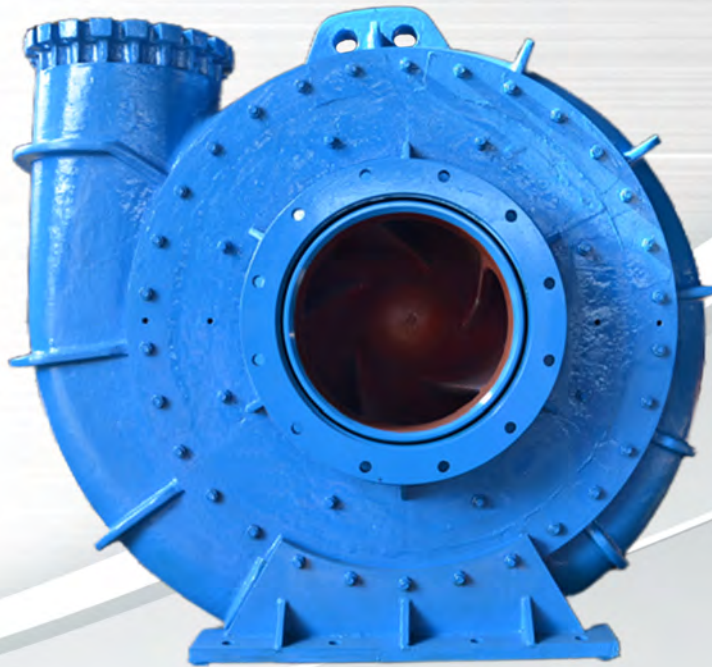




诚实 专业
进取 共赢

强 生 产 / 钻 研 发 / 重 品 质 / 讲 服 务



石家庄鸿石泵业科技有限公司

SHIJIAZHUANG HONGSTONE PUMP TECHNOLOGY CO., LTD.

WN (Q) Series mud pump

The WN (WNQ) series mud pump —our company uses the advanced computer-aided design, in view of dredging boat use to research and developed a new type pump.

1, Good performance for boat uses

WN model used in cabin, WNQ model used in submarine to satisfy the different hull structure to the mud pump request, the serviceability is broad.

The pump whole use the horizontal-type single stage single suction bracket structure, according to the gear box joint way it may provide two kinds of structure, namely the pump service department dispenses the gear box to gather a form or the pump bringing bracket and the gear box through the junction box connection.

300WN ~500WN uses the single shell structure, 600WN~1000WN uses the double pump housing structure.the Double pump housing design may guarantee the long-term security reliable movement.600WNQ~1000WNQ uses the single pump housing structure. It may use the grease lubrication or the oil lubrication with the base.

The WN (Q) pump uses opens the type structure in front,with detachable structure, disassembling is simple, easy for maintain and replacement part. The impeller uses the multi-heads the acme thread joint, the transmission torque is big, the assembly is convenient.It is equipped with the impeller collar release behaved the axle sleeve, convenient impeller disassembly.

2, Good dredging performance

Through the optimized design, the WN (Q) mud pump have the good performance, the mud pump attract ability, digs deeply, the density is high, concentration, the WN (Q) mud pump flow channel is worry-free,the overflow performance is good. The mud pump performance curve drops, has the very good compatibility to the row of distance change. WN (Q) may through changing the impeller the rotational speed or changes the impeller's the diameter to realize the pump current capacity, head adjustment.

3, Excellent wear-resistant, Long life wet parts.

WN (Q) wet-end part uses the high strength antifriction metal to cast iron (KmTBCr27), degree of hardness is smaller than 58HRC, has very strong bears the impact ability and good abrasion performance.

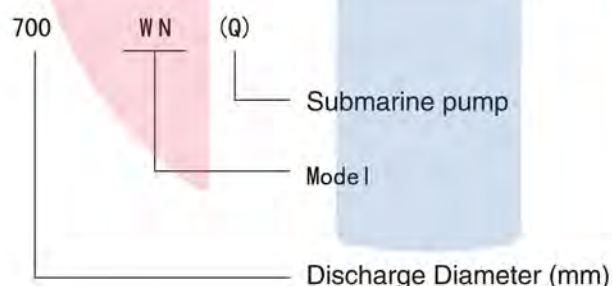
4, High efficiency , good benefit

WN (Q) mud pump water power design use CFD to carry on the flow field simulation, the mud pump efficiency is high, simultaneously avoids in the flow channel the excessively quick change to the overflow partial attrition, reduce the spare parts the consumption, guaranteed the pump the reliable movement, the economic efficiency is remarkable.

5, Shaft Seal Form

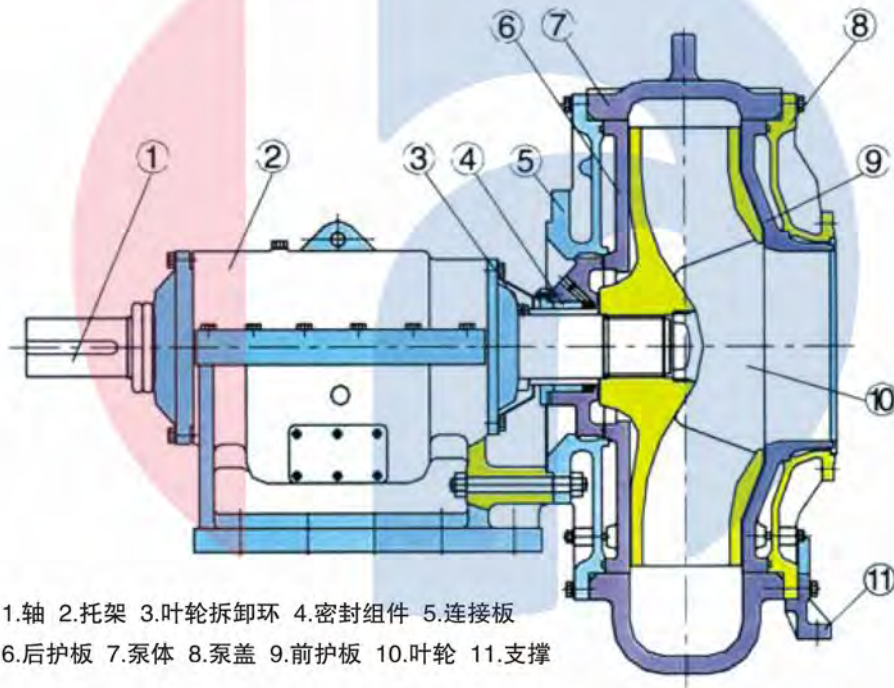
WN (Q) mud pump to be possible to use the packing seal, the mechanical seal, the skeleton seal (replenishment fat), the wing nut (add L rubber seal) and so on many kinds of seal form, satisfies the customer the demand.

Model meaning



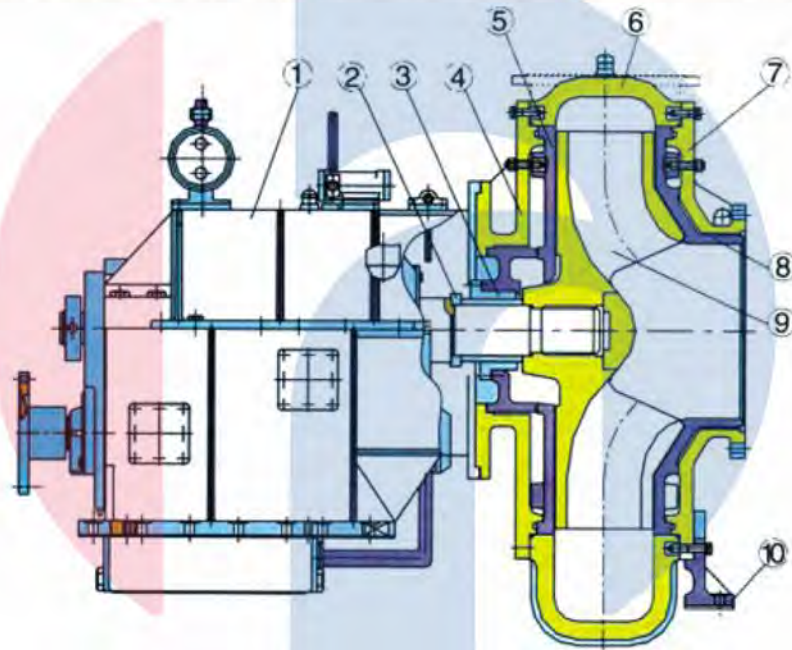
200-500WN型挖泥泵自带托架结构示意图

200-500WN Dredging pump attached bracket structure diagram



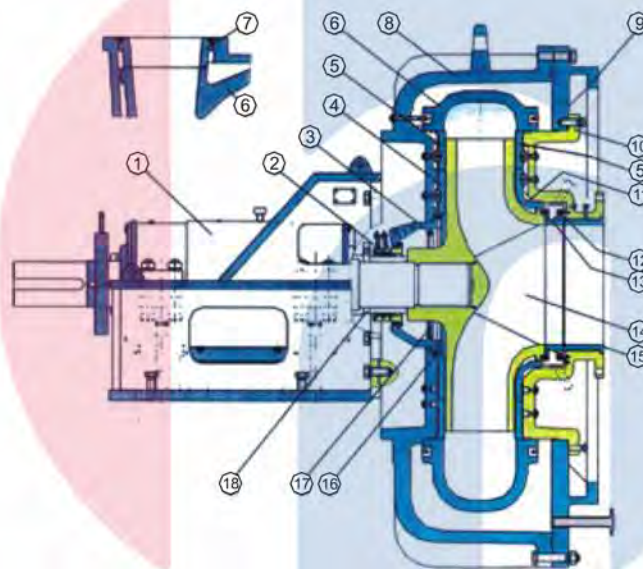
200-500WN型挖泥泵泵箱合一结构示意图

200-500WN Dredging pump pump box unity structure diagram



600-1000WN型挖泥泵结构示意图

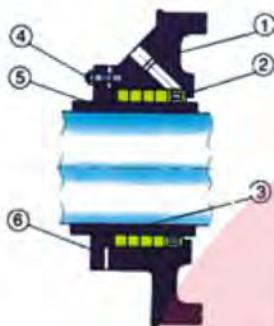
600-1000WN Dredging pump structure diagram



1. 托架
2. 密封组件
3. 密封箱
4. 后护板
5. 肩脾环
6. 护套
7. 出口衬管
8. 泵体
9. 大泵盖
10. 小泵盖
11. 前护板
12. 水套
13. 防腐环板
14. 叶轮
15. 进口衬管
16. 密封箱保护环
17. 防砂板
18. 叶轮拆卸环

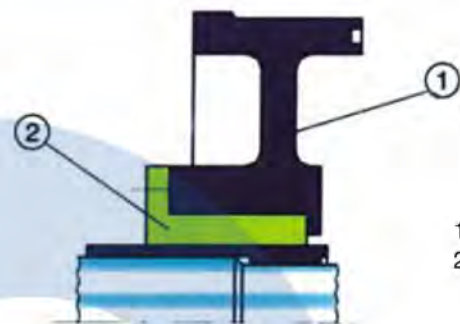
WN型挖泥泵轴封形式

WN model dredging pump shaft seal form



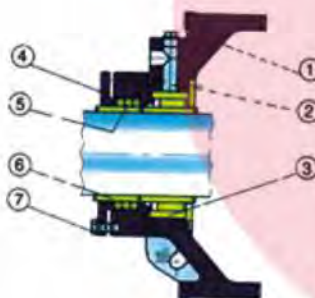
填料密封

1. 密封组件
2. 水封环
3. 填料
4. 填料压盖螺栓
5. 轴套
6. 填料压盖



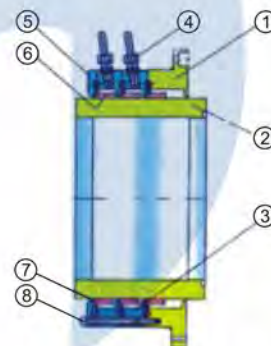
机械密封

1. 密封箱
2. 机械密封



填料加机械密封

1. 密封组件
2. 密封挡板
3. 机械密封
4. 填料压盖
5. 填料
6. 轴套
7. 填料压盖螺栓

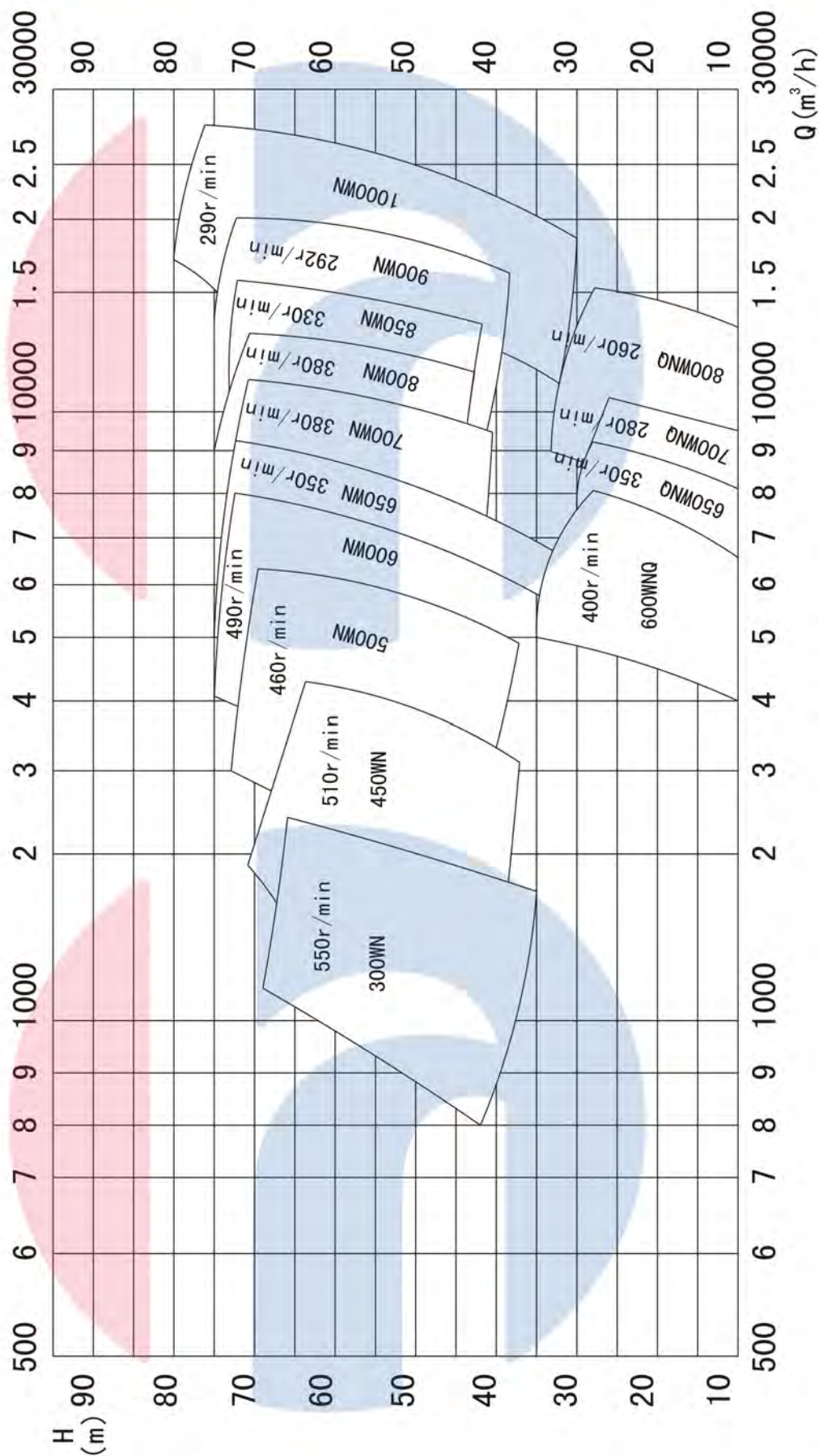


螺旋L型密封

1. 密封组件
2. 螺旋轴套
3. 密封圈座
4. 注水管
5. 密封压板
6. 弹簧
7. 密封圈
8. 螺钉

WN(Q) 型谱图 (仅供初步选型)

WN(Q) The spectrogram (only for preliminary selection)



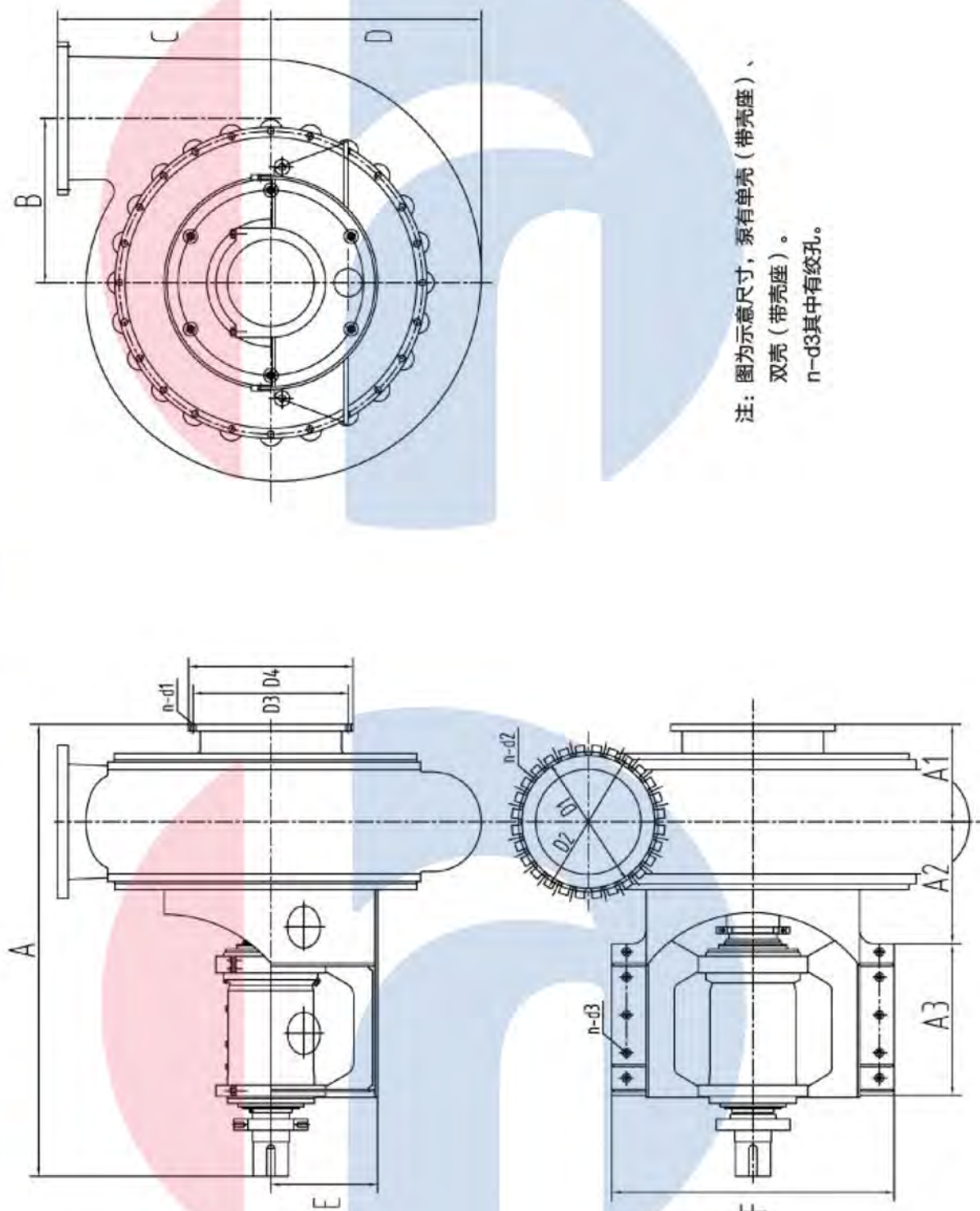
WN (Q) 系列性能参数表 (仅供初步选型)

WN (Q) The series performance parameter list (only for preliminary selection)

型号 Type	流量 Capacity (m ³ /h)	扬程 Head (m)	转速 Speed (rpm)	效率 Efficiency (%)	汽蚀余量 NPSHr (m)	进口直径 Inlet Diameter (mm)	出口直径 Outlet Diameter (mm)	最大过流粒径 Max. Diameter of Flowd Partice (mm)
300WN	1800~2200	40~65	400~550	74~78	<4	420	300	241
450WN	3200~4000	40~70	350~510	76~78	<4.5	600	450	240
500WN	4500~5500	40~75	350~460	78~80	<4.8	650	500	240
600WNQ	7000~8000	23~30	360~400	82~84	<4	700	600	250
600WN	7000~9000	52~68	450~490	82~84	<4	700	600	250
650WNQ	8000~9500	20~27	300~350	80~85	<4.5	700	650	260
650WN	8000~9500	55~65	300~350	76~78	<4.5	700	650	260
700WNQ	8000~10000	17~24	240~280	81~84	<3.5	766	700	280
700WN	8000~11000	46~70	320~380	80~85	<3.5	760	700	280
800WNQ	12500~14000	24~35	230~260	80~85	<4	800	750	300
800WN	12500~14000	56~70	330~380	80~85	<4	800	750	300
850WN	14000~18000	62~71	250~330	80~85	<4.5	900	850	330
900WN	15000~18000	30~72	226~292	75~80	<5	900	756	320
1000WN	20000~28000	21~80	181~290	76~88	<5	1200	1020	350

WN(Q) 系列挖泥泵外形图

WN(Q) Dredging pump outline drawing



WN(Q) 系列挖泥泵外形及安装尺寸

WN (Q) Dredging pump outline and installation sketch

型号	A	B	C	D	E	F	A1	A2	A3	D1	D2	D3	D4	n-d1	n-d2	n-d3
300WN	2278	640	787	860	500	865	410	550	901	φ 432	φ 485	φ 650	φ 720	20-φ 33	12-28	8-φ 40
450WN	2695	875	875	1060	615	1010	485	425	1300	φ 585	φ 640	φ 810	φ 880	12-φ 33	20-34	12-φ 32
500WN	2270	800	950	1080	700	1200	520	495	1196	φ 650	φ 715	φ 840	φ 920	2-φ 34	20-33	10-φ 52
600WNP	2923	775	1050	1088	530	1100	636	503	1235	φ 840	φ 910	φ 950	φ 1025	24-φ 40	24-36	12-φ 32
600WN	3121	980	1230	1376	600	1140	580	546	1440	φ 1000	φ 1075	φ 1000	φ 1075	20-φ 33	24-φ 36	12-φ 40
650WNP	2846	991	1200	1255	540	1280	432	530	1380	φ 950	φ 1065	φ 910	φ 980	12-φ 26	12-30	12-φ 32
650WN	3370	1283	1500	1660	640	1482	582	532	1700	φ 950	φ 1065	φ 910	φ 980	12-φ 36	20-34	12-φ 38
700WNP	2985	1011	1200	1325	530	1100	660	532	1235	φ 950	φ 1025	φ 1050	φ 1175	28-φ 33	24-39	12-φ 32
700WN	3788	1250	1483	1781	735	2010	785	642	1727	φ 1090	—	φ 1050	φ 1125	28-φ 40	28-M42	14-φ 52
800WNP	3164	1172	1518	1497	550	2010	695	931	1080	φ 997	φ 1092	φ 1105	φ 1170	28-φ 33	28-54	10-φ 33
800WN	3164	1172	1709	1815	550	2010	695	931	1080	φ 1370	φ 1482	φ 1105	φ 1170	28-φ 33	30-M30	10-φ 33
850WN	4146	1450	1700	2167	935	2010	797	680	1877	φ 1320	—	φ 1210	φ 1320	28-φ 48	28-M42	12-φ 52
900WN	4054	1232	1970	1950	793	1910	776	710	1856	φ 1510	φ 1600	φ 1180	φ 1260	30-φ 40	28-M42	16-φ 52
1000WN	4734	1745	1865	2435	935	2050	1187	868	2050	φ 1440	—	φ 1485	φ 1565	32-φ 39	28-M42	16-φ 50

G (H) 系列泥泵 G (H) series dredging pump

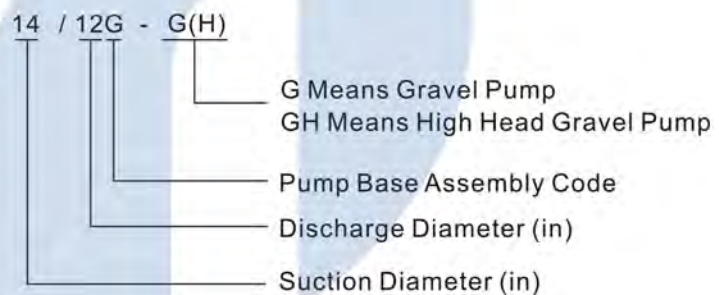
G (H) 系列泥泵为悬臂式单级离心泵，以卡带锁紧泵壳及连接板及泵盖，结构简单可靠，拆装方便快捷。具有重量轻，汽蚀性能好，抗磨蚀性强，流道宽过流性能好，安装方便。适用于大颗粒强磨蚀泥沙的连续输送，适用于挖泥、采砂、疏浚。

过流部件叶轮、泵体、前护板、后护板均采用抗磨合金铸铁，硬度高于58HRC，使用寿命长。

G (GH) series dredging pump are cantilevered and single-stage centrifugal pump, the cover plate and adaptor plate are connected by clamp bands, simple and reliable structure, Convenient and quick dismounting. Light weight, good cavitation performance, strong abrasion resistance, good overflow performance with wide flow channel, convenient installation. It is suitable to transfer big particle and abrasive slurry and in the dredge, sand excavation and scours.

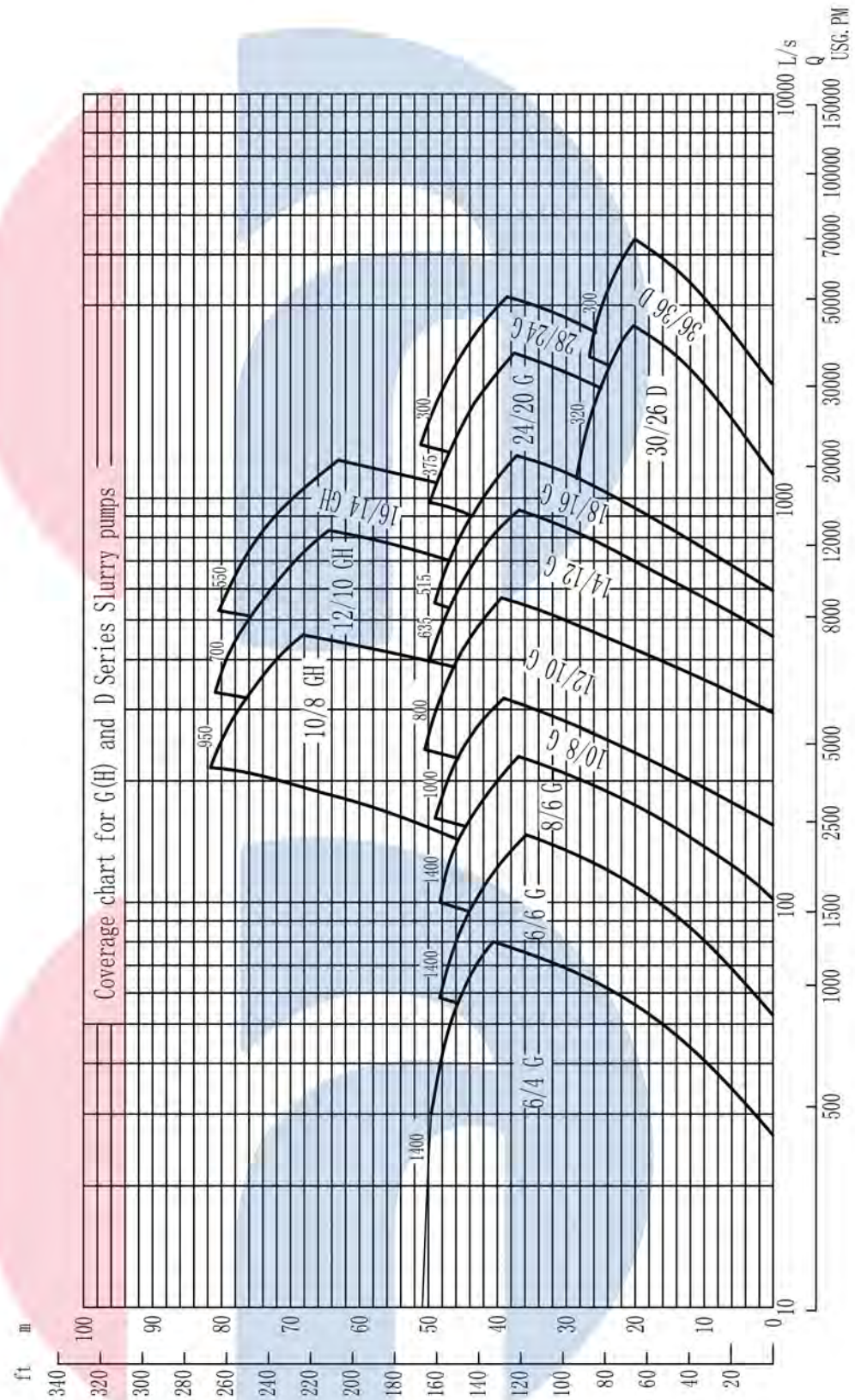
All of the wet parts such as the impeller, casing, cover plate and frame plate used the antiabrasive alloy cast iron, the hardness is higher than 58HRC, long service life.

型号的含义\Model meaning



G (H) 型谱图 (仅供初步选型)

G (H) The spectrogram (only for preliminary selection)



G (H) 性能参数 (仅供初步选型)

G (H) The performance parameter (only for preliminary selection)

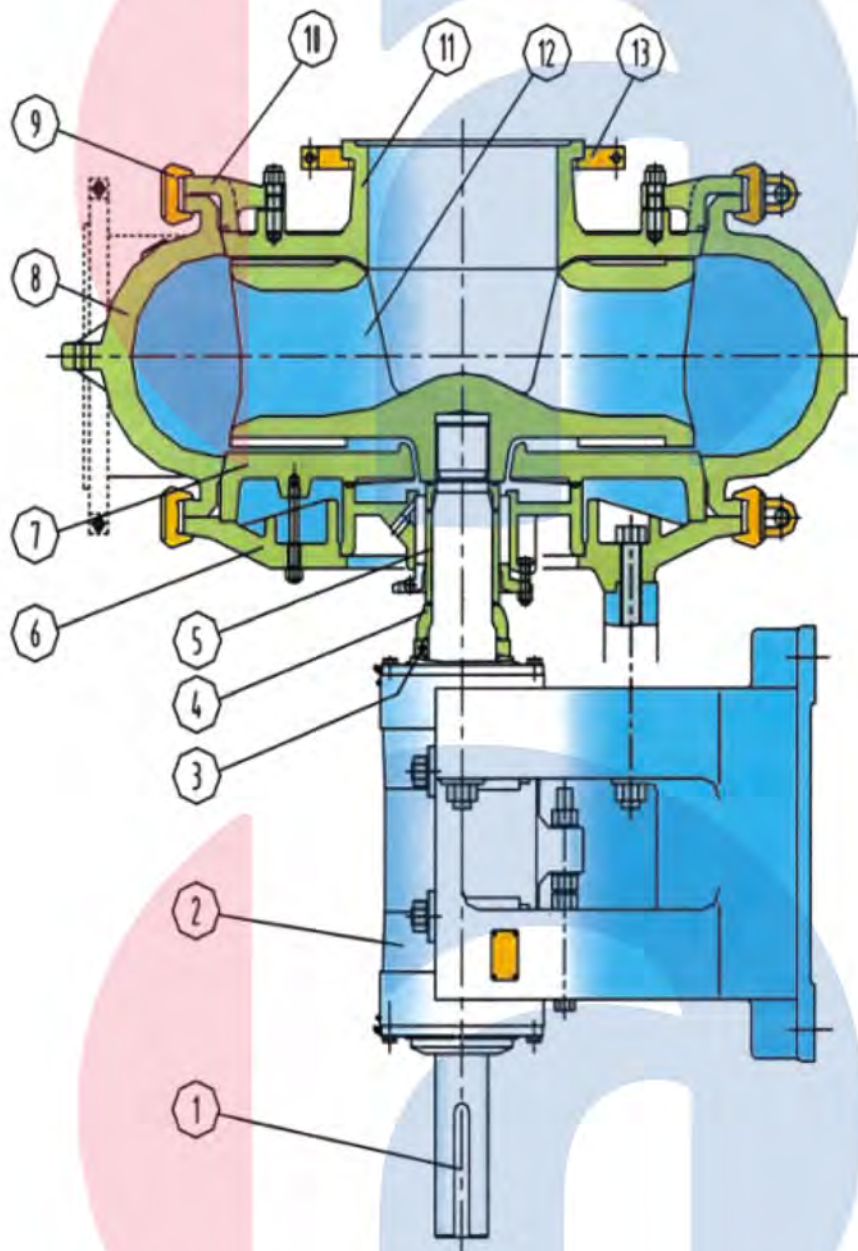
G (H) Clear Water Performance ZG(H)清水性能表							
型号 Type	最大电机功率 Max. Motor Power Kw	流量 Capacity Q(m ³ /h)	扬程 Head (m)	转速 Speed n(r/min)	效率 Efficiency (%)	汽蚀余量 NPSH (m)	过流断面最小尺寸 Min. passage size (mm)
6/4D-G	60	300	45	1400	58	4	82
8/6E-G	120	500	37	1400	60	3.5	127
10/8F-G	260	950	43	1000	65	8	178
10/8S-G	560	950	43	1000	65	8	178
12/10G-G	600	1530	52	850	65	9	220
14/12G-G	600	1700	65	700	73	5	241
18/16T-G	1200	3300	40	500	72	6.3	254
20/18H-G	1400	4300	39	400	66	8	330
24/20H-G	1400	5600	57	400	70	7	380
8/6S-GH	560	880	78	1100	71	4.8	140
10/8S-GH	560	1300	70	950	72	5	180
12/10G-GH	600	2220	67	700	73	8.2	210
16/14TU-GH	1200	3050	59	500	72	6.5	230

1. Capacity range recommended 50%Q'≤Q≤110%Q' (Q'≈Capacity at Max. eff. point) 2. M means alloy wear-resistant material, R means rubber

1. 推荐流量范围为50%Q'≤Q≤110%Q' (Q'≈相应于最高效率点流量)。2. "M" 代表合金耐磨材料, "RU" 代表橡胶材料

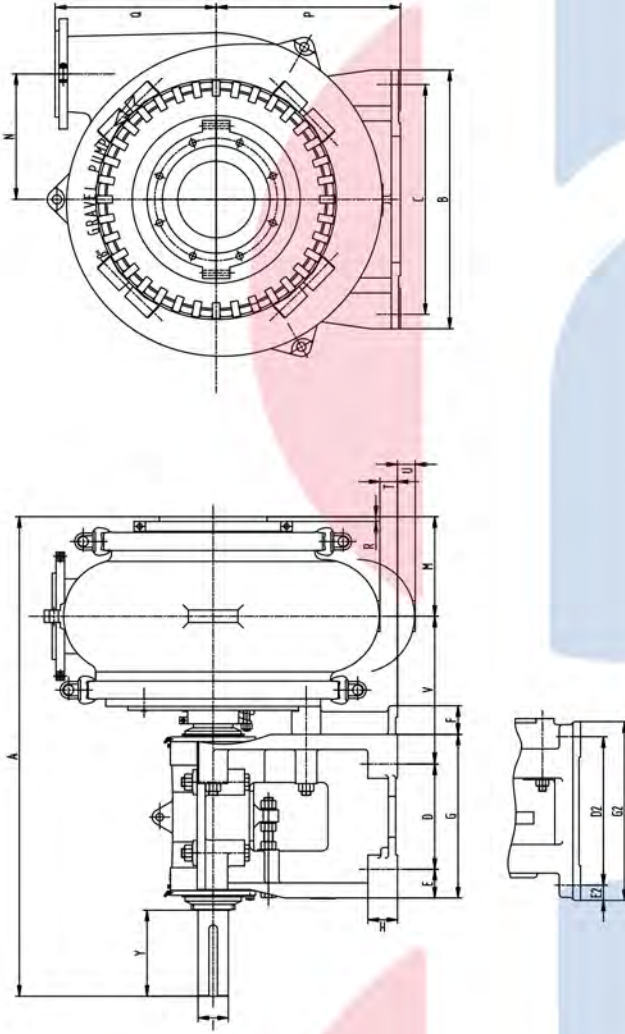
G (H) 结构图

The G(H) structure drawing



- 1、轴 2、托架 3、叶轮拆卸环 4、定位素 5、密封组件 6、接合板
 7、后护板 8、泵体 9、卡带 10、泵盖 11、前护板 12、叶轮 13、对开法兰

外形尺寸 Outline Dimension



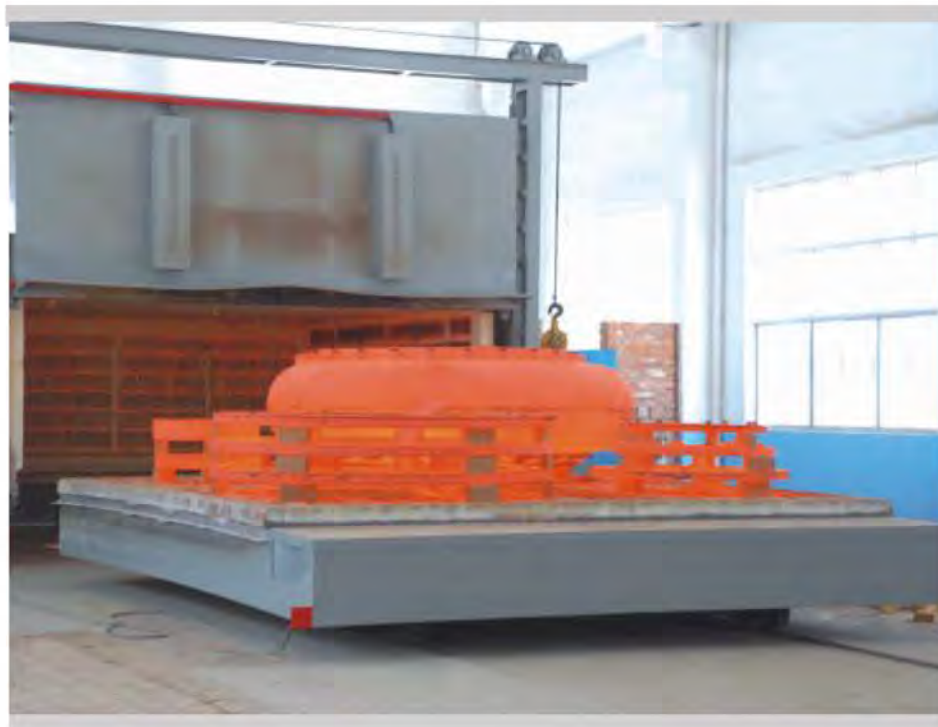
泵型号 Type	A	B	C	D	E	F	G	E2	D2	G2	H	V	Y	I	M	N	P	Q	R	T	U	吸入法兰 Suction flange				吐出法兰 Discharge flange				地脚孔 The anchor hole	重量 Weight (kg)	
																						O.D	I.D	HOLES	P.C.D	O.D	I.D	HOLES	P.C.D			
6/4D-G	1006	492	432	213	38	75	289	/	/	/	54	330	164	65	203	260	330	343	33	16	/		305	152	8-ø19	260	254	102	4-ø19	210	4-ø22	460
8/6E-G	1286	622	546	257	54	83	365	/	/	/	75	392	222	80	295	352	457	405	29	54	/		368	203	8-ø19	324	305	152	8-ø19	260	4-ø29	1120
10/8F-G	1591	857	762	349	45	45	540	/	/	/	98	487	281	100	330	416	610	533	48	60	/		457	254	8-ø22	406	368	203	8-ø19	324	4-ø35	2250
10/8S-G	1720	920	760	/	/	/	/	70	640	780	90	378	280	120	330	416	450	533	48	/	102	457	254	8-ø22	406	368	203	8-ø19	324	4-ø35	2285	
12/10G-G	2010	1207	851	/	/	/	/	64	749	876	152	473	356	140	368	522	851	665	48	238	/		527	305	12-ø22	470	457	254	8-ø22	406	4-ø41	4450
14/12G-G	2096	1207	851	/	/	/	/	64	749	876	152	502	356	140	424	610	851	787	48	121	/		552	356	8-ø22	495	527	305	12-ø22	470	4-ø41	5400
18/16T-G	2320	1150	900	/	/	/	/	80	880	1041	125	607	350	150	431	692	650	914	58	/	274	705	457	16-ø25	641	640	406	12-ø25	584	4-ø48	11370	
10/8S-GH	1774	920	760	/	/	/	/	70	640	780	90	455	280	120	330	475	450	620	48	/	206	457	254	8-ø22	406	368	203	8-ø19	324	4-ø35	3188	
12/10G-GH	2062	1219	851	/	/	/	/	64	749	876	152	496	356	140	400	605	851	800	60	40	/	533	305	8-ø29	476	483	254	8-ø25	432	4-ø41	4638	
16/14TU-GH	2367	1460	1200	/	/	/	/	95	860	1050	150	649	350	150	448	765	900	1008	72	/	120	650	405	12-ø28	600	600	356	12-ø28	540	4-ø79	12247	

All dimensions are in millimeter (mm) 所有尺寸单位为(mm)

S 特定加工 PECIFIC PROCESSING

我公司可按照用户的要求测绘制造各种特殊泵件，满足不同使用工况的需求，也可依照用户要求对现有的挖泥泵进行技术改造，结合我们公司丰富的水力模型，通过先进的计算机模拟技术，为用户提供有效的解决方案。

我公司已为多家疏浚吹填单位提供叶轮、泵体、衬板、耐磨环等部件，现场使用效果良好，得到用户的认可，并建立长期合作关系。



车间一角 Workshop



S 特定加工 PECIFIC PROCESSING



Our company can manufacture various special pump according to the requirements of customers, meet the requirements of different operating conditions, according customer requirements to make technical innovation in existing dredge pump, combined with our rich hydraulic model and advanced computer simulation technology, provide users with effective solution.

Our company has provide impeller, casing, plate and wear ring parts for several reclamation units, good field application effect obtained user's approval and established a long-term cooperation.