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 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://zrp.nt-rt.ru> || zpr@nt-rt.ru

ZL(R) Series Light Duty Sludge and Slurry Pump



ZL(R) series light duty sludge and slurry pump are single-stage, single-suction, cantilever, double casing and horizontal centrifugal slurry pump which apply to operating conditions of large flow, low concentration and lower head. When the speed is low, this pump can transmit slurry of strong abrasion and high density. Compared with WX type slurry pump of equivalent diameter, this type is of small size, light weight and high cost performance and has been widely used in metallurgy, electric power, chemical industry, mining, papermaking, building materials and other industries.

Parameter

Caliber	20mm~650mm
Maximum flow	10260m ³ /h

Maximum head	63m
Rotation	200-3000r/min
Power	7.5-1200kw

For details see clear water performance table.

ZL(R) clear water performance table

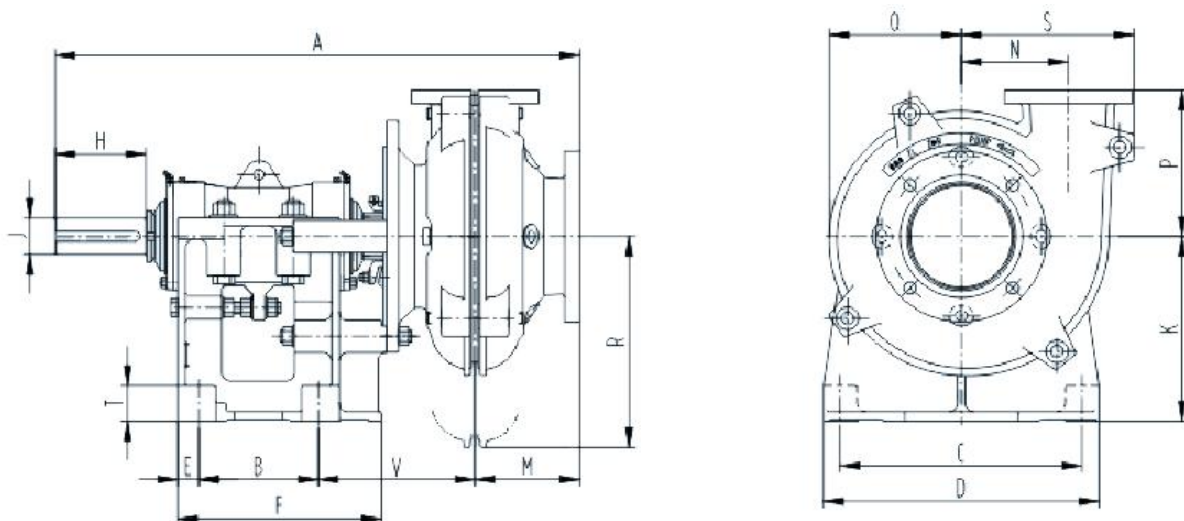
Model	Maximum motor power (KW)	Material		Clear water performance					
		Liner	Impeller	Capacity Q		Head (m)	Speed (r/min)	Efficiency η%	NPSH (m)
				(m³/h)	(l/s)				
20A-ZL	7.5	M	M	2.34~10.8	0.65~3	6~37	1400~3000	39	3~5
20A-ZLR		RU	RU	2.69~9	0.6~2.5	7~32	1600~3000	33	
50B-ZL	15	M	M	16.2~76	4.5~20	9~44	1400~2800	62	3~5
50B-ZLR		RU	RU	12.6~60	3.5~17.6	6~38	1200~2600	48	
75C-ZL	30	M	M	18~151	5~42	4~45	900~2400	57	3~6
75C-ZLR		RU	RU	25~144	7~40	9~43	1000~2200	60	3~5
100D-ZL	60	M	M	50~252	14~70	7~46	800~1800	60	2~3.5
100D-ZLR		RU	RU	61~252	17~70	8~38	800~1600	65	2~5
150E-ZL	120	M	M	115~468	32~135	12~51.5	800~1500	65	2~6
150E-ZLR		RU	RU	137~486	38~135	10~36.5	800~1300		2.5~5.5
200E-ZL	120	M	M	446~1325	124~368	14~63	600~110	73	3~14
200E-ZLR		RU	RU	277~1088	27~322	11~43	500~900	79	3~10
250F-ZL	260	M	M	468~1386	130~385	9~47	500~1000	73	3~10
250F-ZLR		RU	RU	522~1278	140~355	10~39	500~900	73	5~10
300S-ZL	560	M	M	468~2538	130~705	8~60	400~950	79	2~10
300S-ZLR		RU	RU	432~1900	120~528	7~41	400~800	81	3~8
350S-ZL	560	M	M	650~2800	180~780	10~59	400~840	81	3~10
350S-ZLR		RU	RU	720~2811	200~790	10~41	400~700	86	3~7.5
400ST-ZLR	560	M	M	720~3312	200~920	7~51	300~700	80	2~10
400ST-ZL		RU	RU	756~3312	210~920	7~37.5	300~600	85	2~8
450ST-ZL	560	M	M	1008~4356	280~1210	9~48	300~600	80	2~9
450ST-ZLR		RU	RU	1080~4356	300~1210	9~40	300~550	87	3~10
500T-ZL	1200	M	M	1440~5580	400~1550	8~51	250~550	86	3~10
500T-ZLR		RU	RU	1152~5112	320~1420	8~42	250~500	87	3~10
550TU-ZL	1200	M	M	1980~7920	560~2200	10~50	250~475	86	4~10
550TU-ZLR		RU	RU	2160~6660	600~1850	13~43	250~425	88	3~10
650TU-ZL	1200	M	M	3600~10260	1000~2850	10~57	200~425	86	4~10
650TU-ZLR		RU	RU	2520~9108	700~2530	10~39	200~350	86	2~8

Structural features

1. This pump is applicable to high duty and severe operating conditions for having large diameter and short cantilever to ensure the rigidity of the shaft.

2. The hardened stainless sleeve and the shaft are equipped through clearance fit, coupled with O-ring on the two ends, thus the shaft is of wear-resisting and anti-corrosion.
3. Either the front or back cover board of the impeller is equipped with auxiliary blade, which can reduce the return flow and the seal pressure. Other methods like a wider-runner and blade concave are adopted to enhance overcurrent ability and anti-abrasion ability for extending the service life.
4. The ability of withstanding high pressure of the pump casing and cover is ensured by using ductile iron material and strengthening rib.
5. The overcurrent components adopt various high Cr anti-abrasive alloys or different rubber and are of anti-abrasive, anti-corrosion, impact resistance, scouring resistance and other features. Moreover, the metal overcurrent components and the rubber ones can be used interchangeably or in a mixer way to satisfy the requirement of different operating conditions.
6. Seal types like packing seal, auxiliary impeller seal, and mechanical seal are available for shaft seal to satisfy different seal requirement.
7. You can choose to install the output position of the pump by eight different angles (with an interval of 45 degrees).
8. Oil lubrication and grease lubrication are provided to the bearing assemblies. The oil lubrication components is able to lower the operation temperature effectively to reduce the trouble caused by too high bearing temperature. The grease lubrication components have features of simple structure, reliable operation, and easy installing, commissioning and maintenance.

Outline drawing



Outline Dimensions

Model	A	B	C	D	E	F	H	J	K	M	N	S	T	V	Q	R	P	Suction flange				Discharge flange				The anchor hole	Weight (Kg)	
																		O.D	I.D	P.C.D	HOLES	O.D	I.D	P.C.D	HOLES		Metal	Rubber
20A-ZL(R)	461	159	241	286	25	210	57	20	145	90	86	144	28	89	128	124	128	114	25	83	4-Φ14	102	20	73	4-Φ14	4-Φ18	32	28
50B-ZL(R)	624	143	254	295	24	248	80	28	197	136	114	197	38	191	155	154	163	184	75	146	4-Φ19	165	50	127	4-Φ19	4-Φ14	58	46
75C-ZL(R)	813	175	356	406	32	311	120	42	254	163	146	248	48	253	191	198	204	229	100	191	4-Φ19	203	75	165	4-Φ19	4-Φ19	163	144
100D-ZL(R)	950	213	432	492	38	364	163	65	330	187	190	308	64	280	236	249	262	305	150	260	4-Φ22	229	100	191	4-Φ22	4-Φ22	343	309
150E-ZL(R)	1218	257	546	622	54	448	220	80	457	237	248	403	76	376	303	324	324	368	200	324	8-Φ19	305	150	260	8-Φ19	4-Φ29	718	696
10/8E-ZM(R)	1343	257	546	622	54	448	220	80	457	306	381	613	76	413	451	540	401	445	250	394	8-Φ22	382	200	337	8-Φ22	4-Φ29	1625	1164
12/10F-ZM(R)	1549	349	762	857	95	636	280	100	610	324	438	696	98	451	476	603	470	552	305	495	8-Φ32	483	254	425	8-Φ32	4-Φ35	1998	1340
300S-ZL(R)	1720	640	760	920	70	780	280	120	450	300	475	740	90	415	599	634	570	560	350	500	12-Φ26	530	300	470	12-Φ26	4-Φ35	2270	1802
350S-ZL(R)	1776	640	760	920	70	780	280	120	450	340	530	825	90	425	643	691	620	640	400	580	12-Φ26	590	350	530	12-Φ26	4-Φ35	3630	2823
400ST-ZL(R)	1840	620	900	1150	80	780	280	120	650	375	600	942	125	480	747	809	740	720	450	650	12-Φ33	685	400	615	12-Φ33	4-Φ48	4210	3212
450ST-ZL(R)	1875	620	900	1150	80	780	280	120	650	400	660	1040	125	500	814	872	800	770	500	700	12-Φ33	740	450	670	12-Φ33	4-Φ48	5596	4211
500T-ZL(R)	2291	880	900	1150	80	1040	350	150	650	437	780	1251	125	492	1013	1112	975	875	550	780	12-Φ39	850	500	750	12-Φ39	4-Φ48	8172	6356
550TU-ZL(R)	2400	860	1200	1460	95	1050	350	150	900	625	860	1313	150	625	1055	1142	975	975	650	880	12-Φ39	900	550	800	12-Φ39	4-Φ79	10900	8263
650TU-ZL(R)	2517	860	1200	1460	95	1050	350	150	900	641	1020	1553	150	641	1248	1360	1175	1175	800	1092	12-Φ55	1050	650	950	12-Φ45	4-Φ79	18780	13915

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