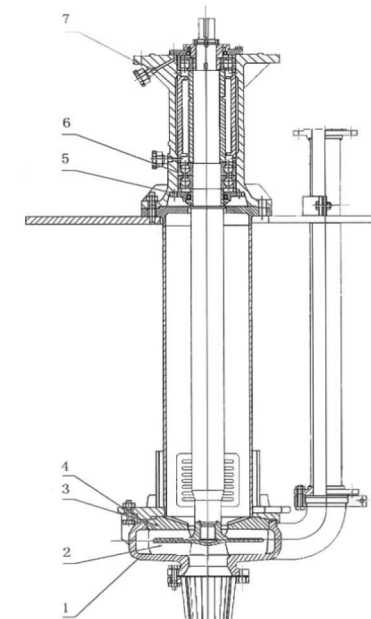
Impeller Type

- ◆ Closed impeller: The impeller is closed, with good abrasion resistance and improved pump efficiency.
- ◆ Semi-open impeller: The impeller has a large flow capacity. When conveying materials that are prone to scarring, it does not need to be cleaned frequently, making the cleaning work relatively easier.

Structure Features of Type LYJ Slurry Pump

LYJ type slurry pump structural features:

- ◆ Single-layer shell, metal structure.
- ◆ Direct or belt drive.
- ◆ Grease lubrication of rolling bearings.



Fin.3 Structure Drawing of Type LYJ Slurry Pump

1.Volute Casing
2.Impeller

3.Rear Liner
4.Sealin Ring

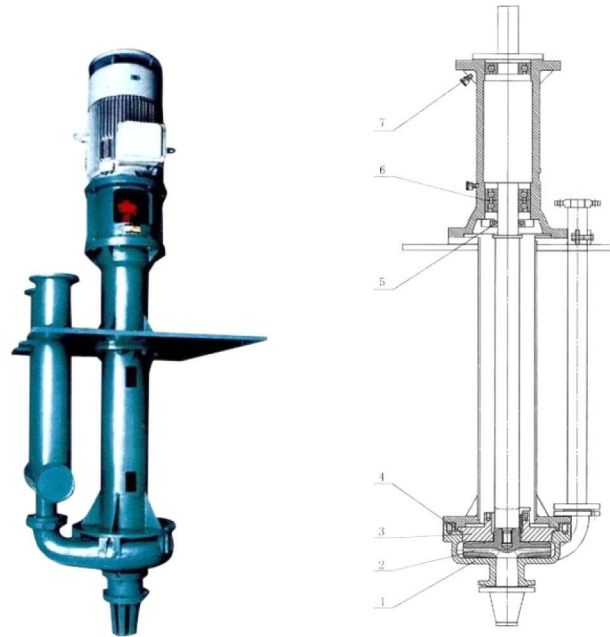
5.Oil Sealing
6.Bearing

7.Oil Cup

General assembly drawing of Type LYJ Slurry Pump

LYJ Type Slurry Pump Structural Features:

- ◆ Single-layer shell, metal structure.
- ◆ Direct or belt drive.
- ◆ Grease lubrication of rolling bearings.
- ◆ Closed impeller, can increase the suction height.



Fin.4 Structure Drawing of Type LYJ Slurry Pump

- | | | | |
|------------------|-----------------|-------------|------------|
| 1. Volute casing | 3. Rear liner | 5. Oil seal | 7. Oil cup |
| 2. Impeller | 4. Sealing ring | 6. Bearing | |

The Clear Eater Performace of ZMJ Slurry Pumps (Directly-Coupled Type) (1)

Type	Speed r/min	Capacity m ³ /h	Head m	Power of shaft Pa kw	Eff. η %	(HPSH)r m	Motors	
							Type	Power/Voltage kw/v
500ZMJ-I-A140 500ZMJ-I-AK140	490	3750 6120 7960	55.2 51 49	817 1046.8 1295.4	69 81.2 82	8.0	Y630-12 Y630-12 Y630-12	1000 1200 1400
450ZMJ-I-A140 450ZMJ-I-AK140	490	3310 5500 6610	57 54.5 52	713.6 968 1101	72 84.3 85	7.1	Y560-12 Y630-12 Y630-12	900 1000 1200
400ZMJ-I-A125 400ZMJ-I-AK125	490	2520 4200 5040	66 54 48	707.7 777.9 823.5	64 79.4 80	6.5	Y630-12 Y630-12 Y630-12	900 900 1000
350ZMJ-I-F100	590	1035 1988 2339	62.8 59.4 55.0	293.1 417.6 455.6	60.4 77.0 76.9	5.8	Y450-10 Y500-10 Y500-10	355/6000 500/6000 560/6000
		860 1651 1943	43.3 41.0 37.9	167.9 239.4 260.8	60.4 77.0 76.9	4.4	Y450-12 Y500-12 Y500-12	220/6000 315/6000 315/6000
		913 1785 1826	65.2 59.7 59.3	243.0 361.0 365.4	66.7 80.4 80.7	4.1	Y450-10 Y500-10 Y500-10	315/6000 450/6000 450/6000
300ZMJ-I-A100 300ZMJ-I-AK100	490	758 1482 1517	45.0 41.2 40.9	139.3 206.8 209.4	66.7 80.4 80.7	3.0	Y450-12 Y450-12 Y450-12	185/6000 250/6000 250/6000
		867 1696 1735	58.8 53.9 53.5	217.9 321.6 325.3	63.7 77.4 77.7	4.1	Y450-10 Y500-10 Y500-10	280/6000 400/6000 400/6000
		720 1408 1441	40.6 37.2 36.9	125.0 184.3 186.4	63.7 77.4 77.7	3.0	Y450-12 Y450-12 Y450-12	185/6000 220/6000 220/6000
300ZMJ-I-A95 300ZMJ-I-AK95	490	922 1648 1844	79.9 73.6 70.7	290.3 410.3 436.2	69.1 80.5 81.4	5.7	Y450-8 Y500-8 Y500-8	355/6000 500/6000 560/6000
		745 1332 1490	52.5 48.1 46.2	153.3 216.7 230.3	69.1 80.5 81.4	3.9	Y450-10 Y450-10 Y450-10	182/6000 280/6000 280/6000
		871 1556 1742	71.3 65.6 63.1	255.9 358.7 381.8	66.1 77.5 78.4	5.6	Y450-8 Y450-8 Y450-8	315/6000 450/6000 450/6000
300ZMJ-I-A85 300ZMJ-I-AK85	590	704 1258 1408	46.6 42.9 41.2	135.2 189.6 201.5	66.1 77.5 78.4	3.8	Y355L2-10 Y450-10 Y450-10	160/380 220/6000 250/6000
		1269 2118 2333	76.8 66.7 64.0	368.6 480.9 505.8	72.0 80.0 80.4	7.0	Y450-6 Y450-6 Y450-6	450/6000 630/6000 630/6000
		945 1578 1738	42.6 37.0 35.5	152.3 198.8 209.0	72.0 80.0 80.4	3.9	Y355L1-8 Y400-8 Y400-8	185/380 250/6000 250/6000
300ZMJ-I-A70 300ZMJ-I-AK70	730	1178 1967 2166	66.2 57.5 55.2	307.8 400.0 420.7	69.0 77.0 77.4	6.6	Y450-6 Y450-6 Y450-6	400/6000 500/6000 500/6000
		877 1465 1614	36.7 31.9 30.6	127.0 165.3 173.8	69.0 77.0 77.4	3.7	Y355M2-8 Y355L2-8 Y400-8	160/380 200/380 220/6000

Note: The efficiency refers to the value when packing shaft seal is used.

The Clear Eater Performance of ZMJ Slurry Pumps (Directly-Coupled Type) (2)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	(HPSH)r	Motors	
							Type	Power/Voltage
							m	kw/v
300ZMJ-I-A56 300ZMJ-I-AK56	980	789	46.0	148.6	66.5	5.5	Y355M2-6	185/380
		1415	40.8	195.6	80.4		Y355L2-6	250/380
		1568	38.8	204.8	80.9		Y355L2-6	250/380
	730	588	25.5	61.4	66.5	3.5	Y315M-8	75/380
		1054	22.6	80.7	80.4		Y315L2-8	110/380
		1168	21.5	84.5	80.9		Y315L2-8	110/380
250ZMJ-I-A103 250ZMJ-I-AK103	730	734	110.5	366.3	60.3	4.3	Y450-8	450/6000
		1067	106.7	455.5	69.6		Y500-8	560/6000
		1573	98.8	568.7	74.5		Y500-8	710/6000
	590	593	72.2	193.1	60.3	2.8	Y450-10	250/6000
		862	69.7	235.1	69.6		Y450-10	280/6000
		1271	64.6	300.1	74.5		Y450-10	355/6000
250ZMJ-I-A96 250ZMJ-I-AK96	730	736	93.7	290.7	64.6	5.5	Y450-8	355/6000
		1076	90.0	356.4	74.0		Y450-8	450/6000
		1466	84.5	433.6	77.8		Y500-8	560/6000
	590	595	61.2	153.5	64.6	3.5	Y450-10	185/6000
		870	58.8	188.3	74.0		Y450-10	250/6000
		1185	55.2	229.0	77.8		Y450-10	280/6000
250ZMJ-I-A90 250ZMJ-I-AK90	730	690	82.4	255.5	60.6	5.3	Y450-8	315/6000
		1009	79.1	310.5	70.0		Y450-8	400/6000
		1374	74.3	376.7	73.8		Y450-8	450/6000
	590	558	53.8	134.9	60.6	3.4	Y355L2-10	160/380
		816	51.7	164.1	70.0		Y450-10	200/6000
		1111	48.5	198.8	73.8		Y450-10	250/6000
250ZMJ-I-A85 250ZMJ-I-AK85	980	752	128.7	446.0	59.1	5.5	Y450-6	560/6000
		1248	124.4	587.2	72.0		Y500-6	710/6000
		1504	120.4	652.3	75.6		Y500-6	800/6000
	730	560	71.4	184.2	59.1	3.5	Y400-8	220/6000
		930	69.0	242.7	72.0		Y450-8	315/6000
		1120	66.8	269.5	75.6		Y450-8	315/6000
250ZMJ-I-A83 250ZMJ-I-AK83	980	734	122.7	422.1	58.1	5.5	Y450-6	500/6000
		1219	118.6	554.5	71.0		Y500-6	710/6000
		1469	114.8	615.6	74.6		Y500-6	800/6000
	730	547	68.1	174.6	58.1	3.5	Y400-8	220/6000
		908	65.8	229.2	71.0		Y400-8	280/6000
		1094	63.7	254.4	74.6		Y450-8	315/6000
250ZMJ-I-A80 250ZMJ-I-AK80	980	708	114.0	391.8	56.1	5.4	Y450-6	500/6000
		1175	110.2	511.1	69.0		Y450-6	630/6000
		1416	106.7	566.7	72.6		Y500-6	710/6000
	730	527	63.2	161.7	56.1	3.4	Y400-8	200/6000
		875	61.1	211.0	69.0		Y400-8	280/6000
		1054	59.2	234.1	72.6		Y400-8	280/6000
250ZMJ-I-A78 250ZMJ-I-AK78	980	830	102.5	374.9	61.6	6.3	Y450-6	450/6000
		1430	92.1	500.9	71.6		Y450-6	560/6000
		1796	84.2	559.5	73.6		Y450-6	630/6000
	730	618	56.9	155.0	61.8	3.2	Y355L1-8	185/6000
		1065	51.1	207.0	71.6		Y400-8	250/6000
		1338	46.7	231.2	73.6		Y400-8	280/6000
250ZMJ-I-A75 250ZMJ-I-AK75	980	600	97.5	255.7	62.3	4.1	Y400-6	315/6000
		1100	92.0	362.6	76.0		Y450-6	450/6000
		1480	83.2	443.6	75.6		Y450-6	560/6000
	730	447	54.1	105.7	62.3	3.0	Y355M1-8	132/380
		819	51.0	149.7	76.0		Y355L1-8	185/380
		1102	46.2	183.4	75.6		Y400-8	220/6000

Note:The efficiency refers to the value when packing shaft seal is used.

The Clear Eater Performance of ZMJ Slurry Pumps (Directly-Coupled Type) (3)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	(HPSH)r	Motors	
							Type	Power/Voltage
							m	kw/v
250ZMJ-I-A73 250ZMJ-I-AK73	980	584	92.4	239.7	61.3	4.1	Y400-6	280/6000
		1071	87.2	339.1	75.0		Y400-6	400/6000
		1441	78.8	414.5	74.6		Y450-6	500/6000
	730	435	51.3	99.1	61.3	3.0	Y355M1-8	132/380
		797	48.3	139.8	75.0		Y355L1-8	185/380
		1073	43.8	171.6	74.6		Y355L2-8	200/380
250ZMJ-I-A70 250ZMJ-I-AK70	980	560	84.9	218.3	59.3	3.9	Y400-6	280/6000
		1027	80.1	306.9	73.0		Y400-6	400/6000
		1381	72.5	375.6	72.6		Y450-6	450/6000
	730	417	47.1	90.2	59.6	2.9	Y315L2-8	110/380
		764	44.4	126.5	73.0		Y355M2-8	160/380
		1029	40.2	155.2	72.6		Y355L1-8	185/380
250ZMJ-I-A68 250ZMJ-I-AK68	980	544	80.1	203.5	58.3	3.7	Y355-6	250/6000
		997	75.6	285.1	72.0		Y400-6	355/6000
		1342	68.4	349.1	71.6		Y450-6	450/6000
	730	405	44.5	84.2	58.3	2.7	Y315L2-8	110/380
		743	41.9	117.8	72.0		Y355M2-8	160/380
		999	38.0	144.4	71.6		Y355L1-8	185/380
250ZMJ-I-A65 250ZMJ-I-AK65	980	597	71.0	178.1	64.8	4.5	Y355-6	220/6000
		970	66.2	233.2	75.0		Y400-6	280/6000
		1249	61.4	271.6	76.9		Y400-6	315/6000
	730	445	39.4	73.7	64.8	3.0	Y315L1-8	90/380
		723	36.7	96.3	75.0		Y355M1-8	132/380
		930	34.1	112.3	76.9		Y355M1-8	132/380
250ZMJ-I-A63 250ZMJ-I-AK63	980	579	66.7	164.8	63.8	4.5	Y355-6	200/6000
		940	62.2	215.2	74.0		Y355-6	250/6000
		1211	57.7	250.7	75.9		Y400-6	315/6000
	730	431	37.0	68.1	63.8	3.0	Y315L1-8	90/380
		701	34.5	89.0	74.0		Y315L2-8	110/380
		901	32.0	103.4	75.9		Y355M1-8	132/380
250ZMJ-I-A60 250ZMJ-I-AK60	980	551	60.5	146.9	61.8	4.2	Y355M2-6	185/380
		895	56.4	190.9	72.0		Y355L2-8	250/380
		1153	52.3	222.2	73.9		Y400-6	280/6000
	730	411	33.6	60.7	61.8	2.8	Y315M-8	75/380
		667	31.3	79.0	72.0		Y315L2-8	110/380
		858	29.1	92.0	73.9		Y315L2-8	110/380
200ZMJ-I-A85 200ZMJ-I-AK85	980	441	133.7	321.1	50.0	5.0	Y400-6	400/6000
		858	128.2	437.9	68.4		Y450-6	560/6000
		907	127.9	448.1	70.5		Y450-6	560/6000
	730	329	74.2	133.0	50.0	2.8	Y355M2-8	160/380
		639	71.1	180.9	68.4		Y400-8	220/6000
		676	71.0	185.4	70.5		Y400-8	220/6000
200ZMJ-I-A75 200ZMJ-I-AK75	980	450	102.9	205.4	61.4	4.5	Y355-6	250/6000
		750	95.7	271.5	72.0		Y400-6	355/6000
		900	91.0	306.4	72.8		Y400-6	355/6000
	730	335	57.1	84.8	61.4	3.0	Y315L2-8	110/380
		559	53.1	112.3	72.0		Y355M1-8	132/380
		670	50.5	126.6	72.8		Y355M2-8	160/380
200ZMJ-I-A73 200ZMJ-I-AK73	980	438	97.5	192.5	60.4	4.5	Y355-6	250/6000
		730	90.7	254.0	71.0		Y400-6	315/6000
		876	86.2	286.4	71.8		Y400-6	355/6000
	730	326	54.1	79.5	60.4	3.0	Y315L2-8	110/380
		544	50.3	105.0	71.0		Y355M1-8	132/380
		652	47.8	118.2	71.8		Y355M2-8	160/380

Note:The efficiency refers to the value when packing shaft seal is used.

The Clear Eater Performance of ZMJ Slurry Pumps (Directly-Coupled Type) (4)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	(HPSH)r	Motors	
							Type	Power/Voltage
	r/min	m³/h	m	kw	%	m		kw/v
200ZMJ-I-A70 200ZMJ-I-AK70	980	409	86.4	172.5	55.8	3.8	Y355M3-6	200/380
		738	82.3	230.7	71.7		Y400-6	280/6000
		976	77.6	272.8	75.6		Y400-6	315/6000
200ZMJ-I-A68 200ZMJ-I-AK68	980	305	47.9	71.3	55.8	2.8	Y315L1-8	90/380
		550	45.7	95.5	71.7		Y355M1-8	132/380
		727	43.1	112.9	75.6		Y355M2-8	132/380
200ZMJ-I-A65 200ZMJ-I-AK65	980	397	81.5	160.8	54.8	3.8	Y355M3-6	200/380
		717	77.7	214.6	70.7		Y355-6	250/6000
		948	73.2	253.3	74.6		Y400-6	315/6000
200ZMJ-I-A63 200ZMJ-I-AK63	980	296	45.2	66.5	54.8	2.8	Y315L1-8	90/380
		534	43.1	88.7	70.7		Y315L2-8	110/380
		706	40.7	104.9	74.6		Y355M1-8	132/380
200ZMJ-I-A60 200ZMJ-I-AK60	980	470	72.0	145.8	63.2	4.3	Y355M2-6	185/380
		820	68.1	197.5	77.0		Y355-6	250/6000
		950	65.6	213.2	79.6		Y355-6	250/6000
200ZMJ-I-A58 200ZMJ-I-AK58	980	350	40.0	60.3	63.2	2.5	Y315M-8	75/380
		611	37.8	81.7	77.0		Y315L2-8	110/380
		708	36.4	88.2	79.6		Y315L2-8	110/380
200ZMJ-I-A55 200ZMJ-I-AK55	980	456	67.6	135.0	62.2	4.3	Y355M1-6	160/380
		795	64.0	182.3	76.0		Y355-6	220/6000
		921	61.6	196.6	78.6		Y355-6	250/6000
200ZMJ-I-A52 200ZMJ-I-AK52	980	339	37.5	55.7	62.2	2.5	Y315M-8	75/380
		592	35.5	75.3	76.0		Y315L2-8	110/380
		686	34.2	81.3	78.6		Y315L2-8	110/380
200ZMJ-I-A50 200ZMJ-I-AK50	980	435	62.0	114.0	64.4	4.0	Y315L2-6	132/380
		740	58.0	146.1	80.0		Y355M2-6	185/380
		870	55.5	159.0	82.7		Y355M2-6	185/380
200ZMJ-I-A48 200ZMJ-I-AK48	980	324	34.4	47.1	64.4	2.5	Y315M-8	75/380
		551	32.2	60.4	80.0		Y315L1-8	90/380
		648	30.8	65.7	82.7		Y315L1-8	90/380
200ZMJ-I-A45 200ZMJ-I-AK45	980	421	57.9	104.7	63.4	4.0	Y315L2-6	132/380
		715	54.2	133.6	79.0		Y355M1-6	160/380
		841	51.9	145.5	81.7		Y355M2-6	185/380
200ZMJ-I-A42 200ZMJ-I-AK42	980	313	32.1	43.2	63.4	2.5	Y315S-8	55/380
		533	30.1	55.3	79.0		Y315M-8	75/380
		626	28.8	60.1	81.7		Y315M-8	75/380
200ZMJ-I-A40 200ZMJ-I-AK40	980	324	34.4	47.1	64.4	3	Y315S-6	75/380
		551	32.2	60.4	80.0		Y315M-6	90/380
		648	30.8	65.7	82.7		Y315L-6	110/380
200ZMJ-I-A38 200ZMJ-I-AK38	980	244	19.5	20.3	64.0	2.5	Y280S-8	37/380
		414	18.2	25.9	79.1		Y280S-8	37/380
		487	17.4	28.2	82.0		Y280M-8	45/380
200ZMJ-I-A35 200ZMJ-I-AK35	980	284	93.8	133.9	54.2	4.0	Y355M1-6	160/380
		486	89.3	174.3	67.8		Y355L1-6	220/380
		552	87.1	188.4	69.5		Y355L1-6	220/380
200ZMJ-I-A32 200ZMJ-I-AK32	980	212	52.0	55.4	54.2	2.4	Y315M1-8	75/380
		362	49.6	72.1	67.8		Y315M2-8	90/380
		411	48.3	77.8	69.5		Y315M2-8	90/380
200ZMJ-I-A30 200ZMJ-I-AK30	980	186	91.2	95.4	48.4	3.0	Y315L2-6	132/380
		285	87.1	115.8	58.4		Y355M1-6	160/380
		401	79.8	139.9	62.3		Y355M2-6	185/380
200ZMJ-I-A28 200ZMJ-I-AK28	980	139	50.6	39.6	48.4	2.0	Y315S-8	55/380
		212	48.3	47.7	58.4		Y315M-8	75/380
		299	44.3	57.9	62.3		Y315M-8	75/380
200ZMJ-I-A25 200ZMJ-I-AK25	980	300	75.7	112.0	55.2	4.0	Y315L2-6	132/380
		500	73.0	144.1	69.0		Y355M2-6	185/380
		600	69.4	161.5	70.2		Y355M3-6	200/380
200ZMJ-I-A22 200ZMJ-I-AK22	980	223	42.0	46.2	55.2	2.5	Y315M-8	75/380
		372	40.5	59.5	69.0		Y315M-8	75/380
		447	38.5	66.8	70.2		Y315L1-8	90/380

Note: The efficiency refers to the value when packing shaft seal is used.

The Clear Eater Performance of ZMJ Slurry Pumps (Directly-Coupled Type) (5)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	(HPSH)r	Motors	
							Type	Power/Voltage
150ZMJ-I-A63 150ZMJ-I-AK63	980	291	71.1	104.0	54.2	4.0	Y315L2-6	132/380
		485	68.6	133.2	68.0		Y355M1-6	160/380
		582	65.2	149.3	69.2		Y355M2-6	185/380
	730	216	39.5	42.9	54.2	2.5	Y315S-8	55/380
		361	38.0	54.9	68.0		Y315M-8	75/380
		433	36.2	61.7	69.2		Y315M-8	75/380
150ZMJ-I-A60 150ZMJ-I-AK60	980	270	63.5	80.2	58.2	3.8	Y315L1-6	110/380
		470	60.5	107.6	72.0		Y315L2-6	132/380
		550	58.7	117.9	74.6		Y355M1-6	160/380
	730	201	35.2	33.1	58.2	2.5	Y280M-8	45/380
		350	33.6	44.5	72.0		Y315S-8	55/380
		410	32.6	48.8	74.6		Y315M-8	75/380
150ZMJ-I-A58 150ZMJ-I-AK58	980	261	59.3	73.3	57.2	3.8	Y315M-6	90/380
		454	56.5	98.4	71.0		Y315L2-6	132/380
		532	54.9	108.1	73.6		Y315L2-6	132/380
	730	194	32.9	30.4	57.2	2.5	Y280S-8	37/380
		338	31.4	40.7	71.0		Y315S-8	55/380
		396	30.5	44.7	73.6		Y315S-8	55/380
150ZMJ-I-C58	980	268	61.0	78.7	56.6	3.2	Y315L1-6	110/380
		458	56.0	105.5	66.2		Y315L2-6	132/380
		596	51.2	120.3	69.1		Y355M1-6	160/380
	730	200	33.8	32.5	56.6	2.0	Y280M-8	45/380
		341	31.1	43.6	66.2		Y315S-8	55/380
		444	28.4	49.7	69.1		Y315M-8	75/380
150ZMJ-I-A57 150ZMJ-I-AK57	980	190	56.3	63.2	46.1	2.9	Y315M-6	90/380
		301	55.4	77.6	58.5		Y315L1-6	110/380
		427	52.9	92.4	66.6		Y315L1-6	110/380
	730	142	31.2	26.2	46.1	1.8	Y280S-8	37/380
		224	30.7	32.0	58.5		Y280M-8	45/380
		318	28.4	38.2	66.6		Y315S-8	55/380
150ZMJ-I-A55 150ZMJ-I-AK55	980	248	53.4	65.3	55.2	3.5	Y315M-6	90/380
		431	50.8	86.4	69		Y315L1-6	110/380
		504	49.3	94.5	71.6		Y315L1-6	110/380
	730	184	29.6	26.9	55.2	2.3	Y280S-8	37/380
		321	28.2	35.7	69.0		Y280M-8	45/380
		376	27.4	39.2	71.6		Y315S-8	55/380
150ZMJ-I-A50 150ZMJ-I-AK50	980	230	43.1	42.6	63.3	3.0	Y280M-6	55/380
		380	40.0	55.2	75.0		Y315S-6	75/380
		460	37.8	61.7	76.8		Y315S-6	75/380
	730	171	23.9	17.6	63.3	2.5	Y250M-8	30/380
		283	22.2	22.8	75		Y250M-8	30/380
		343	21.0	25.5	76.8		Y280S-8	37/380
150ZMJ-I-A48 150ZMJ-I-AK48	980	221	39.7	38.4	62.3	3.0	Y280M-6	55/380
		365	36.9	49.6	74.0		Y315S-6	75/380
		442	34.8	55.3	75.8		Y315S-6	75/380
	730	164	22.0	15.8	62.3	2.5	Y225M-8	22/380
		272	20.5	20.5	74.0		Y250M-8	30/380
		329	19.4	22.9	75.8		Y250M-8	30/380
150ZMJ-I-C42	1480	300	62.8	80.2	64.0	4.5	Y315S-4	110/380
		450	58.0	96.1	74.0		Y315M-4	132/380
		550	54.3	106.5	76.4		Y315M-4	132/380
	980	199	27.5	23.3	64.0	2.2	Y225M-6	30/380
		298	25.4	27.9	74.0		Y250M-6	37/380
		364	23.8	30.9	76.4		Y280S-6	45/380

The Clear Eater Performance of ZMJ Slurry Pumps (Directly-Coupled Type) (6)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	(HPSH)r	Motors	
							Type	Power/Voltage
							m	kw/v
100ZMJ-I-A60	1480	216	144.2	153.9	55.1	5	Y315L-4	200/380
		360	136.8	230.0	58.3		Y355L-4	280/380
		420	131.9	246.5	61.2		Y400-4	315/380
	980	142.8	52.6	37.2	55.1	2.8	Y280M-6	55/380
		239	50.0	55.9	58.3		Y315S-6	75/380
		287	48.2	61.6	61.2		Y315M-6	90/380
100ZMJ-I-A50 100ZMJ-I-AK50	1480	180	100.2	85.7	57.3	4.5	Y315S-4	110/380
		300	95.0	113.3	68.5		Y315M-4	132/380
		360	91.6	131.7	68.2		Y315L1-4	160/380
	980	119	43.9	24.8	57.3	2.5	Y225M-6	30/380
		199	41.7	33.0	68.5		Y280S-6	45/380
		238	40.2	38.2	68.2		Y280N-6	55/380
100ZMJ-I-A46 100ZMJ-I-AK46	1480	166	84.8	69.3	55.3	4.2	Y280M-4	90/380
		276	80.4	90.9	66.5		Y315S-4	110/380
		331	77.5	105.5	66.2		Y315M-4	132/380
	980	109	37.2	20.0	55.3	2.3	Y225M-6	30/380
		183	35.3	26.5	66.5		Y250M-6	37/380
		219	34.0	30.6	66.2		Y250M-6	37/380
100ZMJ-I-A42 100ZMJ-I-AK42	1480	140	70.8	50.3	53.7	4.0	Y280S-4	75/380
		245	67.0	65.7	68.0		Y280M-4	90/380
		275	65.5	69.7	70.4		Y280M-4	90/380
	980	93	31.0	14.6	53.7	2.5	Y200L2-6	22/380
		162	29.4	19.1	68.0		Y225M-6	30/380
		182	28.7	20.2	70.4		Y225M-6	30/380
100ZMJ-B42	1480	176	66.8	55.7	57.5	5.1	Y280S-4	75/380
		309	60.5	73.3	69.5		Y280M-4	90/380
		365	56.9	79.0	71.6		Y280M-4	90/380
	980	117	29.3	16.2	57.5	2.5	Y200L2-6	22/380
		205	26.5	21.3	69.5		Y225M-6	30/380
		242	24.9	22.9	71.6		Y225M-6	30/380
100ZMJ-I-A39 100ZMJ-I-AK39	1480	130	61.0	41.8	51.7	3.8	Y250M-4	55/380
		228	57.8	54.4	66.0		Y280S-4	75/380
		255	56.5	57.4	68.4		Y280S-4	75/380
	980	86	26.7	12.1	51.7	2.4	Y200L1-6	18.5/380
		150	25.4	15.7	66.0		Y200L2-6	22/380
		169	24.7	16.6	68.4		Y225M-6	30/380
100ZMJ-I-A36 100ZMJ-I-AK36	1480	130	49.5	28.9	60.7	3.5	Y225S-4	37/380
		220	45.0	38.0	71.0		Y250M-4	55/380
		245	43.4	40.4	71.6		Y250M-4	55/380
	980	86	21.7	8.4	60.7	2.0	Y180L-6	15/380
		146	19.7	11	71.0		Y180L-6	15/380
		162	19.0	11.7	71.6		Y200L1-6	18.5/380
100ZMJ-I-A33 100ZMJ-I-AK33	1480	119	41.6	23.0	58.7	3.2	Y200L-4	30/380
		202	37.8	30.1	69.0		Y225S-6	37/380
		225	36.5	32.1	69.6		Y225M-4	45/380
	980	79	18.2	6.7	58.7	1.8	Y160L-6	11/380
		134	16.6	8.8	69.0		Y180L-6	15/380
		149	16.0	9.3	69.6		Y180L-6	15/380
80ZMJ-I-A52 80ZMJ-I-AK52	1480	107	109.8	82.5	38.8	4.3	Y315S-4	110/380
		182	105.5	100.6	52.0		Y315M-4	132/380
		242	99.0	115.9	56.3		Y315L1-4	160/380
	980	71	48.1	24.0	38.8	2.1	Y225M-6	30/380
		121	46.3	29.3	52.0		Y250M-6	37/380
		160	43.4	33.6	56.3		Y280S-6	45/380
80ZMJ-I-A42 80ZMJ-I-AK42	1480	130	70.4	41.8	59.6	4.2	Y250M-4	55/380
		170	67.2	47.9	65.0		Y280S-4	75/380
		204	64.2	53.5	66.7		Y280S-4	75/380
	980	86	30.9	12.1	59.6	2.5	Y200L1-6	18.5/380
		113	29.5	14.0	65.0		Y200L2-6	22/380
		135	28.1	15.5	66.7		Y200L2-6	22/380

Note: The efficiency refers to the value when packing shaft seal is used.

The Clear Eater Performance of ZMJ Slurry Pumps (Directly-Coupled Type) (7)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	(HPSH)r	Motors	
							Type	Power/Voltage
							r/min	m³/h
80ZMJ-I-A39 80ZMJ-I-AK39	1480	121	60.7	34.7	57.6	4.0	Y225M-4	45/380
		158	57.9	39.5	63.0		Y250M-4	55/380
		189	55.4	44.1	64.7		Y250M-4	55/380
	980	80	26.2	10.1	57.6	2.4	Y180L-6	15/380
		105	25.4	11.5	63.0		Y200L1-6	18.5/380
		125	24.2	12.8	64.7		Y200L1-6	18.5/380
80ZMJ-I-A36 80ZMJ-I-AK36	1480	98	51.4	23.6	58.2	3.7	Y200L-4	30/380
		140	48.0	27.7	66.0		Y225S-4	37/380
		190	42.7	32.6	67.7		Y225M-4	45/380
	980	65	22.5	6.8	58.2	2.5	Y160L-6	11/380
		93	21.0	8.1	66.0		Y160L-6	11/380
		126	18.7	9.5	67.7		Y180L-6	15/380
80ZMJ-I-A33 80ZMJ-I-AK33	1480	90	43.2	18.8	56.2	3.4	Y200L-4	30/380
		128	40.3	21.9	64.0		Y200L-4	30/380
		174	35.9	25.9	65.7		Y225S-4	37/380
	980	60	18.9	5.5	56.2	2.3	Y160M-6	7.5/380
		85	17.6	6.4	64.0		Y160L-6	11/380
		116	15.7	7.5	65.7		Y160L-6	11/380
65ZMJ-I-A30 65ZMJ-I-AK30	1480	47	34.8	7.9	56.2	3.0	Y160M-4	11/380
		62	33.9	9.2	62.0		Y160L-4	15/380
		79	32.0	10.8	63.5		Y160L-4	15/380
	980	31	15.0	2.3	56.2	2.0	Y132M1-6	4/380
		41	14.7	2.6	62.0		Y132M2-6	5.5/380
		52	13.8	3.1	63.5		Y132M2-6	5.5/380
65ZMJ-I-A27 65ZMJ-I-AK27	1480	42	28.2	6.0	54.2	2.7	Y160M-4	11/380
		56	27.5	7.0	60.0		Y160M-4	11/380
		71	25.9	8.1	61.5		Y160M-4	11/380
	980	28	12.2	1.7	54.2	1.8	Y132S-6	3/380
		37	11.2	2.0	60.0		Y132M1-6	4/380
		47	11.2	2.3	61.5		Y132M1-6	4/380
50ZMJ-I-A50 50ZMJ-I-AK50	1480	57	110.7	50.7	33.9	3.8	Y280S-4	75/380
		91	105.5	60.9	42.9		Y280S-4	75/380
		111	99.8	66.9	45.1		Y280M-4	90/380
	980	38	48.5	14.8	33.9	3.0	Y220L2-6	22/380
		60	46.3	17.6	42.9		Y225M-6	30/380
		74	43.8	19.6	45.1		Y225M-6	30/380
50ZMJ-I-A46 50ZMJ-I-AK46	1480	48	85.8	34.8	32.2	2.9	Y225M-4	45/380
		77	82.3	41.4	41.7		Y250M-4	55/380
		94	79.9	45.8	44.7		Y250M-4	55/380
	970	31	36.9	9.7	32.2	1.4	Y180L-6	15/380
		50	35.4	11.6	41.7		Y180L-6	15/380
		62	34.3	13.0	44.7		Y200L1-6	18.5/380
50ZMJ-I-A33 50ZMJ-I-AK33	1480	26	42.5	9.2	32.8	6.0	Y160L-4	15/380
		40	40.0	10.7	40.6		Y180M-4	18.5/380
		54	34.5	12.3	41.7		Y180M-4	18.5/380
	980	17	17.9	2.5	32.8	2.9	Y132M1-6	4/380
		26	16.8	2.9	40.6		Y132M2-6	5.5/380
		35	14.5	3.3	41.4		Y132M2-6	5.5/380
40ZMJ-I-A19 40ZMJ-I-AK19	2930	16.3	57.1	6.5	39.2	4.9	Y160M1-2	11/380
		30.0	54.9	8.1	55.4		Y160M1-2	11/380
		34.9	53.7	8.7	58.8		Y160M1-2	11/380
	1430	8.0	13.6	0.8	39.2	1.3	Y90L-4	1.5/380
		14.6	13.1	0.9	55.4		Y90L-4	1.5/380
		17.0	12.8	1.0	58.8		Y100L1-4	2.2/380
40ZMJ-I-A17 40ZMJ-I-AK17	2900	9.4	44.6	3.3	33.2	4.5	Y132S1-2	5.5/380
		17.9	42.7	4.3	49.5		Y132S2-2	7.5/380
		23.4	39.3	4.9	52.4		Y132S2-2	7.5/380
	1400	4.5	10.3	0.4	33.2	2.5	Y80M1-4	0.55/380
		8.6	9.9	0.5	49.5		Y90S-4	1.1/380
		11.3	9.1	0.5	52.4		Y90S-4	1.1/380

The Clear Water Performace of LYJ Slurry Pumps (1)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	Motors
	r/min	m ³ /h	m	kw	%	
250LYJ-65	730	655	33.1	101.8	58	Y355M-8 V1 380V 132KW
		950	25.7	105.6	63	
		1211	17.8	87.7	67	
200LYJ-60	980	380	54.7	87.1	65	Y355M-1 V1 380V 160KW
		530	52.6	104	73	
		630	49.9	122.3	70	
	730	284	30.1	35.8	65	Y315M-8 V1 380V 75KW
		396	29.3	43.3	73	
		470	27.8	50.9	70	
150LYJ-50	730	150	24	16.3	60	Y315S-8 V1 380V 55KW
		280	22	22.4	75	
		350	18.9	25.2	70	
	590	121	15.7	8.6	60	Y315S-10 V1 380V 45KW
		226	14.4	11.8	75	
		283	12.3	13.5	70	
150LYJ-35	980	198	17.9	15.3	63.1	Y250M-6 V1 380V 37KW
		332	13.2	17.5	68.1	
		364	12.1	18.0	66.8	
	730	147	10.0	6.3	63.1	Y200L-8 V1 380V 15KW
		247	7.3	7.2	68.1	
		271	6.7	7.4	66.8	
	590	119	6.5	3.3	63.1	Y160L-6 B3 380V 11KW
		200	4.8	3.8	68.1	
		219	4.4	3.9	66.8	
100LYJ-34	1480	157	36.8	26.1	60.2	Y225M-4 V1 380V 45KW
		214	32.6	29.2	65.1	
		293	24.4	33.5	58.2	
	970	103	15.8	7.4	60.2	Y180L-6 V1 380V 15KW
		140	14.0	8.2	65.1	
		192	10.5	9.4	58.2	
80LYJ-36	1480	105	45.5	25.0	52.1	Y255M-4 V1 380V 45KW
		144	41.4	27.9	58.2	
		201	32.5	32.8	54.2	
	970	69	19.5	7.0	52.1	Y180L-6 V1 380V 15KW
		94	17.8	7.8	58.2	
		132	14.0	9.3	54.2	
65LYJ-30	1470	38	34.7	8.2	43.7	Y180M-4 V 1 380V 18.5KW
		58	31.9	9.7	51.9	
		98	26.0	13.4	51.7	
	960	25	14.8	2.3	43.7	Y132M2-6 B5 380V 5.5KW
		38	13.6	2.7	51.9	
		64	11.1	3.7	51.7	

The Clear Water Performace of LYJ Slurry Pumps (2)

Type	Speed	Capacity	Head	Power of shaft Pa	Eff. η	Motors
	r/min	m ³ /h	m	kw	%	
50LYJ-20	1440	17.1	10.7	1.4	34.9	Y112M-4 B5 380V 4KW
		24.7	9.2	1.6	38.6	
		38.0	6.0	2.0	31.2	
	910	10.8	4.3	0.4	34.9	Y90L-6 B5 380V 1.1KW
		15.6	3.7	0.4	38.6	
		24.0	2.4	0.5	31.2	
40LYJ-B25	1440	10.1	21.5	2.3	26.1	Y132S-4 V1 380V 5.5KW
		18.4	19.0	2.6	36.6	
		22.9	16.8	2.8	37.6	
	910	6.4	8.6	0.6	26.1	Y90L-6 V1 380V 1.1KW
		11.6	7.6	0.7	36.6	
		14.5	6.7	0.7	37.6	
40LYJ-21	1440	9.5	17.0	1.6	27.9	Y112M-4 V1 380V 1.1KW
		20.3	15.3	2.0	42.4	
		25.9	14.1	2.2	44.6	
	910	6.0	6.8	0.4	27.9	Y90L-6 V1 380VF 1.1KW
		12.8	6.1	0.5	42.4	
		16.4	5.6	0.6	44.6	

Note : 1.150LYJ-35(n=590r/min) is belt driven while the others are all directly-coupled.

2.V1、B3、B5 are mounting patterns If motors.

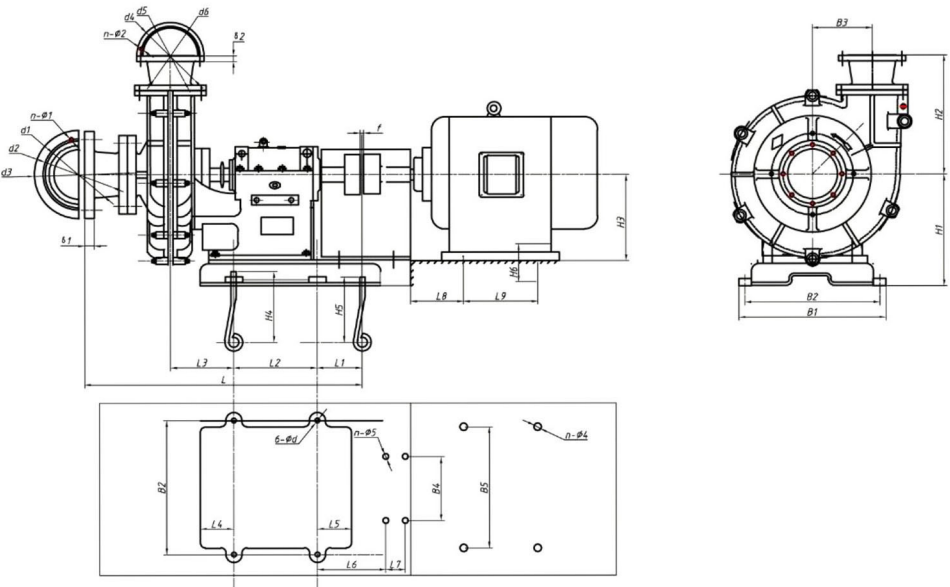


Fig.4 Installation Drawing of Directly-Coupled ZMJ Surry Pumps (Single Base)

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (1)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	B1 / B2	n-Φ2 / d2	b2 / c2	n-Φ5					
	Type	Power																										
500ZMJ-I-A140 500ZMJ-I-AK140	Y630-12	1000	830	1600	1120	630	1000	4-Φ48	2570 / 800	800 / 500	280 / 280	650 / 300	1600 / 1500	940 / 600	1200 / 1250	1000 / 300	6 / 4-Φ48	20-Φ48 / Φ770	Φ600 / Φ840	40 / 36	20-Φ33 / Φ650	Φ500 / Φ715	4-Φ14					
	Y630-12	120																										
	Y630-12	1400																										
Y630-12	900	20-Φ33 / Φ660							Φ500 / 715									20-Φ26 / Φ565	Φ450 / Φ615									
Y630-12	1000																											
Y630-12	1200																											
Y630-12	900	20-Φ33 / Φ650							Φ500 / Φ715									20-Φ30 / Φ525	Φ400 / Φ580									
Y630-12	900																											
Y630-12	1000																											
350ZMJ-I-F100	Y450-10	355	605	1120	800	450	700	4-Φ35	2225 / 635	630 / 478				672 / 500	1080 / 1028			20-Φ26 / Φ565	Φ450 / Φ615	16-Φ25 / Φ470	Φ350 / Φ520							
	Y500-10	500	725	1250	900	500	800	4-Φ42																				
	Y500-10	560																										
	Y450-12	220	605	1120	800	450	700	4-Φ35																				
300ZMJ-I-A100 300ZMJ-I-AK100	Y500-12	315	725	1250	900	500	800	4-Φ42	2208 / 635	630 / 470	240 / 240	518 / 240	1190 / 1100					16-Φ25 / Φ515	400 / Φ565	12-Φ26 / Φ410								
	Y450-10	315	605	1120	800	450	700	4-Φ35																				
	Y500-10	450	725	1250	900	500	800	4-Φ42																				
	Y450-12	185	605	1120	800	450	700	4-Φ35																				
Y450-12	250																											
300ZMJ-I-A95 300ZMJ-I-AK95	Y450-10	280	605	1120	800	450	700	4-Φ35										16-Φ23 / Φ460	Φ350 / Φ500	34 / 34	12-Φ25 / Φ410							
	Y500-10	400																					725	1250	900	500	800	4-Φ42
	Y450-12	185																					605	1120	800	450	700	4-Φ35
	Y450-12	220																										
300ZMJ-I-A90 300ZMJ-I-AK90	Y450-8	355	605	1120	800	450	700	4-Φ42	2151 / 450	630 / 605	372 / 108	333 / 240	1200 / 1110	560 / 500	1060 / 928			16-Φ23 / Φ460	Φ350 / Φ500	34 / 34	12-Φ25 / Φ410							
	Y500-8	500																					725	1250	900	500	800	4-Φ42
	Y450-10	185																					605	1120	800	450	700	4-Φ42
	Y450-10	280																										

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (2)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ															
	Type	Power																																				
300ZMJ-I-A85 300ZMJ-I-AK85	Y450-8	315	605	1120	800	450	700	4-Φ35	2151 / 450	630 / 605	372 / 108	333 / 240		560 / 500	1060 / 928																							
		450																																				
	Y355L2-10	160	424	630	610	355	630	4-Φ28						34 / 34																								
		Y450-10	220	605	1120	800	450	700							4-Φ35																							
250																																						
300ZMJ-I-A70 300ZMJ-I-AK70	Y450-6	450	605	1120	800	450	700	4-Φ35	1931 / 437	630 / 415	200 / 170	320 / 240	1200 / 1110		470 / 500	810 / 758	800 / 300	6 / 4-Φ40	16-Φ23 / Φ460	Φ350 / Φ500	30 / 34	12-Φ25 / Φ410	Φ300 / Φ460	4-Φ14														
		630																																				
	Y355L1-8	185	424	630	610	355	630	4-Φ28																														
	Y400-8	250	545	1000	710	400	700	4-Φ35																														
	Y450-6	400	605	1120	800	450	700	4-Φ35	1931 / 437	630 / 415	200 / 170	320 / 240	1200 / 1110		470 / 500	810 / 758	800 / 300	6 / 4-Φ40	16-Φ23 / Φ460	Φ350 / Φ500	30 / 34	12-Φ25 / Φ410	Φ300 / Φ460	4-Φ14														
		500																																				
Y355M2-8	160	424	560 / 630	610	355	630	4-Φ28																															
Y355L2-8	200																																					
Y400-8	220	545	1000	710	400	700	4-Φ35																															
300ZMJ-I-A56 300ZMJ-I-AK56	Y355M2-6	185	424	560 / 630	610	355	630		4-Φ28	1936 / 438	630 / 409		336 / 240			400 / 500	810 / 748			16-Φ23 / Φ445	Φ350 / Φ485																	
	Y355L2-6	250																																				
	Y315M-8	75	386	457 / 508	508	315																																
	Y315L2-8	110																																				
250ZMJ-I-A103 250ZMJ-I-AK103	Y450-8	450	605	1120	800	450	700	4-Φ35	2135 / 450	630 / 594	372 / 108	333 / 240		604 / 500	1060 / 983			12-Φ26 / Φ410	Φ300 / Φ460	42 / 34	12-Φ30 / Φ370	Φ250 / Φ425																
	Y500-8	560	725	1250	900	500	800	4-Φ42																														
		710																																				
	Y450-10	250	605	1120	800	450	700	4-Φ35																														
		280																																				
355																																						

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (3)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5						
	Type	Power																											
250ZMJ-I-A96 250ZMJ-I-AK96	Y450-8	355	605	1120	800	450	700	4-Φ35	2135	630	372	333		565	1060														
		450																											
	Y500-8	560	725	1250	900	500	800	4-Φ42																					
	Y450-10	185	605	1120	800	450	700	4-Φ35																					
		250																											
		280																											
250ZMJ-I-A90 250ZMJ-I-AK90	Y450-8	315	605	1120	800	450	700	4-Φ35	450	594	108	240	1200	500	948	800	6	12-Φ26	Φ300	42	12-Φ30	Φ250							
		400																											
		450																											
	Y355L2-10	160	424	630	610	355	630	4-Φ28	/	1110	300	4-Φ40		Φ410	Φ460									34	Φ370	Φ425			
	Y450-10	200	605	1120	800	450	700	4-Φ35																					
		250																											
250ZMJ-I-A85 250ZMJ-I-AK85	Y450-6	560	605	1120	800	450	700	4-Φ35	2135	630	230	465	520	900															
	Y500-6	710																						725	1250	900	500	800	4-Φ42
		800																											
	Y400-8	220																						545	1000	710	400	700	4-Φ35
	Y450-8	315																						605	1120	800	450		
250ZMJ-I-A83 250ZMJ-I-AK83	Y450-6	500	725	1250	900	500	800	4-Φ42	582	465	230	240	500	898															
	Y500-6	710																						545	1000	710	400	700	4-Φ35
		800																											
	Y400-8	220																						605	1120	800	450	700	4-Φ35
		280																											
	Y450-8	315																						605	1120	800	450	700	4-Φ35

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (4)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5													
	Type	Power																																		
250ZMJ-I-A80 250ZMJ-I-AK80	Y450-6	500	605	1120	800	450	700	4-Φ35	2135	630	230	465		520	900			12-Φ26		42	12-Φ30	Φ250														
		630																																		
	Y500-6	710	725	1250	900	500	800	4-Φ42	/	/	/	/		/	/		/	/	/	/																
	Y400-8	200	545	1000	710	400	700	4-Φ35	582	465	230	240		500	898			Φ410		34	Φ370	Φ425														
		280																																		
250ZMJ-I-A78 250ZMJ-I-AK78	Y450-6	450	605	1120	800	450			1950					500																						
		630																																		
	Y355L1-8	185	424	630	610	355	630	4-Φ28	/					500																						
	Y400-8	250	545	1000	710	400	700	4-Φ35	454				1200	500		800	6			Φ300																
		280																																		
250ZMJ-I-A75 250ZMJ-I-AK75	Y400-6	315					700	4-Φ35					1110		300	4-Φ40			Φ460																	
	Y450-6	450	605	1120	800	450																			630	200	337		810		12-Φ23					
		560																																		
	Y355M1-8	132	424	560	610	355	630	4-Φ28																				818		Φ410						
	Y355L1-8	185		630																																
	Y400-8	220																						1913					460							
250ZMJ-I-A73 250ZMJ-I-AK73	Y400-6	280	545	1000	710	400	700	4-Φ35	/	454																										
		400																																		
	Y450-6	500	605	1120	800	450																														
	Y355M1-8	132	424	560	610	355	630	4-Φ28																												
	Y355L1-8	185		630																																
	Y355L2-8	200																																		

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (5)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5															
	Type	Power																																				
250ZMJ-I-A70 250ZMJ-I-AK70	Y400-6	280	545	1000	710	400	700	4-Φ35																														
		400																																				
	Y450-6	450	605	1120	800	450	630	4-Φ28																														
	Y315L2-8	110	386	508	508	315																																
	Y315M2-8	160	424	560	610	630																																
Y355L1-8	185	630																																				
250ZMJ-I-A68 250ZMJ-I-AK68	Y355-6	250	525	900	630	700	4-Φ35	1913 / 454																630 / 392	200 / 170	337 / 240	1200 / 1110	460 / 500	810 / 510	800 / 300	6 4-Φ40	12-Φ23 / Φ410	Φ300 / Φ460	34 32	12-Φ25 Φ355	Φ250 Φ405	4-Φ14	
	Y400-6	355	545	1000	710																																	400
	Y450-6	450	605	1120	800																																	450
	Y355L2-8	110	386	508	508	315	630																															4-Φ28
	Y355M2-8	160	424	560	610	355																																
	Y355L1-8	185		630																																		
250ZMJ-I-A65 250ZMJ-I-AK65	Y355-6	220	525	900	630	700	4-Φ35																															
	Y400-6	280	545	1000	710																		400															
		315																																				
	Y355L1-8	90	386	508	508	315	630																4-Φ28															
Y355M1-8	132	424	560	610	355																																	
250ZMJ-I-A63 250ZMJ-I-AK63	Y355-6	200	525	900	630	700	4-Φ35																630	4-Φ28														
		250																																				
	Y400-6	315	545	1000	710	400	630																		4-Φ28													
	Y315L1-8	90	386	508	508	315																																
	Y315L2-8	110																																				
Y355M1-8	132	424	560	610	355																																	

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (6)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5															
	Type	Power																																				
250ZMJ-I-A60 250ZMJ-I-AK60	Y355M2-6	185	424	560	610	355	630	4-Φ28	1913	630	200	337	1200	410	810				12-Φ23	Φ300	34	12-Φ25	Φ250															
	Y355L2-6	250		630																																		
	Y400-6	280	545	1000	710	400	700	4-Φ35																/	/	/	/	/	/	Φ410	Φ460	/	/	/	Φ355	Φ405		
	Y315M-8	75	386	457	508	315	630	4-Φ28	454	392	170	240		1110	500				748																			
	Y315L2-8	110		508																																		
200ZMJ-I-A85 200ZMJ-I-AK85	Y400-6	400	545	1000	710	400	700	4-Φ35	2081	630	230	465				505	900	800									6					12-Φ26	/	Φ310				
	Y450-6	560	605	1120	800	450																																
	Y355M2-8	160	424	560	610	355	630	4-Φ28	582	447	230	240		500	848																							
	Y400-8	220	545	1000	710	400	700	4-Φ35																														
200ZMJ-I-A75 200ZMJ-I-AK75	Y355-6	250	525	900	630	355	630	4-Φ28	1753	640	125	257		1120	440					650	/	4-Φ40																
	Y400-6	355	545	1000	710	400	700	4-Φ35																														
	Y315L2-8	110	386	508	508	315	630	4-Φ28					374					323									125	240	1020	500	783							
	Y355M1-8	132	424	560	610	355																																
	Y355M2-8	160																																				
200ZMJ-I-A73 200ZMJ-I-AK73	Y355-6	250	525	900	630				700	4-Φ35	374	323		125	240	1020	500		783																Φ360			
	Y400-6	315	545	1000	710	400	700		4-Φ35																													
		355																																				
	Y315L2-8	110	386	508	508	315	630	4-Φ28																														
	Y355M1-8	132	424	560	610	355																																
Y355M2-8	160																																					

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (7)

项目 Item 型 号Type	电动机 Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5
	型 号Type	功 率(kw) Power																					
200ZMJ-I-A70 200ZMJ-I-AK70	Y355M3-6	200	424	560	610	355	630	4-Φ28	1590 / 368	510 / 355	157 / 157	271 / 200	1050 / 950	420 / 420	710 / 730	800 / 300	6 / 4-Φ40	12-Φ23 / Φ350	Φ250 / Φ390	24 / 36	12-Φ26 / Φ310	Φ200 / Φ310	4-Φ14
	Y400-6	280	454	1000	710	400	700	4-Φ35															
		315																					
	Y315L1-8	90	386	508	508	315	630	4-Φ28															
Y355M1-8	132	424	560	610	355	630	4-Φ28																
Y355M3-6	200																						
200ZMJ-I-A68 200ZMJ-I-AK68	Y355-6	250	525	900	630	355	630	4-Φ35															
	Y400-6	315	545	1000	710	400							700										
	Y315L1-8	90	386	508	508	315																	
	Y315L2-8	110																					
	Y355M1-8	132	424	560	610	355																	
	Y355M2-6	185																					
200ZMJ-I-A65 200ZMJ-I-AK65	Y355-6	250	525	900	630	630	4-Φ28																
	Y315M-8	75	386	457 508	508			315															
	Y315L2-8	110																					
	200ZMJ-I-A63 200ZMJ-I-AK63	Y355M1-6	160	424	560			610					630	4-Φ28									
Y355-6		220	525	900	630	355																	
		250																					
Y315M-8		75	386	457 508	508	315																	

Note:If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified .

Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (8)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5															
	Type	Power																																				
200ZMJ-I-A60 200ZMJ-I-AK60	Y315L2-6	132	386	508	508	315	630	4-Φ28	1593 / 355	510 / 371		258 / 200	380 / 420	660 / 658				12-Φ23 / Φ350	Φ250 / Φ390	24 / 36	12-Φ25 / Φ310	Φ200 / Φ360	4-Φ14															
	Y355M2-6	185	424	560	610	355																																
	Y315M-8	75	386	457 508	457	315																																
	Y315L1-8	90																																				
200ZMJ-I-A58 200ZMJ-I-AK58	Y315L2-6	132	424	560	610	355																		/	/	157 / 157		1000 / 900			800 / 300	6 / 4-Φ14						
	Y355M1-6	160																																				
	Y355M2-6	185	386	406 457	508	315																																
	Y315S-8	55																																				
200ZMJ-I-A50 200ZMJ-I-AK50	Y315M-8	75			610	355			1585 / 368	510 / 354	271 / 200		416 / 420	660 / 760			8-Φ23 / Φ295	Φ200 / Φ335	26 / 32	8-Φ26 / Φ250	Φ150 / Φ300																	
	Y315L2-6	132	424	560	610	355																																
	Y355M1-6	161																				386																
	Y355M2-6	185																																				
150ZMJ-I-A71 150ZMJ-I-AK71	Y315S-8	55	424	560	610	355																1602 / 368		510 / 331			410 / 420	660 / 748										
	Y315M-8	75																																			386	406 457
	Y355M1-6	160	424	560	610	355																																
	Y355L1-6	220																																				
150ZMJ-I-A70 150ZMJ-I-AK70	Y315M1-8	75	386	457 508	508	315																																
	Y315M2-8	90																																				
	Y315L2-6	132	424	560	610	355																																
	Y355M1-6	160																																				
150ZMJ-I-A70 150ZMJ-I-AK70	Y355M2-6	185	386	406 457	508	315																																
	Y315S-8	55																																				
	Y315M-8	75	424	560	610	355																																
	Y355M2-6	185																																				

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

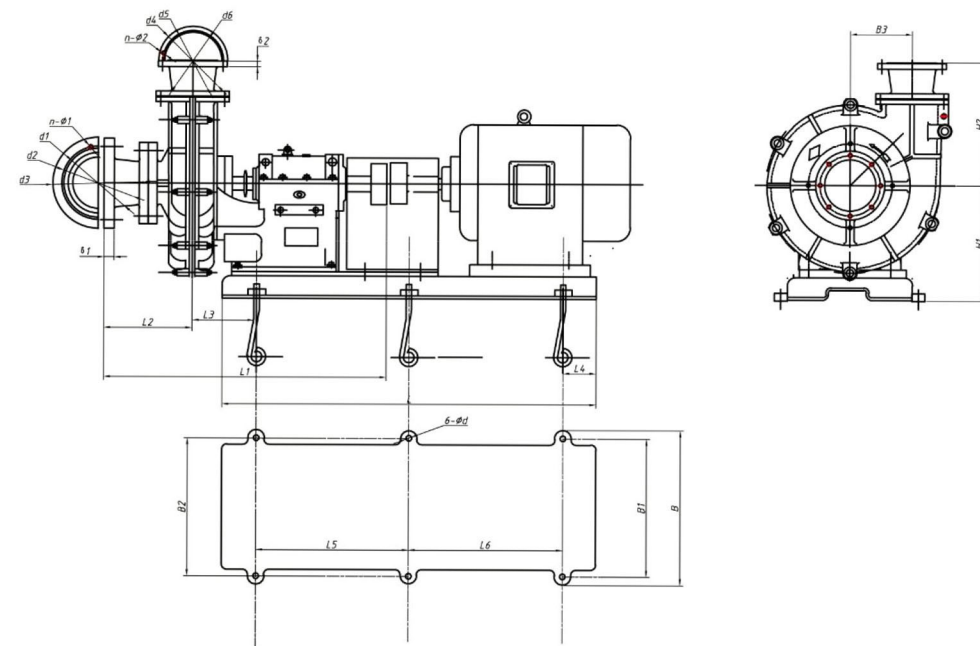
Installation Sizes of Directly-Coupled ZMJ Surry Pumps (Single Base) (9)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5																	
	Type	Power																																						
150ZMJ-I-A65 150ZMJ-I-AK65	Y315L2-6	132	386	508	508	315	630	4-Φ28	1570 / 368	510 / 343		271 / 200	380 / 420	660 / 678							8-Φ26 / Φ250																			
	Y355M2-6	185	424	560	610	355																																		
	Y355M3-6	200																																						
	Y315M-8	75	386	457	508	315																																		
	Y315L1-8	90		508																																				
150ZMJ-I-A63 150ZMJ-I-AK63	Y315L2-6	132	424	560	610	355			630	4-Φ28	1570 / 368	510 / 343		271 / 200	380 / 420	660 / 678							8-Φ26 / Φ250																	
	Y355M1-6	160																																						
	Y355M2-6	185																																						
	Y315S-8	55	386	406	508	315																				157 / 157		1000 / 900		800 / 300	6 / 4-Φ40	8-Φ23 / Φ295	Φ200 / Φ335	26 / 32		Φ150 / Φ300	4-Φ14			
	Y315M-8	75		457																																				
Y315L1-6	110	508																																						
150ZMJ-I-A60 150ZMJ-I-AK60	Y315L2-6	132	424	560	610	355	630	4-Φ28			1570 / 368	510 / 343		271 / 200	380 / 420	660 / 678							8-Φ26 / Φ250																	
	Y355M1-6	160																																						
	Y280M-8	45																								330	419	457	280	500	4-Φ24									
	Y315S-8	55	386	406	508	315																				630	4-Φ28	355	510 / 360	258 / 200	370 / 420	660 / 620						8-Φ25 / Φ250		
	Y315M-8	75		457																																				
Y315L1-6	110	508																																						
150ZMJ-I-A58 150ZMJ-I-AK58	Y35M-6	90	386	406	508	315			630	4-Φ28	355	510 / 360		258 / 200	370 / 420	660 / 620																								
	Y315L2-6	132																																						
	Y280S-8	37																								330	368	457	280	500	4-Φ24									
	Y315S-8	55																								386	406	508	315	630	4-Φ28									

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Single Base) (10)

Item Type	Motor		L8	L9	B5	H3	H6	n-Φ4	L / L1	L2 / L3	L4 / L5	L6 / L7	B1 / B2	B3 / B4	H1 / H2	H4 / H5	f / n-Φ3	n-Φ1 / d1	B1 / C1	δ1 / δ2	n-Φ2 / d2	b2 / c2	n-Φ5
	Type	Power																					
150ZMJ-I-C58	Y315L1-6	110	386	508	508	315	630	4-Φ28	1567	510 / / 355	/ / 358			385 / 420									
	Y315L2-6	132																					
	Y355M1-6	160																					
	Y280M-8	45	300	419	457	280	500	4-Φ24															
	Y315S-8	55	386	406	508	315	630	4-Φ28															
	Y315M-8	75																					
150ZMJ-I-A57 150ZMJ-I-AK57	Y315M-6	90	386	457	508	315	630	4-Φ28															
	Y315L1-6	110																					
	Y280S-8	37	419	406	508	315	630	4-Φ28	1571	510	157	258	1000	370	660	800	6	8-Φ23	Φ200	26	8-Φ25	Φ150	
	Y280M-8	45																					
	Y315S-8	55																					
	Y315M-6	90	386	457	508	315	630	4-Φ28	/ 355	/ 360	/ 157	/ 200	/ 900	/ 420	/ 658	/ 300	/ 4-Φ40	/ Φ295	/ Φ335	/ 32	/ Φ250	/ Φ300	
	Y315L1-6	110																					
150ZMJ-I-A55 150ZMJ-I-AK55	Y280S-8	37	419	406	508	315	630	4-Φ28															
	Y280M-8	45																					
Y315S-8	55	386	406	508	315	630	4-Φ28																



Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Common Base)

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Common Base) (1)

Item Type	Motor		L	L1	L2	L3	L4	L5	L6	B	B1	B2	B3	H1	H2	H3	n-Φ1 / n-Φ2	d1 / d4	d2 / d5	d3 / d6	δ1 / δ2	6-Φ														
	Type	Power																																		
150ZMJ-I-A50 150ZMJ-I-AK50	Y280M-6	55	1675	1351	338	335	110	712	712	822	742																									
	Y315S-6	75	1832				150	766	766	897	817																									
	Y250M-8	30	1675				110	712	712	822	742																									
	Y280S-8	37																																		
150ZMJA-I-A48 150ZMJ-I-AK48	Y280M-6	55	1832				150	766	766	897	817	300			598		8-Φ22 / 8-Φ22	Φ200 / Φ200	Φ295 / Φ295	Φ355 / Φ355	26 / 30															
	Y315S-6	75	1832				110	712	712	822	742																									
	Y225M-8	22	1675																																	
	Y250M-8	30																																		
150ZMJ-I-C42	Y315S-4	110	1832	1345	330	337	150	766	766	897	817	680		540	578	630						6-Φ30														
	Y315M-4	132																																		
	Y225M-6	30	1675				110	712	712	822	742																									
	Y250M-6	37																																		
	Y280S-6	45																																		
100ZMJ-I-A60	Y315S-4	110	1832	1349	371	300	150	766	766	897	817						8-Φ18 / 8-Φ18	Φ150 / Φ100	Φ225 / Φ180	Φ260 / Φ215	23 / 20															
	Y315M-4	132																																		
	Y315L-4	160																																		
100ZMJ-I-A50 100ZMJ-I-AK50	Y315S-4	110	1885							203																										
	Y315M-4	132																																		
	Y315L1-4	160																																		
	Y225M-6	30					1675	110	712	712	822												742													
	Y280S-6	45																																		
	Y280M-6	55																																		

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Common Base) (2)

Item Type	Motor		L	L1	L2	L3	L4	L5	L6	B	B1	B2	B3	H1	H2	H3	n-Φ1 / n-Φ2	d1 / d4	d2 / d5	d3 / d6	δ1 / δ2	6-Φd								
	Type	Power																												
100ZMJ-I-A46 100ZMJ-I-AK46	Y280M-4	90	1675	1349	371	300	110	712	712	822	742		280	540	548															
	Y315S-4	110	1832				150	766	766	897	817																			
	Y315M-4	132	1675				110	712	712	822	742																			
	Y225M-6	30																												
	Y250M-6	37																												
100ZMJ-I-A42 100ZMJ-I-AK42	Y280S-4	75	1626	1179	295	233	135	700	700			680	250	490	488	630	8-Φ18	Φ150	Φ225	Φ260	23	6-Φ30								
	Y280M-4	90															/	/	/	/	/									
	Y200L2-6	22															1385	247	103	590	590		8-Φ18	Φ150	Φ180	Φ215	20			
	Y225M-6	30															1452	246	101	625	625									
100ZMJ-I-A39 100ZMJ-I-AK39	Y250M-4	55	1555	1179	295	240	128	650	650	760	680		250	490	488	630														
	Y280S-4	75	1626																				1385	247	103	590	590			
	Y200L1-6	18.5	246																									101	625	625
	Y200L2-6	22																												
	Y225M-6	30																												
100ZMJ-I-B42	Y280S-4	75	1626	1179	295	233	135	700	700				250					8-Φ22	Φ200	Φ295	Φ335	26								
	Y280M-4	90																/	/	/	/	/								
	Y200L2-6	22																1385	246	101	625	625	8-Φ18	Φ100	Φ180	Φ215	20			
	Y225M-6	30																1452												

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Common Base) (3)

Item Type	Motor		L	L1	L2	L3	L4	L5	L6	B	B1	B2	B3	H1	H2	H3	n-Φ1 / n-Φ2	d1 / d4	d2 / d5	d3 / d6	δ1 / δ2	6-Φd											
	Type	Power																															
100ZMJ-I-A36 100ZMJ-I-AK36	Y225S-4	37	1452	1170	290	242	101	625	625	760	680		220	490	468			Φ150 / Φ100	Φ225 / Φ180	Φ260 / Φ215	23 / 20	6-Φ30											
	Y250M-4	55	1555			236	128	650	650																								
	Y180L-6	15	1355			247	102	575	575																								
	Y200L1-6	18.5	1385			243	103	590	590																								
Y200L1-4	30	1452				242	101	625	625																								
Y225S-4	37		1355			247	102	575	575																								
Y225M-4	45																																
Y160L-6	11																																
Y180L-6	15																																
80ZMJ-I-A52 80ZMJ-I-AK52	Y315S-4	110	1832	1337	358	301	150	766	766	897	817	680	300	540	548	630	8-Φ18 / 8-Φ18				20 / 20												
	Y315M-4	132				351	200			822	742																						
	Y315L1-4	160	1932			1675	301	110	712	712																							
	Y225M-6	30	1626				229	128	650	650																							
	Y250M-6	37									760											680											
	Y280S-6	45																															
80ZMJ-I-A42 80ZMJ-I-AK42	Y250M-4	55	1555			1157	284	222	135	700													700	760	680		240	490	488			Φ125 / Φ80	Φ200 / Φ160
	Y280S-4	75	229					128	650	650																							
	Y200L1-6	18.5	1385					236	103	590	590																						
	Y200L2-6	22																															

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Common Base) (4)

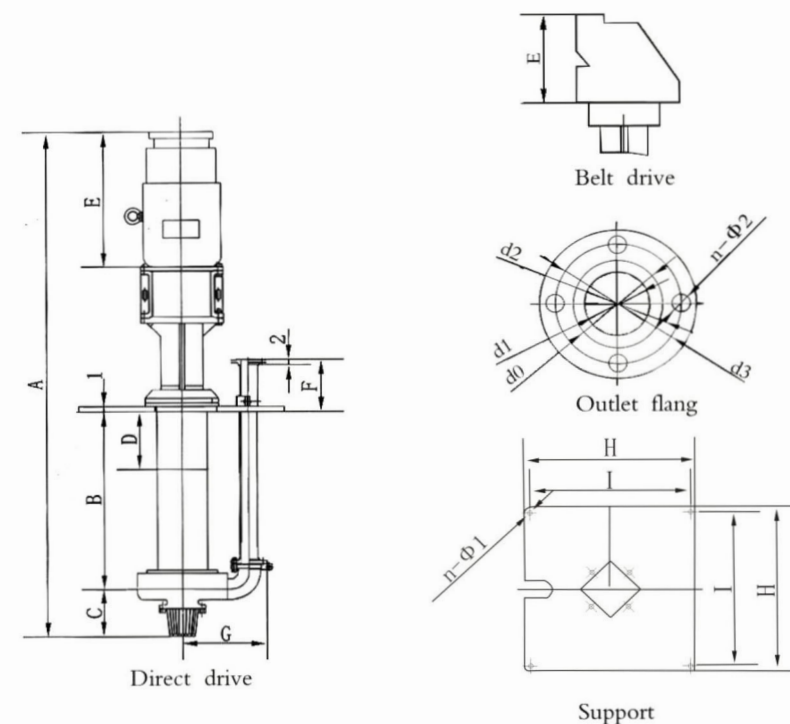
Item Type	Motor		L	L1	L2	L3	L4	L5	L6	B	B1	B2	B3	H1	H2	H3	n-Φ1 / n-Φ2	d1 / d4	d2 / d5	d3 / d6	δ1 / δ2	6-Φd
	Type	Power																				
80ZMJ-I-A39 80ZMJ-I-AK39	Y225M-4	45	1452	1157	284	235	101	625	625	760	680	680	240	490	488	630	8-Φ18 / 8-Φ18	Φ125 / Φ80	Φ200 / Φ160	Φ235 / Φ195	20 / 20	6-Φ30
	Y250M-4	55																				
	Y180L-6	15	1355		236	103	590	590														
	Y200L1-6	18.5	1385																			
80ZMJ-I-A36 80ZMJ-I-AK36	Y200L-4	30	1156	283	235	101	625	625	215	468	8-Φ18 / 8-Φ18	Φ125 / Φ80	Φ200 / Φ160	Φ235 / Φ195	20 / 20	6-Φ30						
	Y225S-4	37															1452					
	Y225M-4	45			240	102	575	575														
	Y160L-6	11															1355					
	Y180L-6	15																				
80ZMJ-I-A33 80ZMJ-I-AK33	Y200L-4	30			1385	236	103	590			590											
	Y225S-4	37			1452																	
	Y160M-6	7.5			1355	240	102	575			575											
	Y160L-6	11																				
65ZMJ-I-A30 65ZMJ-I-AK30	Y160M-4		1140	976	267	196	100	470	470	650	580	580	160	365	452	500	4-Φ18 / 4-Φ18	Φ100 / Φ65	Φ170 / Φ145	Φ205 / Φ180	21 / 23	6-Φ27
	Y160L-4	15																				
	Y132M1-6	4																				
	Y132M2-6	5.5																				

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Installation Sizes of Directly-Coupled ZMJ Slurry Pumps (Common Base) (5)

Item Type	Motor		L	L1	L2	L3	L4	L5	L6	B	B1	B2	B3	H1	H2	H3	n-Φ1 / n-Φ2	d1 / d4	d2 / d5	d3 / d6	Φ1 / Φ2	6-Φd
	Type	Power																				
65ZMJ-I-A27 65ZMJ-I-AK27	Y160M-4	11	1140	976	267	196	100	470	470	650	580	580	160	365	452	500	4-Φ18 / 4-Φ18	Φ100 / Φ65	Φ170 / Φ145	Φ205 / Φ180	21 / 23	6-Φ27
	Y132S-6	3																				
	Y132M1-6	4																				
50ZMJ-I-A50 50ZMJ-I-AK50	Y280S-4	75	1780	1223	245	330	180	710	710	900	820	730	273	540	475	630	8-Φ18 / 4-Φ18	Φ169 / Φ125	Φ200 / Φ165	20 / 20	6-Φ30	
	Y280M-4	90																				
	Y200L2-6	22				300	110	712	712	822	742											
	Y225M-6	30																				
50ZMJ-I-A46 50ZMJ-I-AK46	Y225M-4	45	1452	1171	295	238	101	625	625	760	680	680	258	490	503	630	8-Φ18 / 8-Φ18	Φ80 / Φ50	Φ155 / Φ145	Φ200 / Φ180	22 / 22	6-Φ30
	Y250M-4	55				232	128	650	650													
	Y180L-6	15				243	102	575	575													
	Y200L1-6	18.5				239	102	590	590													
50ZMJ-I-A33 50ZMJ-I-AK33	Y160L-4	15	1140	968	259	196	100	470	470	650	580	580	200	365	428	500	4-Φ18 / 4-Φ18	Φ155 / Φ145	Φ190 / Φ180	21 / 23	6-Φ27	
	Y180M-4	18.5																				
	Y132M1-6	4																				
	Y132M2-6	5.5																				
40ZMJ-I-A19 40ZMJ-I-AK19	Y160M1-2	11	905	596	99	149	90	360	360	450	400	400	112	200	200	300	4-Φ14 / 4-Φ12	Φ50 / Φ40	Φ110 / Φ100	Φ140 / Φ125	16 / 19	6-Φ14
	Y90L-4	1.5						280	280													
	Y100L1-4	2.2						340	340													
Y132S1-2	5.6																					
Y132S-2	7.5																					
Y80M1-4	0.55	270	270																			
40ZMJ-I-A17 40ZMJ-I-AK17	Y90S-4	1.1	600	591	95	146	30	270	270	260	200	200	100	230	185	300	4-Φ12 / 4-Φ12	Φ40 / Φ40	Φ100 / Φ100	Φ125 / Φ125	19 / 19	6-Φ14

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.



Installation Drawing of LYJ Slurry Pumps

Installation Sizes of ZMJ Slurry Pumps

Type	Mating motors	Driving patterns	A	B	C	D	E	F	G	H	I	n-Φ1	Φ1	Outlet flabge						Weight motor Included (kg)
														d	d1	d2	d3	n-Φ2	δ2	
250ZMJ-I-65	Y315L-8/160	DC	4846	1500	270	250	1400	200	726	1600	1500	4-Φ40	30	Φ250	Φ305	Φ355	Φ405	12-Φ25	24	4320
	Y315L-8/90	DC	4650	1500			1270													4180
200ZMJ-I-60	Y355L-8/160	DC	4414	1500	270	250	1400	200	710	1400	1500	4-Φ26	30	Φ200	Φ260	Φ310	Φ360	12-Φ25	24	3890
	Y315L-8/90		4230				1270													3670
150ZMJ-I-50	Y315S-8/55KW V1	DC	4545	1555	645	350	1050			1600	1400	4-Φ25		Φ207	Φ266	Φ295	Φ340			2000
	Y315S-10/45KW V1	DC												Φ259	Φ319	Φ350	Φ395			
150ZMJ-I-35	Y250M-6 37KW V1	DC	3093	1049	360		895					4-Φ25	25	Φ150	Φ200	Φ225	Φ260	8-Φ18	22	1300
	Y200L-8 15KW V1	DC	2908				740													1190
	Y160L-6 11KW B3	ZV	2674				702													1046
100ZMJ-I-34	Y225M-4 45KW V1	DC	2930	1031	310		795	214	573	1180	1110	4-Φ25	25	Φ100	Φ145	Φ170	Φ205	4-Φ18		1183
	Y180L-6 15KW V1	DC	2765				660													1036
80ZMJ-I-36	Y225M-4 45KW V1	DC	2887	1028	270	350	795	212	543	1120	1050			Φ80	Φ125	Φ150	Φ185		18	993
	Y180L-6 15KW V1	DC	2722				660													864
65ZMJ-I-30	Y180M-4 18.5KW V1	DC	2673				620	212	416	712	672	4-Φ22		Φ65	Φ115	Φ130	Φ160	4-Φ14		703
	Y132M2-6 5.5KW B5	DC	2458				435													614
50ZMJ-I-20	Y112M-4 4KW B5	DC	1941	814	195		340	141	321					Φ50	Φ90	Φ110	Φ140			293
	Y90L-6 1.1KW B5	DC	1881				290													275
40ZMJ-I-B25	Y132S-4 5.5KW B5	DC	1961	826	210		395	130	334	600	540	4-Φ25	16					4-Φ14	16	370
	Y90L-6 1.1KW B5	DC	1899				290													345
40ZMJ-I-A21	Y112M-4 4KW B5	DC	1961	829	209		340	125	309					Φ40	Φ72	Φ100	Φ130			370
	Y90L-6 1.1KW B5	DC	1901				290													345

Note: If motor other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.

Cable

Between the double-layer insulating rubber is equipped with armor made of electroplated steel cable, which greatly improves the ability of cable to resist damage. The cable connector with IP68 protection class realizes the internal and external double sealing of the double-layer insulating rubber, completely eliminating the possibility of water entering the cable.

Motor Rotor End Plate and Rotor Guide Bar

The SPU fluid submersible slurry pump welds together the rotor end plate and guide bar of high-quality copper material, whose melting point is as high as 787°C. The melting point of aluminum used in other similar pump products is only 507°C, which is very easy to melt and cause motor damage when operating in harsh environments.

Removable Outlet Elbow

Spray fluid submersible slurry pumps with outlet sizes of 150mm and 200mm are equipped with a removable outlet elbow lined with highly wear-resistant rubber.

Mechanical Seals Do not Withstand the Working Pressure During Pumping

The maximum diving depth can reach 28 meters underwater. The mechanical seal of the SPU fluid submersible slurry pump only withstands the static pressure during water replacement, while other similar products have to withstand both the static pressure of diving and the working pressure during pumping. This unique design greatly reduces the probability of the pumped medium entering the motor room and causing damage to the motor. The mechanical seal installed directly under the lower bearing can get the maximum support and shock protection from the solid lower bearing.

Double Scroll Volute

In order to balance the load on the shaft, mechanical seal and bearing, SIP fluid adopts double scroll volute casing design to reduce vibration, thus greatly extending the service life of each component, especially the service life of the mechanical seal.

Agitator

During the mixing process, when the agitator encounters large solid particles, in order to reduce the bending and flexural deformation on the shaft, SIP Fluid adopts a design where the agitator is closer to the lower bearing.

Bearings

Super-matched bearing design can greatly extend service life when pumping high-density.

Oil Bath Motor Chamber

The motor of the SPU fluid pump runs in an oil bath so that multiple pairs of mechanical seals and bearings can be lubricated and cooled simultaneously. The heat from the hottest end of the motor can be dispersed to other parts of the large-mass motor stator chamber through the oil flow heat conduction, eliminating the problem of premature motor aging caused by hot spot effect.

Motor Stator Chamber Cooling

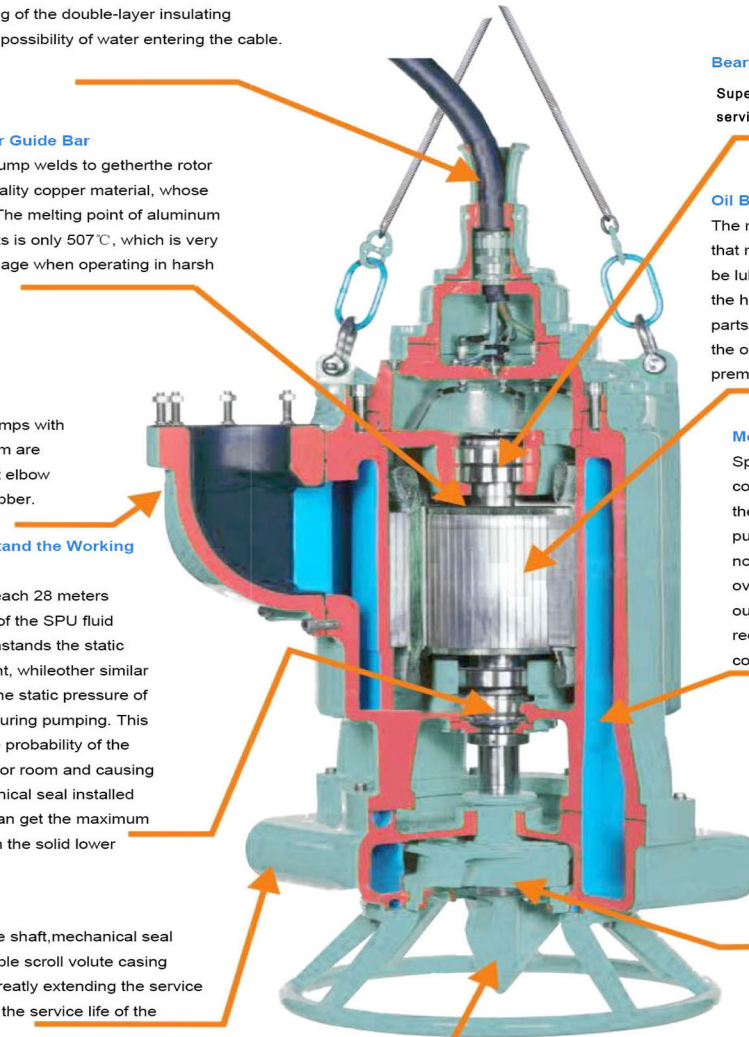
Spray fluid, submersible slurry pumps benefit from forced convection cooling as the pumped medium flows around the outside of the motor stator chamber. This allows the pump to run continuously in semi-submersible and even non-semi-submersible conditions exposed to air without overheating (other products will overheat or even burn out). This overall design and manufacturing will greatly reduce the cost of external cooling systems for motors compared to other pump designs.

Heavy-duty Hydraulic End Components

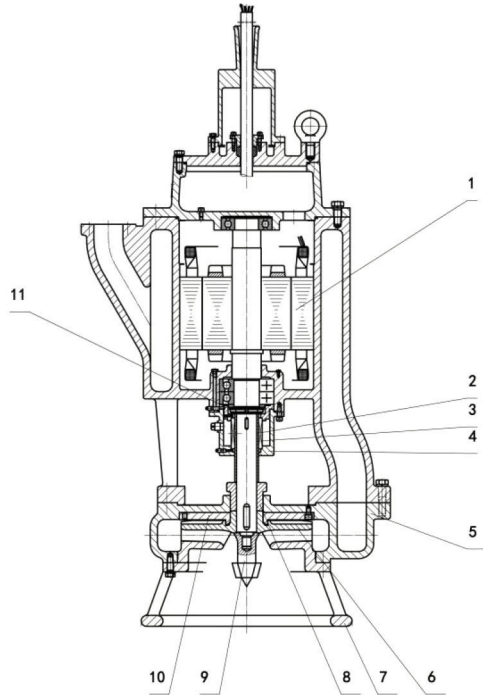
For extremely wear-resistant working conditions, we can provide a complete set of hydraulic end components including impellers, agitators, and wear plates with more wear-resistant tungsten carbide coatings. Compared with the closed impeller design of other similar products, the slurry pump adopts an open impeller design, and the tungsten carbide material can cover the entire surface of the hydraulic end instead of just part of the surface.

Open Impeller

The closed impeller design may cause the impeller to be stuck by large particles, causing blockage of the flow channel. The open impeller can completely avoid this risk. It is realized that if it can be sucked in, it can be pumped out.



QZJ submersible slurry pump assembly drawing



- 1.Submersible motors (37Kw-4P)
- 2.Bushings
- 3.Mechanical seals
- 4.Mechanical seal seat
- 5.Pump
- 6.Impeller
- 7.Bottom
- 8.Glands
- 9.Stir round
- 10.After the guard
- 11.Bearing gland

Parameters of QZJ series submersible slurry pump

QZJ Series Submersible Slurry Pumps	80NZE	80ANZE	80HNZB	100NZE	100ANZE	100HNZB	150NZE	150ANZE	150HNZB
Maximum weight of the slurry solids	65 %	65 %	40 %	65 %	65 %	40 %	65 %	65 %	40 %
The largest proportion of slurry	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Maximum size of the solid particles	25mm	32mm	12mm	30mm	35mm	20mm	40mm	40mm	22mm
Highest slurry temperature	90°C	90°C	90°C	90°C	90°C	90°C	90°C	90°C	90°C
Maximum flow rate value	130	220	100	350	430	270	550	760	380
Highest lift (kg pressure)	35m (3.5 bar)	37m (3.7 bar)	55m (5.5 bar)	23m (2.3 bar)	35m (3.5 bar)	60m (6.0 bar)	25m (2.5 bar)	38m (3.8 bar)	60m (6.0 bar)
Maximum diving attempt	28mm	28mm	28mm	28mm	28mm	28mm	28mm	28mm	28mm

Some Pump Types



ICJ Stainless Steel Chemical Centrifugal Pump

ICF Series Corrosion Resistant Chemical Pump

IZA Petrochemical Process Pump



LJ Vertical Long Shaft Submersible Pump

WQ Submersible Pump

TLJ Type Desulfurization Pump



Wa Submersible Pump

S Type Horizontal Split Case Pump

DF Type Multistage Pump