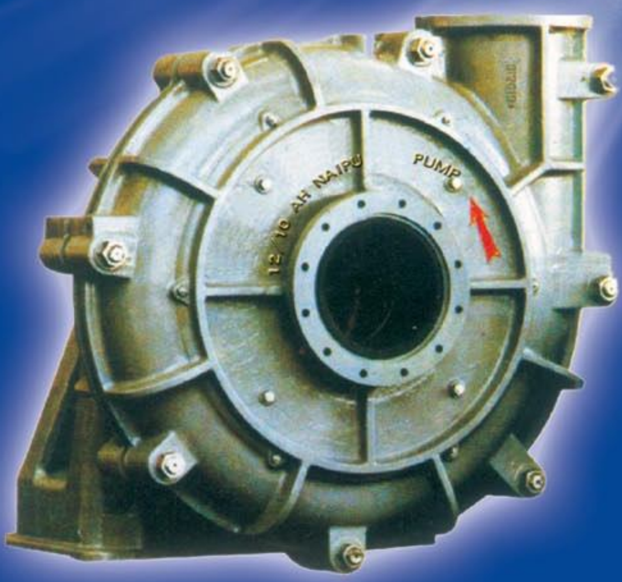
SHIJIAZHUANG
NAIPU PUMP
CO.,LTD

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AH（R）、M、HH、SP（R）、G系列渣浆泵、，ZGB、ZJ系列渣浆泵，WN挖泥泵，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，俄联邦等国际市场。

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 AH(R).M.HH.SP(R).G series slurry pump, ZGB.ZJ series slurry pump, WN series dredging pump and PNJ series slurry pump. The products are widely used in mining, power, metallurgy, coal, dreading, 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, Noth 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.

AH(R)、M、HH型渣浆泵
AH(R)、M、HH SLURRY PUMPS

特点和用途:

AH(R)、M、HH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。

AH(R)、M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。

AH(R)、M、HH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。

Type AH(R),M,and HH 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 AH(R),M 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.

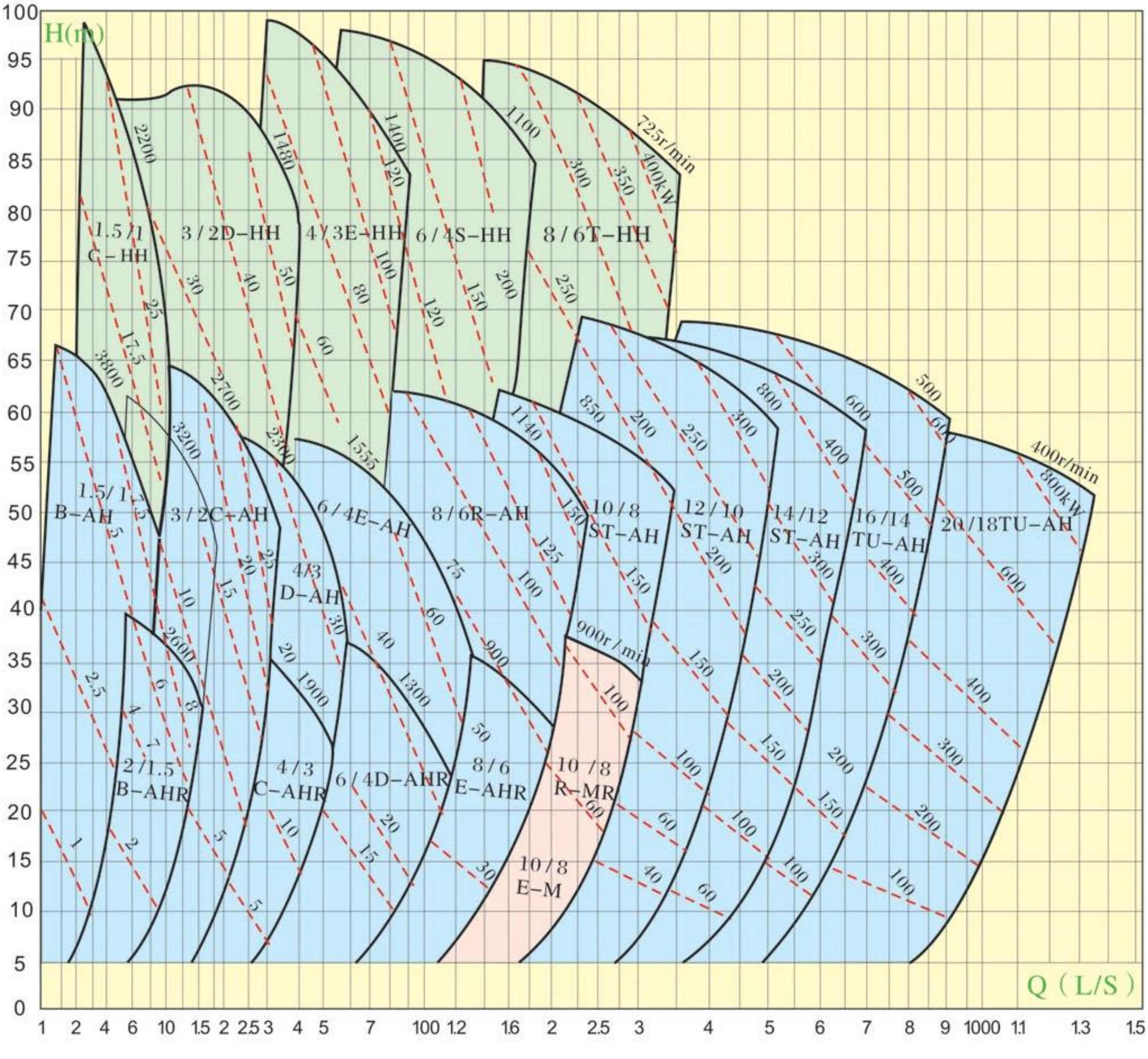
The shaft seals for type AH(R),M,and HH pumps may be adoptable of gland seal or expeller seal.The discharge branch can be positioned at intervals of 45 degrees by request and oriented to any eight positions to suit installations and applications.

型号意义:

8/6E-AH(或M,HH)
8 ——— 泵吸入口直径 (吋)
6 ——— 泵吐出口直径 (吋)
HH ——— 高扬程渣浆泵
AH、M ——— 渣浆泵
E ——— 托架型式

8/6E-AH(or M,HH)
8 ——— Suction diameter(inch)
6 ——— Discharge diameter(inch)
HH ——— High head slurry pump
AH、M ——— Slurry pump
E ——— Frame type

AH(R)、M、HH型渣浆泵型谱



注： 此图为清水性能，仅供初步选型使用。

AH(R)、M、HH系列渣浆泵性能表

型号 TYPE	允许配带最大功率 ALLOWABLE MATING MAX. POWER (KW)	材质 MATERIAL 护套 LINER	材质 MATERIAL 叶轮 IMPEL	清水性能 CLEAR WATER PERFORMANCE 流量 Q (m³/h)	CAPACITY (l/S)	扬程 HEAD H (m)	转速 SPEED n (r/min)	最高效率 MAX. EFF (%)	汽蚀余量 NPSH (m)	叶轮 IMPELLER 叶片数 NO. OF VANES	叶轮直径 IMPEL. DIA. (mm)	曲线号 CURVES NO.
1.5/1B–AH	15	M	M	12.6–28.8	3.5–8	6–68	1200–3800	40	2–4	5	152	WPA151B01
		RU	RU	10.8–25.2	3–7	7–52	1400–3400	35		3		WPA151B02A
1.5/1C–HH	30	M	M	16.2–34.2	4.5–9.5	25–92	1400–2200	20	2–5.5	5	330	WPA151E01
2/1.5B–AH	15	M	M	32.4–72	9–20	6–58	1200–3200	45	3.5–8	5	184	WPA215B01
		RU	RU	25.2–54	7–15	5.5–41	1000–2600	50	2.5–5		178	WPA215B02
3/2C–AH	30	M	M	39.6–86.4	11–24	12–64	1300–2700	55	4–6	5	214	WPA32A01
		RU	RU	36–75.6	10–21	13–39	1300–2100	55	2–4		213	WPA32A01A
3/2D–HH	60	M	M	68.4–136.8	19–38	25–87	850–1400	47	3–7.5	5	457	WPA32E01
4/3C–AH	30	M	M	86.4–198	24–55	9–52	1000–2200	71	4–6	5	245	WPA43A01
		RU	RU	79.2–180	22–50	5–34.5	800–1800	59	3–5			WPA43A01A
4/3E–HH	120	M	M	126–252	35–70	12–97	600–1400	50	2–5	5	508	WPA43E01
6/4D–AH	60	M	M	162–360	45–100	12–56	800–1550	65	5–8	5	365	WPA64A01
		RU	RU	144–324	40–90	12–45	800–1350	65	3–5			WPA64A03A
6/4F–HH	560	M	M	324–720	90–200	30–118	600–1000	64	3–8	5	711	WPA64E01
6S–H	560	M	M	468–1008	130–280	20–94	500–1000	65	4–12	5	711	WPA66A91
8/6R–AH	300	M	M	360–828	100–230	10–61	500–1140	72	2–9	5	510	WPA86A01
		RU	RU	324–720	90–200	7–49	400–1000	65	5–10			WPA86A01B
10/8E–M	120	M	M	666–1440	185–400	14–60	600–1100	73	4–10	5	549	WPA108B03
10/8ST–AH	560	M	M	612–1368	170–380	11–61	400–850	71	4–10	5	686	WPA108A01A
		RU	RU	540–1188	150–330	12–50	400–750	75	4–12			WPA108A02
12/10ST–AH	560	M	M	936–1980	260–550	7–68	300–800	82	6	5	762	WPA1210A01
		RU	RU	720–1620	200–450	7–45	300–650	80	2.5–7.5			WPA1210A03A
14/12ST–AH	560	M	M	1260–2772	350–770	13–63	300–600	77	3–10	5	965	WPA1412A01
		RU	RU	1152–2520	320–700	13–44	300–500	79	3–8			WPA1412A01A
16/14TU–AH	1200	M	M	1368–3060	380–850	11–63	250–550	79	4–10	5	1067	WPA1614A01
20/18TU–AH	1200	M	M	2520–5400	700–1500	13–57	200–400	85	5–10	5	1370	WPA2018A01

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'≤Q≤110%Q' (Q'≈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。

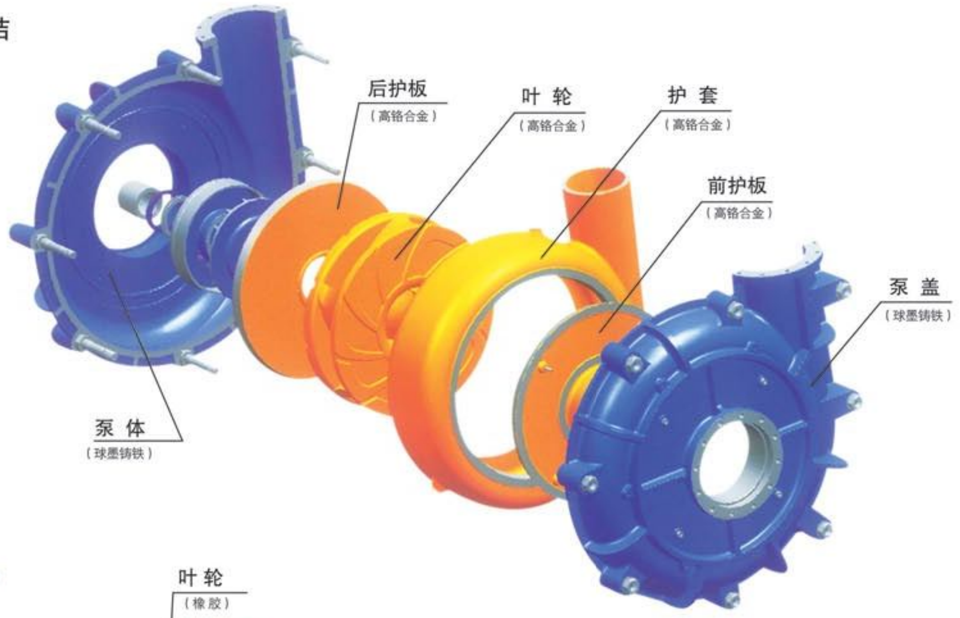
NOTE：1. "RU" :rubber, "M" :alloy wear–resistant material,
2.Capacity range recommened:50%Q'≤Q≤110%Q'
(Q'≈Appropriate to capacity at highest officiency point)
3.NPSH:Appropriate to point Q recommended at highest speed.

结构设计 Construction Desing

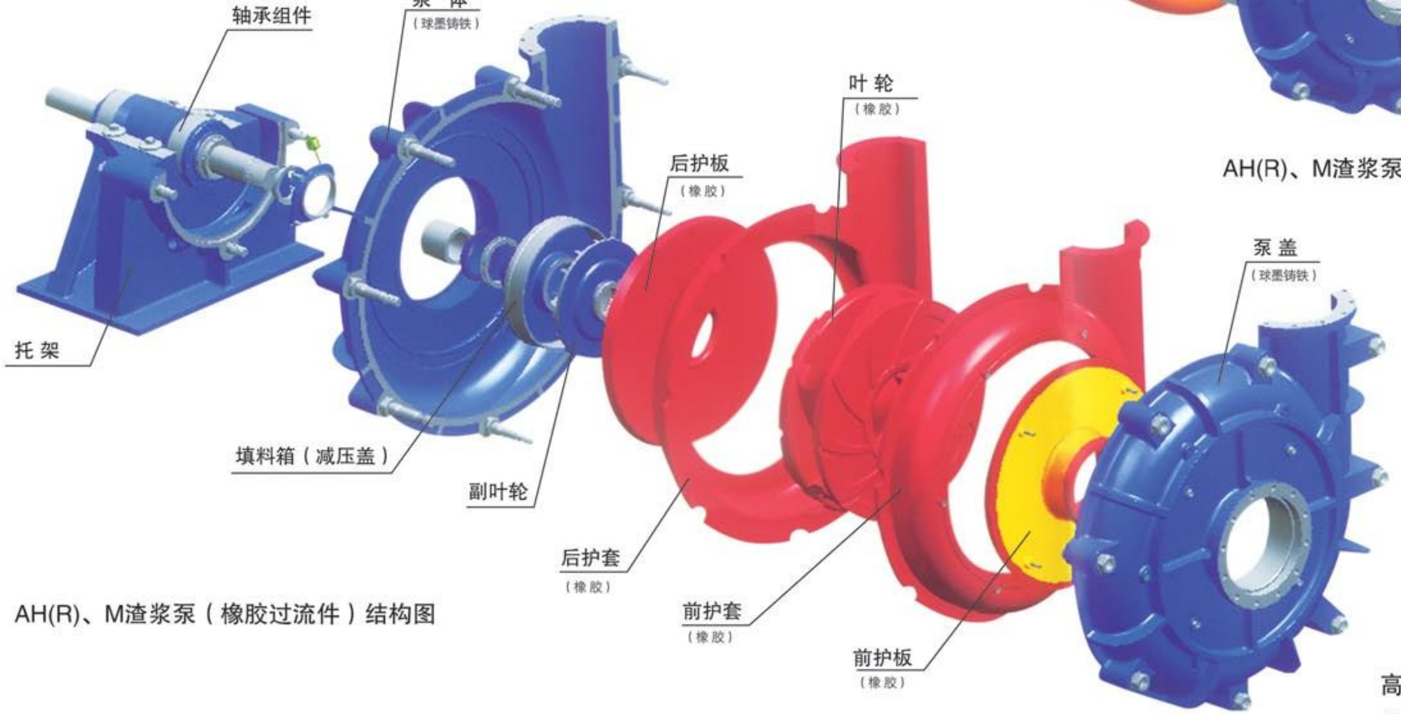
AH(R)、M渣浆泵有高铬合金和耐磨橡胶件两种结构形式，合金与橡胶过流件可以混合交叉使用。

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



AH(R)、M渣浆泵（高铬合金过流件）结构图



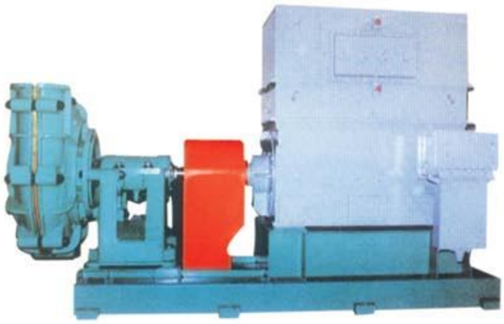
AH(R)、M渣浆泵（橡胶过流件）结构图

高铬合金件与耐磨橡胶件可互换的AH(R)、M渣浆泵结构图

传动形式

CV

DC



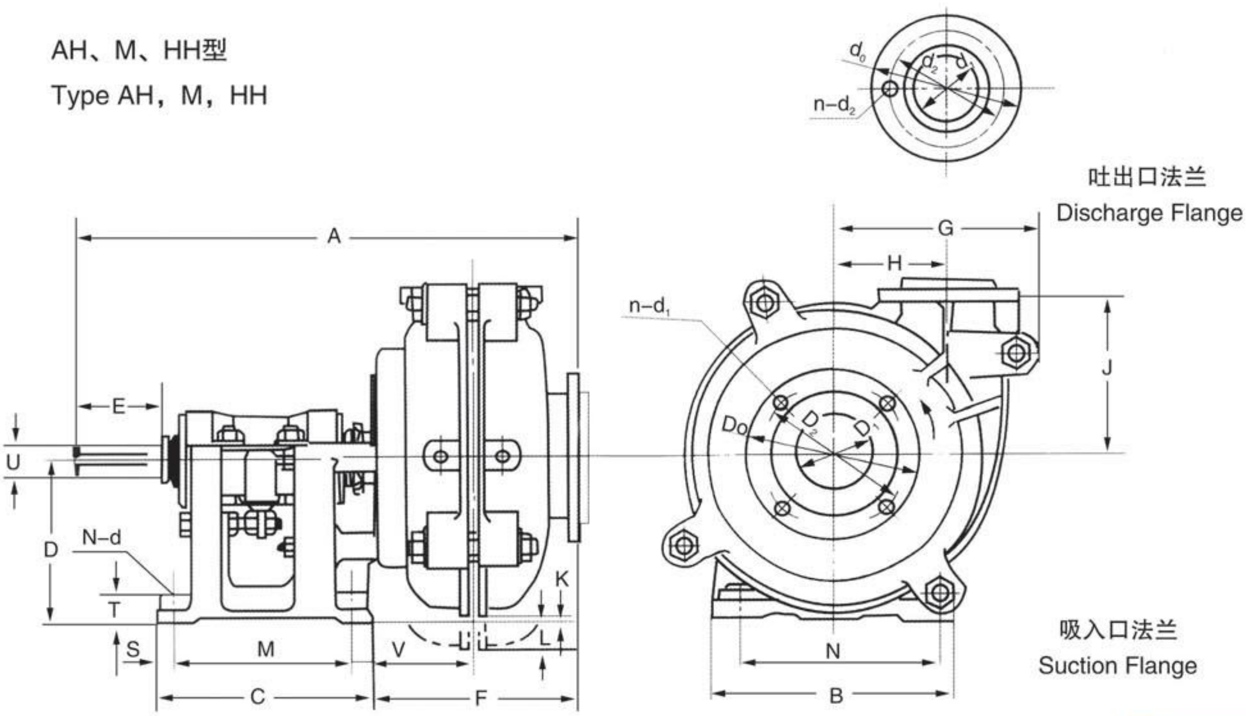
ZV

CR

外形安装尺寸图

AH、M、HH型

Type AH，M，HH



AH(R)、M、HH型渣浆泵外型尺寸表
Type AH(R)、M、HH 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
1½/1B-AH	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
1½/1C-HH	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	–
2/1½B-AH	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
3/2C-AH	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
3/2D-HH	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	–
4/3C-AH	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
4/3D-AH	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-HH	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-AH	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-AH	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
6/4S-HH	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	–
8/6E-AH	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
8/6R-AH	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	–
8/6T-HH	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	–
10/8E-M	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
10/8R-M	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	–
10/8ST-AH	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
12/10ST-AH	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
14/12ST-AH	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
16/14TU-AH	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	–
20/18TU-AH	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
6S-H	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	–	–

特点和用途:

SP和SPR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。

SP型泵过流部件由耐磨金属制成。适用于输送磨蚀性渣浆。

SPR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。

Type SP and SPR 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 SP pump are made of abrasion-resistant metal.

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

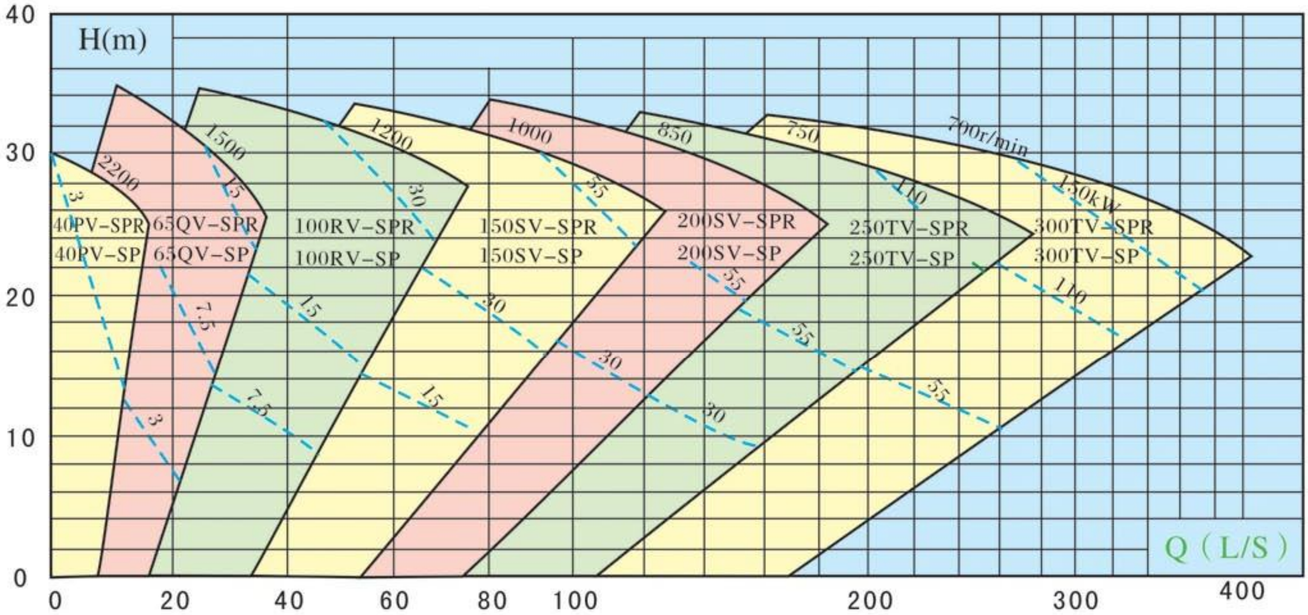
型号意义：

例如：40PV-SP(R)
40—泵吐出口直径（mm）
PV—托架型式
SP—液下渣浆泵
SPR —衬胶液下渣浆泵

SUCH AS：40PV-SP(R)
40 — Outlet diameter（mm）
PV — Frame type
SP — Slurry pump submerged in sump
SPR — Slurry pump submerged in sump, rubber lined

SP、SPR型液下泵型谱

Type SP、SPR Sump Pumps Selection Chart



注：此图为清水性能，仅供初步选型使用。

SP、SPR型液下泵性能表

Clear Water Performance for SP and SPR Sump Pumps

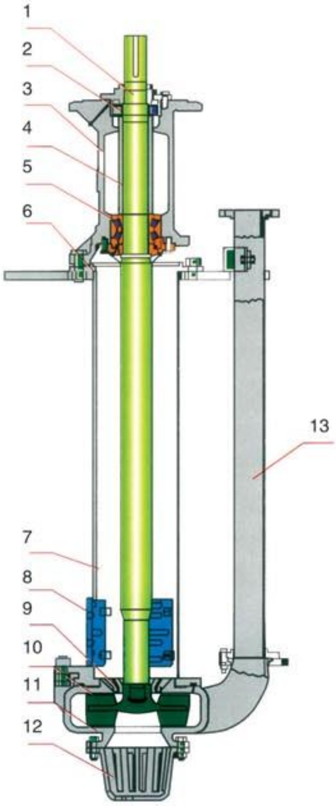
型号 TYPE	允许配代最大功率（Kw） Allowable Mating Max. Power	材质 MATERIAL 护套 LINER	材质 MATERIAL 叶轮 IMPEL	性能范围 Range of Performance 流量Q (m³/h)	CAPACITY (l/S)	扬程H (m) Head H	转速n SPEED n	最高效率 Max. Eff (%)	叶轮 IMPELLER 叶片数 No. of Vanes	叶轮外径 Impeller Diameter (mm)	曲线编号 Curves number
40PV-SP	15	M	M	19.44-43.2	5.4-12	4.5-28.5	1000-2200	40	5	188	WPA40E41
40PV-SPR		RU	RU	17.28-39.6	4.8-11	4-26	1000-2200	40	5	188	WPA40E42
65QV-SP	30	M	M	23.4-111	6.5-30.8	5-29.5	700-1500	50	5	280	WPA65E41
65QV-SPR		RU	RU	22.5-105	6.25-29.15	5.5-30.5	700-1500	51	5	280	WPA65E43
100RV-SP	75	M	M	54-289	15-80.3	5-35	500-1200	56	5	370	WPA100E43
100RV-SPR		RU	RU	64.8-285	18-79.2	7.5-36	600-1200	62	5	370	WPA100E42
150SV-SP	110	M	M	108-479.16	30-133.1	8.5-40	500-1000	52	5	450	WPA150E42
200SV-SP	110	M	M	189-891	152.5-247.5	6.5-37	400-850	64	5	520	WPA200E41
250TV-SP	200	M	M	261-1089	72.5-302.5	7.5-33.5	400-750	60	5	575	WPA250E41
300TV-SP	200	M	M	288-1267	80-352	6.5-33	350-700	50	5	610	ESY7951

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.

SP、SPR型液下泵结构图

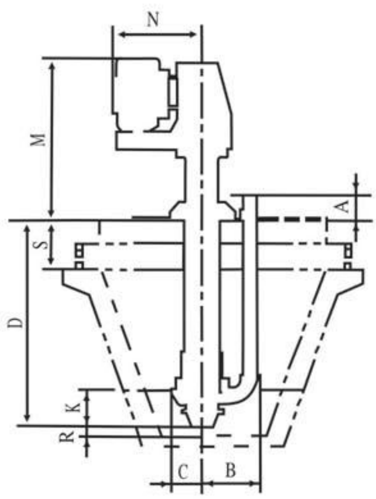
Constructional Drawing for SP and SPR Sump Pumps



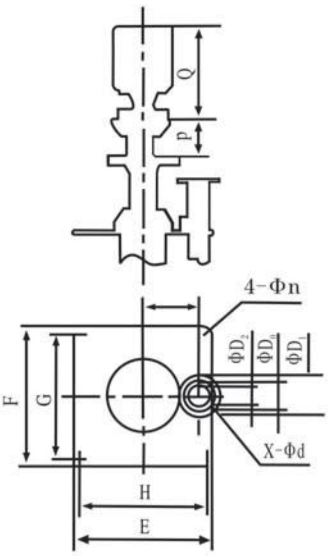
1、	轴	SHAFT
2、	轴承	BEARING
3、	轴承体	BEARING HOUSING
4、	轴承挡套	BEARING SPACER
5、	轴承	BEARING
6、	调整垫	SHIM
7、	支架	COLUMN
8、	滤网	STRAINER
9、	后护板	BACK LINER
10	叶轮	IMPELLER
11、	泵体	PUMP CASING
12、	下滤网	LOWER STRAINER
13、	吐出管	DISCHARGE PIPE

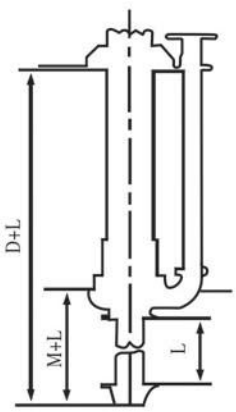
外形安装尺寸图

Outline Installation Drawing



皮带传动 Belt Drive





直接传动 Direct Coupled Drive

SP&SPR型液下泵外型尺寸表

Outline Dimensions for SP and SPR Sump Pumps

吐出口直径 (mm) SIZE (mm)	托架 FRAME	型号 TYPE	A	B	C	D	E	F	G	H	J	φn	K	M	N	P	Q	泵重 (kg) PUMP WEIGHT (kg)	S	φD1	φD2	φD0	X-φd
泵 PUMP														注：随电机尺寸改变，表中所示尺寸为最大尺寸 NOTE: Change with motor size the dimension whichshow in list are MAX.dimension.						出口法兰尺寸 DISCHARGE FLANGE SIZE			
40	PV	SP	137	285	153	900*	500	500	450	450	205	18	174	1113	675	248	629	285	280	127	40	98	4-φ16
		SPR	140	265	175	1200								1113									
65	QV	SP	227	399	231	900 1200* 1500	680	680	620	620	285	18	265	1390	794	290	681	432	350	178	65	140	4-φ19
		SPR	230	380	260									1396									
100	RV	SP	265	538	317	1200 1500* 1800 2000 2400	1000	870	800	930	400	22	393	1803	1020	416	960	867	350	229	100	191	8-φ19
		SPR	266	535	332	1200 1500* 1800								1809									
150	SV	SP	390	670	365	1500 1800* 2100	1100	1100	1030	1030	500	28	475	2186	1200	476	1011	1737	350	280	150	241	8-φ22
		SPR	395	670	400									2194									
200	SV	SP	450	805	440	1500 1800* 2100	1300	1200	1100	1200	600	28	550	2191	1300	476	1011	2800	350	343	200	298	8-φ22
		SPR												2191									
250	TV	SP	500	930	470	1800 2100* 2400	1750	1450	1350	1650	700	48	685	2572	1750	561	1246	3700	400	406	250	362	12-φ25
		SPR												2572									
300	TV	SP	500	1170	559	1800 2100* 2400	1750	1450	1350	1650	700	48	700	2476	1750	561	1246		400	483	300	432	12-φ25
		SPR	400	1090	630									2832									

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.

G（GH）型砂砾泵

G(GH) GRAVEL PUMPS

概　述

G(或GH)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的连续输送。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GH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。

Type G(or GH) gravel pumps are designed for continously handling the most difficult higher abrasive slurries which contain too big soids 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 GH 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 (m3/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)
6/4D–G	187–36	7–51	1400–600	30–58	52–3	CV.CR.DC	1011×705×677	460
8/6E–G	576–133	10–48	1400–800	60–54	88–11	CV.CR.DC	1299×896×873	1120
10/8F–G	930–216	11–44	940–500	65–34	147–22	CR.DC	1597×1121×1089	2285
12/10G–G	1512–360	11–58	850–400	70–50	305–24	CR.DC	2010×1330×1516	4450
14/12G–G	3168–522	9.5–66	700–300	68–60	643–29	CR.DC	2102×1645×1648	5400
16/14G–G	3024–900	14–45	500–300	70–50	459–78	CR.DC	2196×1880×1765	8800
8/6F–GH	648–126	15–77	1050–500	71–50	177–12	CR.DC	1500×1100×1120	1900
10/8S–GH	1091–324	19.2–56.5	800–500	72–60	205–32.4	CR.DC	1774×1212×1282	3188
12/10G–GH	2232–612	28–77	700–450	73–60	558–89	CR.DC	2211×1734×1500	4638
16/14TU–GH	3420–1008	26–65	450–300	78–65	665–110	CR.DC	2670×1700×2200	12247

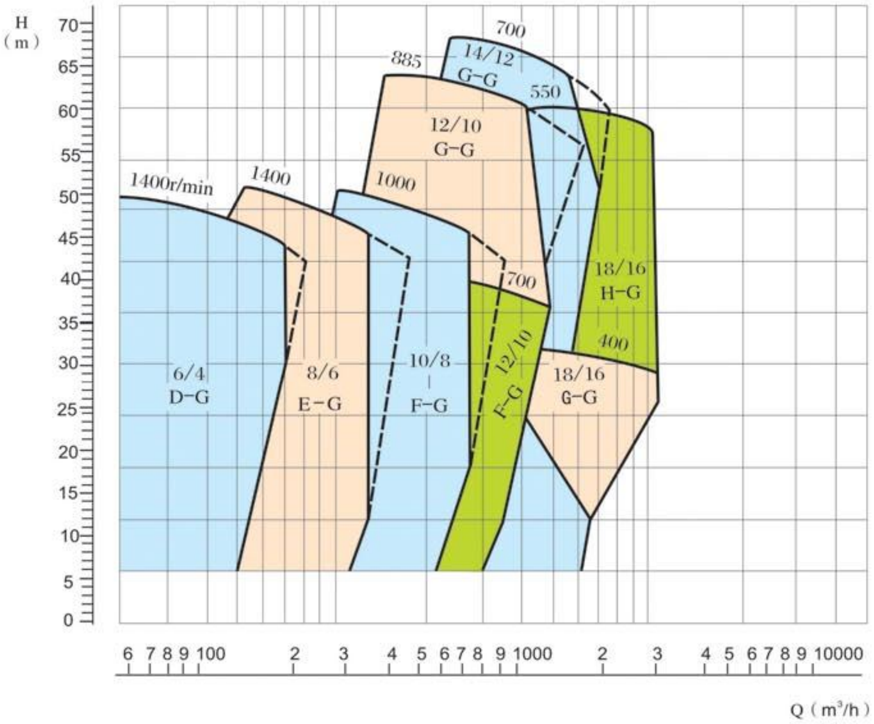
型号意义：

例如：6／4D–G(或GH)
6一泵吸入口直径(英寸)
4一泵吐出口直径(英寸)
D一托架型式
G一砂砾泵
GH一高扬程砂砾泵

For example：6 /4D—G(or GH)
6—suction diameter (inch)
4—discharge diameter (inch)
D—framce form
G—gravel pump
GH—high–head of gravel pump

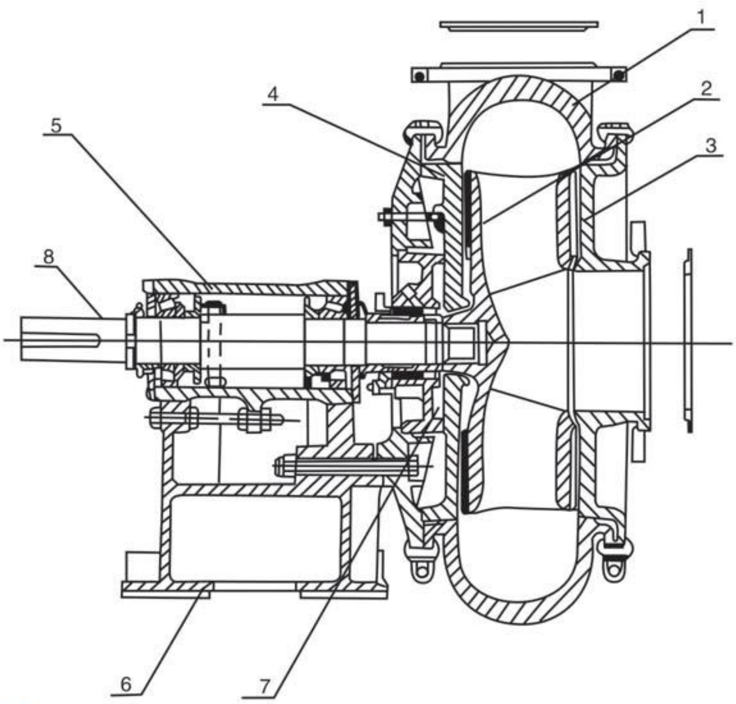
砂砾泵型谱

GRAVEL PUMPS SELECTION CHART



G、GH型泵结构图

CONSTRUCTIONAL DRAWING FOR TYPE G & GH



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