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概述/General Introduction

安泵机械在渣浆泵研发、选型，设计生产方面有着丰富的经验，其中渣浆泵 AM 系列为卧式悬臂离心式结构，设计合理、运行可靠、寿命长，广泛用于冶金、矿山、煤炭、电力建材等工业部门输送强磨蚀、高浓度渣浆。深受洗煤（洗铬）厂，选矿厂和电厂等的欢迎。安泵机械采用 CAD、CAPP 计算机辅助工艺设计和 CFD 液压设计软件等反复论证与计算使产品达到高效能，满足用户需要并且降低很大投入成本。

An pump machinery has full experience of slurry pump solution, develop, design and manufacturing. AM series is horizontal, cantilevered centrifugal slurry pump, with reasonable construction, reliable operation, long service life. It is widely used in transporting abrasive or / and corrosive slurry in mining, metallurgy, electric power, coal, chemicals, building, etc. Especially well accepted by coal / chrome washing plant, mineral processing plant, power plant etc.

An Pump Machinery use CAD, CAPP computer-aided industrial design and CFD hydraulic design software, demonstrated, calculations, the theoretical calculations product are accurate and consistent with the actual performance. It allowing users to meet the needs while significantly reducing the investment costs.

概述依据用途划分泵型/Different pump type according application

1.M,AMH,AMM 型泵，亦可称为重型渣浆泵。由于该泵型具有较厚的承磨件并配重型托架，故适用于输送强磨蚀，高浓度渣浆或低浓度高扬程渣浆，在泵的最大允许工作压力范围之内，可以多级串联使用。其中 AMH 型泵适用于输送低浓度高扬程渣浆或高浓度低磨蚀的高扬程渣浆。以上几种形式的泵亦可用于有一定腐蚀性的渣浆。

1.AM,AMH,AMM series pump, is heavy duty slurry pump. This kind pump with thick wear parts and heavy duty plate, mainly application for transfer strong abrasive , high concentration slurry, or low concentrations of high head slurry, within maximum allowable pump operating pressure range, the pumps could be multistage in series. The AMH pump is suitable for transferring low concentrations high head slurry or high head slurry high concentrations of low abrasion. The three series pump are all could be used for transfer slurry with are certain corrosive.

2.AML 型泵，亦称为轻型渣浆泵。与重型渣浆泵相比，该泵型转速高，体积小，重量轻，适用于输送细颗粒，低浓度的渣浆或腐蚀性渣浆。输送浆体的重量浓度一般不超过 30%，亦可用于输送高浓度低磨蚀性渣浆。

2.AML series pump, light duty slurry pump. Compared with the heavy-duty slurry pump, AML pump is high speed, small volume, light weight, suitable for transfer fine particles, low concentration slurry liquid, or corrosive slurry. General the liquid weight concentration is less than 30%

3.AMG 型砂砾泵，该泵型具有较大的过流通道，适用于输送砂砾，泥浆及固体颗粒较大的渣浆。

3.AMG gravel pump, this series pump is with wide passage ability, suitable for transfer sand gravel, mud, and big size solid slurry liquid.

4.AMR 型泵，该泵型过流部件为橡胶材料。其泵体，泵盖及传动部分与AM,AML,AMM 型泵通用。适用于输送细颗粒及腐蚀性渣浆。

4.Types AMR, the wetted components of this pump are made of Wear-resistant metal. The frame plate, cover plate and rotary parts are interchangeable with that of Types AMR (R means Rubber liners.). It is suitable for carrying slurry with fine solid light abrasion.



Metal Parts



Rubber Parts



渣浆泵在不同行业的应用/ Slurry pump and applications

重型采矿
选煤场
气旋给料
矿石加工
尾矿
磨矿
浆液给料

Heavy duty Mining Process
Coal Preparation Plant
Cyclone Feeds
Mineral Processing
Tailings
Mill Grinding
Slurry Feeding System

重型垃圾清理
纸浆和造纸
疏浚
磨蚀性渣浆
高浓度渣浆
灰渣处理
工业加工

Heavy Refuse Removal
Pulp And Paper
Dredging
Abrasive Slurry
High Density Slurries
Ash Handling
Industrial Processing



渣浆泵主要产品特点/ Slurry pump main feature



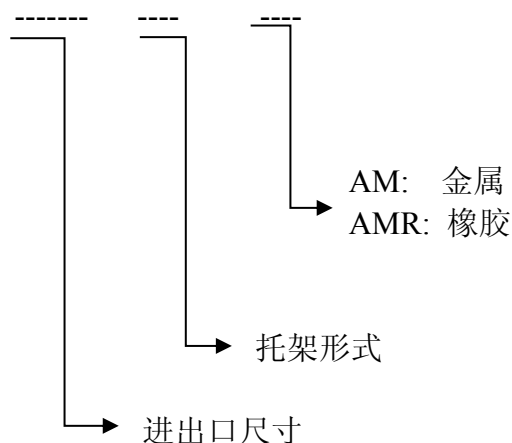
- ◆ 悬臂、卧式离心泵。
- ◆ 广泛用于选矿，冶金，电力，煤炭，化工，建筑等领域，输送强磨蚀性渣浆
- ◆ 具有可更换的耐磨金属内衬或者橡胶内衬，叶轮采用耐磨金属或橡胶材料。
- ◆ 泵的吐出口位置可根据需要按 45 度间隔，旋转 8 个不同角度安装使用。
- ◆ 三种密封结构：
- ◆ 填料、付叶轮、机械密封
- ◆ 耐磨使用寿命长，便于维修
- ◆ 最佳的总运行成本



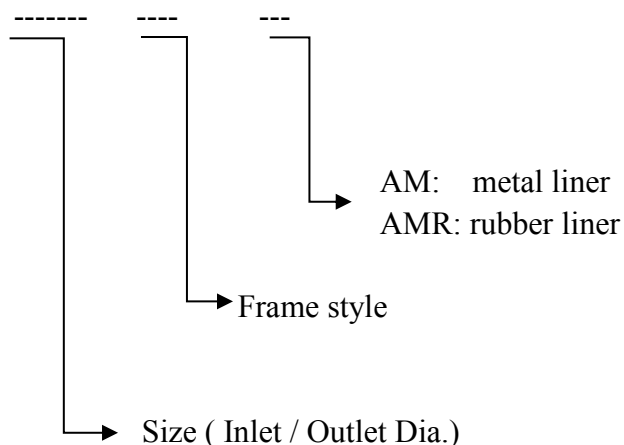
- ◆ Horizontal, cantilevered centrifugal slurry pump.
- ◆ Widely used in industries of mining, metallurgy, electric power, coal, chemicals, building etc, transporting abrasive or / and corrosive slurry.
- ◆ Interchangeable high wear resistant metal or pressure molded elastomer liner, so as the impeller.
- ◆ The discharge branch can be positioned at intervals of 45 degrees by request and oriented to any eight positions to suit installations and applications.
- ◆ Three seal type option:
- ◆ Gland packing seal, Expeller seal, Mechanical seal
- ◆ Excellent wear life, Easy maintenance
- ◆ Best total operating cost

型号意义/Model meaning

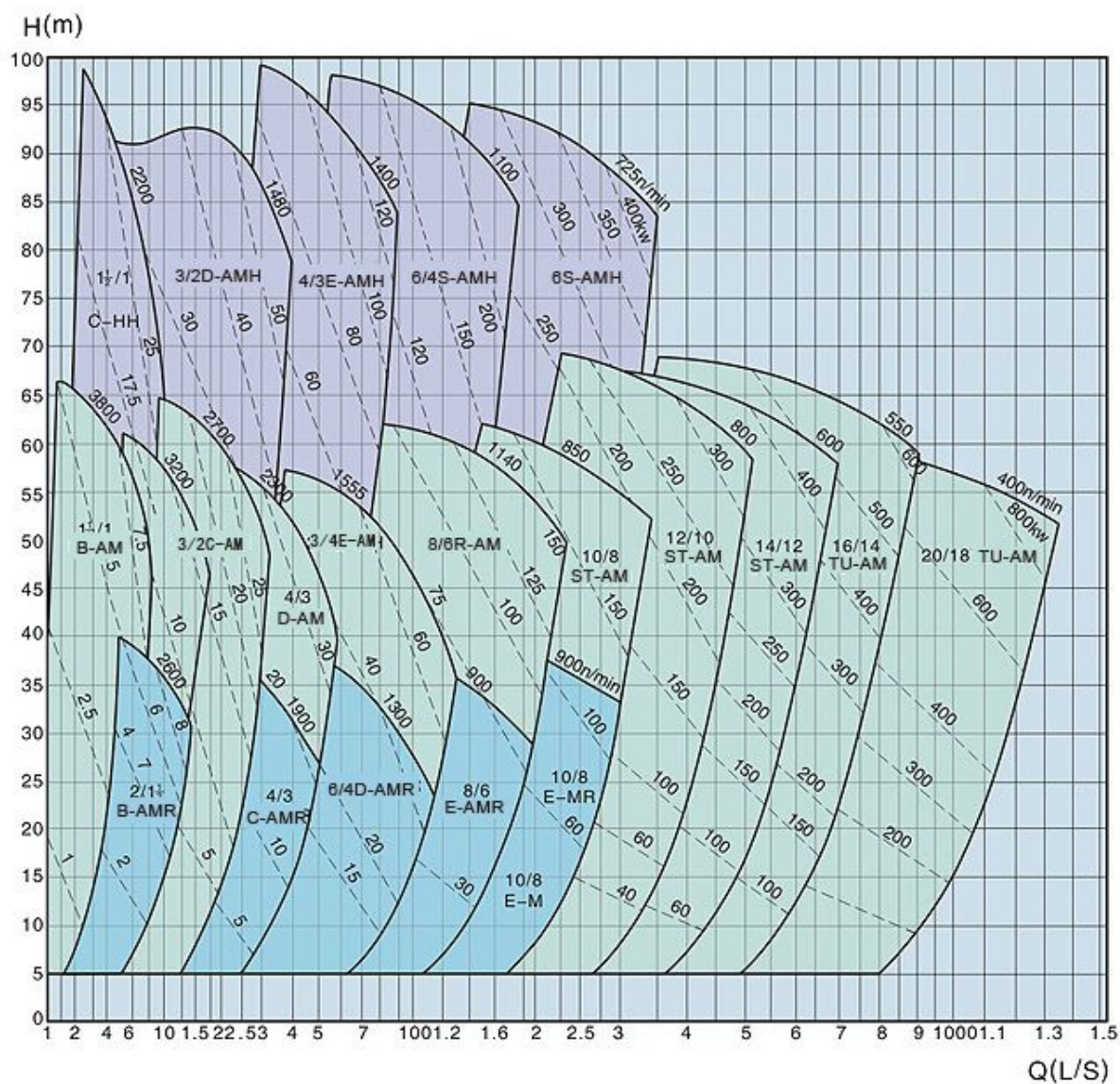
6 / 4 D — AM (R)



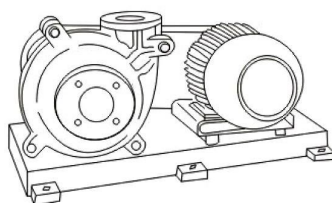
6 / 4 D — AM (R)



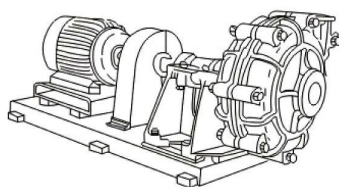
型谱图/ Performance chart



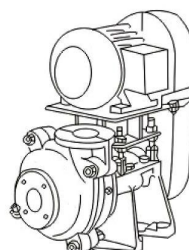
驱动形式/ Drive type



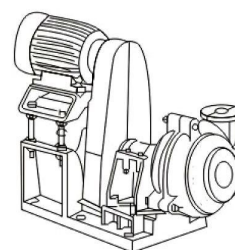
CR/CL传动



DC传动



CV传动



ZVZ传动

渣浆泵参数表/ Slurry pump performance data sheet

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
1.5/1B-AM(R)	3.6	7	1200	3.2	20	0.34	2.2	38	25
	7.56	6			30	0.41			
	11.52	5			30	0.52	1.2		
1.5/1B-AM(R)	4.32	9.4	1400	3.2	20	0.55	1.5	38	25
	8.28	8.5			30	0.64			
	12.24	7			30	0.78	2.2		
1.5/1B-AM(R)	4.68	12	1600	3.2	20	0.77	1.5	38	25
	8.64	11.5			30	0.90	2.2		
	12.6	10			30	1.2	3		
1.5/1B-AM(R)	5.04	15.4	1800	3.2	20	1.06	2.2	38	25
	9.36	14.6			30	1.24	3		
	13.68	13			30	1.61	4		
1.5/1B-AM(R)	5.4	19	2000	3.2	20	1.4	3	38	25
	10.08	18			30	1.65			
	14.4	16.5			30	2.16	4		
1.5/1B-AM(R)	5.76	21	2100	3.2	20	1.65	2.2	38	25
	10.08	20			30	1.83	3		
	14.76	18			30	2.41	4		
1.5/1B-AM(R)	5.76	23	2200	3.2	20	1.8	3	38	25
	10.44	22			30	2.08			
	15.12	20			35	2.36	4		
1.5/1B-AM(R)	5.76	25	2300	3.2	20	1.96	3	38	25
	10.8	24			30	2.35			
	15.48	22			35	2.65	4		
1.5/1B-AM(R)	6.12	27.3	2400	3.2	20	2.28	4	38	25
	11.16	26			30	2.63			
	15.84	24			35	2.96	5.5		
1.5/1B-AM(R)	6.12	29.7	2500	3.2	20	2.48	4	38	25
	11.52	28.3			30	2.96			
	16.56	26			35	3.35	5.5		
1.5/1B-AM(R)	6.48	32	2600	3.2	20	2.82	4	38	25
	11.52	30.8			30	3.22			
	16.56	28.5			35	3.67	5.5		
1.5/1B-AM(R)	6.48	34.8	2700	3.2	20	3.07	5.5	38	25
	11.88	33.2			30	3.58			
	17.28	30.6			35	4.11	7.5		

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
1.5/1B-AM(R)	6.48	37.1	2800	3.2	20	3.27	5.5	38	25
	11.88	35.8			30	3.86			
	17.28	33.4			35	4.49	7.5		
1.5/1B-AM(R)	6.48	40.5	2920	3.2	20	3.57	5.5	38	25
	12.24	39.2			30	4.36			
	18	36.5			35	5.11	7.5		
1.5/1B-AM(R)	6.48	43	3000	3.2	20	3.79	5.5	38	25
	12.24	41.5			30	4.61			
	18	38.5			35	5.39	7.5		
1.5/1B-AM(R)	6.48	46	3100	3.2	20	4.06	7.5	38	25
	12.6	44.5			30	5.09			
	18.72	41.6			35	6.06	11		
1.5/1B-AM(R)	6.48	49	3200	3.2	20	4.32	7.5	38	25
	12.6	47.5			30	5.43	11		
	18.72	44			35	6.41	15		
1.5/1B-AM(R)	6.84	55.5	3400	3.2	20	5.17	7.5	38	25
	14.76	53			35	6.09	11		
	19.44	50.2			40	6.64	15		
1.5/1B-AM(R)	6.84	62	3600	3.2	20	5.77	11	38	25
	14.76	59.6			35	6.84			
	20.88	56.3			40	8	15		
1.5/1B-AM(R)	6.84	69	3800	3.2	20	6.43	11	38	25
	15.12	66.7			35	7.85			
	21.3	63			40	9.36	15		
2/1.5B-AM(R)	7.2	8.5	1200	3	18	0.93	1.5	51	38
	14.4	8			25	1.25			
	21.6	7			35	1.18	2.2		
2/1.5B-AM(R)	7.92	12	1420	3	18	1.36	2.2	51	38
	15.12	11.2			25	1.54			
	22.68	10.3			35	1.82	3		
2/1.5B-AM(R)	9	15.1	1600	3	18	1.85	3	51	38
	18	14.4			25	2.14			
	25.92	13			35	2.41	4		
2/1.5B-AM(R)	10.8	19.3	1800	3	23	2.47	4	51	38
	19.8	18.3			35	2.82			
	28.8	17			40	3.33	5.5		

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
2/1.5B-AM(R)	10.8	21.6	1900	3	24	2.65	4	51	38
	21.6	20.5			37	3.26	5.5		
	31.32	18.9			42	3.84	7.5		
2/1.5B-AM(R)	11.52	24	2000	3	25	3.01	4	51	38
	21.6	23			37	3.66	5.5		
	33.12	2.8			43	4.36	7.5		
2/1.5B-AM(R)	12.6	26.5	2100	3	29	3.14	5.5	51	38
	23.4	25.2			49	4.02			
	34.2	22.8			44	4.83	7.5		
2/1.5B-AM(R)	12.96	29	2200	3	29	3.53	5.5	51	38
	25.2	27.4			41	4.59	7.5		
	36	25			45	5.45	11		
2/1.5B-AM(R)	13.68	31.7	2300	3	29	4.07	5.5	51	38
	25.92	30		3	41	5.16	7.5		
	37.44	27.2		3.5	45	6.16	11		
2/1.5B-AM(R)	14.4	34.4	2400	3	30	4.5	7.5	51	38
	27	32.6		3	42	5.71			
	38.88	29.6		4	45	6.96	11		
2/1.5B-AM(R)	15.12	37.6	2500	3	30	5.16	7.5	51	38
	28.8	35.5		3	43	6.48	11		
	41.04	32.2		4	45	8	15		
2/1.5B-AM(R)	15.48	40.0	2600	3	30	5.68	7.5	51	38
	28.8	28.3		3	43	6.99	11		
	42.48	34.6		5	45	8.89	15		
2/1.5B-AM	16.2	44	2700	3	30	6.47	11	51	38
	30.6	41.9		3.2	43	8.12			
	44.64	37.6		5.2	45	10.16	15		
2/1.5B-AM	16.2	47	2800	3	30	6.91	11	51	38
	30.6	45		3.2	42	8.93			
	46.08	40.5		6	45	11.29	15		
2/1.5B-AM	18	54	3000	3	30	8.82		51	38
	32.4	51		3.5	42	10.71	15		
	48.6	46		6.5	45	13.53			
2/1.5B-AM	21.6	61	3200				15	51	38
	37.8	57							

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
3/2C-AM(R)	21.6	14.5	1300	3	45	1.9	4	76	51
	32.4	14			52	2.38			
	42.48	13			56	2.69			
3/2C-AM(R)	25.2	17.3	1400	3	45	2.64	5.5	76	51
	36	16.7			53	3.09			
	46.08	15.8			56	3.54			
3/2C-AM(R)	25.2	19.3	1500	3	45	2.94	4	76	51
	36	18.7			52	3.53			
	48.6	17.5			58	4.14			
3/2C-AM(R)	27	22	1600	3	45	3.60	5.5	76	51
	39.6	21			52	4.36			
	52.2	20			56	5.08			
3/2C-AM(R)	28.8	24.8	1700	3	45	4.32	7.5	76	51
	43.2	23.8		3	53	5.28			
	55.8	22.2		3.5	56	6.02			
3/2C-AM(R)	30.24	27.8	1800	3	45	5.09	7.5	76	51
	45	26.3		3	53	6.08			
	58.68	25		4	56	7.13			
3/2C-AM(R)	32.4	31	1900	3	45	6.08	11	76	51
	46.8	30		3	52	7.35			
	61.2	28		4.2	56	8.33			
3/2C-AM(R)	33.8	34.2	2000	3	45	6.93	11	76	51
	50.4	32.6		3.2	53	8.44			
	65.52	30.7		4.6	56	9.78			
3/2C-AM(R)	35.28	38	2100	3	45	8.11	15	76	51
	52.2	36.1		3.5	53	9.68			
	69.12	34		5.2	56	11.43			
3/2C-AM	37.08	41.3	2200	3	45	9.27	15	76	51
	54	39.7		4	53	11.02			
	72	37.4		5.5	56	13.1			
3/2C-AM	37.8	45.2	2300	3	45	10.34	18.5	76	51
	57.6	43.4		4.5	53	12.84			
	75.6	40.5		6	56	14.89			
3/2C-AM	46.08	53.5	2500	5	45	14.9	22	76	51
	64.8	51			53	17.3			
	81	48		7	56	18.9			

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia.of pump (mm)	
								吸入 Inlet	吐出 Outlet
3/2C-AM	50.4	62.3	2700	4	45	18.7	22	76	51
	64.8	60		5.5	53	20.4			
	88.56	56		8	56	24.1	30		
4/3C-AM(R)	28.8	11	1000	2.2	50	1.73	5.5	102	76
	68.4	10.1			69	2.73			
	108	76			65	3.44	7.5		
4/3C-AM(R)	32.4	13.2	1100	2.4	50	2.33	5.5	102	76
	72	12.2			69	3.47			
	111.6	9.6			67	4.35	7.5		
4/3C-AM(R)	36	15.9	1200	2.7	50	3.12	7.5	102	76
	75.6	14.7			68	4.45			
	115.92	12.2			68	5.66	11		
4/3C-AM(R)	39.6	18.6	1300	2.2	50	4.01	7.5	102	76
	82.8	17.2		2.2	68	5.7			
	122.4	14.6		3	69	7.05	11		
4/3C-AM(R)	43.2	21.6	1400	2.5	50	5.08	11	102	76
	86.4	20.2		2.5	67	7.13	15		
	126.7	17.3		3.5	70	8.53	18.5		
4/3C-AM(R)	45	23.4	1460	2	50	5.74	15	102	76
	90	21.8		2.7	67	7.97	18.5		
	129.6	19		3.6	70	9.58	22		
4/3C-AM(R)	50.4	28	1600	2.3	50	7.69	18.5	102	76
	93.6	26.4		3.1	66	10.2	22		
	136.8	23		4.2	70	12.24	30		
4/3C-AM(R)	54	31.8	1700	2.6	50	9.35	18.5	102	76
	100.8	30		3.5	66	12.48	22		
	144	26		4.6	70.5	14.46	30		
4/3C-AM(R)	54	35.6	1800	3	50	10.47	22	102	76
	100.8	33.6		3.8	66	13.98			
	149.4	29.5		5	70.5	17.05	30		
4/3C-AM	57.6	39.7	1900	3.2	50	12.45	22	102	76
	108	37.6		4.2	66	16.76			
	154.8	33.2		5.5	70.5	19.82	30		
4/3C-AM	61.2	44	2000	3.6	50	14.67	30	102	76
	108	42		4.5	65	19			
	158.4	37.1		6	74	22.54			

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
4/3D-AM(R)	28.8	11	1000	2.2	50	1.73	5.5	102	76
	68.4	10.1			69	2.73			
	108	7.6			65	3.44	7.5		
4/3D-AM(R)	32.4	13.2	1100	2.4	50	2.33	5.5	102	76
	72	12.2			69	3.47			
	111.6	9.6			67	4.35	7.5		
4/3D-AM(R)	36	15.9	1200	2.7	50	3.12	7.5	102	76
	75.6	14.7			68	4.45			
	115.9	12.2			68	5.66	11		
4/3D-AM(R)	39.6	18.6	1300	2.2	50	4.01	7.5	102	76
	82.8	17.2		2.2	68	5.7			
	122.4	14.6		2.3	69	7.05	11		
4/3D-AM(R)	43.2	21.6	1400	2.5	50	5.08	11	102	76
	86.4	20.02		2.5	66	7.13	15		
	126.7	17.30		3.5	70	8.53	18.5		
4/3D-AM(R)	50.4	28	1600	2.3	50	7.69	18.5	102	76
	93.6	26.4		3.1	66	10.2	22		
	136.8	23		4.2	70	12.4	30		
4/3D-AM(R)	54	31.8	1700	2.6	50	9.35	18.5	102	76
	100.8	30		3.5	66	12.48	22		
	144	26		4.6	70.5	14.46	20		
4/3D-AM(R)	54	35.6	1800	3	50	10.47	22	102	76
	100.8	33.6		3.8	66	13.98			
	149.4	29.5		5	70.5	17.05	30		
4/3D-AM	57.6	39.7	1900	3.2	50	12.45	22	102	76
	108	37.6		4.2	66	16.76	30		
	154.8	33.2		5.5	70.5	19.85	37		
4/3D-AM	61.2	44	2000	3.6	50	14.67	30	102	76
	108	42		4.5	65	19	37		
	158.4	37.1		6.0	74	22.54	45		
6/4D-AM(R)	72	16	800	3	50	6.27	15	152	102
	133.2	14.6			65	8.15	18.5		
	194.4	12.6			68	9.81	22		
6/4D-AM(R)	79.2	20	900	3	50	8.63	18.5	152	102
	147.6	18.4		3	65	11.38	22		
	215	16		3.3	68	13.84	30		

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
6/4D-AM(R)	86.4	23.7	980	3	50	11.15	22	152	102
	162	21.7		3	65	14.73	30		
	234	18.9		3.7	68	17.71	37		
6/4D-AM(R)	90	24.8	1000	3	50	12.16	22	152	102
	162	22.6		3	65	15.34	30		
	237.6	19.7		3.8	68	18.75	37		
6/4D-AM(R)	93.6	27	1050	3	50	13.76	22	152	102
	172.8	25		3.1	65	18.1	30		
	252	21.7		4	68	11.9	37		
6/4D-AM(R)	100.8	30	1100	3	50	16.47	30	152	102
	180	27.6		3.5	65	20.81	37		
	262.8	24		4.5	68	25.26	45		
6/4D-AM(R)	108	32	1150	3	50	18.82	37	152	102
	194.4	29.9		3.7	65	24.35	45		
	277.2	26		4.8	68	28.86	55		
6/4D-AM(R)	115.2	35.4	1200	3	50	22.21	37	152	102
	201.6	32.2		4	65	27.2	45		
	288	29.4		5	68	32.76	55		
6/4D-AM(R)	111.6	38.5	1250	3.1	50	23.4	37	152	102
	205.2	35.5		4	65	30.52	45		
	298.8	30.6		5.3	68	36.62	55		
6/4D-AM(R)	115.2	41.7	1300	3.4	50	26.16	45	152	102
	212.4	38.2		4.3	65	33.99			
	309.6	33.4		5.7	68	41.41	55		
6/4D-AM(R)	118.8	44.7	1350	3.5	50	28.92	45	152	102
	223.2	41		4.6	65	38.34			
	324	35.6		6	68	46.19	55		
6/4D-AM	122.4	48	1400	3.7	50	32		152	102
	226.8	44		4.8	65	41.81	55		
	331.2	38.5		6.5	68	51.07			
6/4D-AM	129.6	54	1480	4	50		45	152	102
	248.4	49.5		5.2	65				
	356.4	43		7	68		55		
6/4E-AM(R)	93.6	27	1050	3	50	13.76	22	152	102
	172.8	25		3.1	65	18.1	30		
	252	21.7		4	68	11.9	37		

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
6/4E-AM(R)	100.8	30	1100	3	50	16.47	37	152	102
	180	27.6		3.5	65	20.81			
	262.8	24		4.5	68	25.26	45		
6/4E-AM(R)	108	32	1150	3	50	18.82	37	152	102
	194.4	29.9		3.7	65	24.35	45		
	277.2	26		4.8	68	28.86	55		
6/4E-AM(R)	115.2	35.4	1200	3	50	22.21	45	152	102
	201.6	32.2		4	65	27.2			
	288	28.4		5	68	32.76	55		
6/4E-AM(R)	111.6	38.5	1250	3.1	50	23.4	37	152	102
	205.2	35.5		4	65	30.52	45		
	298.8	30.6		5.3	68	36.62	55		
6/4E-AM(R)	115.2	41.7	1300	3.4	50	26.16	55	152	102
	212.4	38.2		4.3	65	33.99			
	309.6	33.1		5.7	68	41.41	72		
6/4E-AM(R)	118.8	44.7	1350	3.5	50	28.92	45	152	102
	223.2	41		4.6	65	38.34	55		
	321	35.6		6	68	46.19	75		
6/4E-AM	122.4	48	1400	3.7	50	32	55	152	102
	226.8	44		4.8	65	41.81	75		
	331.2	38.5		6.5	68	51.07	90		
6/4E-AM	129.6	54	1480	4	50		75	152	102
	248.4	49.5		5.2	65		90		
	356.4	43		7	68		110		
6/4E-AM	133.2	56	1500	4	50		75	152	102
	252	41		5.3	65		90		
	360	44		7.1	68		110		
6/4E-AM	140	63	1600	4.5	50		90	152	102
	268.2	57.5		6	65		110		
	385.2	50.5		8	68		115		
8/6E-AM(R)	126	12	500	2	51	8.1	22	203	152
	255	11.4			66	10.6	18.5		
	324	10			72	12.3	30		
8/6E-AM(R)	126	14.6	550	2	50	10	15	203	152
	252	13.5			67	13.8	22		
	360	12.2			72	16.6	30		

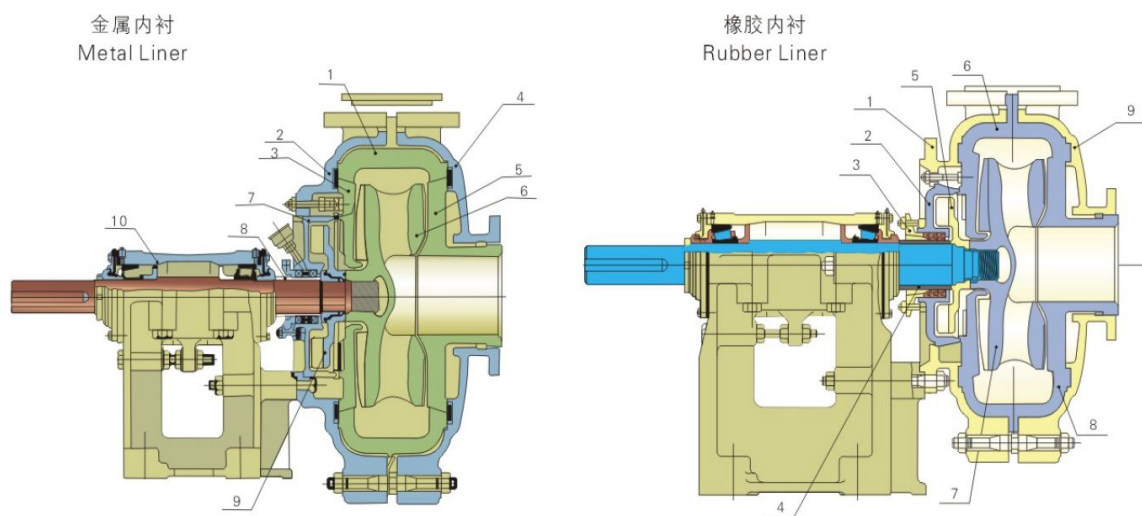
型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Efficiency η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Matingmotor Power(KW)	口径 Dia.ofpump (mm)	
								吸入 Inlet	吐出 Outlet
8/6E-AM(R)	144	17.4	600	2	50	13.7	30	203	152
	270	16.3		2	66	18.2	22		
	396	14.6		2.5	72	21.9	37		
8/6E-AM(R)	162	20.2	650	2	50	17.8	30	203	152
	306	19		2	66	23.6	37		
	432	17		3	72	27.8	45		
8/6E-AM(R)	162	23.6	700	2	50	20.8	30	203	152
	306	22.2		2	66	28	37		
	450	20		3.2	72	34	45		
8/6E-AM(R)	180	28.2	770	2	50	27.7	45	203	152
	342	27		2.3	66	38.1	55		
	504	23.9		4	72	45.6	90		
8/6E-AM(R)	180	30.8	800	2	50	30.2	55	203	152
	360	29		2.4	66	43.1	75		
	522	26		4.2	72	51.4	90		
8/6E-AM(R)	197.3	34.6	850	2	50	37.2	75	203	152
	374	33		2.5	66	51	90		
	554	29.3		5	72	61.4	110		
8/6E-AM(R)	208.8	38.8	900	2	50	44.1	90	203	152
	396	37		3	66	65	115		
	586.38	32.8		5.5	72	72.8	75		
8/6E-AM(R)	218.2	72.3	940	2	50	50.3	110	203	152
	413.6	40.4		3.3	66	69			
	612.7	35.8		6	72	83	90		
8/6E-AM(R)	229.3	46.1	980	2	50	57.6	75	203	152
	432	44		4	68	78.5	90		
	635	38.9		6.5	72	93.5	110		
8/6E-AM(R)	234	48	1000	2	50	62.1	115	203	152
	441	45.8		4	66	83.4	90		
	648	40.5		7.5	72	99.3	110		
8/6E-AM	252	58	1100	4	50	79.6	110	203	152
	439.5	56		4	65	103.05			
	565.2	53		6	70	116.54	115		
10/8ST-AM	216	14	400	2	50	16.47	45	254	203
	396	12.9		2	65	21.4			
	576	11.5		2.5	71	25.41			

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
10/8ST-AM	234	16.1	440	2	50	20.52	45	254	203
	432	15.4		2	65	27.87			
	630	14		3.2	71	33.83	55		
10/8ST-AM	252	19	470	2	50	26.08	45	254	203
	468	18		2	65	35.29	55		
	684	16.3		3.5	71	42.76	75		
10/8ST-AM	270	21.4	500	2	50	31.91	55	254	203
	504	20.1		2	67	41.18	75		
	720	18.5		4	71	51.09	95		
10/8ST-AM	295.2	25	540	2	50	40.20	75	254	203
	540	23.5		2.4	66	52.36			
	774	21.3		4.6	71	63.24	95		
10/8ST-AM	324	29	580	2	50	51.12	95	254	203
	576	27.1		3	67	63			
	828	25		5.3	71	45 79.40	130		
10/8ST-AM	331.2	31.1	600	2	50	56.1	90	254	203
	612	29.2		3	67	12.46	110		
	864	26.5		5.6	71	87.82	150		
10/8ST-AM	345.6	33.5	625	2	50	63.06	110	254	203
	612	31.7		3.2	66	80.05	155		
	900	28.3		6	71	97.69	90		
10/8ST-AM	360	36.2	650	2	50	70.98	130	254	203
	648	34.2		3.5	67	90.08			
	936	31		6.5	71	111.38	155		
10/8ST-AM	381.6	39.3	675	2	50	81.68	130	254	203
	684	37		4	67	102.87	155		
	972	33.4		7.1	71	124.52	180		
10/8X-AM	414	42.5	700	2	50	95.83	155	254	203
	720	39.8		4.2	67	116.48			
	1008	36.1		8	71	139.57	180		
10/8ST-AM	432	46	730	2.1	50	108.24	210	254	203
	741.6	43.1		4.5	67	129.92			
	1051.2	39.2		8.5	71	158.08	245		

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
12/10ST-AM	316.8	12.7	350	2	60	18.26	30	305	254
	540	11.8		2	75	23.14	37		
	774	10.2		2.4	80	26.88	45		
12/10ST-AM	360	16.2	400	2	60	26.47	55	305	254
	630	15.2		2.2	76	34.31			
	885.6	13.4		3	80	40.4	75		
12/10ST-AM	381.6	19.7	440	2	60	34.12	75	305	254
	684	18.5		2.4	75	45.34			
	986.4	16.4		3.2	80	55.07	95		
12/10ST-AM	486	31	550	2.2	60	68.38	100	305	254
	864	29		3.1	76	89.78	130		
	1224	25.2		4.5	80	105			
12/10ST-AM	504	34.1	580	2.3	60	78.01	130	305	254
	900	32		3.3	76	103.2	155		
	1296	28		5	80	123.53	180		
12/10ST-AM	525.6	37	600	2.4	60	88.27	130	305	254
	936	34.2		3.5	76	114.71	155		
	1332	30.1		5.2	80	136.48	180		
12/10ST-AM	540	40	625	2.5	60	98.04	130	305	254
	972	37.5		3.8	76	130.61	155		
	1393.2	33		5.6	80	156.51	180		
12/10ST-AM	576	43.4	650	2.6	60	113.46	155	305	254
	1008	40.5		3.9	76	146.28			
	1450.8	35.7		6	80	176.31	180		
12/10ST-AM	594	46.6	675	2.8	60	125.64	250	305	254
	1044	43.5		4	76	162.73			
	1497.6	38.3		6.2	80	195.25	280		
12/10ST-AM	612	50.1	700	3	60	139.17	280	305	254
	1080	46.9		4.3	76	181.5			
	1548	41		6.7	80	216.05	315		
12/10ST-AM	648	54.3	730	3	60	159.71	280	305	254
	1134	50.3		4.5	76	206.42	320		
	1620	45		7.2	80	248.16	380		

型号 Type	流量 Capacity Q(m³/h)	扬程 Head H(m)	转速 Speed n (r/min)	必需汽蚀 余量 NPSHr(m)	效率 Eff η(%)	轴功率 Shaft Power P(KW)	配用电机功率 Mating motor Power(KW)	口径 Dia. of pump (mm)	
								吸入 Inlet	吐出 Outlet
14/12ST-AM	504	16	300	2	60	36.6	55	356	305
	900	15		4	74	49.7	75		
	1296	13.5		5	77	61.9	95		
14/12ST-AM	504	19	325	2	60	46.6	75	356	305
	954	17.8		4	74	62.5	95		
	1368	16		5.6	77	72.4	115		
14/12ST-AM	576	22	350	2	60	57.5	75	356	305
	1044	20.5		4.3	74	78.8	115		
	1470	18.7		6	77	97.6	130		
14/12ST-AM	612	25.1	375	2	60	69.7	130	356	305
	1084	23.7		4.5	74	94.2			
	1584	21.2		6.7	77	118.8	165		
14/12ST-AM	648	28.6	400	2	60	84.1	130	356	305
	1188	27		5	74	118			
	1692	24		7.3	77	143.6	165		
14/12ST-AM	648	32.3	425	2	60	100.3	130	356	305
	1260	30		5.3	74	139.1			
	1800	27.2		8	77	173.2	165		
14/12ST-AM	720	36.1	450	2	60	118	250	356	305
	1332	34		5.7	74	166.7			
	1908	31		8.7	77	209.2	315		
14/12ST-AM	756	39.6	470	4	60	135.9	210	356	305
	1368	37		6	74	186.3	280		
	1980	33.5		9.2	77	243.6	355		
14/12ST-AM	792	43	490	4	60	161	210	356	305
	1440	40.50		6.4	74	223.6	260		
	2088	36.2		10	77	285.5	280		
14/12ST-AM	828	49	525	4.4	60	184.2	250	356	305
	1512	46.2		6.8	74	257.1	400		
	2196	41.6		10.7	77	323.1	500		
14/12ST-AM	882	54	550	4.5	60	216.2	315	356	305
	1584	50.8		7.3	74	296.1	450		
	2304	45.9		11.7	77	371	560		
14/12ST-AM	943	60.6	585	4.9	60	259.4	400	356	305
	1692	57.6		8	74	358.7			
	2455	51.6		13	77	448.1	480		

结构设计/Construction design



金属内衬/metal liner			橡胶内衬/ rubber liner		
1	护套	Volute liner	1	泵体	Frame plate
2	泵体	Frame plate	2	减压盖	Expeller ring
3	后护板	Frame plate liner insert	3	填料压盖	Gland assembly
4	泵盖	Cover plate	4	轴套	Shaft sleeve
5	前护板	Throat bush	5	付叶轮	Expeller
6	叶轮	Impeller	6	后护套	Frame plate liner
7	减压盖	Expeller ring	7	叶轮	Impeller
8	轴套	Shaft sleeve	8	前护套	Cover plate liner
9	付叶轮	Expeller	9	泵盖	Cover plate
10	轴组	Bearing assembly	Note: Slurry pumps have Throat Bush from 4" 从 4 寸渣浆泵开始有前护板。		

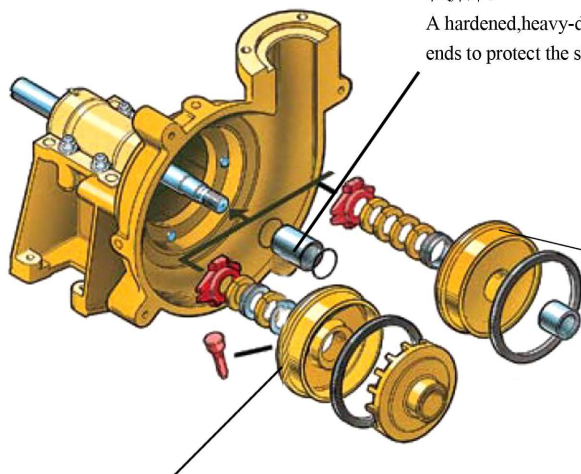
结构设计特点/Construction design feature

维修方便，寿命长的/ long life with low maintenance

轴套 Shaft Sleeve

高硬适合重磨蚀工况，两端带有“O”型密封圈，以保护轴，方便安装和拆卸。

A hardened, heavy-duty corrosion-resistant sleeve with "O" Ring seals at both ends to protect the shaft. Convenient installing and disassembling.



填料密封 Gland Seal

可以使用填料密封，配带低流量或全流量密封冲洗水装置。

A packed gland type shaft seal is also available and can be fitted with a low or a full flow flush seal water arrangement.

离心式密封 Centrifugal Seal

在大多数情况下使用离心式密封可以不需要轴封水。

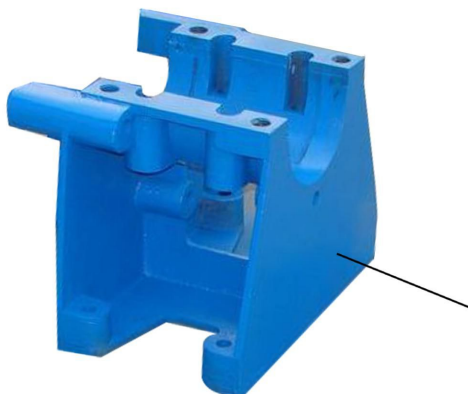
At most circumstances, shaft sealing water is necessary when adopt centrifugal seal.



轴和轴承组件 Shaft and Bearing Assembly

短悬臂大轴径设计可以使偏差和振动减到最小，重型滚柱轴承安装于轴承筒内。

A large diameter shaft with a short overhang minimizes deflection and vibration, the heavy-duty roller bearing is fixed in a removable bearing cartridge.



托架 Pump Base

用少量的螺栓就可以将泵体固定在托架上，可以在轴承架下很方便的位置上调整叶轮。

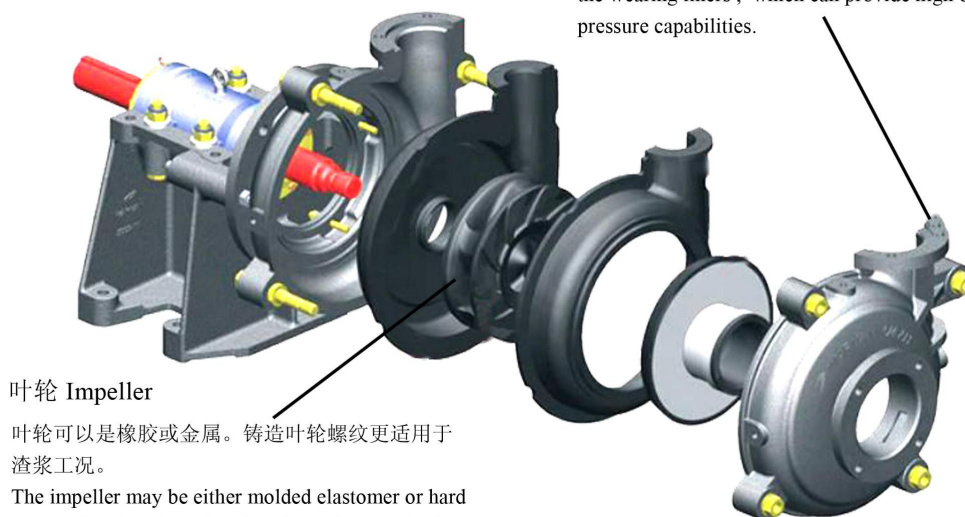
A few number of bolts can fix the pump casing to the frame. The impeller can be adjusted in a convenient position below the bearing frame.

过流部件设计/ Wet parts design

泵壳 Pump Casing

分割外壳设计采用铸造或球墨铸铁，内衬耐磨材质，可以提供较高的承压能力。

Split outer casing design with cast or ductile iron with the wearing liners, which can provide high operating pressure capabilities.



叶轮 Impeller

叶轮可以是橡胶或金属。铸造叶轮螺纹更适用于渣浆工况。

The impeller may be either molded elastomer or hard metal. Cast-iron impeller threads are better suited for slurries.

金属内衬和橡胶内衬互换 Interchangeable Hard Metal and Moulded Elastomer Liners

金属内衬配合面具有一定的锥度，保证装配过程中精确对准，并保证部件易于拆卸或更换。

Mating faces in hard metal liners are tapered to allow positive alignment during assembly and allow components to be easily removed or replacement.



叶轮 Impeller

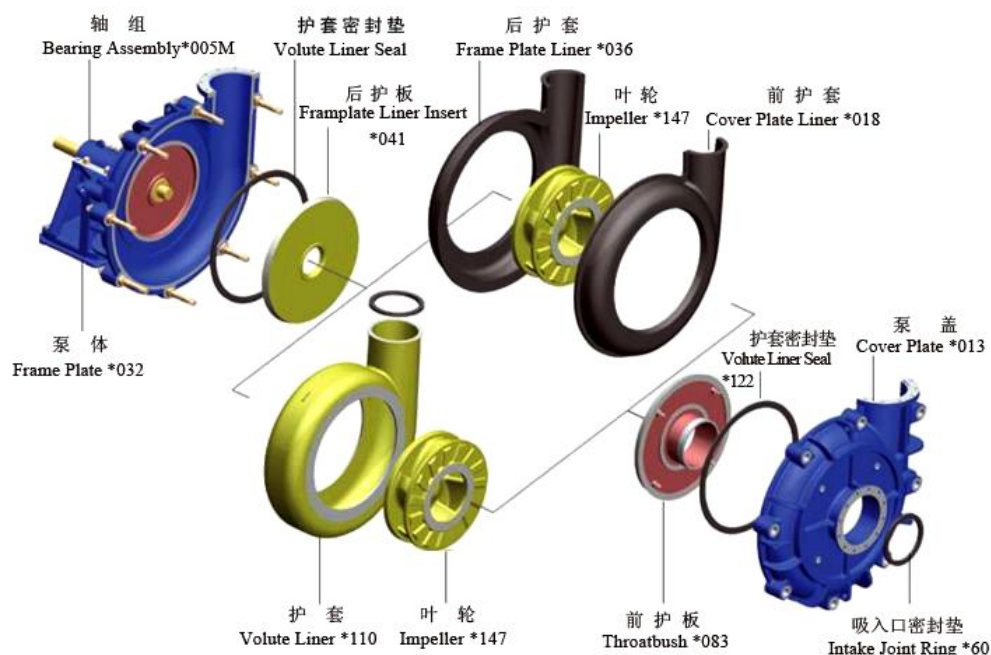
叶轮可以是橡胶或金属。铸造叶轮螺纹更适用于渣浆工况。

The impeller may be either molded elastomer or hard metal. Cast-in impeller threads are better suited for slurries.

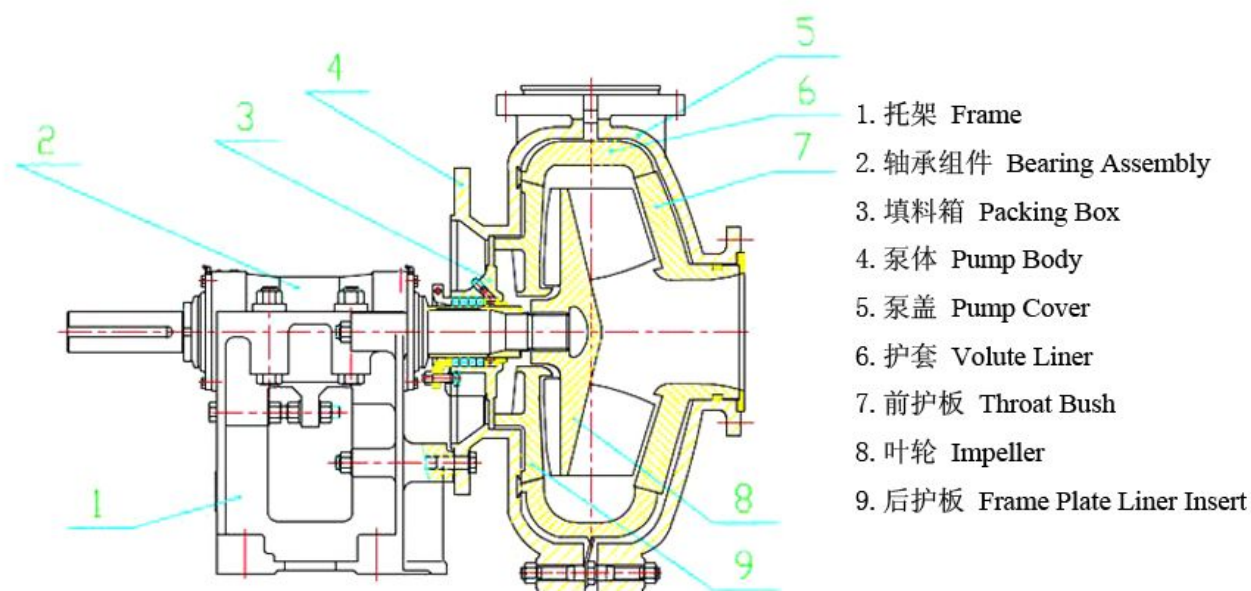
利用水压进行密封的护套密封垫使配合端面的密封绝对可靠。

Hydraulic seal rings give positive sealing between mating faces.

结构设计/ Construction and material



AML 型泵结构图 /AML series pump structure.



AML 型渣浆泵, 口径小于等于 200mm 为开式叶轮, 大于等于 250mm 为闭式叶轮.

AML slurry pump,
pump size less than 200mm, the impeller is open type
pump size more than 250mm, the impeller is close type

轴封模块设计/Shaft seal design

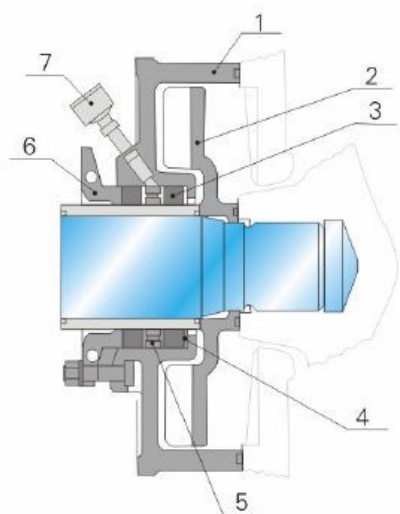
AM, MM, AMH, L 系列泵可采用多种轴封形式：付叶轮密封、填料密封、机械密封及各类特殊组合密封。

Type AM, MM, AMH, L slurry pumps adopt many kinds of sealing types: expeller seal, gland packing seal, mechanical seal and all kinds of special combined seal.

付叶轮动力密封 Expeller seal

利用叶轮与串联的付叶轮产生的压力密封，填料或唇口密封圈作为停车密封

Use pressure seal produced by impeller and expeller in series, packing or lip sealing ring for shut down seal

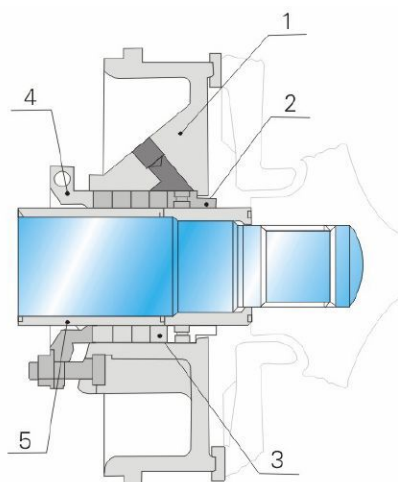


1	减压盖	Expeller ring
2	付叶轮	Expeller
3	填料	Packing
4	填料垫	Neck ring
5	水封环	Water seal ring
6	填料压盖	Gland assembly
7	油杯	Oil cup

填料密封 Gland packing seal

常见轴封形式，适用于各种工况条件，可配用聚四氟乙烯填料、石墨填料，用于腐蚀性或高温条件下。可配用喷焊陶瓷轴套，适用于强磨蚀工况。

The routine sealing systems are suitable for various conditions and can be used in the corrosion or high temperature conditions such as PTFE packing, graphite packing and etc. It also can be used in strong abrasive condition duty with shaft ceramic sleeve of spray weld.

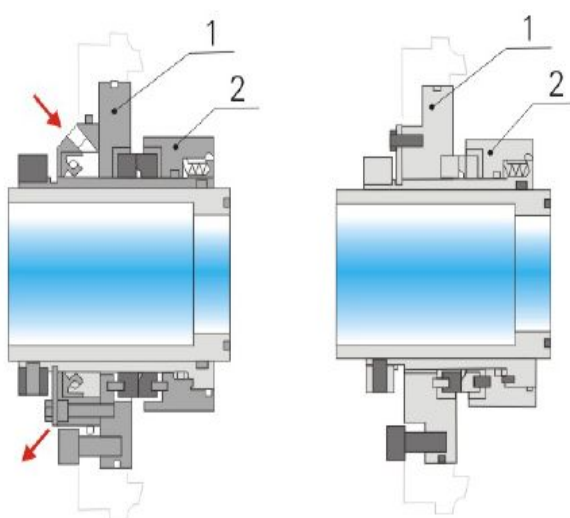


1	填料箱	Stuffing box
2	前水封环	Lantern restrictor
3	填料	Packing ring
4	填料压盖	Gland assembly
5	轴套	Shaft sleeve

机械密封 Mechanical seal

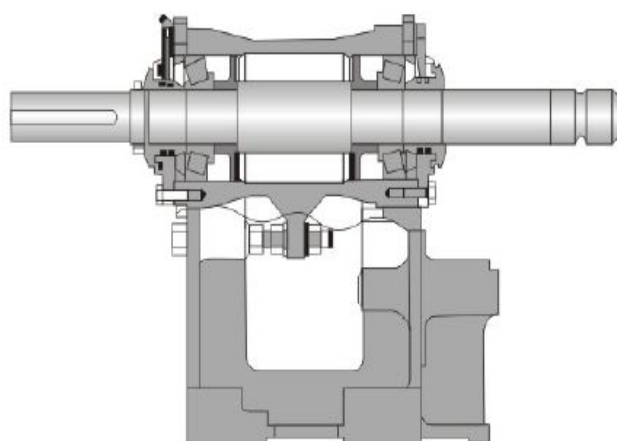
国际领先的密封技术，无泄漏的密封效果。集装式结构，安装与更换方便，不同的结构形式适用不同的工况条件。摩擦副材料采用高硬度陶瓷及合金材料，机械密封盒密封箱设计与配合符合介质流动状态，因而具有较高的抗磨蚀性和抗震性，在各种恶劣工况下均能保证顾客满意的密封效果。

World advanced sealing technique without sealing leakage, integrating construction, convenient installation & replacement, various constructions suit for all kinds of conditions. High hardness ceramic and alloy are adopted for material of friction parts. Design & matching of mechanical seal & sealing box is suitable for fluid status. It possesses high abrasive resistance & shake-proof to guarantee that sealing effect can be satisfied by customers in various conditions.



1	静环组件	Stationary ring assembly
2	动环组件	Movable ring assembly

传动模块设计/ Drive Module Design



筒式脂润滑轴承组件
Cylindrical bearing assembly using oil lubrication

先进的脂润滑油轴承组件

泵轴直径大，重载设计的筒式结构，体积小，占地少。采用脂润滑方式，无漏油之患，维护量最小，转子调整方便，可串联使用。

Advanced bearing assembly using grease lubrication

Its advantages are large shaft diameter, cylindrical structure for over loading design, small volume, little installation space, convenient rotor adjustment, it can be used in serials.

新材料的研究/ New Material Research

离心渣浆泵是用于输送固液两相流的泵，广泛用于冶金矿山、电力、化工、食品等工业和污水处理、江湖疏浚等部门。因此这类泵除了要充分满足工况条件要求之外，使用寿命成为关键。在采用了良好的耐磨损设计和合理的材料选择后，可以使泵的使用寿命得到有效的改善，我公司根据每种工况的具体情况，在认真分析其基本磨损机理与磨损规律后，选择合适的 A 系列耐磨材料或其他金属非金属耐磨材料作为泵的耐磨过流件，以使泵的运行要求与其零部件的选择达到最佳组合，得到最佳的运行效益。

The centrifugal slurry pump is used to transport solid and liquid that can be widely applied to the departments of metallurgy, mine, coal, electric power, chemical & industry, food, sewage treatment and channel dredging, etc. So the service life is key to the pump besides of satisfying the demands of conditions completely. After adopting anti-wear design and reasonable materials, the service life of pump has been improved effectually. Suitable series Anti-wear & anti-corrosive material or metal & non-metal anti-wear material have been used to make flow parts according to all kinds of specified conditions and wear discipline, so that the pump can operate under the best state and get best operation benefit.

耐磨材质概览表/ Wearing material list

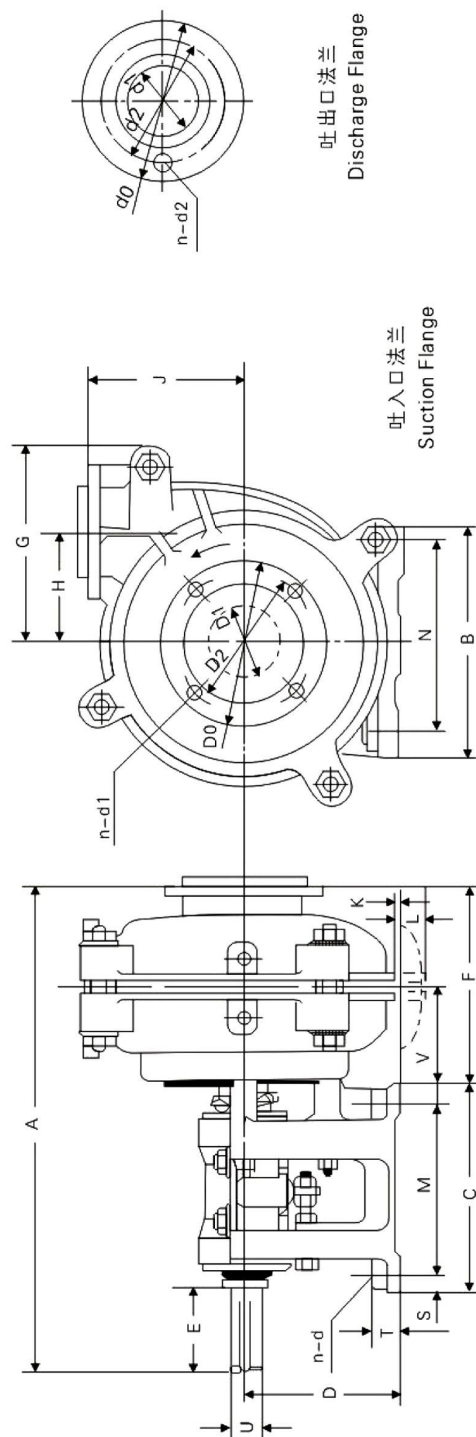
耐磨耐腐金属材料概览表

类别	材料代号	材料牌号	机械性能			特殊性能	应用举例
			δ_w/δ_b MPa	α_k J/cm ²	HRC		
抗磨 白口 铸铁	A05	KmTBCr26	≥700	6-10	≥56	抗冲刷性能仅次于 A07，且具有一定腐蚀性。	用于较大冲击载荷的磨料磨损，PH 值为 5~12 的工况。
	A07	KmTBCr15Mo	≥550	4-8	≥59	抗冲刷性能最好，但耐磨蚀性能不如 A05。	用于较大冲击载荷的磨料磨损。
	A01	KmTBCr8	≥550	6-8	≥55	抗冲刷性能是 A05 的 0.9 倍。	用于泥浆泵和灰浆泵。
	A11	KmTBMnMo	≥400	3-6	38-42	具有抗轻度冲刷性能，硬度较低，可以钻孔、攻丝。	适用于含微量细颗粒，具有轻度磨料磨损工况。
抗磨 耐蚀 铸铁	A49	——	≥600	——	43	有一定耐冲刷性，低 PH 环境抗蚀性，抗磨性近似 A03。	适用低 PH 磨蚀性环境，特别用于烟气，用于 PH≥4 的脱硫
	A33	——	——	——	35	具一定抗冲刷性能，与 A03 近似，具有一定的耐蚀性。	用于输送 PH≥1 氧化性浆料
抗磨 铸钢	A22	——	1200	——	45	耐冲刷性好，硬度较高	适用于挖泥船用泵的泵体
	A23	——	700	——	HB500-600	硬度较高，耐冲刷性尚好。	适耐磨蚀磨损较高冲刷工况
	A25	——	——	——	HB300-350	硬度低耐磨蚀性可焊性良	适用轻度冲刷及磨损工况

General introduction sheet of anti-wear & anti corrosive material

Type	Code	Mark	Mechanism Performance			Special Performance	Application
			$\delta w / \delta b$ MPa	αk J/cm ²	HRC		
Anti-wear white iron	A05	KmTBCr26	≥ 700	6-10	≥ 56	Erode resistance is a little bit lower than A07 with certain corrosive resistance	Used for higher wear condition with PH between 5 and 12
	A07	KmTBCr15Mo	≥ 550	4-8	≥ 59	Best erode resistance but lower wear resistance than A05	Used for higher wear condition
	A01	KmTBCr8	≥ 550	6-8	≥ 55	The erode resistance is about 0.9 times of A05.	Used for mud pump
	A11	KmTBMnMo	≥ 400	3-6	38-42	Lighter erode resistance and lower hardness. It can be perforated and tapped.	Used for light wear condition with fine grain.
Anti- wear &anti-corr osive iron	A49	--	≥ 600	--	43	It has certain erode and corrosive resistance in low PH condition. Its wear resistance is nearly equal to A03	For lower PH condition, especially for flue gas. For low sour condition desulphuration installation (PH ≥ 4)
	A33	--	--	--	35	It has certain erode and corrosive resistance that is similar to A03 and certain corrosive resistance.	It can transport oxygenated slurry with PH not be less than 1.
Anti-wear cast steel	A22	--	1200	--	45	Fine anti-erode & anti-corrosive, high hardness.	Used for dredge pump casing.
	A23	--	700	--	HB500-600	Higher hardness and anti-erode.	Used for anti-wear & corrosive and high erode condition.
	A25	--	--	--	HB300-350	Lower hardness, better anti-wear & anti-corrosive and weldable.	Used for light erode and wear condition.

渣浆泵尺寸图 / Slurry pump dimension



型号/Model	A	B	C	D	E	F	G	H	J	K	L	M	N	V	T	S	n-d	吐入口法兰 Suction Flange				吐出口法兰 Discharge Flange				重量 Weight kg	
1.5/1B-AM	583	295	248	197	28	79	206	181	98	171	46	143	254	181	38	24	4-φ14	D0	DI	D2	n-d1	d0	d1	d2	n-d2	M	RU
1.5/1C-AMH	759	406	311	254	42	121	306	270	194	254	—	175	356	252	48	32	4-φ19	152	38	114	4-φ16	165	25	127	4-φ16	91	77
2/1.5B-AM	592	295	248	197	28	79	217	205	114	184	33	143	254	184	38	24	4-φ14	152	38	114	4-φ17	152	25	114	4-φ17	318	—
3/2C-AM	768	364	311	254	42	121	281	238	138	210	71	175	356	233	48	32	4-φ19	152	38	114	4-φ19	184	51	146	4-φ19	191	154
3/2D-AMH	986	311	364	330	65	164	389	384	254	368	—	213	432	298	64	38	4-φ22	216	76	178	8-φ19	203	51	165	4-φ19	750	—
4/3C-AM	84	406	211	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
4/3D-AM	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
4/3E-AMH	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	—
6/4D-AM	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
6/4E-AM	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
6/4F-AM	1556	857	635	610	108	279	584	616	413	546	—	349	762	280	98	95	4-φ35	337	152	292	8-φ22	305	102	260	8-φ22	2529	—
8/6E-AM	1302	622	448	457	80	222	557	551	318	460	—	257	546	402	76	54	4-φ29	406	203	356	8-φ22	368	152	324	8-φ21	1473	982
10/8E-AM	1337	622	448	457	80	222	584	613	381	470	—	257	546	403	76	54	4-φ29	502	254	445	8-φ29	432	203	375	8-φ29	1625	1202
10/8F-AM	1635	990	635	610	100	279	584	673	419	635	—	349	762	280	98	95	4-φ35	502	254	445	8-φ29	432	203	375	8-φ29	3750	3130
12/10F-AM	1725	990	635	610	100	279	584	755	464	674	—	349	762	280	98	95	4-φ35	527	305	470	12-φ25	527	254	470	12-φ25	4318	3357
14/12F-AM	1755	990	635	610	100	279	584	937	629	832	—	349	762	280	98	95	4-φ35	585	356	521	12-φ25	552	305	495	12-φ25	6409	4672
16/14G-AM	2180	1208	876	850	140	356	953	1048	660	889	—	749	850	502	152	63	4-φ41	705	406	641	12-φ35	673	356	610	12-φ29	10000	—

渣浆泵操作指南 Slurry pump operation manual

装配与拆卸 Assembly & Disassembly

1. 装配流程。

(a)、进行轴承组件的装配。装配好轴承体，主轴转动应手感灵活，不得有碰擦现象。

(b)、把轴承组件装在托架上，再装泵体、水封环、填料箱、后护板、护套。

(c)、在护套轴端装上轴套、定位套、“O”型密封圈、叶轮、固定轴向位置。

(d)、装上前护板、泵盖，连接泵体、泵盖。

(e)、装上填料，试压前调整填料压盖压紧程度，试压后保持轴封水一滴滴渗出即可。

(f)、用调整螺栓调整转子的轴向位置，总串动量为 6-12mm，泵的前串动量为 4-7mm。

2. 泵的拆卸顺序可按泵的装配顺序反向进行。

1. Assembly

(a) Settle the bearing assembly. After assembly the bearing housing, shaft should rotate flexibly, and should be no abrasion.

(b) Install bearing assembly on the base, then casing, lantern ring, stuffing box, frame plate liner insert and volute liner in turn.

(c) Install shaft sleeve, shaft spacer, O ring, impeller on the shaft end of volute liner and fix axial direction position.

(d) Set throat brush, cover plate, connect frame & cover plate.

(e) Put packing rings, adjust gland assembly before testing pressure, keep the sealing water drop by drop after testing.

(f) Adjust rotor axial direction by adjusting bolt. The total series momentum is 6-12mm, and the front series momentum is 4-7mm.

2. Disassembly of pump can be opposite process of above

安装 Installation

1. 泵的进口管路力求简短，略有上升倾斜，进、出口管路必须密封。如用底阀，底阀在水下应有足够的深度，装置汽蚀余量必须大于泵的汽蚀余量，在输送重量浓度大的渣浆时，推荐采用倒灌装置。

2. 泵的进、出口管路应有自己的支架，不允许管路重量压在泵上，不允许泵与管道不在同一条线上的强行安装。

3. 泵的出口管路应安装闸阀，用此调节运行点。如果抽送高度大于 10 米，应在泵的出口闸阀后安装一个止回阀，以防止突发性停机时水击造成过流部件损坏。

4. 在安装机组时应检查基座的水平度，允许楔铁找平。

5. 机组安装完毕后，检查软填料密封用水的压力与流量，见表 3。

6. 试运转 3-4 小时后检查轴承温升，轴承温度应小于 75℃

1. Inlet pipe should be short, raise slightly and tilt. Seal the inlet & outlet pipes. If need foot valve, must submerge under water in an adequate depth. NPSH of device must be larger than pump. When pump high density slurry, suggest inverted feeding device.

2. The inlet and outlet pipes should have their own brackets. The pipe weight can not be imposed on the pump, and the pump and pipe can not be installed when they are not on the same line.

3. Install gate valve at the pump outlet to adjust operating point. If discharge head is more than 10m, should install a check valve after gate valve to avoid wet parts damage while sudden stop.

4. Check the base levelness when install the pump. Wedge iron leveling is acceptable.

5. After mounting the pump set, the soft packing seal water pressure and capacity should be checked, as shown in diagram 3.

6. Have a check on temperature rise 3 or 4 hours after the trial operation. The bearing temperature should be less than 75 °C.

托架形式 Frame type	B	C	D	E	F	R	ST
轴封水 Shaft Seal Water Volume(l/s)	0.1	0.3	0.5	0.7	1.0	1.1	2.5
轴封压力 Shaft Seal Pressure(MPa)	0.343+出口压力 Outlet Pressure						

运转 Operation

1.启动

启动前应按下列步骤检查整个机组.

(1) 泵应安放在牢固的基础上,以承受泵的全部重量消除振动,拧紧全部地脚螺栓.

(2) 管路和阀门应分别支撑.泵法兰处有密封垫,拧紧联接螺栓时应注意有的泵金属内衬高出法兰,此时螺栓不应拧的过紧,以免损坏密封垫.

(3) 用手按泵转动方向转动轴,轴应能带动叶轮转动,不应有摩擦,否则应调叶轮间隙.

(4) 检查电机转向,要保证泵按泵体上所标出的箭头方向转动,注意泵不允许反向转动,否则叶轮螺纹会脱扣,以致造成泵的损坏.

(5) 直联传动时,泵轴和电机轴应精准对中.可采用刀口尺或磁力百分配合塞尺对联轴器进行校正,保证最大误差不大于 0.01mm.

皮带传动时泵轴和电机轴应平行,并调整槽轮位置,使其与槽带垂直,以免引起剧烈的振动和磨损

Starting up

Before starting please check the pump by the order listed below

(1) The pump should be placed at a secure base which can stand the weight of the

pump and minimize vibration. Screw all the foundation bolts tight.

(2)The pipe and the valve should have separate supports. There is gasket on pump flange, when tighten the coupling bolts, should pay attention to make volute liner higher than pump flange, at same time can not over tighten the, to avoid damage to the gasket.

(3)Use hands to turn the shaft to the direction of the rotation of the pump. The shaft should be able to drive the impeller and there should be no friction, otherwise the gap between impeller and frame plate liner and the gap between the impeller and the throat bush should be adjusted.

(4)Check the direction of rotation of electric motor. Make sure the pump turn in the direction as labeled on the frame plate. Note that the pump must not turn in the reverse direction. Otherwise the impeller may be screwed off the shaft and damage the pump.

If coupling is used, the shaft of the pump should be exactly co-centric with the shaft of the electric motor. For V-belt drive, the pump shaft and the motor shaft should be parallel. Adjust the position of the groove such that it is perpendicular to the belt, so as to avoid violent vibration and wear and tear.

For pulley type SPA and $\begin{cases} \text{SPA} \\ \text{SPB} \end{cases}$ & SPB and $\begin{cases} \text{SPB} \\ \text{SPC} \end{cases}$ matched,

(6) 在泵的吸入管处应装配一段可拆卸的短管,其长度应足以拆开泵盖和更换易损件,便于泵的检修.其长度见各泵的外形尺寸图.

(6) At the suction pipe, a short removable pipe should be equipped, the length of which should be such that the cover plate and other wearing parts could be repaired easily by removing this pipe.

(7) 轴封检查:副叶轮轴封的泵,由于其停车密封结构的不同,故当减压盖上装有油杯时,则需要通

(7)Check the shaft sealing systems. If the expeller cover has oil cup, lubricants should be added via oil cup. The recommended lubricant is

过油杯加润滑脂,润滑脂推荐用钙钠基润滑脂。

填料密封泵应在启动前打开轴封水并检查轴封水量,水压是否合适,调节填料压盖压紧螺钉,以调节填料的松紧程度,调节轴封水,从填料压盖处的泄露量以一滴一滴渗出为好,填料太紧,轴套易发热,同时耗功率,填料太松则液体泄露量太大。轴封水压一般高于泵出口压力

3.5X10-2MPA(0.35kgf/cm²),轴封水量一般建议按下表:

托架形式 Frame Type	A	B	C	D	E/F	G	R/RS	S/ST	T/TU	U
轴封水量(升/秒) Amount of shaft Sealing water(l/s)	0.15	0.25	0.35	0.55	0.70	1.2	0.70	1.2	1.6	2.1

(8)皮带传动安装注意事项

由于该系列渣浆泵传动方式一皮带传动居多,因此正确安装皮带传动系统尤为重要,以下是安装传动系统时应注意的几个要素:(参照图十四

a. 检查皮带轮槽在安装一组新的皮带前,应检查槽轮的状况。轮槽应保持良好状态,不应有划痕或锋利的台阶。所有的尺寸应合乎标准。脏或锈的槽轮会降低传动效率并损坏皮带,导致皮带过早报废。磨损的槽轮会缩短皮带 50%的寿命。如果轮槽磨损至皮带最低点,可能会引起皮带打滑,导致烧毁皮带。

b. 检查槽轮平行度在安装前,应先用直尺或拉线方式校准轴及槽轮的平行度,一般平行度偏差 20' 以上就会严重影响皮带寿命。轮槽平行度不平行会使皮带产生不均匀磨损,导致皮带挤出轮槽而使所有载荷施加在皮带伸长的一边,拉断该边的皮带线绳。

c. 安装皮带安装皮带时,应先松开一边轮槽,将可移动一侧移至可轻松装入皮带的位置,轻松装入

calcium-sodium based grease.

Before switching on packed gland sealed shaft pump, flush seal water should be turned on. Check that the flow rate, water pressure is of an appropriate level. Adjust the gland assembly bolts to adjust the tightness of the packing and flush seal water so that water drips from the gland assembly drop by drop. If the stuffing is too tight, the shaft sleeve may get overheated and it is a waste of energy. If the stuffing is too loose, too much slurry may be leaked. The pressure of the flush seal water is usually 3.5X10-2MPA(0.35kgf/cm²) higher than the pressure of the pump. The recommended amount of shaft sealing water can be read from the table below.

Adjusting the triangular belt pressure

Currently there is no national standard for narrow V belt and the companies are not able to give a fool-proof adjustment procedure. Our company recommends the following way of adjustment:

a.First calculate the pre-tightening force Q.

$$Q = \frac{510(2.5 - C_1)P \cdot C_2}{C_1 \cdot Z \cdot V} + mv^2(N)$$

b. From the pre-tightening force and belt type read off the value of e from the chart.

$$Q = \frac{510(2.5 - C_1)P \cdot C_2}{C_1 \cdot Z \cdot V} + mv^2(N)$$

c.Calculate

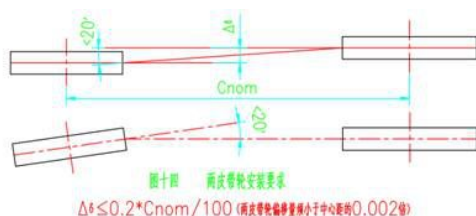
$$f = \frac{e \cdot L}{100}$$

d.Check the corresponding value of R at Table 1. Adjust the distance between the centers of the two wheels by the procedure demonstrated by diagram 4 until the required pre-tightening force is reached. Usually when R Newton force is exerted, when displacement is less than f, the required pre-tightening force is reached.

In the equation:

皮带后再张紧,张紧的同时调节槽轮平行度(初次安装皮带,应当尽量使皮带张紧,在开机运转 24 小时后再张紧一次,以后就不需要再调整)切勿使用工具强行装入皮带或者强行盘入皮带,强行安装皮带会损坏皮带强力层,使皮带不能正常使用

d. 维护皮带作为易耗品,为了能达到最好的使用效果应采用一组全新的皮带来配设备,建议应定期地检查设备的槽轮,槽轮平行度以及皮带是否伸长,异常的热量积聚或磨损.必要时应进行更换,请不要将不同生产厂家生产的皮带在同一组皮带中混合使用。



三角带调整好之后,再次检查叶轮转动是否正常,在可能的情况下,应在泵送渣浆前用清水气动泵,开吸水管阀门,开电动机,检查进出口压力和流量,检查填料处泄露量,若填料发热吗可先松动填料压盖螺栓,使泄漏量大一些,待填料与轴跑合后再调节泄漏量至规定值。

Table 1

Type	SPA	SPB	SPC	SPZ
R	60	90	120	30
m	0.12	0.20	0.38	0.08

2. 运转

(1) 运转中应定期检查轴封水的压力和流量及时调节填料压盖或更换填料,以保证始终有少量的清洁水通过轴。

(2) 定期检查轴承组件运转情况.开始运转时若轴承发热,则可停泵待轴冷却后,再次进行运行。

Q is the smallest pre-tightening force on each belt when stationary.

f is the total displacement of the belt

C1 is the angle index, approximately 0.9

C2 is the operational index, approximately 1.4

L' is the distance between the wheels

P is the labeled power of the electric motor. Unit: KW

Z is the number of belts

V is the liner speed, unit: m/s

m is the index of centrifugal force (Table 1)

e is the amount of bent for every 100mm hanging sleeve. (Diagram 4)

The final pre-tightening force is adjusted such that it is smallest when the load is the largest. When used in groups, the length of the belts should be the same to ensure that all the belts shoulder the load evenly.

Once the V belt is adjusted, check again if the impeller can rotate. Clean water should be used start up the pump. Turn on the valve at the inlet branch, turn on the electric motor, check the suction and discharge pipe pressure and volume flow rate. Check the leakage at the gland assembly. If the stuffing gets overheated, the bolt on the gland assembly can be loosened to increase the leakage. When the packing and shaft are saturated, adjust the leakage to the standard value.

2. Operation

(1) When the machine is in operation, check the pressure and volume flow rate of the sealing water regularly, if sealing water is used. Adjust the tightness of sealing cover and replace the stuffing if necessary. Ensure that there is always enough clean water passing over the shaft.

(2) Check the bearing assembly regularly. If the bearing gets overheated when the operation is started, the pump should be

若轴承仍严重发热,温度持续上升,则须拆检轴承组件,检查原因.一般轴承发热多是由于润滑油过量或油中有杂质引起的,轴承润滑脂要适当,清洁,要定期增添润滑脂.

(3) 泵性能随着叶轮与护板间隙的增大而渐弱,效率降低,故应及时将叶轮向前调整,以保持一定间隙,使泵能保持在高效率运行,当泵磨损到不能满足系统需要时,应更换易损件.

3.停泵

停泵前应尽可能使泵抽送一会清水,以清洗流经泵内的渣浆,然后依次关闭泵,阀门,填料轴封水.

维修保养 Maintenance

要使泵安全运行,必须注意日常的维护,维护保养应注意以下几个方面:

1. 轴封的维护

填料轴封泵要定期检测密封水压和水量,要始终保持少量清洁水沿轴流过,定期调填料压盖,检查填料并定期更换填料,轴封水压,轴封水量应符合上述(轴封检查)的要求.

装有油杯的副叶轮轴封泵,应定期用油杯注润滑脂,以润滑内部的填料或唇口密封圈.

2. 叶轮的调节

为了保证泵高效运行,就必须及时调整叶轮与前护板的间隙,金属内衬泵叶轮与前护板间隙在 0.51mm 之间,橡胶内衬泵叶轮与前后护套之间的间隙要相等.调节叶轮间隙时首先停泵,松开压紧轴承组件的螺栓,拧调整螺栓上的螺母,使轴承组件向前移动,同时用手转动轴按泵转动方向旋转,

switched off to let the bearing cool down, and then switch on the pump again. When the bearing still gets severely overheated and the temperature keeps rising, the bearing assembly should be stripped and carefully examined to find out the reason. Usually the overheating is caused by excessive lubricant or impure lubricant. The lubrication should be clean and of an appropriate amount. Lubricants should be added regularly.

(3) The efficiency of the pump decreases as the gap between the impeller and throat bush increases. Thus the impeller should be moved forward regularly to ensure the gap is kept at an appropriate size. When the parts are worn such that the system requirement cannot be met, the wearing parts should be replaced.

3. Shutting down

Before shutting down the pump, if possible, the pump should be allowed to transport clean water for a while so as to clean the slurry inside the pump. Then the pump, valve, and sealing water should be stopped in turn.

Constant maintenance should be employed to ensure the safe operation of the pump.

Please take note of the following during maintenance.

1. Maintenance of shaft sealing

For packed gland seal the pressure and flow rate of flush seal water should be checked regularly. Make sure that there is always some clean water passing around the shaft. Adjust the gland assembly regularly. Check the stuffing regularly and replace the stuffing if necessary. The pressure and flow rate of the sealing water should meet the standards stated in above requirements.

2. Adjusting the impeller

To make sure the pump runs with great efficiency, the gap between the throat bush and the impeller should be adjusted regularly. The distance between impeller and the throat bush should be kept at 0.5-1 mm in lined-metal pump. The gap between the impeller and liners should be kept the same in lined-rubber pump. To adjust the gap between liners and impeller, shut down the pump first. Loose the bolt

直到叶轮和前护板摩擦为止, 对于金属内衬泵则将前刚拧紧的螺母放松半圈. 再将调整螺栓上前面的螺母拧紧,使轴承组件后移, 此时叶轮与前护板间隙在 0.5-1mm 直接, 对于橡胶内衬泵则通过拧调整螺栓上的螺母, 使轴承组件先向前移动,使叶轮与前护套接触, 再使轴承组件向后移动, 是叶轮与后护套接触, 测出轴承组件总的移动距离, 取此距离一半作为叶轮与前后护套的间隙, 再用调整螺栓调节轴承组件的位置, 保证叶轮与前后护套的正确间隙值.调整后,再次起动前, 须重新检查叶轮转动是否正常, 轴承组件压紧螺栓与调整螺栓是否拧紧,然后再起泵.

3.轴承润滑

轴承组件在装配时, 若装配正确, 润滑油适量, 维修及时, 运转寿命会较长, 维修人员应定期检查轴承组件. 检查轴承及润滑脂的情况, 检修间隔一般不超过 2 个月. 在运转中须定期添加润滑脂, 间隔时间及注入的量与泵的转速,轴承规格, 连续工作时间, 泵的停开次数, 周围环境和运转温度等许多因素有关, 而且润滑脂过量会引起轴承发热,因此须逐渐积累经验,合理及时地加润滑脂, 在一般情况下可参照下表.

4.备用泵应每周 将轴转动 1/4 圈, 以使轴承均匀的承受静载荷和外部振动.

which presses the bearing assembly tight. Tighten the nut on the adjusting screw to move the bearing assembly forward. At the same time, use hands to turn the shaft to the direction of the pump until the impeller and throat bush are next to each other. For lined-metal pumps, loose the just tightened nuts half a circle, and tighten the front nut on the adjusting screw to move the bearing assembly backwards. The gap between the impeller and throat bush is 0.5-1 mm. For lined-rubber pumps, tighten the nut on the adjusting screw to move the bearing assembly forward, so that the impeller just touches the cover plate liner. Then move the bearing assembly backward until the impeller touches the frame plate liner insert. Measure the distance that the bearing assembly has been moved. Take half of this distance as the gap between impeller and cover plate liner and impeller and frame plate liner. Adjust the position of bearing assembly using adjusting screw to make sure that the gap between impeller and front and back liners are of appropriate amount. After adjustment check if impeller operates correctly before starting the operation again.

3. Lubrication of the bearing

The service life of the pump will be longer if the bearing assembly is correctly assembled, the lubricant is of the right amount, and the pump is regularly maintained. Maintenance staff should check the bearing assembly and the amount of lubricant regularly. Usually the pump should be maintained at least every 2 month. When the pump is in operation, lubricant should be added regularly. The frequency and amount of which depends on the speed of revolution, type of bearing, continuous work time, the number of times that the pump is shut down, ambient, temperature, etc. Excessive lubrication may cause overheating of the bearing. The right amount of lubricant should be learned by trial and error. For usual working condition, the amount of recommended lubricant is listed on the following table.

4.The back-up pump should be turned a quarter of a revolution every week, to make sure that every part of the bearing evenly shoulders the pressure and vibration caused by external factors

Type of Suport		Amount of lubrication for every bearing(g)	Speed of revolution (r/min) 转速(转/分)								
托架形式		轴承润滑量	200	300	400	600	800	1000	1200	1800	2000
B		12					3000	2400	1800	1500	1000
C		18				3600	2400	1800	1600	1200	900
D		28				2500	2000	1500	1200	800	500
E		44		5000	3600	2200	1600	1100	800	500	
F		71	7000	4200	2000	1800	1200	700	400		
Side of Pump 泵端	R RS	102			3000	2000	1400	1000	600	400	100
	S ST	132		3800	2800	1500	900	500	300		
	T TU	304	4800	3000	1800	900	400				
	U	621	4000	2400	1500	500					
Side of Motor 电机端	R RS	61			800	4800	3500	2800	2200	1500	900
	S ST	74		8000	6000	3600	2400	1600	1200		
	T TU	133	8000	7000	4500	2500	1500				
	U	192	7000	6000	4000	2000					

注:上述规定仅适用于正常工况,因此只能作为参考.

*the recommended amount is suitable for usual work condition only.

上述润滑脂的规定是润滑轴承备用的, 对于各种轴承组件, 在轴承组件上,内侧的丝堵是添加轴承润滑脂的,外的油杯时用于清洁迷宫密封用的.除定期的通过丝堵添加润滑脂外,还应该通过油杯加入清洁的润滑脂,以保持迷宫密封的清洁.

The recommended lubrication above is to lubricate the bearing. On the bearing assembly, the inner plug is to add lubrication for bearing assembly; the oil cup on the outside is to clean the labyrinth. Besides regular lubrication via plug, clean lubricants should be added to the oil cup regularly to ensure the cleanness of the labyrinth.

可能故障和解决方案

故障	发生原因	解决办法
泵不吸水	渣浆重量浓度太大 吸入管道或填料处漏气 转向不对或叶轮损坏 吸入管堵塞	稀释矿浆 堵塞漏气部分 检查转向,更换新叶轮 排除堵塞
轴功率过大	填料压盖太紧,填料发热 泵内产生摩擦 轴承损坏 驱动装置皮带过紧 泵流量偏大 转速偏高,比重大 电机轴与泵轴不对中或不平行	松填料压盖螺栓 消除摩擦 更换轴承 调整皮带 调节泵的运行工况 调节转速 调整电机轴和泵轴
轴承过热	轴承润滑脂过多或过少 润滑脂中有杂物 轴承损坏	加润滑脂要适当 换新润滑脂 换新轴承
轴承寿命短	电机轴和泵轴不对中或不平行 轴弯曲 泵内有摩擦或叶轮失去平衡 轴承内进入异物或润滑脂量不当 轴承装配不合理	调整电机轴和泵轴 换轴 消除摩擦,换新叶轮 清洗轴承 换轴承或重新装配轴承
填料处泄露严重	填料磨损严重 轴套磨损严重 密封水不清洁	换新填料 换轴套 换清洁密封水
泵振动,噪声大	泵发生汽蚀 轴承损坏 泵轴和电机轴不同心 叶轮不平衡 吸入管进气,堵塞 流量不均匀泵抽空 紧固件或地基松动	找出并排除汽蚀原因 换新轴承 调节两轴同心度 换新叶轮 消除进气,清理堵塞处 改善泵进料情况 拧紧螺栓,加固地基

Possible problems and solutions

Problem	Reason	Solution
No water is sucked up.	Air leak at the suction pipe or stuffing. The direction of revolution is not correct or impeller is damaged. Clogged suction pipe.	Stop the leak. Check the direction of revolution, replace the impeller. Remove debris from suction line.
The power of the shaft is too high	The gland assembly is too tight. the stuffing is overheated. Friction inside the pump. Bearing is damaged. The belt at the motor is too tight. The flow rate of the pump is too high. The rate of revolution of the pump is too high. The motor shaft and pump shaft is not co-centric or not parallel.	Loose the bolt of the gland assembly. Eliminate friction. Replace the bearing. Adjust the belt. Adjust the work condition of the pump. Adjust the rate of revolution. Adjust the motor shaft and pump shaft.
Overheating of bearing	Excessive or deficient lubricant at bearing. Impurity in the lubricant. Damage of the bearing.	Adjust the lubricant to an appropriate amount. Replace the lubricant. Replace the bearing.
Short service life of bearing.	The motor shaft and pump shaft is not co-centric or not parallel. The shaft is bent. Friction inside the pump or imbalance of impeller. Debris inside the bearing or incorrect amount of lubricants. Wrong way of assembling the bearing.	Adjust the motor shaft and pump shaft. Replace the shaft. Eliminate friction, replace impeller Clean bearing Replace the bearing
Severe leak at gland seal	Severe wear and tear of the stuffing Severe wear and tear of shaft sleeve Impure sealing water	Replace stuffing Replace shaft sleeve Change to clean sealing water
Vibration of the pump and excessive noise	Damage of the bearing Imbalance of impeller Gas leak or jam at inlet pipe Uneven flow rate	Replace the bearing Replace the impeller Eliminate the leak and clean the jammed area

质量保证体系 QAS(quality assurance system)

具有可靠完备的质量保证体系，确保了过硬的产品质量。产品通过“采用国际标准”认证，按国标、部标和行业标准制造，生产的全过程推行全面的质量管理，严格按照工艺文件加工，各种检测手段齐全。

本公司有达到 GB3216-89 要求的国家 B 级精度《离心泵、混流泵和旋涡泵试验方法》清水试泵站应用计算机进行试验数据监控。厂内设有物理化学实验室、金相分析室，可对材质性能进行多方面的检测。

本公司对出厂的产品进行全检测，确保所有产品受控。

本公司通过了 ISO9001 质量保证体系认证。

1. 质量方针

崇尚质量是企业的生命力,孜孜以求,追求卓越

2. 质量目标

产品合格率 98%，出厂合格率 100%

3. 质量承诺

1)我们将不断地提高全员的质量意识,严格执行 GB/T19001-2000 质量保证模式标准,满足合同规定的各项技术要求,不仅对供货主机负责,同时对配套件、外协件、外购件的质量负责。

2)保证及时交货严格履行合同,按合同规定的期限交货。

Reliable and comprehensive quality assurance system ensures the excellent quality of our products. We have got the “International Standard” certification, manufactured according to GB, Department of superscript, and industry standards, we implement a comprehensive quality management during the entire process of production, accordance with the process file processing strictly, and a variety of detection methods etc.

We have meet the requirements of GB3216-89 national Class B accuracy, <<Centrifugal pump, mixed flow pump and vortex pumps test method >>, computer test data monitoring of water test pumping station application. There are physical chemistry laboratory, metallographic analysis room in our factory, for testing material properties in different respects.

Shijiazhuang An Pump Machinery Co., Ltd has got the ISO 9001 quality assurance system certification.

1. Quality Policy

Advocates quality is the life of enterprise, assiduous, the pursuit of excellence

2. Quality objectives

qualified products rate 98%, factory qualified pass rate: 100%

3. Quality Commitment

1) We will continue to improve the awareness of quality, implementing as GB/T19001-2000 quality assurance model standard, meeting technical requirements stipulated in the contract. We are not only discharge for the supplier host, but also for the quality of spare parts, external assistance products etc.

2) We promise the delivery time stipulated in the contract.