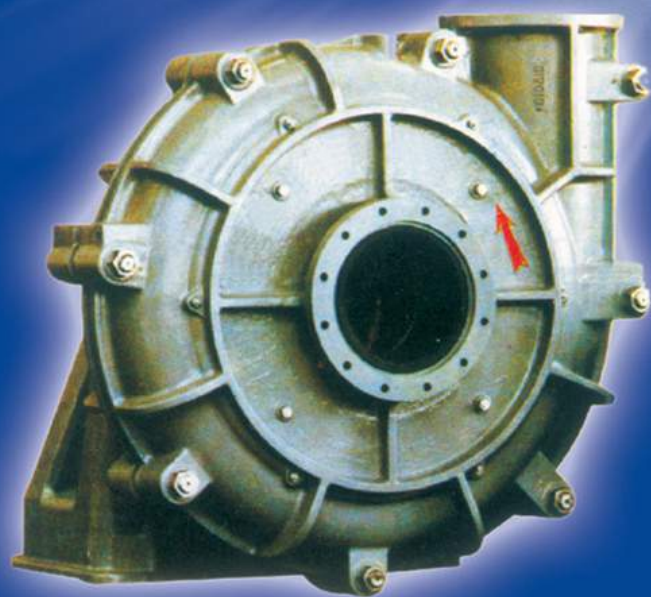


SHIJIAZHUANG
NAIPU PUMP
CO.,LTD



耐普泵业

NAIPU PUMP



石家庄耐普泵业有限公司
SHIJIAZHUANG NAIPU PUMP CO.,LTD

简介

企业简介 INTRODUCTION

石家庄耐普泵业有限公司

SHIJIAZHUANG
NAIPU PUMP CO.,LTD

石家庄耐普泵业有限公司位于河北省石家庄市高新开发区，是集设计、开发、生产、销售、服务为一体的企业，公司聚集了一批高素质的科技和管理人才，拥有水力机械、铸造、热处理、工程材料、机械加工等专业中高级工程技术人员。公司生产工艺先进、测试设备齐全、技术力量雄厚，有完善的管理、销售体系及良好的售后服务。

公司专业从事渣浆泵及其配件的生产销售，依托集团总公司的雄厚实力和国内知名科研机构的科研成果，特别专注于高耐磨防腐橡胶制品的开发生产，产品包括ZJ(R)、ZJM、ZJH、ZJL、ZJS系列渣浆泵，ZJG、ZG系列渣浆泵，WS(G)挖泥泵，TL(R)脱硫泵，PNJ衬胶泵。产品广泛应用于矿山、电力、冶金、煤炭、水利疏浚、建材等行业输送精矿、尾矿、灰渣、煤泥等强磨蚀、高浓度渣浆。满足了使用单位工艺要求，达到了延长设备寿命、降低成本、安全生产的目的。用户遍布国内三十多个省市，同时远销东南亚、北美、南美，俄罗斯等国际市场。

公司遵循“科技领先、质量为本、服务至上、满足用户”经营理念，以“团结求实、开拓创新”的企业精神，期待与国内外客户共创美好未来。

Company Profile

Shijiazhuang Naipu Pump Co., Ltd is a professional manufacturing enterprise of slurry pumps located in high and new technology development zone. The enterprise has one group of high quality technical and management talent working in Design, R & D, Production, Sales and Services. The technical team consists of talents specialized in hydraulic machinery, casting, heat treatment, engineering, material science and machining. The company manufactures its products using advanced technique based on well built management and sales & service system. Product quality is guaranteed with various test and inspection facilities.

Naipu is specialized in the manufacture and sales of slurry pump and pump parts, especially the design and manufacture of products made with high abrasive, anti corrosive rubber material, including ZJ(R)、ZJM、ZJH、ZJL、ZJS series slurry pump, ZJG.ZG series slurry pump, WS(G) series dredging pump, TL(R) Desulphurization pump and PNJ series slurry pump. The products are widely used in mining, power, metallurgy, coal, dredging, building material and other Industrial lines to pump concentrate, tailings, sludge and other abrasive, high density slurries. Meeting customers' technical requirements and with a long lifespan, lower cost and high safety. Our products are sold well all over of china and far to southeast Asia, North America, South America, Russia and etc.

We are confident that we can offer customers satisfying products and services with our continuous efforts in product research and improvement. We look forward to working with customers domestic and abroad to build a promising future.

SHIJIAZHUANG NAIPU PUMP

ZJ(R)、ZJM、ZJH 型渣浆泵

ZJ(R)、ZJM、ZJH SLURRY PUMPS



特点和用途:

ZJ(R)、ZJM、ZJH型泵为悬臂、卧式离心渣浆泵。适用于冶金、矿山、煤炭、电力、建材等工业部门输送强磨蚀、高浓度渣浆。该类型泵也可以多级串联使用。

ZJ(R)、ZJM型泵的泵体具有可更换的耐磨金属内衬或橡胶内衬，叶轮采用耐磨金属或橡胶材料。HH型泵的泵体内衬和叶轮仅采用耐磨金属。

ZJ(R)、ZJM、ZJH型泵的轴封可采用填料密封或离心式密封，泵的吐出口位置可根据需要按45° 间隔，旋转八个不同的角度安装使用。

APPLICATION AND FEATURES

Type ZJ(R), ZJM, and ZJH pumps are cantilevered, horizontal, centrifugal slurry pumps. They are designed for the handling highly abrasive, high density slurries in the metallurgical, mining, coal, power, building material and other industrial departments etc. The pumps of this type also may be installed in multistage series.

The frame plates for type ZJ(R), ZJM pumps have replaceable wear-resistant metal liners or rubber liners. The impellers are made of wear-resistant metal or rubber. The frame plate liner and impeller for HH pump are adoptable of wear-resistant metal only.

The shaft seals for type ZJ(R), ZJM, and ZJH pumps may be adoptable of gland seal or expeller seal. The discharge branch can be positioned at intervals of 45 degrees by request and oriented to any eight positions to suit installations and applications.

型号意义: TYPE NOTATION

150ZJ(或ZJM, ZJH)

150 —— 泵吐出口直径 (mm)

ZJH —— 高扬程渣浆泵

ZJ、ZJM —— 渣浆泵

150ZJ(or ZJM, ZJH)

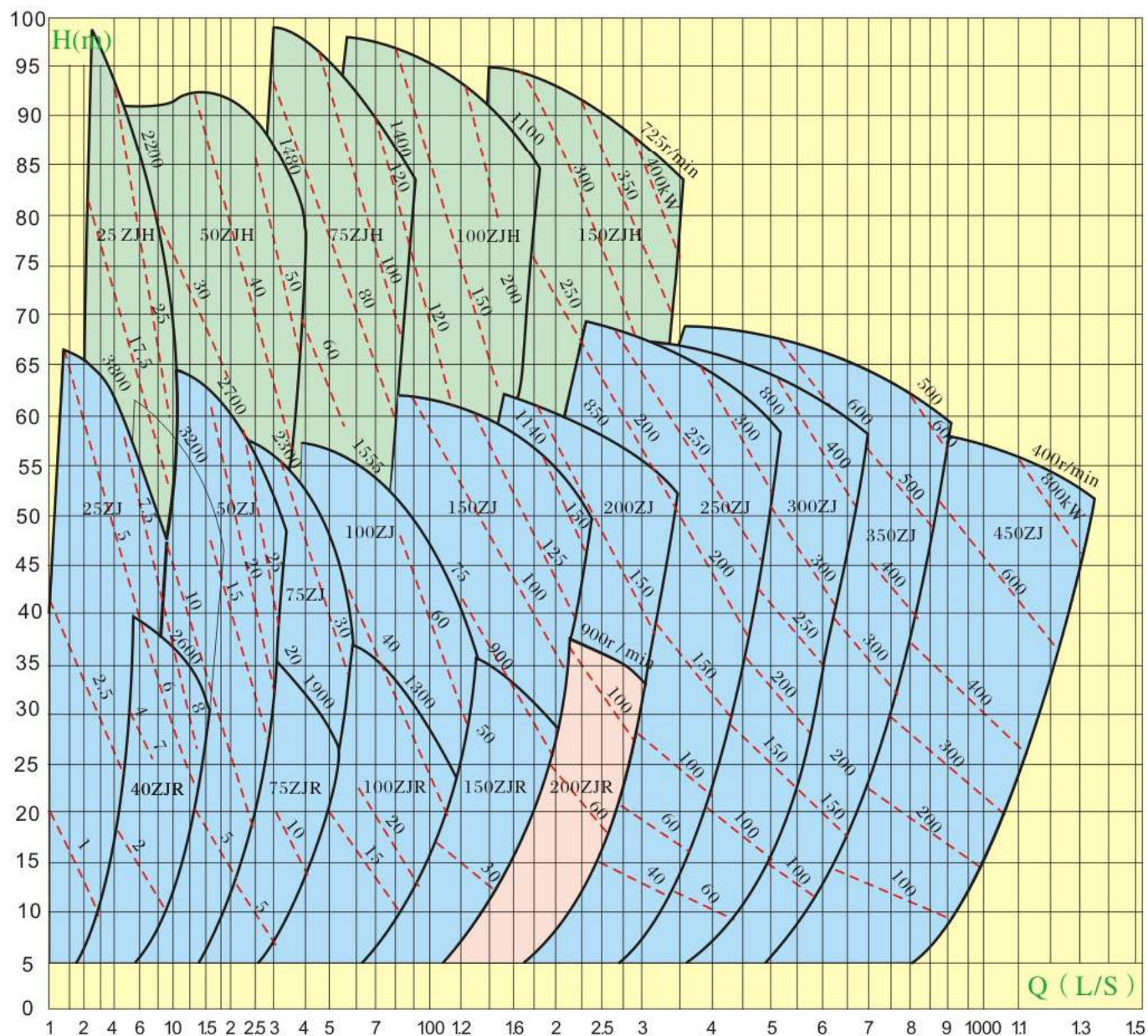
150 —— Discharge diameter(mm)

ZJH —— High head slurry pump

ZJ、ZJM —— Slurry pump



ZJ(R)、ZJM、ZJH 型渣浆泵型谱
SELECTION CHART FOR TYPE ZJ(R)、ZJM & ZJH SLURRY PUMPS



注：此图为清水性能，仅供初步选型使用。

Note: Approximate performance for clear water, to be used for primary selection only.

ZJ(R)、ZJM、ZJH 系列渣浆泵性能表
ZJ(R)、ZJM、ZJH Slurry Pump Performance Parameters

型号 TYPE	允许配带 最大功率 ALLOWABLE MATING MAX. POWER (KW)	材质 MATERIAL		清水性能 CLEAR WATER PERFORMANCE						叶轮 IMPELLER	
		护套 LINER	叶轮 IMPEL	流量 Q CAPACITY		扬程 HEAD H (m)	转速 SPEED n (r/min)	最高效率 MAX. EFF (%)	汽蚀余量 NPSH (m)	叶片数 NO. OF VANES	叶轮直径 IMPEL. DIA. (mm)
				(m³/h)	(l/s)						
25ZJ	15	M	M	12.6-28.8	3.5-8	6-68	1200-3800	40	2-4	5	152
		RU	RU	10.8-25.2	3-7	7-52	1400-3400	35		3	
25ZJH	30	M	M	16.2-34.2	4.5-9.5	25-92	1400-2200	20	2-5.5	5	330
40ZJ	15	M	M	32.4-72	9-20	6-58	1200-3200	45	3.5-8	5	184
		RU	RU	25.2-54	7-15	5.5-41	1000-2600	50	2.5-5		178
50ZJ	30	M	M	39.6-86.4	11-24	12-64	1300-2700	55	4-6	5	214
		RU	RU	36-75.6	10-21	13-39	1300-2100	55	2-4		213
50ZJH	60	M	M	68.4-136.8	19-38	25-87	850-1400	47	3-7.5	5	457
75ZJ	30	M	M	86.4-198	24-55	9-52	1000-2200	71	4-6	5	245
		RU	RU	79.2-180	22-50	5-34.5	800-1800	59	3-5		
75ZJH	120	M	M	126-252	35-70	12-97	600-1400	50	2-5	5	508
100ZJ	60	M	M	162-360	45-100	12-56	800-1550	65	5-8	5	365
		RU	RU	144-324	40-90	12-45	800-1350	65	3-5		
100ZJH	560	M	M	324-720	90-200	30-118	600-1000	64	3-8	5	711
150ZJH	560	M	M	468-1008	130-280	20-94	500-1000	65	4-12	5	711
150ZJ	300	M	M	360-828	100-230	10-61	500-1140	72	2-9	5	510
		RU	RU	324-720	90-200	7-49	400-1000	65	5-10		
200ZJM	120	M	M	666-1440	185-400	14-60	600-1100	73	4-10	5	549
200ZJ	560	M	M	612-1368	170-380	11-61	400-850	71	4-10	5	686
		RU	RU	540-1188	150-330	12-50	400-750	75	4-12		
250ZJ	560	M	M	936-1980	260-550	7-68	300-800	82	6	5	762
		RU	RU	720-1620	200-450	7-45	300-650	80	2.5-7.5		
300ZJ	560	M	M	1260-2772	350-770	13-63	300-600	77	3-10	5	965
		RU	RU	1152-2520	320-700	13-44	300-500	79	3-8		
350ZJ	1200	M	M	1368-3060	380-850	11-63	250-550	79	4-10	5	1067
450ZJ	1200	M	M	2520-5400	700-1500	13-57	200-400	85	5-10	5	1370

注: 1. “M” 代表合金耐磨材料, “RU” 代表橡胶材料。
2. 推荐流量范围 $50\%Q' \leq Q \leq 110\%Q'$ ($Q' \approx$ 相应于最高效率点流量)
3. NPSH是指最高转速时, 推荐Q点所对应的NPSH值。

NOTE: 1. “RU”: rubber, “M”: alloy wear-resistant material,
2. Capacity range recommended: $50\%Q' \leq Q \leq 110\%Q'$
($Q' \approx$ Appropriate to capacity at highest efficiency point)
3. NPSH: Appropriate to point Q recommended at highest speed.

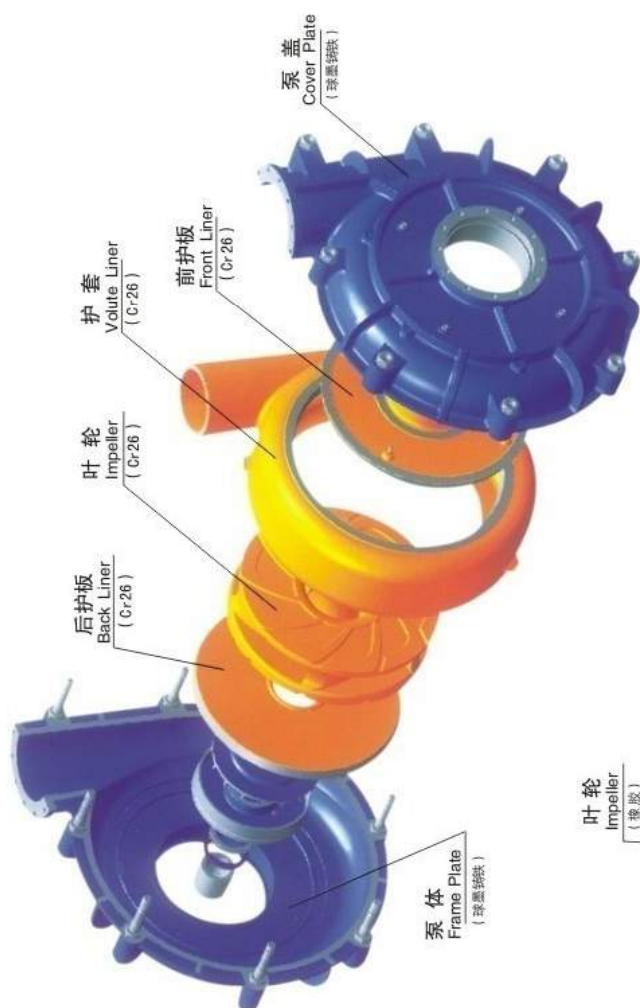
结构设计 Construction Desing

ZJ(R)、ZJM渣浆泵有高铬合金和耐磨橡胶件两种结构形式，合金与橡胶过流件可以混合交叉使用。

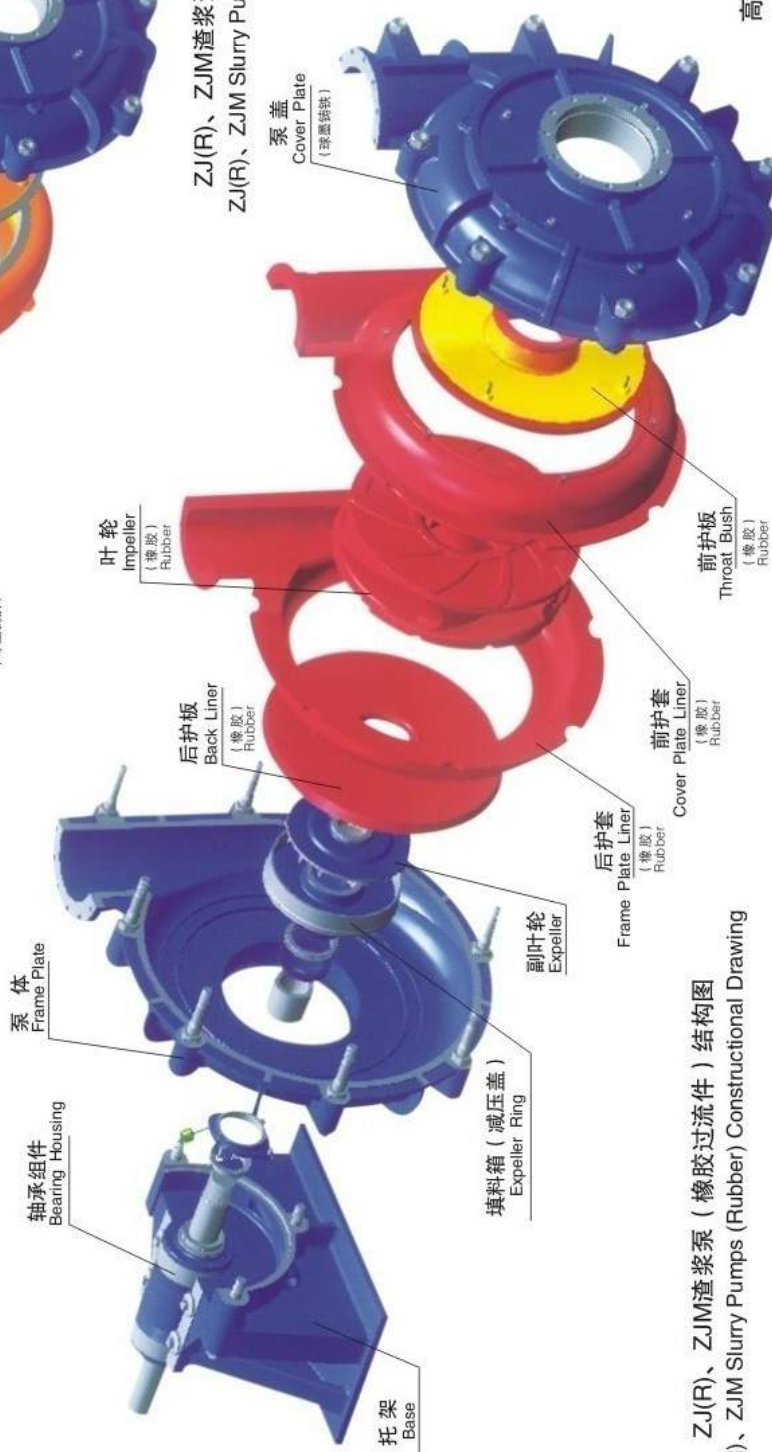
如：橡胶护套、护板与合金叶轮配合使用

橡胶叶轮与合金护套、护板配合使用

The frame plates for type ZJ(R), ZJM pumps have replaceable wear-resistant metal liners or rubber liners. The impellers are made of wear-resistant metal or rubber.



ZJ(R)、ZJM渣浆泵 (高铬合金过流件) 结构图
ZJ(R)、ZJM Slurry Pumps (Cr26) Constructional Drawing



ZJ(R)、ZJM渣浆泵 (橡胶过流件) 结构图
ZJ(R)、ZJM Slurry Pumps (Rubber) Constructional Drawing

高铬合金件与耐磨橡胶件可互
换的ZJ(R)、ZJM渣浆泵结构图

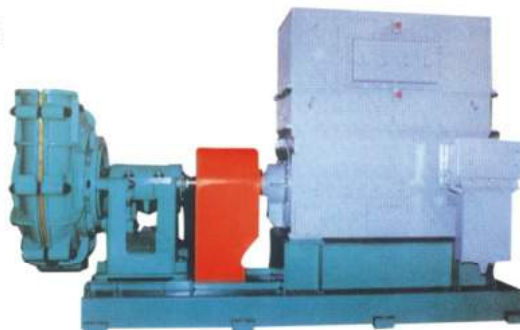
传动形式

Drive Style

CV



DCZ



ZVZ



CRZ

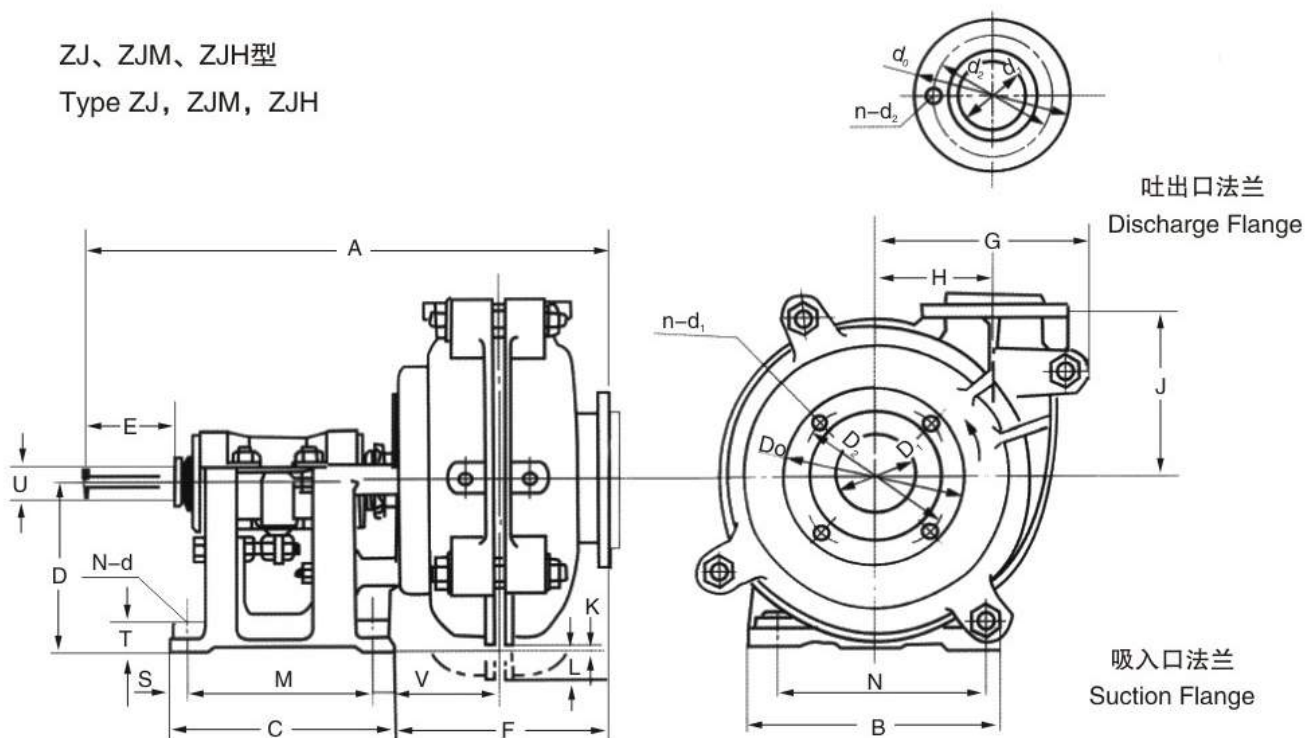


外形安装尺寸图

Outline Dimensions & List

ZJ、ZJM、ZJH型

Type ZJ, ZJM, ZJH





ZJ(R)、ZJM、ZJH 型渣浆泵外型尺寸表

Type ZJ(R)、ZJM、ZJH Slurry Pumps Outline Dimension

型号 TYPE	A	B	C	D	U	E	F	G	H	J	K	L	M	N	V	T	S	n-d	吸入口法兰 Suction Flange				吐出口法兰 Discharge Flange				泵重PUMP WEIGHT(kg)	
																			D ₀	D ₁	D ₂	n-d ₁	d ₀	d ₁	d ₂	n-d ₂	金属 METAL	橡胶 RUBBER
25ZJ	583	295	248	197	28	79	206	181	98	171	46	-	143	254	181	38	24	4-φ14	152	38	114	4-φ16	165	25	127	4-φ16	91	77
25ZJH	759	406	311	254	42	121	306	270	194	254	-	11	175	356	252	48	32	4-φ19	152	38	114	4-φ17	152	25	114	4-φ17	318	-
40ZJ	592	295	248	197	28	79	217	205	114	184	33	-	143	254	184	38	24	4-φ14	184	51	146	4-φ19	165	38	127	4-φ19	104	118
50ZJ	768	406	311	254	42	121	281	238	138	210	71	-	175	356	233	48	32	4-φ19	216	76	178	4-φ19	184	51	146	4-φ19	191	154
50ZJH	986	492	364	330	65	164	389	384	254	368	-	51	213	432	298	64	38	4-φ22	216	76	178	8-φ19	203	51	165	4-φ19	750	-
75ZJ	843	406	311	254	42	121	354	292	149	262	24	-	175	356	270	48	32	4-φ19	279	102	235	4-φ22	229	76	191	4-φ22	263	236
75ZJ(1)	943	492	364	330	65	164	353	292	149	262	100	-	213	432	279	64	38	4-φ22	279	102	235	4-φ22	229	76	191	4-φ22	363	290
75ZJH	1240	622	448	457	80	222	492	492	330	432	-	-	257	546	381	76	54	4-φ29	254	102	210	8-φ19	254	76	210	8-φ19	1250	-
100ZJ	1021	492	364	330	65	164	421	406	229	338	11	-	213	432	318	64	38	4-φ22	337	152	292	4-φ22	279	102	235	4-φ22	626	454
100ZJ(1)	1178	622	448	457	80	222	433	406	229	338	138	-	257	546	351	76	54	4-φ29	337	152	292	4-φ22	279	102	235	4-φ22	728	635
100ZJH	1668	920	780	450	120	280	596	616	413	546	-	134	640	760	353	90	70	4-φ35	337	152	292	8-φ22	305	102	260	8-φ22	2880	-
150ZJ	1302	622	448	457	80	222	557	551	318	460	-	62	257	546	402	76	54	4-φ29	406	203	356	8-φ22	368	152	324	8-φ21	1473	982
150ZJ(1)	1360	680	590	350	85	215	-	511	318	460	-	170	490	560	312	70	50	4-φ28	406	203	356	8-φ22	368	152	324	8-φ22	1655	-
150ZJ(Ⅱ)	2275	1150	1040	650	150	350	852	835	584	813	-	160	880	900	538	125	80	4-φ48	432	203	375	8-φ29	432	152	375	8-φ29	6586	-
200ZJM	1337	622	448	457	80	222	584	613	381	470	-	83	257	546	403	76	54	4-φ29	502	254	445	8-φ29	432	203	375	8-φ29	1625	1202
200ZJM(1)	1395	680	590	350	85	215	-	613	381	470	-	190	490	560	314	70	50	4-φ28	502	254	445	8-φ29	432	203	375	8-φ29	1836	-
200ZJ	1748	1150	780	650	120	280	692	673	419	635	27	-	620	900	439	125	80	4-φ48	502	254	445	8-φ29	432	203	375	8-φ29	3750	3130
250ZJ	1816	1150	780	650	120	280	762	755	464	674	-	65	620	900	461	125	80	4-φ48	527	305	470	12-φ25	527	254	470	12-φ25	4318	3357
300ZJ	1873	1150	780	650	120	280	812	937	629	832	-	224	620	900	486	125	80	4-φ48	585	356	521	12-φ25	552	305	495	12-φ25	6409	4672
350ZJ	2320	1460	1050	900	150	350	953	1048	660	889	-	84	860	1200	597	150	95	4-φ79	705	406	641	12-φ35	673	356	610	12-φ29	10000	-
450ZJ	2475	1460	1050	900	150	350	1100	1420	940	1230	-	420	860	1200	615	150	95	4-φ79	900	508	800	12-φ42	900	460	800	12-φ42	18864	15921
150ZJH	1700	920	780	450	120	280	622	625	415	615	-	155	640	760	382	90	70	4-φ35	380	152	320	8-φ27	420	150	360	8-φ27	-	-

ZJG 型渣浆泵

ZJG SLURRY PUMPS



特点和用途:

为了满足电力、冶金、煤炭等行业发展的需要，针对除灰除渣及渣浆输送工况的特点，在几十年渣浆泵设计制造经验基础上，广泛吸取国内外先进技术和研制成果，我公司开发了我国最新一代大流量、高扬程、可多级串联的ZJG (P) 系列渣浆泵。

采用现代CAD设计方法，水力性能优良，效率高和磨损率低；流道宽畅，抗堵塞性能好，汽蚀性能优越；采用付叶轮加填料组合式密封和机械密封，确保渣浆无泄漏；可靠性设计，保证了整机平均无故障工作时间 (MTBF) 大幅度提高；采用稀油润滑公制轴承，合理设置润滑与冷却系统，保证轴承在低温状态下运行；过流部件采用特殊材质，耐磨耐腐蚀性能好；经特殊处理，用于海水除灰及海水和盐雾电化学腐蚀工况；在允许的压力范围内可以多级串联使用，其允许最大工作压力为3.6Mpa。该系列渣浆泵产品具有结构合理、效率高、运行可靠和维修方便等优点，广泛适用于电力、冶金、矿山、煤炭、建材、化工等工业部门输送磨蚀性或腐蚀性渣浆。

APPLICATION AND FEATURES

In order to meet the requirements on the development of the electric power, metallurgy and coal industries, our works has designed and developed Series ZJG(P) Up-to-date Generation Slurry Pump with large capacity, high head, multi-stages in series to remove ash & sludge and to deliver liquid-solids mixture, based on the experience of slurry pump design and manufacture for many years, and abstracting the research results of advanced technology from home and abroad.

CAD modern design, super hydraulic performance, high efficiency and lower abrasion rate; Wide passage, non-clogging and good performance of NPSH; Expeller seal combined with packing seal and mechanical seal have been adopted to guarantee the slurry from leakage; Reliability design ensures long MTBF (mean time between events); The metric bearing with oil lubrication, reasonable lubricating and cooling systems ensure the bearing to be operated under the low temperature; The materials of wet parts have the good performance of anti-wearing and anticorrosion; The pump can be used for seawater ash-removing to prevent it from the corrosion of seawater, salt and mist, and electrochemical corrosion; The pump can be operated in series with multi-stage within permissible pressure. The permissible maximum working pressure is 3.6Mpa. The series of pump has the advantages of reasonable construction, high efficiency, reliable operation and easy maintenance. It can be widely used for handling the mixture containing abrasive and corrosive solids in electric power, metallurgy, mine, coal, constructional material and chemical industry departments.

型号意义:

TYPE NOTATION

100 ZJG (P)
 — 多级串联 (三、四级)
 (一、二级无标记)
 — 高扬程渣浆泵
 — 排出口直径 (mm)

100 ZJG (P)
 — Multi-stage pumps (3-4 stages)
 (1-2 stage without the mark)
 — High head slurry pump
 — Outlet diameter (mm)



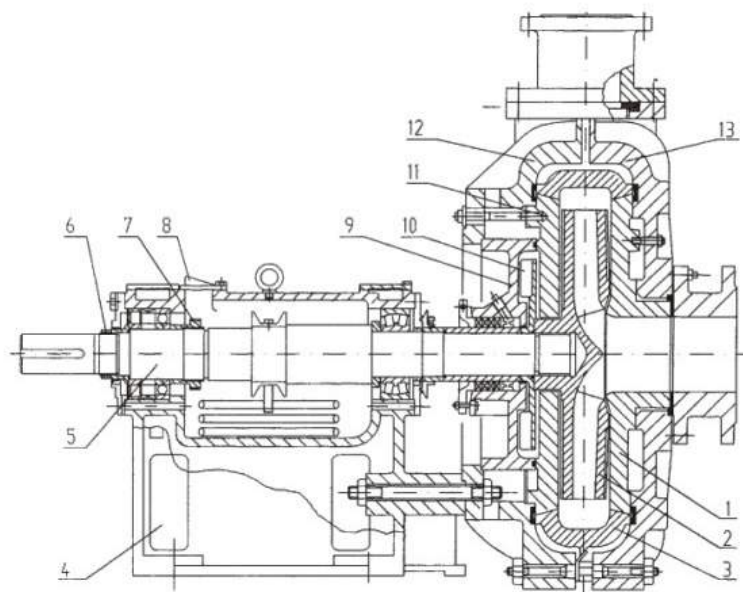
ZJG(P) 型渣浆泵性能表

ZJG(P) Slurry Pump Performance Parameters

泵型号 Pump Type	吐出口径 Outlet (mm)	转 速 n Speed (r/min)	清 水 性 能				轴功率Pa Power On Shaft (kW)	叶轮直径 Impeller Dia. (mm)	泵重量 Pump Weight (Kg)
			流量 Q Capacity (L/S)	扬程 H Head (m)	效率 η Eff. (%)	汽蚀余量 NPSH (m)			
65ZJG	65	1480	15.8-31.7	58-61.0	48.0-54.0	3.0-5.5	19.7-33.4	390	1850
		980	10.5-21.0	25.4-26.7	48.0-54.0	3.0-5.5	5.73-9.69		
80ZJG(P)	80	1480	28.3-56.7	87.5-91.6	45.3-64.2	2.7-5.2	56.0-75.7	485	2500
		980	18.8-37.5	38.4-40.2	45.3-64.2	2.7-5.2	16.3-22.0		
		1480	25.7-51.5	72.2-75.5	45.3-64.2	2.7-5.2	42.0-56.7	445	
		980	17.1-34.1	31.7-33.1	45.3-64.2	2.7-5.2	12.2-16.5		
		1480	23.1-46.2	58.3-61.0	45.3-64.2	2.7-5.2	30.5-41.1	400	
		980	15.3-30.6	25.6-26.7	45.3-64.2	2.7-5.2	8.8-12.0		
100ZJG(P)	100	1480	58.3-116.7	85.1-91.8	57.4-77.9	2.6-6.0	91.4-124.9	500	3000
		980	38.6-77.3	37.3-40.3	57.4-77.9	2.6-6.0	26.6-36.3		
		1480	52.5-105.0	68.9-74.4	57.4-77.9	2.6-6.0	66.7-91.0	450	
		980	34.8-69.5	30.2-32.6	57.4-77.9	2.6-6.0	19.4-26.4		
		1480	46.7-93.4	54.5-58.8	57.4-77.9	2.6-6.0	46.9-64.0	400	
		980	30.9-61.8	23.9-25.8	57.4-77.9	2.6-6.0	13.6-18.6		
150ZJG(P)	150	980	100.0-200.0	85.2-90.0	50.5-73.7	2.7-3.8	174.4-226.6	740	3450
		740	75.6-151.2	48.6-51.3	50.5-73.7	2.7-3.8	75.3-97.7		
		980	91.2-182.4	73.0-77.1	50.5-73.7	2.7-3.8	135.6-177.1	685	
		740	70.2-140.0	41.6-44.0	50.5-73.7	2.7-3.8	59.9-77.7		
		980	84.6-169.2	61.8-65.2	50.5-73.7	2.7-3.8	107.0-139.0	630	
		740	64.8-129.6	35.2-37.2	50.5-73.7	2.7-3.8	46.7-60.7		
200ZJG(P)	200	980	150.0-300.0	89.0-94.2	63.2-76.3	2.7-6.7	219.1-342.9	740	4000
		740	113.3-226.5	50.7-53.7	63.2-76.3	2.7-6.7	94.3-147.5		
		980	141.9-283.8	79.6-84.3	63.2-76.3	2.7-6.7	185.8-290.2	700	
		740	107.1-214.3	45.4-48.1	63.2-76.3	2.7-6.7	80.0-125.0		
		980	129.7-259.5	66.6-70.5	63.2-76.3	2.7-6.7	141.8-222.0	640	
		740	97.9-195.9	38.0-40.2	63.2-76.3	2.7-6.7	61.0-95.6		
250ZJG(P)	250	980	200.0-400.0	84.0-90.1	62.1-76.2	3.3-7.3	284.4-432.1	740	4500
		740	151.0-302.0	47.9-51.4	62.1-76.2	3.3-7.3	122.5-186.0		
		980	189.2-378.4	75.2-80.6	62.1-76.2	3.3-7.3	240.7-366.0	700	
		740	142.9-285.7	42.9-46.0	62.1-76.2	3.3-7.3	103.6-157.6		
		980	131.6-348.6	63.8-68.5	62.1-76.2	3.3-7.3	142.2-286.0	645	
		740	99.4-263.2	36.4-39.1	62.1-76.2	3.3-7.3	61.3-123.2		
300ZJG	300	980	266.7-533.3	84.3-93.4	65.3-77.7	3.3-7.3	373.8-567.0	760	5500
		740	201.3-402.7	48.1-53.3	65.3-77.7	3.5-6.9	163.7-244.3		
		980	246.7-493.3	72.1-79.9	65.3-77.7	3.5-6.9	295.8-448.6	703	
		740	177.9-372.5	41.1-45.6	65.3-77.7	3.5-6.9	121.7-193.1		
		980	266.7-453.3	60.9-67.5	65.3-77.7	3.5-6.9	299.7-348.2	646	
		740	171.2-342.3	34.7-38.5	65.3-77.7	3.5-6.9	98.8-149.8		

ZJG 型渣浆泵

Type ZJG Slurry Pump



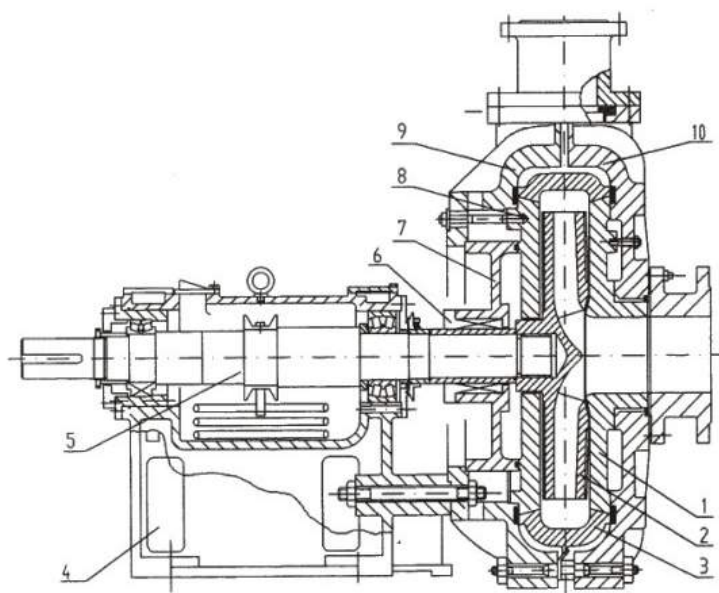
- | | |
|-------|--------------------|
| 1、前护板 | FRONT LINER INSERT |
| 2、叶轮 | IMPELLER |
| 3、护套 | VOLUTE |
| 4、托架体 | FRAME BODY |
| 5、轴 | SHAFT |

- | | |
|---------|--------------------|
| 6、螺母乙 | ADJUSTING SCREW(B) |
| 7、调整螺母甲 | ADJUSTING SCREW(A) |
| 8、调整孔盖 | ADJUSTING COVER |
| 9、减压盖 | EXPELLER RING |

- | | |
|--------|-------------------|
| 10、付叶轮 | EXPELLER |
| 11、后护板 | BACK LINER INSERT |
| 12、泵体 | PUMP BODY |
| 13、泵盖 | PUMP COVER |

ZJGP型渣浆泵

Type ZJGP Slurry Pump



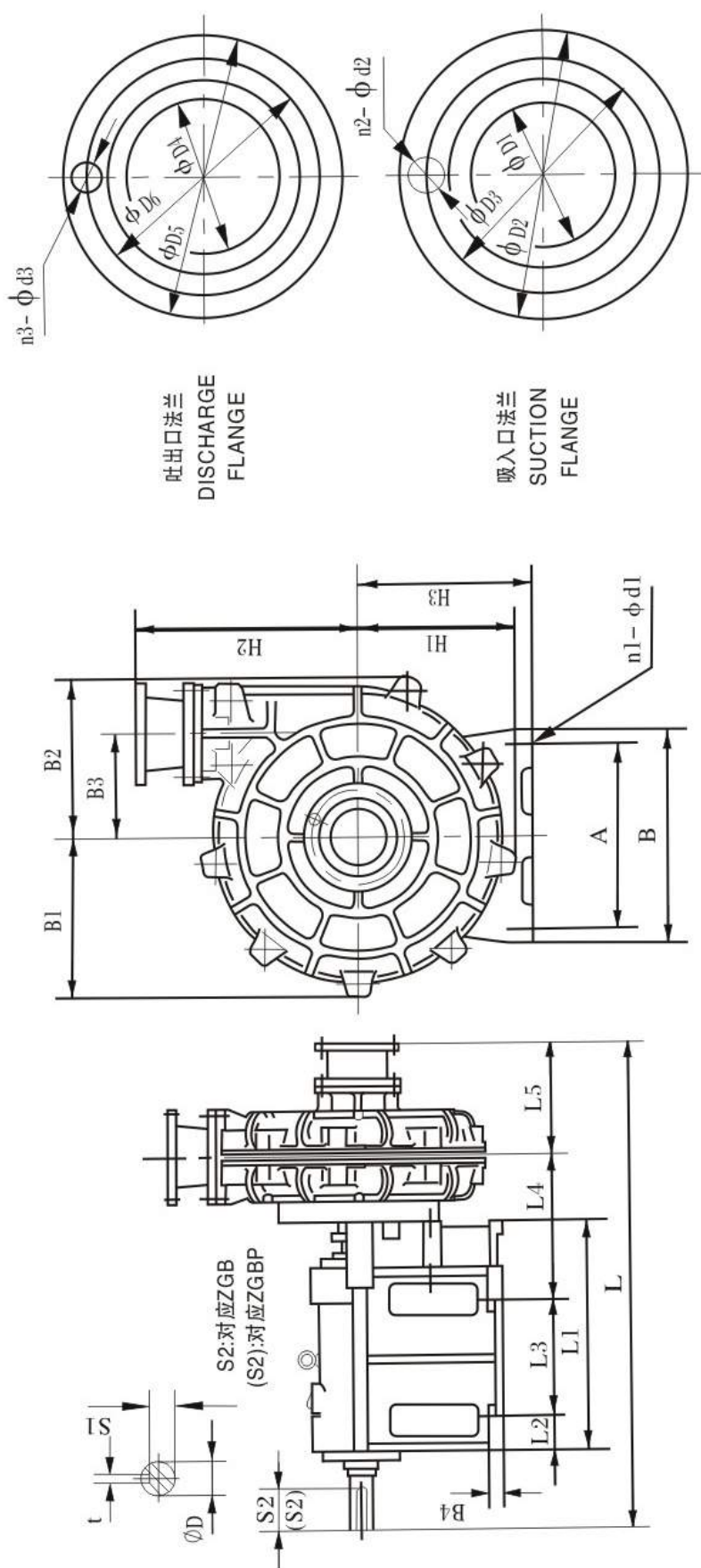
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|-------|--------------------|
| 1、前护板 | FRONT LINER INSERT |
| 2、叶轮 | IMPELLER |
| 3、护套 | VOLUTE |
| 4、托架体 | FRAME BODY |

- | | |
|--------|-----------------|
| 5、轴 | SHAFT |
| 6、机械密封 | MECHANICAL SEAL |
| 7、密封箱 | SEALING BOX |

- | | |
|-------|-------------------|
| 8、后护板 | BACK LINER INSERT |
| 9、泵体 | PUMP BODY |
| 10、泵盖 | PUMP COVER |

ZJG(P) 型渣浆泵外形尺寸

Outline Dimensions & List of Type ZJG(P) Pump



型号	尺寸	A	B	B1	B2	B3	B4	D	D1	D2	D3	D4	D5	D6	H1	H2	H3	L	L1	L2	L3	L4	L5	n1-φd ₁	n2-φd ₂	n3-φd ₃	S1	S2	(S2)	t
65ZJG		432	492	352.5	377	220	45	65 ^{±0.016}	80	210	168.5	65	190	149	360.5	475	415	1379.5	580	45	340	400.5	330	4-φ22	8-φ22	8-φ22	58 ^{±0.14}	150		18 ^{±0.016}
80ZJG(P)		560	636	360	445	279	50	80 ^{±0.020}	100	255	200	80	210	168.5	383	560	520	1598	725	72	440	451	296	4-φ29	8-φ22	8-φ22	71 ^{±0.2}	203	180	22 ^{±0.063}
100ZJG(P)		560	636	395	467	290	50	80 ^{±0.020}	152	320	270	100	275	216	394	597	520	1718	725	72	440	467	402	4-φ29	12-φ22	8-φ26	71 ^{±0.2}	203	180	22 ^{±0.063}
150ZJG(P)		760	840	619	684	453	60	120 ^{±0.030}	200	380	330	150	320	270	655	820	650	2006	1013	118	560	615	388	4-φ35	12-φ26	12-φ22	109 ^{±0.1}	200	180	32 ^{±0.063}
200ZJG(P)		760	840	675	735	460	60	120 ^{±0.030}	250	425	370	200	380	330	695	880	650	2213	1013	118	560	628	579	4-φ35	12-φ26	12-φ26	109 ^{±0.1}	200	180	32 ^{±0.063}
250ZJG(P)		780	950	645	710	460	60	120 ^{±0.030}	300	515	450	250	445	387.5	680.3	974	650	2160	978	128	550	628	500	4-φ40	16-φ33	16-φ30	109 ^{±0.1}	200	180	32 ^{±0.063}
300ZJG		780	950	649	766	475	60	120 ^{±0.030}	350	585	514.5	300	520	451	676	883	650	2282	978	128	550	628	610	4-φ40	20-φ33	16-φ33	109 ^{±0.1}	200		32 ^{±0.063}



特点和用途:

ZJ和ZJLR型液下泵为立式离心渣浆泵，浸入液下，用于输送磨蚀性、粗颗粒、高浓度渣浆。不需要任何轴封和轴封水，在吸入量不足的工况下也能正常工作。

ZJL型泵过流部件由耐磨金属制成。适用于输送磨蚀性渣浆。

ZJLR型泵浸入液下的零部件均有橡胶外衬。适用于输送无棱角的磨蚀性渣浆。

APPLICATION AND FEATURES

Type ZJ and ZJLR pumps are vertical, centrifugal slurry pumps submerged in sump to work. They are designed for delivering abrasive, large particle and high density slurries. These pumps have no need of any shaft seal and sealing water. They can also be operated normally for insufficient suction duties.

Wet parts of type ZJL pump are made of abrasion-resistant metal.

All parts of type ZJLR pump immersed in liquid are lined with rubber outer liner. They are suited to transport non-edge angle abrasive slurry.

型号意义:

TYPE NOTATION

例如: 40ZJL(R)

40—泵吐出口直径 (mm)

ZJL—液下渣浆泵

ZJLR—衬胶液下渣浆泵

SUCH AS: 40ZJL(R)

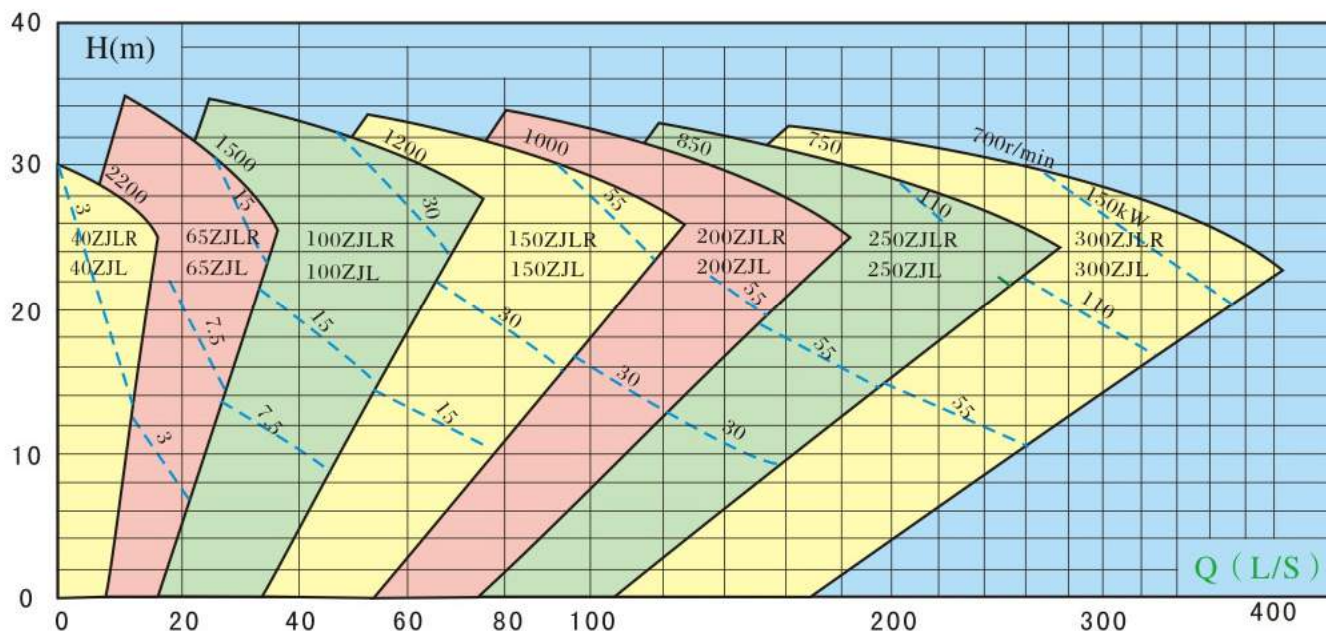
40 — Outlet diameter (mm)

ZJL — Slurry pump submerged in sump

ZJLR— Slurry pump submerged in sump,
rubber lined



ZJL、ZJLR 型液下泵型谱
Type ZJL、ZJLR Sump Pumps Selection Chart



注：此图为清水性能，仅供初步选型使用。

Note: Approximate Performance for clear water is used for primary selection only.

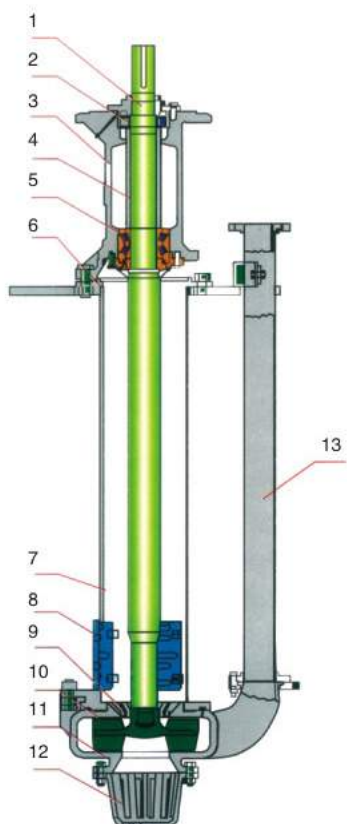
ZJL、ZJLR型液下泵性能表
Clear Water Performance for ZJL and ZJLR Sump Pumps

型 号 TYPE	允许配代 最大功率 (Kw) Allowable Mating Max. Power	材 质 MATERIAL		性能范围 Range of Performance					叶 轮 IMPELLER	
		护套 LINER	叶轮 IMPEL	流量 Q CAPACITY		扬程 H (m) Head H	转速 n SPEED n	最高 效率 Max. Eff (%)	叶片数 No. of Vanes	叶轮 外径 Impeller Diameter (mm)
				(m³/h)	(l/s)					
40ZJL	15	M	M	19.44-43.2	5.4-12	4.5-28.5	1000-2200	40	5	188
40ZJLR		RU	RU	17.28-39.6	4.8-11	4-26	1000-2200	40	5	188
65ZJL	30	M	M	23.4-111	6.5-30.8	5-29.5	700-1500	50	5	280
65ZJLR		RU	RU	22.5-105	6.25-29.15	5.5-30.5	700-1500	51	5	280
100ZJL	75	M	M	54-289	15-80.3	5-35	500-1200	56	5	370
100ZJLR		RU	RU	64.8-285	18-79.2	7.5-36	600-1200	62	5	370
150ZJ	110	M	M	108-479.16	30-133.1	8.5-40	500-1000	52	5	450
200ZJ	110	M	M	189-891	152.5-247.5	6.5-37	400-850	64	5	520
250ZJ	200	M	M	261-1089	72.5-302.5	7.5-33.5	400-750	60	5	575
300ZJ	200	M	M	288-1267	80-352	6.5-33	350-700	50	5	610

注： 1. “M” 是合金耐磨材料。“RU” 是橡胶材料。
NOTE: 1. “M” :alloy wear-resisant material. “RU” :rubber.

ZJL、ZJLR 型液下泵结构图

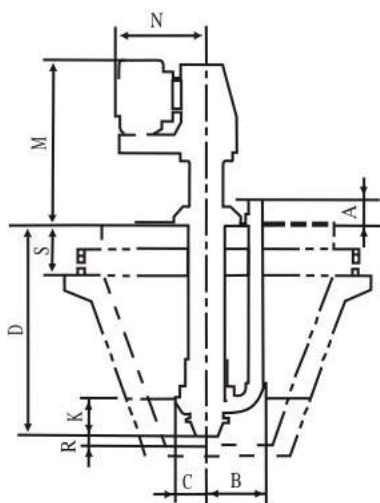
Constructional Drawing for ZJL and ZJLR Sump Pumps



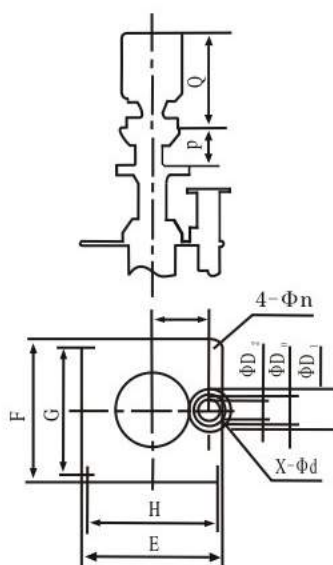
- | | |
|--------|-----------------|
| 1、轴 | SHAFT |
| 2、轴承 | BEARING |
| 3、轴承体 | BEARING HOUSING |
| 4、轴承挡套 | BEARING SPACER |
| 5、轴承 | BEARING |
| 6、调整垫 | SHIM |
| 7、支架 | COLUMN |
| 8、滤网 | STRAINER |
| 9、后护板 | BACK LINER |
| 10 叶轮 | IMPELLER |
| 11、泵体 | PUMP CASING |
| 12、下滤网 | LOWER STRAINER |
| 13、吐出管 | DISCHARGE PIPE |

外形安装尺寸图

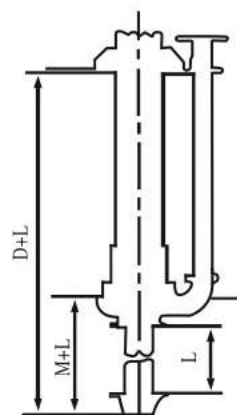
Outline Installation Drawing



皮带传动 Belt Drive



直接传动 Direct Coupled Drive





ZJL&ZJLR型液下泵外型尺寸表

Outline Dimensions for ZJL and ZJLR Sump Pumps

泵 PUMP		A	B	C	D	E	F	G	H	J	φn	K	M	N	P	Q	泵重 (kg) PUMP WEIGHT (kg)	S	出口法兰尺寸 DISCHARGE FLANGE SIZE			
																			φD1	φD2	φD0 X-φd	
吐出口 直径 (mm) SIZE (mm)	型 号 TYPE																					
40	ZJL	137	285	153	900*	500	500	450	450	205	18	174	1113	675	243	629	285	280	127	40	98	4-φ16
	ZJLR	140	265	175	1200								1113									
65	ZJL	227	399	231	900	680	680	620	620	285	18	265	1390	794	290	681	432	350	178	65	140	4-φ19
	ZJLR	230	380	260	1200* 1500 1500*								1396									
100	ZJL	265	538	317	1200 1500* 1800 2000 2400	1000	870	800	930	400	22	393	1803				867	350	229	100	191	8-φ19
	ZJLR	266	535	332	1200 1500* 1800								1809	1020	416	960						
150	ZJL	390	670	365	1500 1800* 2100	1100	1100	1030	1030	500	28	475	2186	1200	476	1011	1737	350	280	150	241	8-φ22
	ZJLR	395	670	400									2194									
200	ZJL	450	805	440	1500 1800* 2100	1300	1200	1100	1200	600	28	550	2191	1300	476	1011	2800	350	343	200	298	8-φ22
	ZJLR												2191									
250	ZJL	500	930	470	1800 2100* 2400	1750	1450	1350	1650	700	48	685	2572	1750	561	1246	3700	400	406	250	362	12-φ25
	ZJLR																					
300	ZJL	500	1170	559	1800 2100* 2400	1750	1450	1350	1650	700	48	700	2476	1750	561	1246		400	483	300	432	12-φ25
	ZJLR																					

注：L尺寸为：0、300、600、900、1200、1800；L为0时为标准泵的尺寸。

R尺寸范围：300-500mm。

NOTE:L size:0,300,600,900,1200,1800,Standard pump:L=0.

R dimension range:300-500mm.

注: L尺寸为: 0、300、600、900、1200、1800; L为0时为标准泵的尺寸。

R尺寸范围: 300-500mm。

NOTE: L size: 0, 300, 600, 900, 1200, 1800. Standard pump: L=0.

R dimension range: 300-500mm.

ZG 系列渣浆泵

ZG SLURRY PUMPS



特点和用途

ZG型为单级、单吸、悬臂卧式离心渣浆泵。该系列泵采用国际上先进的固液两相流理论，按最小损失原则设计，其过流部件的几何形状符合介质的流动状态，减少了涡流和撞击等局部与沿程水力损失，从而减轻了过流部件的磨损，提高了水力效率，降低了运行噪音和振动；该系列泵过流部件采用高硬合金铸铁，其材质具有高抗磨性、抗腐蚀性、抗冲击性能，从而使其寿命提高。此外，该系列泵采用动力降压，保证了浆体不易泄露。

ZG型渣浆泵可广泛适用于矿山、冶金、电力、煤炭、化工、建材等行业，输送含有固体颗粒的磨蚀性和腐蚀性浆体，其固液混合物最大重量浓度：灰浆45%、矿浆60%。该系列渣浆泵规格齐全，可采用直联、皮带、液力、变频调速等传动形式，亦可根据用户需要串联或并联运行。

APPLICATION AND FEATURES

The ZG series pumps are single-stage single-suction cantilevered, horizontal, centrifugal, slurry pumps. They are used international advanced solid-liquid two-phase flow theory and were designed using the Minimum-Wear Principle. The flow parts of this pumps are suitable for the flow of state media for it's set shape, which reduces hydraulic loss of eddy and impact, both in pump and along the pipeline; so reduced friction of flow parts, lower noise and vibration of the pump translates into improved hydraulic efficiency.

The ZG series pumps are cased in hard-alloy which is a high anti-wear and high anti-corrosive impact resistance material, which means the pump will have a longer service life. In addition, this series pumps used an automatic reduced pressure system to avoid liquid leakage.

The ZG series slurry pumps are widely used in mining, metallurgy, power, coal and building material sectors. The ZG series pumps are suitable for handling abrasive and corrosive solids-bearing slurry with maximum concentrations of wt.45%(ash) and wt.60%(ore).

We have all kinds of ZG series slurry pumps, all of which can be made of directly driven (DC), directly driven via hydraulic coupling (HC), belt driven, and they can be operated in tandem and parallel positions according to the requirements of the customer.

ZG 系列渣浆泵型号意义：

200ZG-A

200 —— 泵出口直径(mm)

ZG —— 渣浆泵(ZGL为立式泵)

A —— 叶轮种类

TYPE NOTATION

200ZG-A

200 —— Discharge diameter (mm)

ZG —— Slurry pump (ZGL denotes vertical pumps)

A —— Impeller species



ZG 系列渣浆泵主要技术参数 (1)

Clear water performance for ZG slurry pumps (1)

型 号 (Type)	允许配带 最大功率	清 水 性 能					间断通过 最大粒度	重 量 (Weight)
		流量Q	扬程H	转速 n	最高效率 η	汽蚀 余量 (NPSH) _r		
		(m ³ /h)	(m)	(r/min)	(%)	(m)		
300ZG-A	450	464-1826	15.3-65.2	300-590	80.7	3.0	88	5265
300ZG-A ₁	400	441-1735	13.8-58.8	300-590	77.7	3.0	88	5220
300ZG-B	560	505-1844	21.2-79.9	400-730	81.4	3.9	85	5005
300ZG-B ₁	450	477-1742	18.9-71.3	400-730	78.4	3.8	85	4965
300ZG-C	630	635-2333	16.0-76.8	490-980	80.4	3.9	92	3560
300ZG-C ₁	500	589-2166	13.8-66.2	490-980	77.4	3.7	92	3531
300ZG-D	250	395-1568	9.7-46.0	490-980	80.9	3.5	96	3030
250ZG-H	560	402-1573	29.7-110.5	400-730	74.5	2.8	69	5085
250ZG-A	560	403-1466	25.4-93.7	400-730	77.8	3.5	69	5035
250ZG-A ₁	450	378-1374	22.3-82.4	400-730	73.8	3.4	69	4980
250ZG-B	800	376-1504	30.1-128.7	490-980	75.6	3.5	76	4530
250ZG-B ₁	800	367-1469	28.7-122.7	490-980	74.6	3.5	76	4514
250ZG-B ₂	710	354-1416	26.7-114.0	490-980	72.6	3.4	76	4490
250ZG-B ₃	630	345-1380	25.4-108.4	490-980	70.6	3.2	76	4474
250ZG-C	560	300-1480	20.8-97.5	490-980	76.0	3.0	72	3480
250ZG-C ₁	500	292-1441	19.7-92.4	490-980	75.0	3.0	72	3466
250ZG-C ₂	450	280-1381	18.1-84.9	490-980	73.0	2.9	72	3446
250ZG-C ₃	450	272-1342	17.1-80.1	490-980	72.0	2.7	72	3432
250ZG-D	315	299-1249	15.4-71.0	490-980	76.9	3.0	72	3020
250ZG-D ₁	315	290-1211	14.4-66.7	490-980	75.9	3.0	72	3008
250ZG-D ₂	280	276-1153	13.1-60.5	490-980	73.9	2.8	72	2991
200ZG-A	560	221-907	32.0-133.7	490-980	70.5	2.8	54	4110
200ZG-B	355	225-900	22.8-102.9	490-980	72.8	3.0	56	3070
200ZG-B ₁	355	219-876	21.6-97.5	490-980	71.8	3.0	56	3056
200ZG-C	315	205-976	19.4-86.4	490-980	75.6	2.8	56	2465
200ZG-C ₁	315	199-948	18.3-81.5	490-980	74.6	2.8	56	2453
200ZG-D	250	235-950	16.4-72.0	490-980	79.6	2.5	62	2323
200ZG-D ₁	250	228-921	15.4-67.6	490-980	78.6	2.5	62	2311
200ZG-E	185	218-870	13.9-62.0	490-980	82.7	2.5	62	2223
200ZG-E ₁	185	211-841	13.0-57.9	490-980	81.7	2.5	62	2214
150ZG-A	185	93-401	20.0-91.2	490-980	62.3	2.0	37	2245
150ZG-B	200	150-600	17.4-75.7	490-980	70.2	2.5	48	2223
150ZG-B ₁	185	146-582	16.3-71.1	490-980	69.2	2.5	48	2211
150ZG-C	160	135-550	14.7-63.5	490-980	74.6	2.5	48	2203

ZG 系列渣浆泵主要技术参数 (2)

Clear water performance for ZG slurry pumps (2)

型 号 (Type)	允许配带 最大功率	清 水 性 能					间断通过 最大粒度	重 量 (Weight)
		流量Q	扬程H	转速n	最高效率 η	汽蚀余量 (NPSH) _r		
		(m ³ /h)	(m)	(r/min)	(%)	(m)		
150ZG-C ₁	132	131-532	13.7-59.3	490-980	73.6	2.5	48	2033
150ZG-C ₂	160	134-596	12.8-61.0	490-980	69.1	2.0	75	2063
150ZG-C ₃	110	95-427	13.2-56.3	490-980	66.6	1.8	32	2023
150ZG-C ₄	110	124-504	12.3-53.4	490-980	71.6	2.3	48	2019
150ZG-D	75	115-460	9.5-43.1	490-980	76.8	2.5	48	1735(1648)
150ZG-D ₁	75	111-442	8.7-39.7	490-980	75.8	2.5	48	1728(1641)
150ZG-E	132	142-550	12.1-62.8	700-1480	76.4	2.2	69	1605(1518)
100ZG-A	160	85-360	20.5-100.2	700-1480	68.5	2.5	34	1475(1388)
100ZG-A ₁	132	79-331	17.3-84.8	700-1480	66.5	2.3	34	1461(1374)
100ZG-B	90	66-275	14.7-70.8	700-1480	70.4	2.5	35	1075(1021)
100ZG-B ₁	90	83-365	12.7-66.8	700-1480	63.2	2.5	40	1085(1031)
100ZG-B ₂	75	61-255	12.6-61.0	700-1480	68.4	2.4	35	1064(1010)
100ZG-C	55	61-245	9.7-49.5	700-1480	71.6	2.0	32	1010(956)
100ZG-C ₁	45	56-225	8.2-41.6	700-1480	69.6	1.8	32	1003(949)
80ZG-A	160	51-242	22.1-109.8	700-1480	56.3	2.1	21	1465(1378)
80ZG-B	75	61-204	14.4-70.4	700-1480	66.7	2.5	24	1053(963)
80ZG-B ₁	55	57-189	12.4-60.7	700-1480	64.7	2.4	24	1042(952)
80ZG-C	45	46-190	9.6-51.4	700-1480	67.7	2.5	24	980(926)
80ZG-C ₁	37	43-174	8.0-43.2	700-1480	65.7	2.3	24	973(919)
65ZG-A	15	23-79	7.4-34.8	700-1460	63.5	2.0	19	504(512)
65ZG-A ₁	11	20-71	6.0-28.2	700-1460	61.5	1.8	19	500(508)
50ZG-A	90	27-111	22.3-110.7	700-1480	45.1	3.0	13	1378
50ZG-B	55	23-94	17.9-85.8	700-1480	44.7	1.4	14	1082(992)
50ZG-C	18.5	12-54	7.7-42.5	700-1480	41.4	2.9	13	537(545)
40ZG-A	11	8-34	12-57	1400-2900	58	1.3	11	135(141)
40ZG-A ₁	7.5	4-23	9.0-44.6	1400-2900	52.4	2.5	11	121(127)
150ZGL	37	99-364	3.0-17.9	490-980	68.1		15	800
100ZGL	45	74-293	5.5-36.8	700-1480	65.1		14	630
80ZGL	45	50-201	7.3-45.5	700-1480	58.2		12	650
65ZGL	18.5	18-98	5.9-34.7	700-1470	51.9		8	440
50ZGL	4	8-38	1.4-10.7	700-1440	38.6		10	240

注: 1.(NPSH)_r系指本样本中第二档转速时规定点之值。

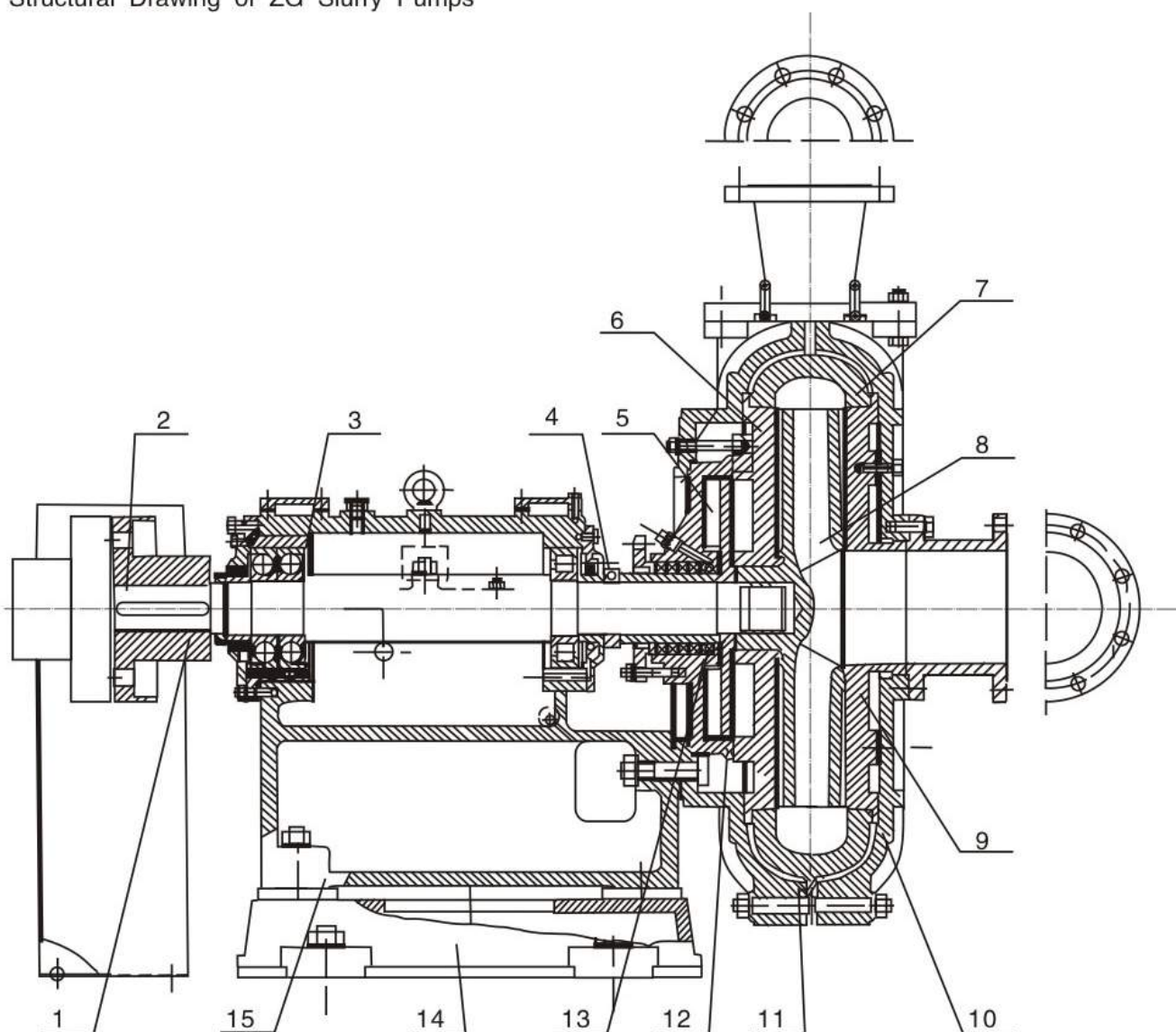
2.正常通过粒度为允许间断通过的最大粒度的56%。

3.泵重量栏中,有两数值的为联体底座的泵。其中括号外数据为高转速参数下泵的重量,括号内数据为低转速参数下泵的重量。



ZG 型渣浆泵结构图

Structural Drawing of ZG Slurry Pumps



1.联轴器 Coupling

2.轴 Shaft

3.轴承箱 Bearing housing

4.拆卸环 Disassembly ring

5.副叶轮 Expeller

6.后护板 Rear liner plate

7.蜗壳 Volute casing

8.叶轮 Impeller

9.前护板 Front liner plate

10.前泵壳 Front casing

11.后泵壳 Rear casing

12.填料箱 Stuffing box

13.水封环 Water-seal

14.底座 Base

15.托架 Support

ZJS (H) 型砂砾泵

ZJS(H) GRAVEL PUMPS



特点和用途:

ZJS(H)型砂砾泵主要用于由于颗粒太大以至于一般渣浆泵不能输送的强磨蚀物料连续输送。适用于挖泥船挖泥,疏浚河道、采矿及金属冶炼爆渣的输送等。其中ZJSH型为高扬程砂砾泵。

该泵采用了以卡带连接的单泵壳结构,过流通道宽畅。其过流部件采用了硬镍、高铬等耐磨材料。泵的吐出口方向可在360°的任何一个位置,具有安装使用方便,汽蚀性能好,抗磨蚀等优点。

APPLICATION AND FEATURES

Type ZJS(H) gravel pumps are designed for continuously handling the most difficult higher abrasive slurries which contain too big solids to be pumped by a common pump. They are suitable for delivering slurries in Mining, Explosive-sludge in metal melting, Dredging in dredger and course of rivers, and other fields. Type ZJSH pumps are of high-head ones.

Construction of this pump is of single casing connected by means of clamp bands and wide wet-passage. The Wet-parts are made of Ni-hard and high chromium abrasion-resistance alloys. The discharge direction of pump can be oriented in any direction of 360°. This type of pump possesses the advantages of easy installation and operation, good performance of NPSH and abrasion-resistance.

型 号	流量Q (m ³ /h)	扬程H (m)	转速n (r/min)	效率 (%)	轴功率 (Kw)	传动 形式	泵外形尺寸 长×宽×高 (mm)	泵重量 (Kg)
100ZJS	187-36	7-51	1400-600	30-58	52-3	CV.CR.DC	1011×705×677	460
150ZJS	576-133	10-48	1400-800	60-54	88-11	CV.CR.DC	1299×896×873	1120
200ZJS	930-216	11-44	940-500	65-34	147-22	CR.DC	1597×1121×1089	2285
250ZJS	1512-360	11-58	850-400	70-50	305-24	CR.DC	2010×1330×1516	4450
300ZJS	3168-522	9.5-66	700-300	68-60	643-29	CR.DC	2102×1645×1648	5400
350ZJS	3024-900	14-45	500-300	70-50	459-78	CR.DC	2196×1880×1765	8800
150ZJSH	648-126	15-77	1050-500	71-50	177-12	CR.DC	1500×1100×1120	1900
200ZJSH	1091-324	19.2-56.5	800-500	72-60	205-32.4	CR.DC	1774×1212×1282	3188
250ZJSH	2232-612	28-77	700-450	73-60	558-89	CR.DC	2211×1734×1500	4638

型号意义:

例如: 100ZJS(H)
100—泵吐出口直径(mm)
ZJS—砂砾泵
H—高扬程砂砾泵

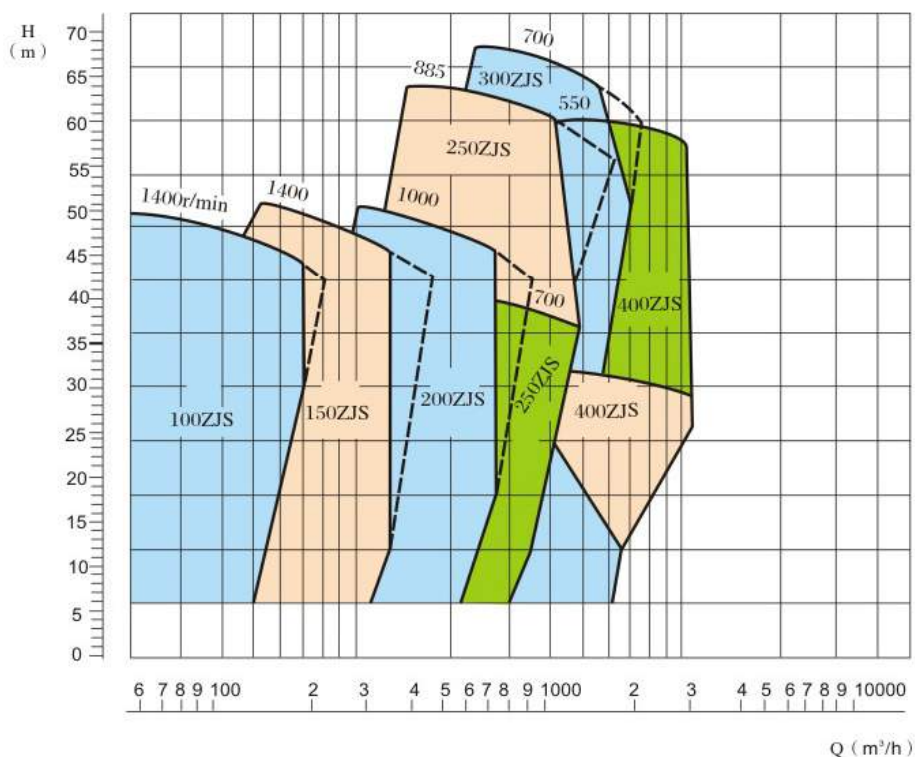
TYPE NOTATION

For example: 100ZJS(H)
100—Discharge diameter(mm)
ZJS—Dravel pump
H—High-head of gravel pump



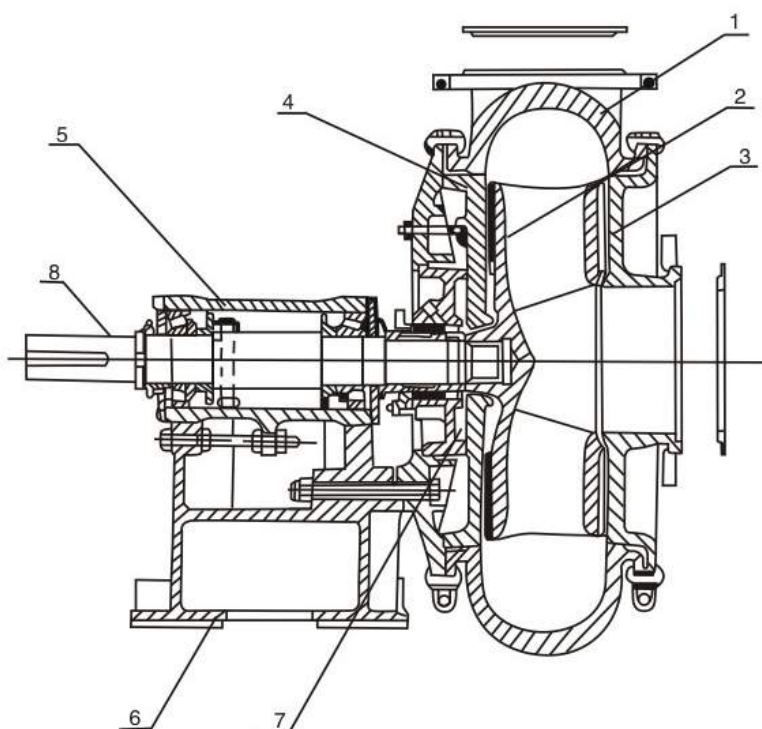
砂砾泵型谱

GRAVEL PUMPS SELECTION CHART



ZJS(H) 型泵结构图

CONSTRUCTIONAL DRAWING FOR TYPE ZJS(H)



- 1. 泵体 volute
- 2. 叶轮 impeller
- 3. 泵盖 Cover
- 4. 后护板 frame plate liner
- 5. 轴承组件 bearing assembly
- 6. 托架 frame
- 7. 填料箱 stuffing box
- 8. 轴 shaft

WS 型挖泥泵

WS DREDGING PUMPS



特点和用途:

Ws型挖泥泵是我公司在引进国外先进技术的基础上,针对江河湖海疏浚、吹填采砂而研制的一种新型泥浆泵。从国内外江河湖海的治理来看,用挖泥泵做为主要的抽送设备已得到广泛的认同。这种方法被认为是一种无污染、环保、高效、节能的治理措施而得到推广。我公司生产的这种单级单吸悬臂卧式离心泵,具有重量轻、耐磨性好、挖泥性能优良、整体结构船用性好、使用综合经济效益高等特点,可完全满足挖泥船对泥泵的要求。

泥泵系统主要由泵头、泥泵专用减速齿轮箱、高弹性联轴器、船用传动装置监控系统组成。

过流部件中,叶轮、前护板、后护板均采用强抗磨合金铸铁,硬度不小于58HRC,泵体采用既有优良抗磨蚀性又能承压的耐磨合金钢。

我们可根据不同的介质情况,采用不同的材料来满足使用要求。

APPLICATION AND FEATURES

WS dredging pump is a new type of sludge pump researched & manufactured by our company ,based on advanced technique introduced ,aiming at the dredging and damming of the river and seas. It is widely agreed upon adopting dredging pump as main pumping equipment judging from the practice of treating rivers & seas at home and abroad .The means is consider to be a treatment of no-pollution to environmental protection ,high-efficiency and energy-saving .WS pump is single-stage single-suction cantilever horizontal centrifugal pump with advantages of light weight ,good wear-resistant ,super dredging performance ,perfectly suited for the dredge on the whole construction ,high multiple economy benefits and so on .It throughout meets requirements of the dredge to dredging pumps .

The pump mainly consists of the pump head , gearbox specifically for the dredging pump ,high elastic coupling and supervisor system of the driving device for the dredge .

Strongly wear-resistant casting alloy iron , whose hardness is not less than 58HRC adopted for the impeller ,front liner ,and rear liner of wet parts .Wear-resistant alloy steel is adopted for the casting with pressure-wear-resistant .

Our company can select different kinds of material according to different media to meet the dredging requirement .

型号意义说明:

例如: 300WS(G)

300—泵吐出口直径(mm)

Ws—挖泥吸砂泵

G—高扬程挖泥吸砂泵

TYPE NOTATION

For example: 300WS(G)

300—Outlet Diameter of Dredging Pump (mm)

WS—Dredging Pump

G—High-head of dradging pump



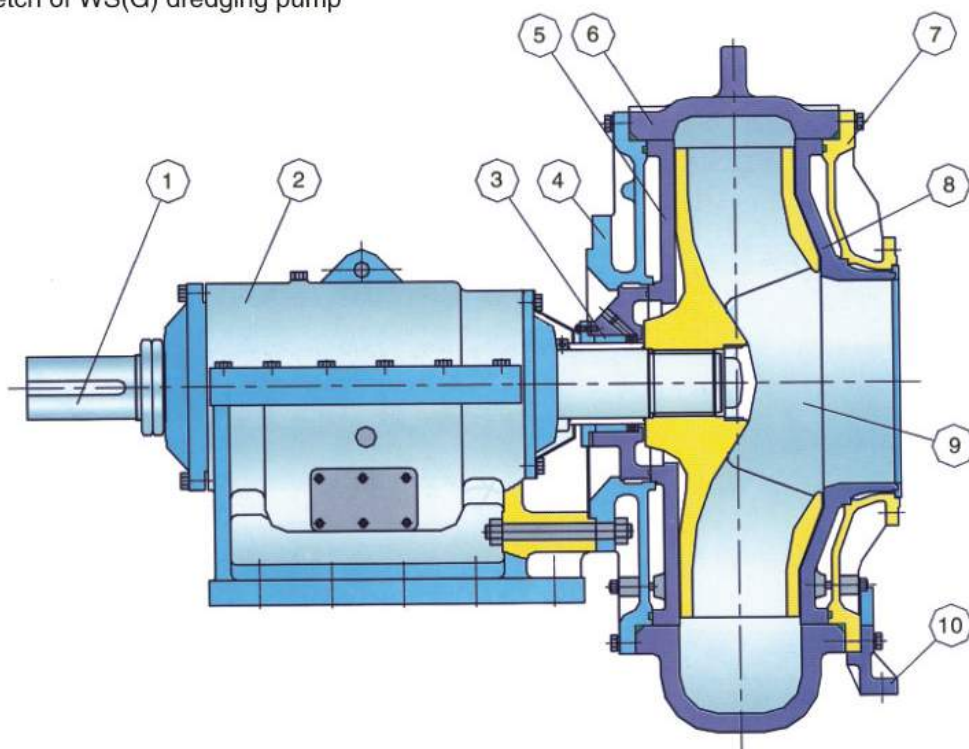
性能参数表:

Clear Water Performance for WS Pumps

型 号 TYPE	流 量 CAPACITY (M³/h)	扬 程 HEAD (m)	叶轮转速 IMPELLER SPEED (r/min)	效率 EFFICIENCY (%)	进口直径 INLET DIAMETER (mm)	出口直径 OUTLET DIAMETER (mm)	汽蚀余量 NPSHR (m)	最大过流粒径 MAX DIAMETER OF FLOWED PARTICLE (mm)		泵重量 PUMP WEIGHT (T)
								五枚 FIVE PIECES	三枚 THREE PIECES	
100WS	180-250	25-45	1000-1400	50-58	150	100	<3.5	50	82	0.5
150WS	250-550	20-40	1200-1400	58-60	200	150	<4	76	127	1.1
150WSG	350-700	40-65	800-980	68-71	200	150	<3.5	84	140	1.9
200WS	350-700	20-45	700-980	60-65	250	200	<4.5	105	178	2.3
200WSG	550-1000	40-65	700-850	70-72	250	200	<4	108	180	3.2
250WS	700-1100	20-45	500-750	65-70	300	250	<4	132	220	4.5
250WSG	900-1500	40-60	500-650	70-74	350	250	<4.5	86	144	4.6
300WS	1100-1800	20-40	400-600	65-68	350	300	<4.5	144	241	5.5
300WSG	1500-2200	30-65	400-550	74-78	450	300	<4	144	241	8.0
350WSG	2000-3000	40-65	400-550	74-78	450	350	<4	147	245	8.8
450WSG	3000-4000	35-67	350-500	76-80	600	450	<4.5	125	254	12
500WSG	4000-5500	40-65	350-450	78-80	650	500	<4.8	150	250	17
600WSG	5000-9000	55-80	320-400	81-85	650	600	<6	160	220	30
700WSG	8000-12000	60-85	280-380	83-85	750	700	<6	180	280	50
800WSG	10000-15000	50-70	260-360	79-80	850	800	<6	200	300	70
900WSG	12000-19000	50-75	280-330	83-85	950	900	<6	210	320	95
1000WSG	16000-25000	23-76	180-290	85-87	1100	1000	<6	230	350	130

部分挖泥泵结构示意图

Part construction sketch of WS(G) dredging pump



- 1.轴Shaft 2.托架Frame 3.密封组件Mechanical seal assembly 4.连接板Connecting plate 5.后护板Rear liner
6.泵体Pump casing 7.泵盖Cover plate 8.前护板Front liner 9.叶轮Impeller 10.支撑板Support

TL(R)系列脱硫泵

TL(R) Desulphurization Pumps



特点和用途:

TL(R)系列脱硫泵为单级单吸卧式离心泵，主要为作为湿法FGD装置中吸收塔循环泵使用，具有流量范围宽、高效节能等优点。该系列泵配有结构紧凑的X型托架，可大大节约占地空间。

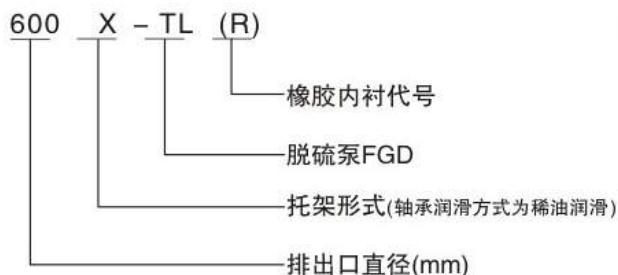
- 泵过流部件采用先进的CFD流动模拟分析技术，使其设计可靠，运行效率高。
- 调节轴承组件可改变叶轮在泵腔中的位置，使泵机组始终处于高效运行状态。
- 泵为后拆式结构，结构简单，维修方便，无需拆卸泵的进水管路。
- 泵端采用双列圆锥滚子轴承，驱动端采用圆柱滚子轴承，轴承采用稀油润滑，改善了轴承工作条件，大大提高了轴承的寿命。
- 机械密封采用专用于脱硫工艺的集装式机封，运行可靠。
- 材料选用:

泵体、泵盖和接合板为承压件，采用球墨铸铁。

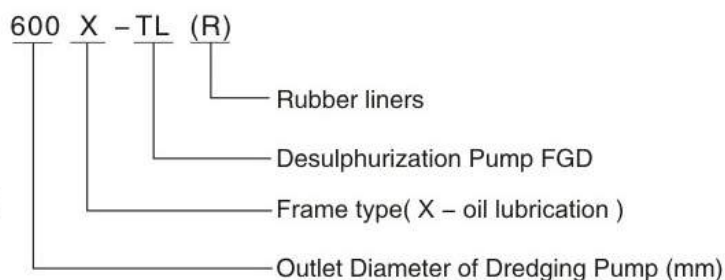
胶泵结构中: 叶轮、吸入盖为A49双相不锈白口铁，前护套、后护套、后护板的材料为天然橡胶，具有天然的良好耐磨蚀性能，且重量轻，成本相对较低。

金属内衬中: 叶轮、护套、前护板、后护板为A49双相不锈白口铁，吸入盖为球铁贴胶。

型号意义:



TYPE NOTATION





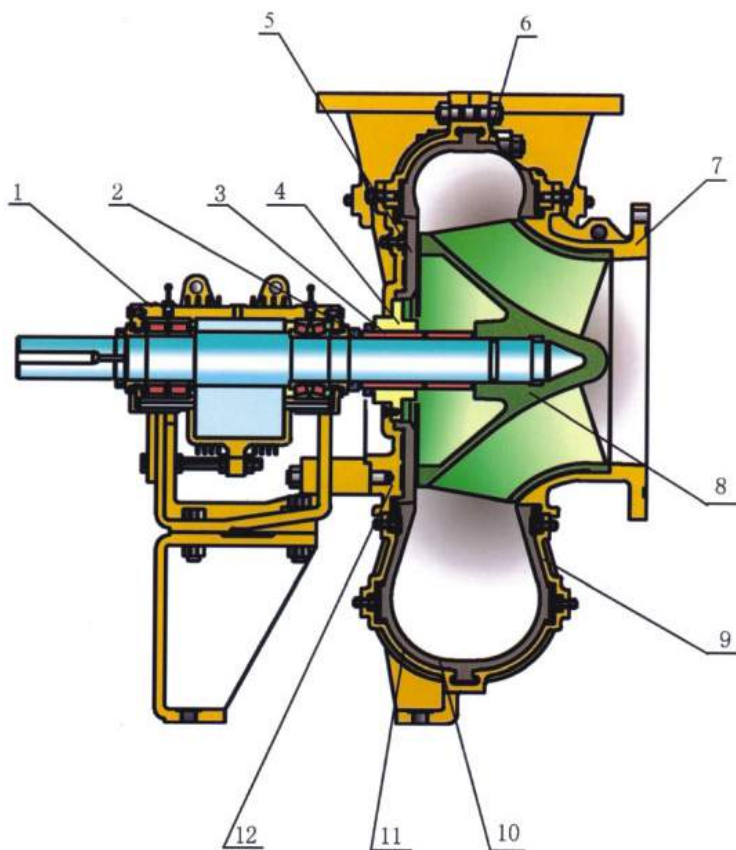
TL(R) 系列脱硫泵基本参数

Clear Water Performance for TL(R) Pumps

型 号 (Type)	流量Q		扬程 H m	转速 N r/min	效率 %	必需汽蚀余量 (NPSH)r	排出口直径 mm	吸入口直径 mm
	m ³ /h	L/S						
350TL(R)	1600	444	25	960	82	4.5	350	400
400TL(R)	2500	694	25	725	83	5.0	400	450
500TL(R)	3750	1040	25	725	85	5.0	500	500
600X-TL(R)	5300	1472.2	25	590	88	5.6	600	700
700X-TL(R)	7200	2000.0	25	480	88	6.0	700	800
800X-TL(R)	10000	2777.8	40	480	89	7.0	800	900
900X-TL(R)	14000	3888.9	23	350	90	5.0	900	1000

TL(R) 系列脱硫泵结构图

Construction sketch of TL(R) dredging pump



1. 托架 Frame
2. 叶轮拆卸环 Disassembly ring
3. 轴套 Shaft cover
4. 机械密封 Mechanical seal
5. 后护板 Rear liner
6. 前护板 Front liner
7. 吸入盖 Inhale plate
8. 叶轮 Impeller
9. 泵盖 Cover plate
10. 后护套 Frame plate liner
11. 泵体 Pump casing
12. 结合板 Connecting plate

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