



# ZS 型 渣 石 泵

ZS Type Slag pump



湖北扬子江泵业有限责任公司  
HUBEI YANGTZE RIVER PUMP CO.,LTD.

## 企业简介

湖北扬子江泵业有限责任公司创建于 1954 年，中国泵行业著名企业，公司为湖北省重合同守信用单位，“扬子江”牌商标为“湖北省著名商标”，“扬子江”牌系列泵产品属“湖北名牌产品”，国内知名品牌，产品誉销海内外。

公司总部设在武汉临空港国家级工业园。公司有两个生产基地，一个在武汉市临空港工业园生产基地，一个在湖北省石首市金平工业园生产基地。公司多年来从事城市建设、隧道盾构、矿山、冶金等诸多行业渣石输送设备、隧道盾构控制系统的研发与生产。

泵产品软件设计广泛采用 CAD/CAM/CAE、CAPP 等计算机数字技术，利用泵的优化设计理论进行泵产品设计和制造工艺验证。建立产品的三维模型、进行流体动力学分析，确保产品的先进性、科学性。

公司产品性能测试采用最先进的水泵计算机自动测试台，数据库管理，有效而科学的改进和提高了测试水平。

公司坚持科技创新，以优质的产品、细致的服务、持续提升的质量水准，增强顾客的满意程度。

## Enterprise Profile

Hubei Yangtze River Pump Industry Co., Ltd, established in 1954, has been a well-known enterprise in China pump industry, and a contract-observed and promise-keeping unit in Hubei province. The trademark of “Yangtze River” is the Hubei famous trademark, and the series of pump products of “Yangtze River” brand is “the famous Hubei brand products”, Domestic famous brands, reputation sells at home and abroad.

The Headquarter of company is located in Wuhan airport-surrounding Industry Park at the national level. Company sets two production bases: One is located in Wuhan airport-surrounding Industry Park, another is located in the Jinping Industry Park, Shishou City, Hubei province. Our company has been engaged in the development and manufacturing of slag stone transportation equipment and tunnel shield control system in the urban construction, tunnel shield, mining, metallurgical and other industries.

Pump products’ software design widely adopts CAD/CAM/CAE, CAPP and other computer digital technologies, and the pump products design and manufacturing process validation are performed through the optimized theory of pump design. By establishing products’ 3D model and performing fluid dynamic analysis, product advancement and scientificity are ensured.

The company products’ performance test adopts the most advanced water pump computer automatic test platform, database management, which effectively and scientifically improves and enhances the level of test.

Our company insists on technology innovation, and enhances the customers’ satisfaction with good quality products, meticulous service and continuous improvement of quality

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## 概述

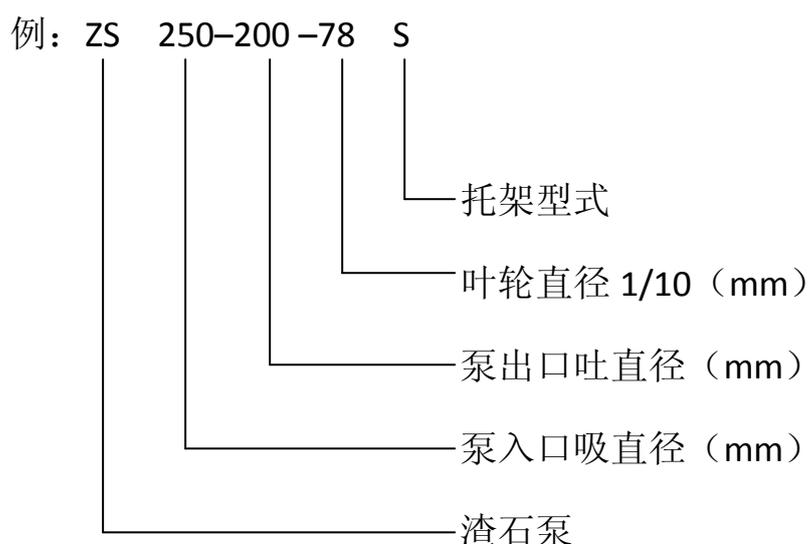
ZS 系列渣石泵为单级单吸悬臂单壳体卧式离心泵，适用于不同环境的粉质粘土、粉土、砂卵砾石、泥质粉石砂岩等地下土层、岩石层相异工况。主要用于大颗粒以至于普通渣浆泵难以输送的强磨蚀物料连续输送，适用于城市地铁建设、隧道盾构系统、挖泥船挖泥、疏浚河道、矿山采矿及冶金行业金属冶炼爆渣的输送等工程。

该泵采用了卡带连接单泵体结构，过流通道宽畅，其过流部件采用了硬镍、高铬等抗冲击强耐磨特殊材料，具有结构紧凑、无堵塞、安装使用方便、启动平稳、运行可靠、汽蚀性能好、强磨蚀等特点。

本系列产品共有 13 种型号，可输送浆体浓度达 65%，最大粒径达到 350mm。为了满足远距离渣浆输送，允许多级串联使用。

并可成套提供环流系统和控制系统的设计和制造。

## 型号意义



## Overview

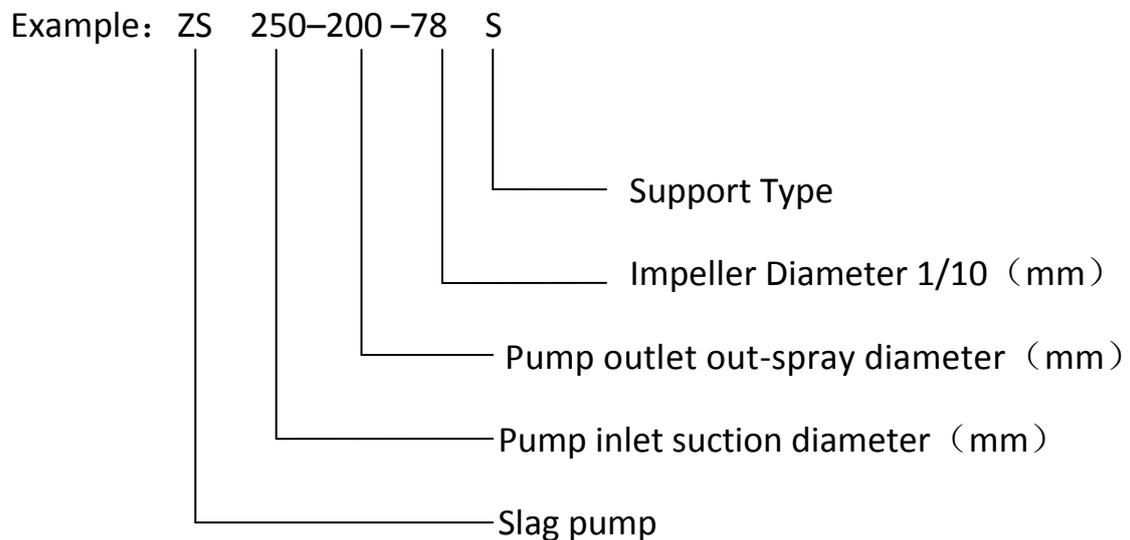
ZS series slag pump is single stage, single suction, single shell, cantilever, horizontal centrifugal pump, which is applicable to different working conditions of silty clay, floury soil, sand and gravel, argillaceous siltstone and other underground soil layers and lithosphere. It is mainly used for the continuous transportation for large particles and even the strong abrasive materials that can't be transported by the ordinary slurry pump, and is applicable to such transportations engineering as urban subway construction, tunnel shield system, dredger's dredging, waterway's dredging, mining and blast slag resulting from metal smelting in metallurgical industry, etc.

The pump adopts single pump body structure with chuck-straps connection, spacious overflow passage; the overflow passage components are applied with hard nickel, high chrome and other strong impact-resistant and wear-resistant special materials. Therefore, it is characterized of compact structure, non-blocking, easy installation and use, steady starting, reliable operation, good cavitation property, strong abrasion, etc.

This series of product has a total of thirteen models, the transportable slurry concentration reaches 65% and the maximum particle size 350mm. In order to meet the slurry transportation over a long distance, it allows multistage tandem use.

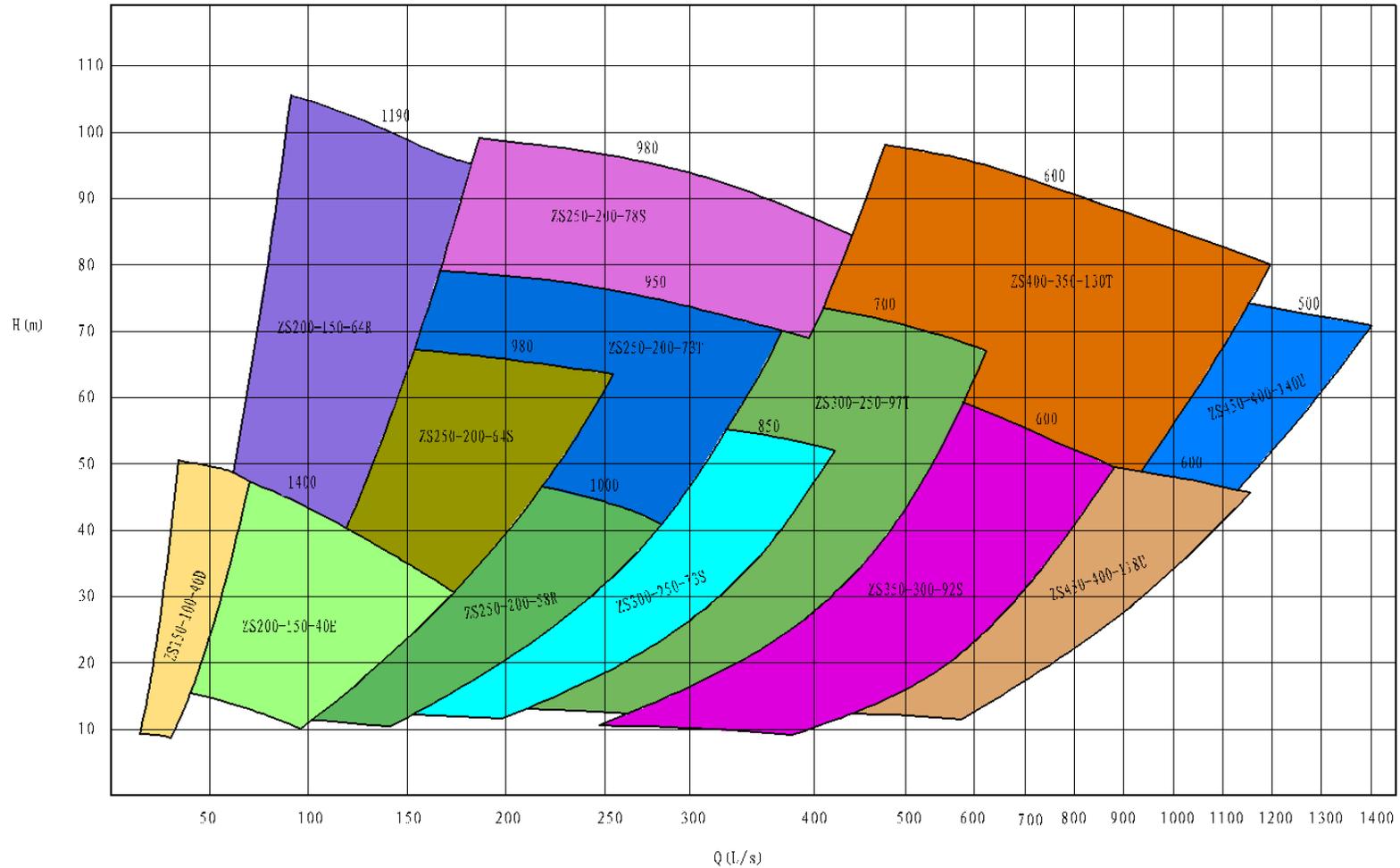
In addition, it can provide the design and manufacturing of whole set of circulation system and control system.

## Model Implication



# 型谱

## Selection chart of the series ZS slag pump



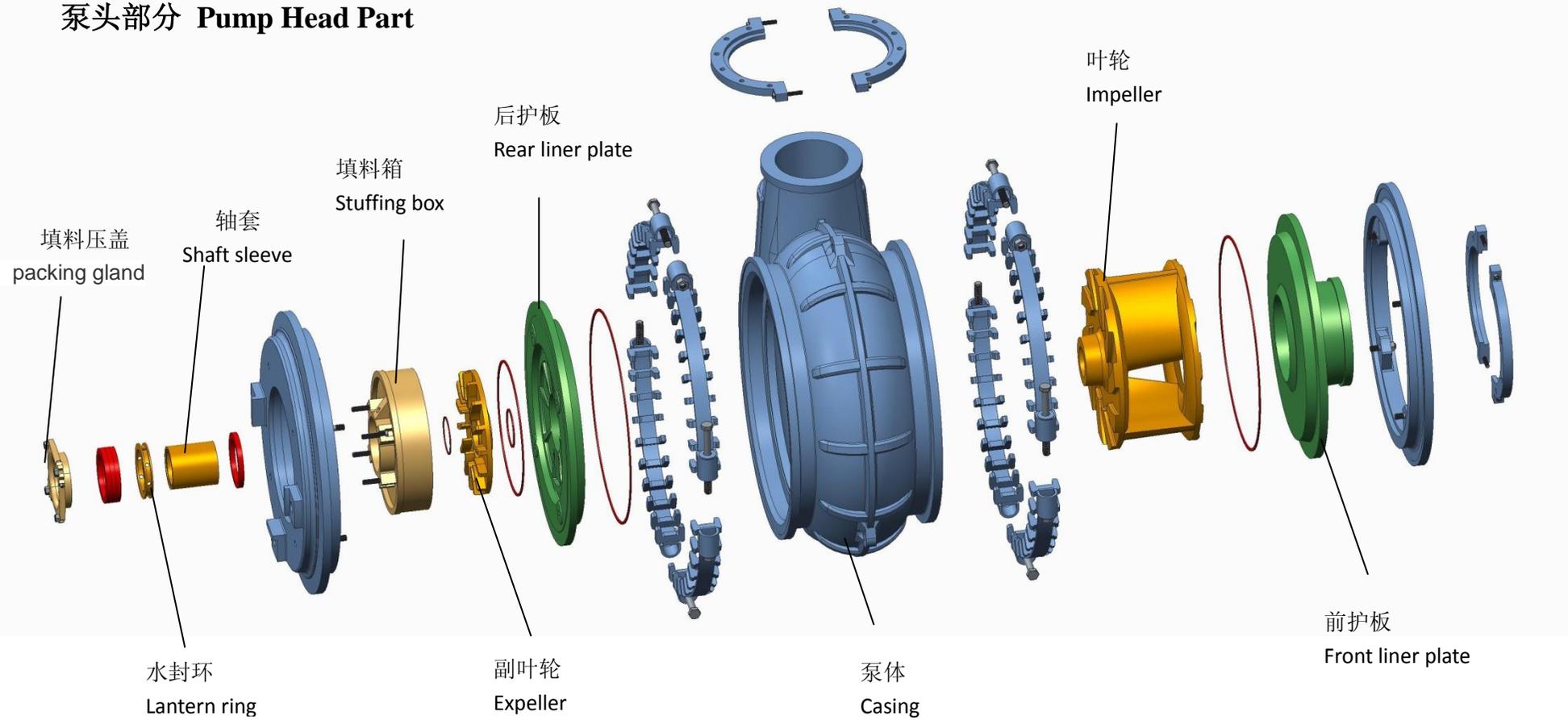
注：清水近似性能仅供初步选型参考

Note: Approximate performance for clear water is used for primary selection only

## 结构说明 Structure Specification

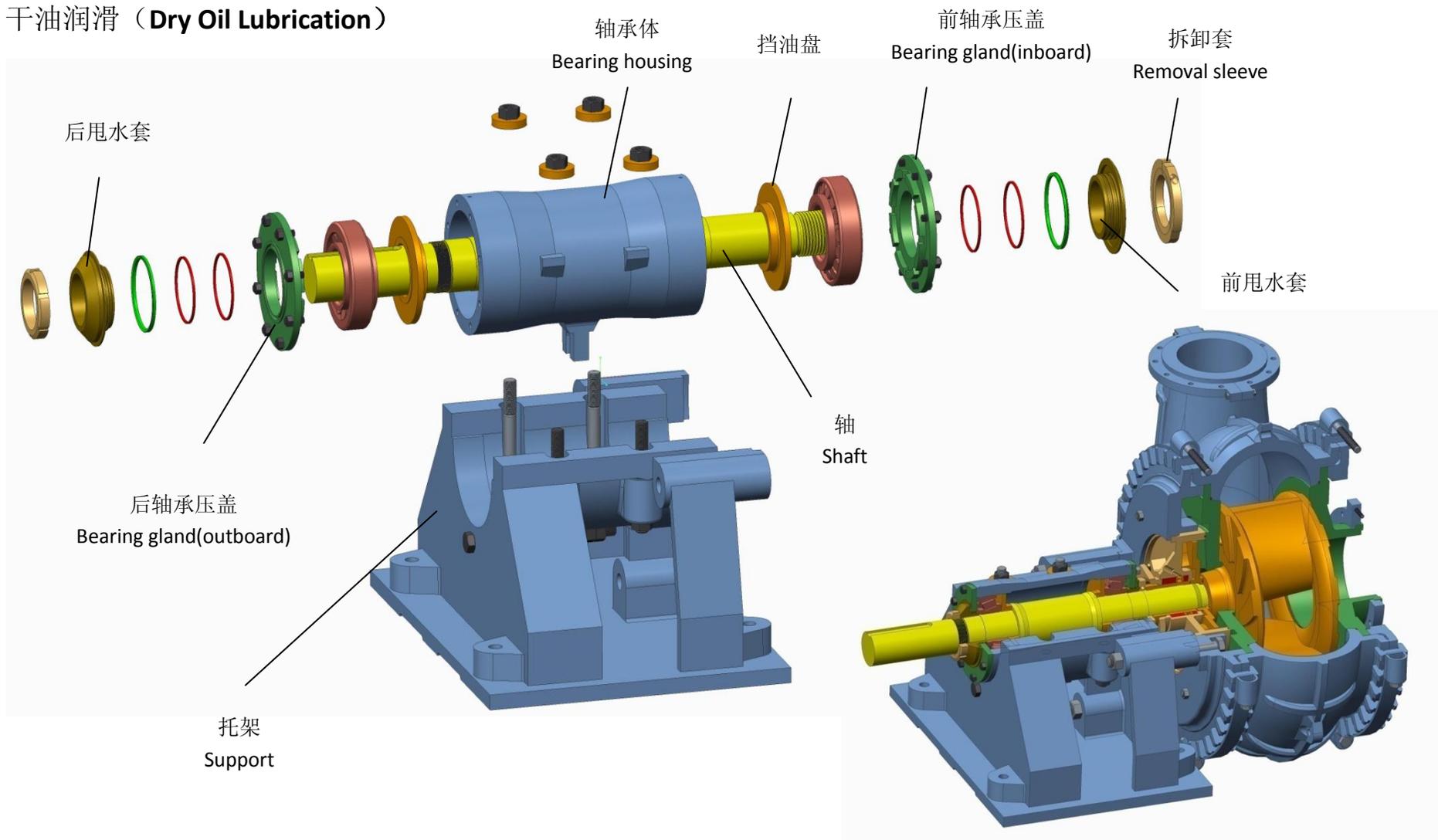
### 结构图 Structure Diagram

#### 泵头部分 Pump Head Part



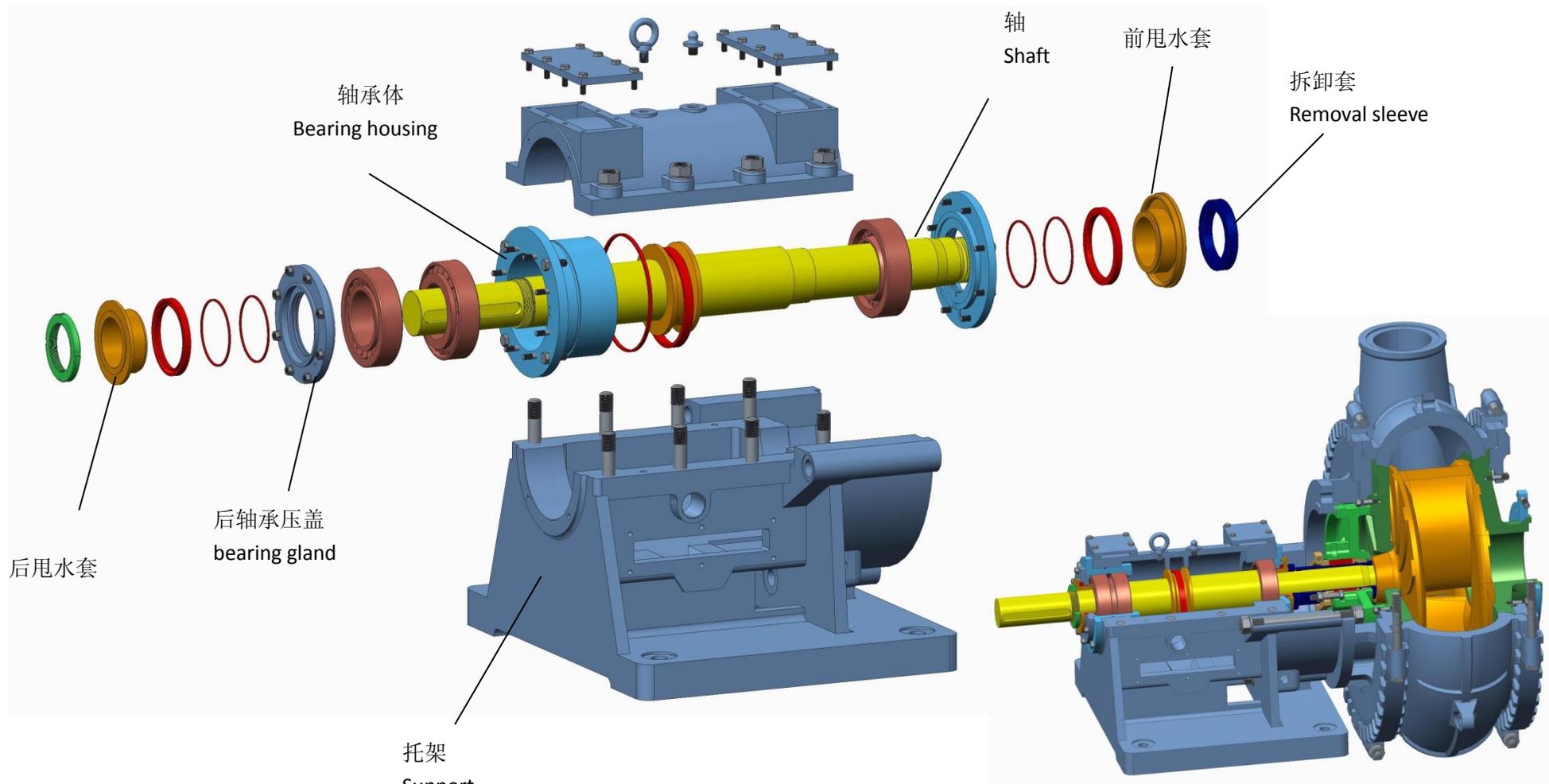
## 传动部分 Drive Part

### 干油润滑 (Dry Oil Lubrication)



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### 稀油润滑 (Dilute Oil Lubrication)



## 泵头部分 Pump Head Part

ZS 型渣石泵为单壳体结构。泵体、前后护板和叶轮均采用特殊耐磨金属材料制造。泵体、前后护板的连接采用特殊的卡式夹紧结构，泵出口方向可 360° 任意旋转，安装拆卸方便。泵进口为轴向水平方向，从传动方向看泵为顺时针方向旋转。**严禁反转。**

ZS type slag pump adopts single shell structure. The casing, font and rear liner plates and impeller are manufactured with special wear-resistant metal materials. The connection of casing, font and rear liner plates adopt special chuck-clamping structure and pump outlet can freely rotate at the 360 °, with easy installation and removal. Pump inlet is at the direction of axial horizon, and rotates at the clockwise as viewed from the drive direction. **No Counter-rotation.**

## 轴封部分 Shaft Seal Part

轴封有两种形式：填料轴封、副叶轮轴封。

There are two types of shaft seals: Packing shaft seal, and auxiliary impeller shaft seal.

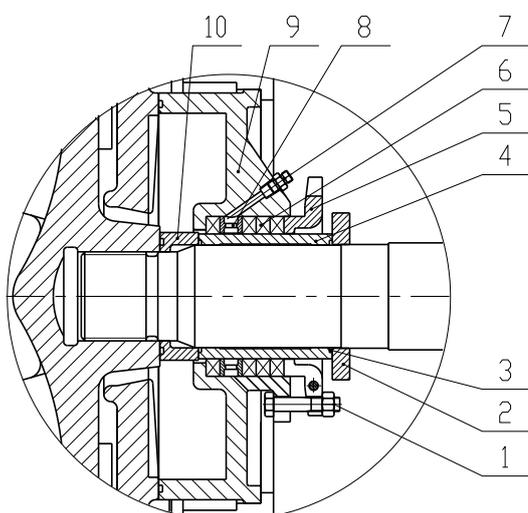
- (1) 填料轴封：用于吸上或倒灌状态。填料轴封结构简单，维修方便，但需使用轴封水，轴封水压力应比泵出口压力高 35KPa，轴封水量见表。

Packing shaft seal: Be used for suction or backward-flowing state. Packing shaft seal is characterized of simple structure and easy maintenance, but needs the shaft seal water whose pressure is 35KPa higher than pump outlet pressure. The shaft seal water volume refers to table below.

托架型式 Support Type	D	E	R	S	T	U
轴封水量(L/s) Shaft Seal Water Volume	0.55	0.7	1.0	1.2	1.6	2.1

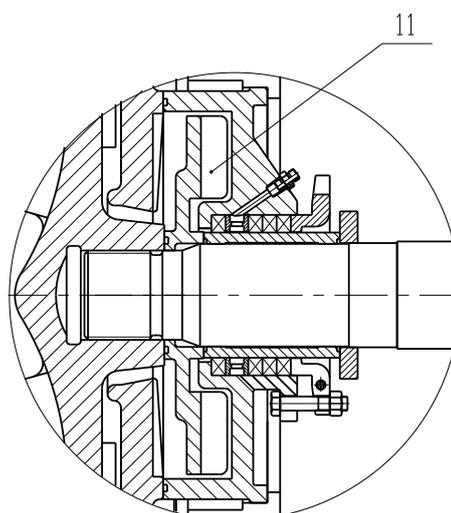
(2) 副叶轮轴封：一般用于倒灌状态，泵进口正压力值不大于泵出口压力值 10%，轴功率将增加 10%左右。

Auxiliary impeller shaft seal: be generally used for backward-flowing state, the positive pressure value of pump inlet is not 10% higher than that of pump outlet, and the shaft power would increase by about 10%.



填料密封

Packing Seal



副叶轮密封

Auxiliary Impeller Seal

1. 填料压盖螺栓 Packing Gland Bolts

3. O 型圈 O-Shape Ring

5. 填料压盖 Packing Gland

7. 轴封水街口 Shaft Seal Water Joint

9. 填料箱 Stuffing Box

11. 副叶轮 Auxiliary Impeller

2. 拆卸套 Removal Sleeve

4. 轴套 Shaft Sleeve

6. 填料 Packing

8. 水封环 Water Seal Ring

10. 短套 Short Sleeve

## 传动部分 Drive Part

ZS 型渣石泵的传动部分包括托架和轴承组件，泵轴直径大、刚性好、悬臂短，在恶劣的工况下不会弯曲变形和抗振动，轴承根据传递的功率不同选用重型单列圆锥滚子轴承或圆柱滚子轴承及单列角接触球轴承，能够承受泵的最大轴向及径向载荷，轴承采用油脂润滑或稀油润滑，轴承体两端有密封端盖、油封及迷宫甩水套，能有效防止矿浆等物进入轴承，保证轴承能安全运行，具有较高的寿命。

ZS Type slag pump's drive part is consisted of Support and bearing assembly. Pump shaft is characterized of long diameter, good rigidity and short cantilever, therefore it is good at resisting deformation and vibration under severe working conditions. Heavy single row tapered roller bearing, cylindrical roller bearing or single row angular contact ball bearing is selected respectively according to different transmitted power to withstand the maximum axial and radial loads. The bearings adopt grease or thin oil lubrication. At the both ends of bearing body, it is equipped with seal end cover, oil seal and labyrinth water throw-off sleeve that can effectively prevent the slurry from entering into the bearing, ensure bearing operate safely with higher service life.

## 故障及解决方法

故障	发生原因	解决方法
泵不吸料	吸入管道或填料处漏气 转向不对或叶轮损坏 吸入管堵塞	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 泵内发生摩擦 轴承损坏 驱动装置皮带过紧 泵流量偏大 转速偏高，比重过大 电机轴与泵轴不对中或不平行	调整填料压盖螺栓 消除摩擦 更换轴承 调整皮带调节泵的运转情况 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	添加润滑脂要适当 更换润滑脂 更换轴承
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不适当 轴承装配不合理	调整电机轴和泵轴 更换泵轴 消除摩擦，换新叶轮 清洗轴承 更换轴承或重新装配轴承
轴封泄漏严重	填料磨损严重 轴套磨损严重 密封水不清洁	更换新填料 更换轴套 更换清洁密封水
泵振动，噪声大	轴承损坏 叶轮不平衡 吸入管进气，堵塞 流量不均匀，泵抽空	更换新轴承 更换新叶轮 消除进气，清理堵塞处 改善泵进料情况

## Faults and Solutions

Faults	Occurrence Reasons	Solutions
Pump doesn't suck materials	Gas leakage at the suction pipeline or the packing place Rotation direction is incorrect or impeller is damaged Suction pipe is blocked	Plug the air leakage part Check rotation direction, and replace with new impeller Exclude blockage
Shaft power is overlarge	Packing gland is too tight, and packing gets heat Friction occurs in the pump Bearing is damaged The belt of drive set is too tight Pump flow is too large Rotating speed is relatively high, and specific gravity is too large Motor shaft is not aligned or parallel with pump shaft	Adjust packing gland bolts Eliminate friction Replace bearing Adjust the running condition of belt regulation pump Regulate rotating speed Adjust motor shaft and pump shaft
Bearing is overheat	Bearing lubricating grease is too much or too little Debris in the lubricating grease Bearing is damaged	Lubricating grease should be appropriately added Replace with new lubricating grease Replace with new bearing
Bearing service life is short	Motor shaft is not aligned or parallel with pump shaft Shaft is bending Friction occurs in the pump or impeller loses balance Debris enter into the bearing or lubricating grease is not appropriate added into the bearing Bearing is not properly assembled	Adjust motor shaft and pump shaft Replace with new pump shaft Eliminate friction, and replace with new impeller Clean bearing Replace with new bearing or re-assemble bearing
Shaft seal leakage is worse	Packing is seriously worn Shaft sleeve is seriously worn Seal water is not clean	Replace with new packing Replace with new shaft sleeve Replace with clean seal water
Pump vibration and noise is too large	Bearing is damaged Impeller is not balance Suction pipe is blocked for gas intake Flow is not even, and pump is evacuated	Replace with new bearing Replace with new impeller Eliminated intake air, and clean blockages Improve pump feeding condition

# 主要技术参数

## Main Technical parameter

型号 Model	允许配套最大功率 Allowable mating max.power (kW)	允许最高转速 Allowable max.Speed (r/min)	允许最大工作压力 Allowable max. Operating pressure (MPa)	排送最大粒径 Discharge max.Size (mm)	清水性能 Clear water performance				泵重 Weight (kg)
					流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	最高效率 Max.eff	汽蚀余量 NPSH(m)	
ZS150-100-40D	150	1400	1.5	82	53-252	8-50	60%	2.5	1000
ZS200-150-40E	120	1400	1.5	127	120-580	11-48	61%	4	1400
ZS200-150-64R	350	1190	3.6	160	135-630	17-107	66%	4	1600
ZS250-200-58R	560	1000	1.5	178	200-990	11-50	66%	4	2600
ZS250-200-64S	315	980	2.4	178	126-915	8-68	72%	4.5	3000
ZS250-200-73T	600	700	2.4	180	310-130	20-80	72%	4	3500
ZS250-200-78S	630	980	3.6	178	230-1470	10-100	61%	4.5	3800
ZS300-250-73S	600	850	1.8	220	340-1510	12-58	70%	4	4500
ZS300-250-97T	600	700	2.4	210	390-2230	12-77	73%	4	5000
ZS350-300-92S	1200	700	2.4	241	540-3170	9-66	68%	4.5	5500
ZS400-350-130T	1600	600	3.6	230	830-4320	20-93	71.4%	4.5	
ZS450-400-118U	1200	500	1.5	150	1080-4140	12-52	78%	4	
ZS450-400-140U	2000	500	3.6	254	1240-5040	25-80	70%	4	

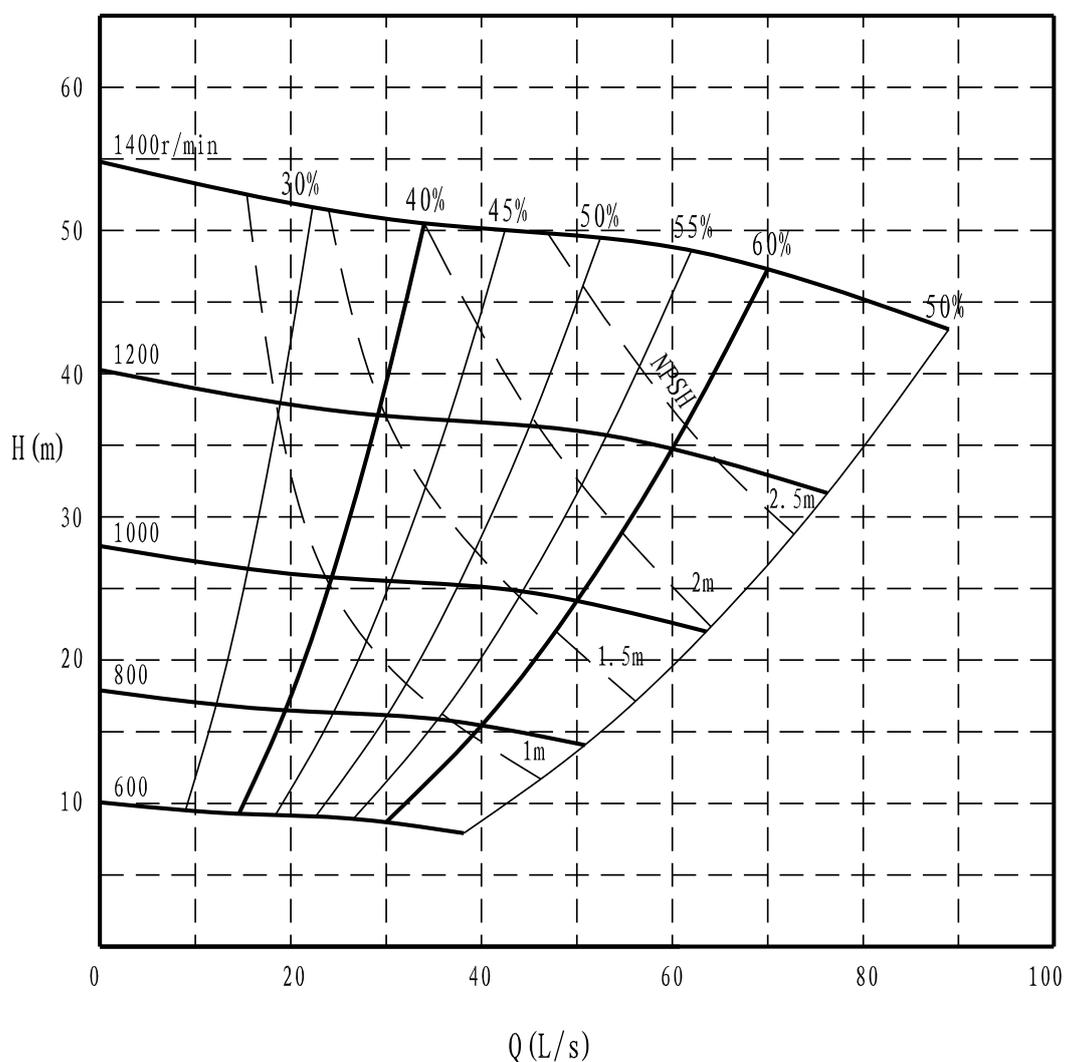
# 清水性能曲线

## Clean Water Performance Curve

口径 Diameter (mm)	托架型式 Bracket Type	型号 Model	允许最大功率 Allowable mating max. power (kW)	排送最大颗粒 Discharge max. Size (mm)	型式 Type	材质 Material
150/100	D	ZS150-100-40D	150	82	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

注: 图中粗线框内为推荐使用区; 轻磨蚀渣浆可在推荐区之外。

Remarks: The recommended application area refers to the area within the thick line frame, and light abrasive slurry can be out of the recommended area.



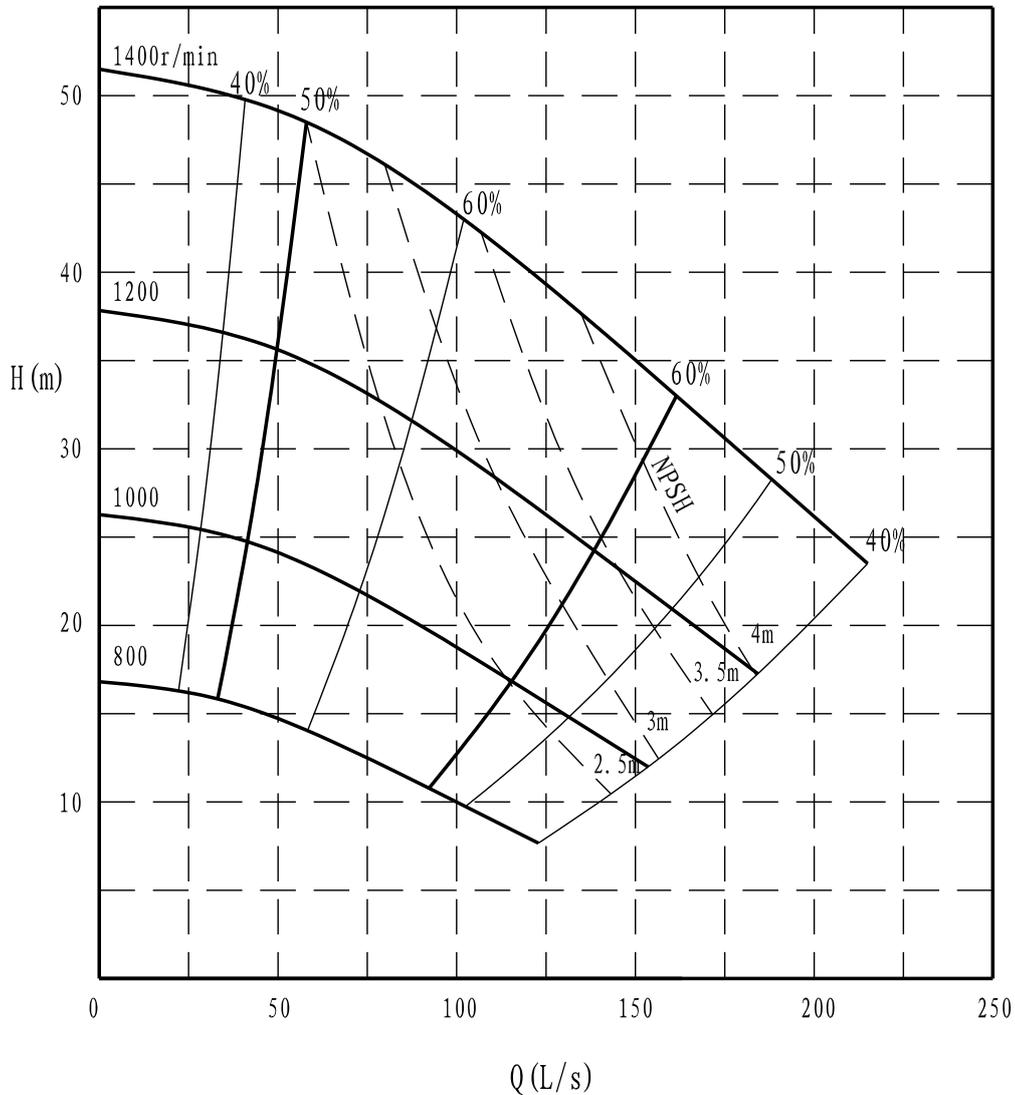
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200/150	E	ZS200-150-40E	120	127	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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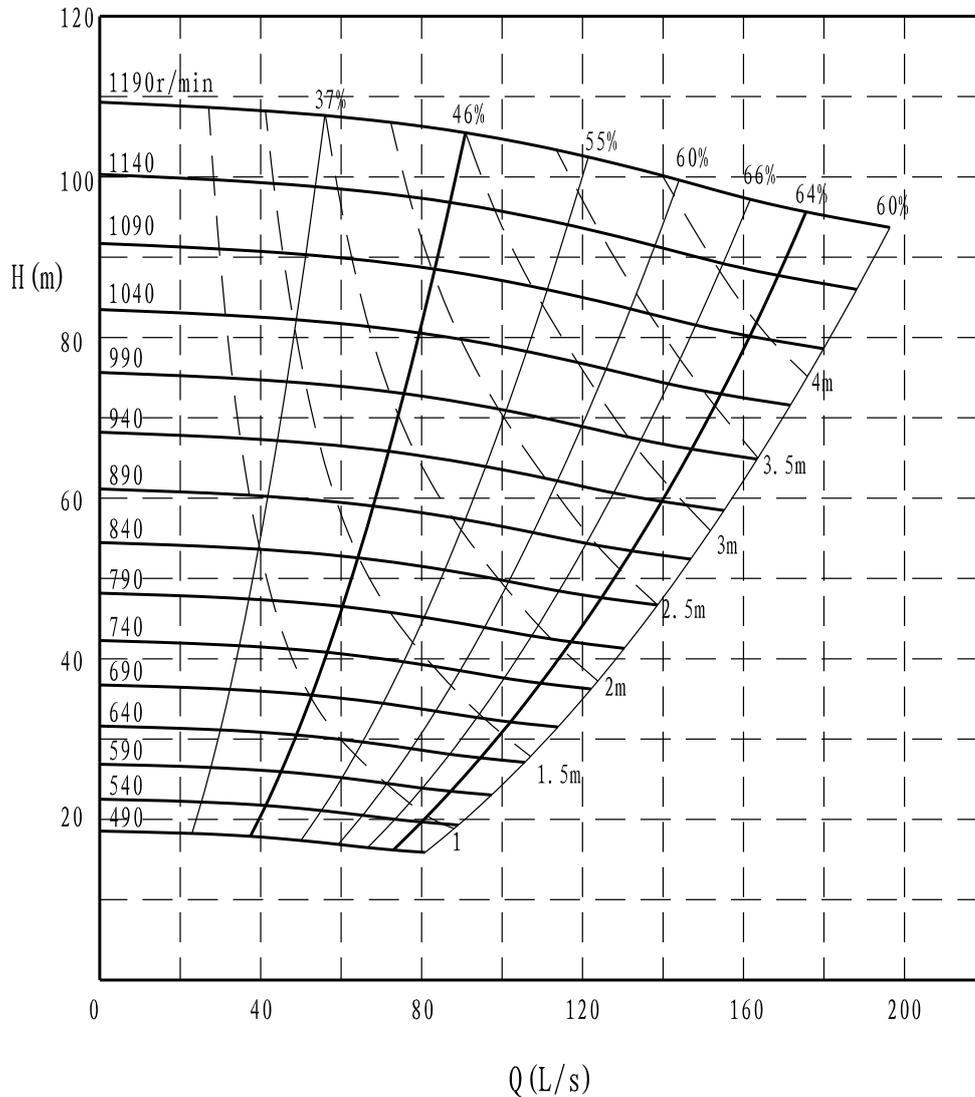
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200/150	R	ZS200-150-64R	350	160	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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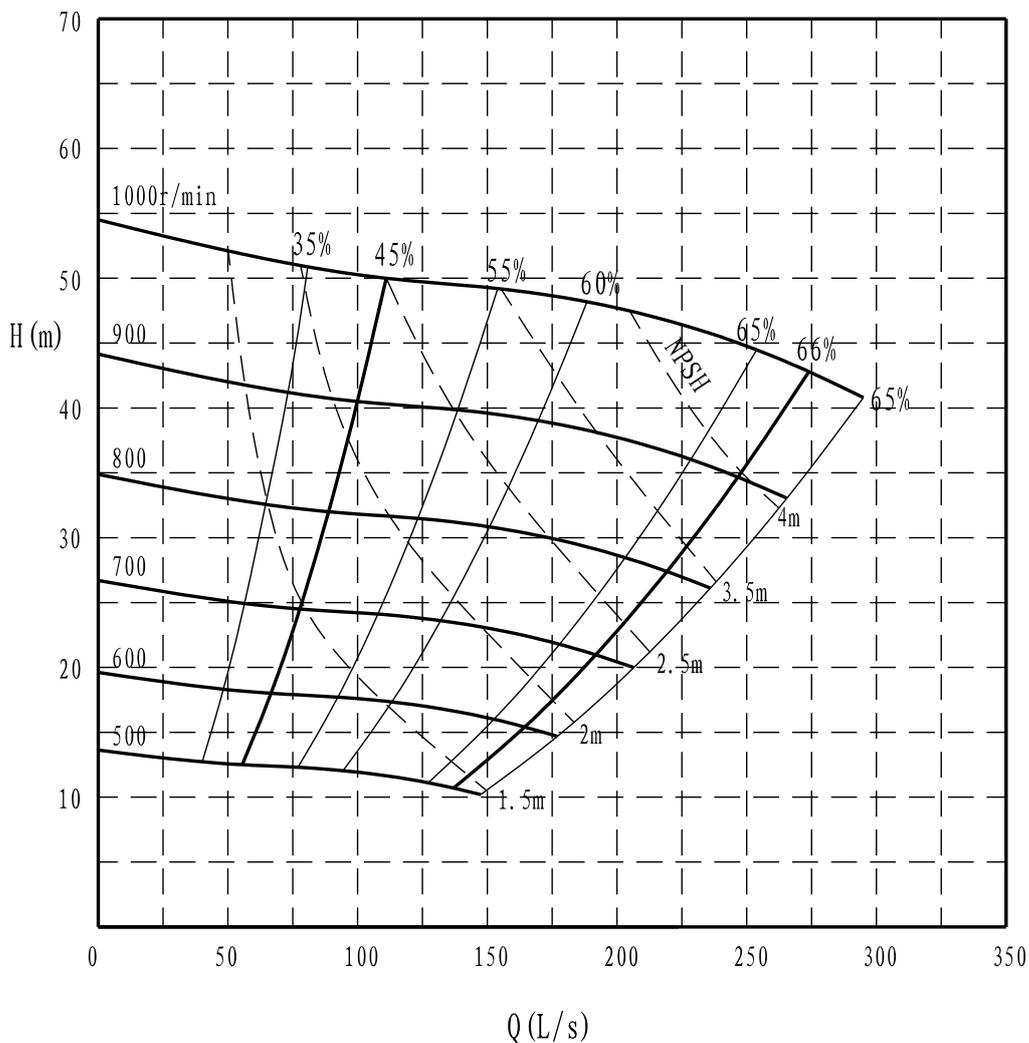
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250/200	R	ZS250-200-58R	560	178	闭式 Closed Type	金属 Metal
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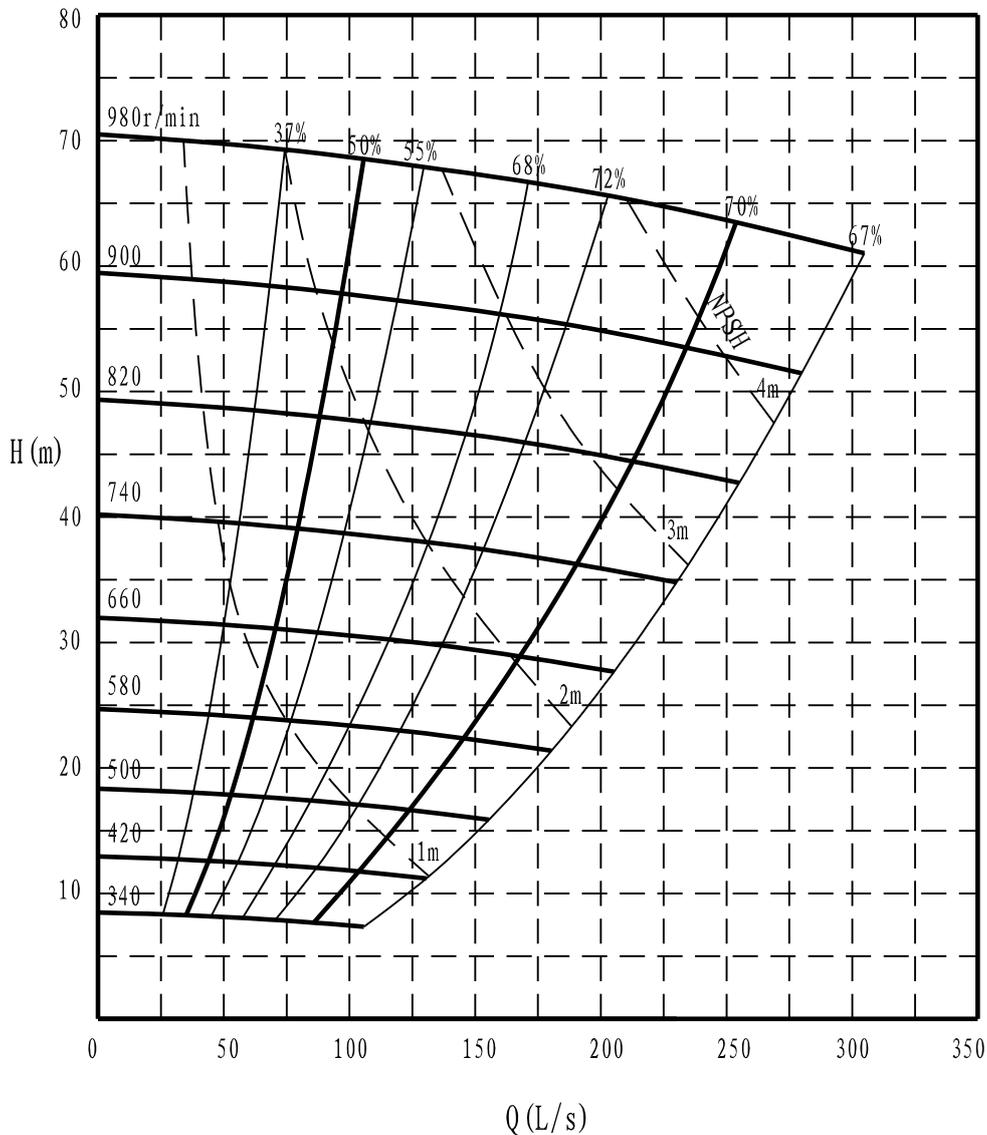
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250/200	S	ZS250-200-64S	315	178	闭式 Closed Type	金属 Metal
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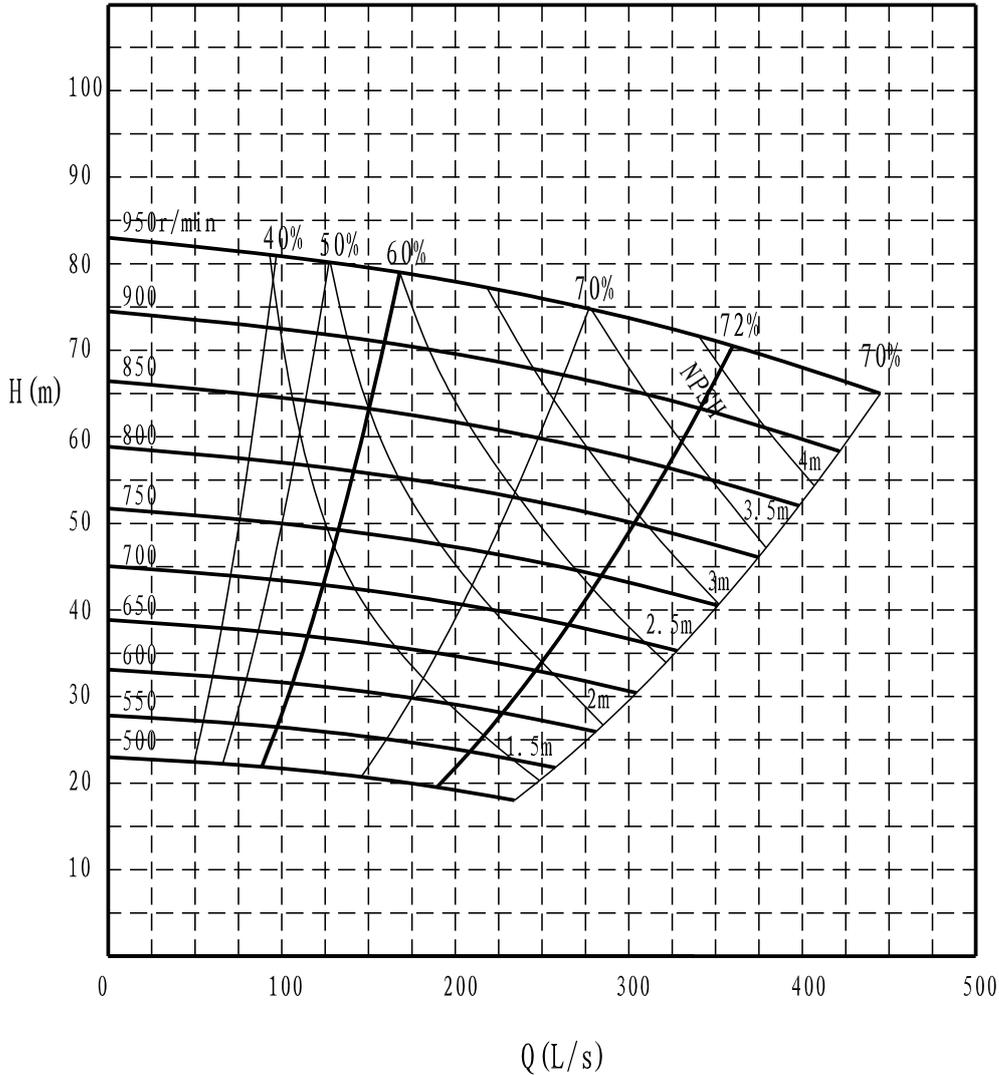
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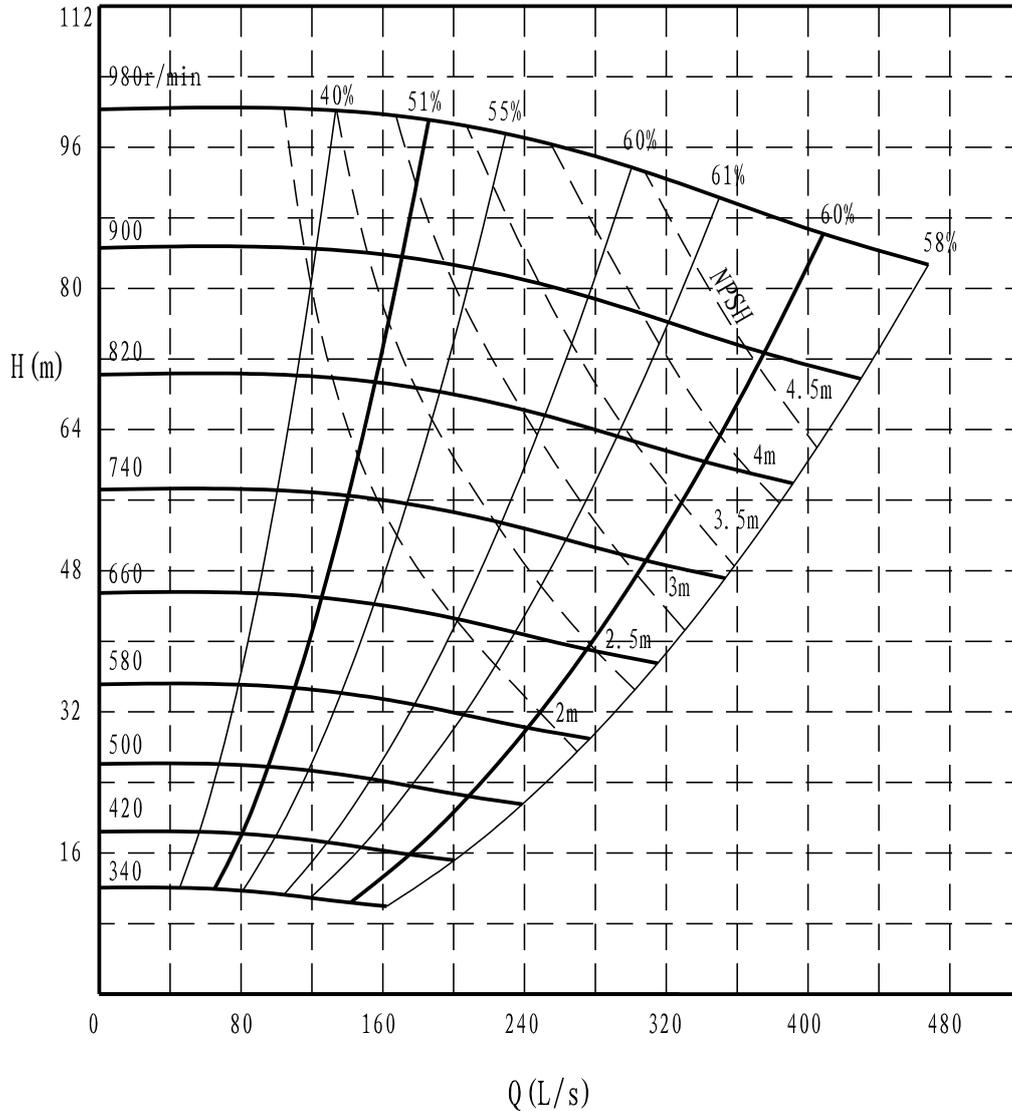
# 清水性能曲线

## Clean Water Performance Curve

口径 Diameter (mm)	托架型式 Bracket Type	型号 Model	允许最大功率 Allowable mating max. power (kW)	排送最大颗粒 Discharge max. Size (mm)	型式 Type	材质 Material
250/200	S	ZS250-200-78S	630	178	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

注: 图中粗线框内为推荐使用区; 轻磨蚀渣浆可在推荐区之外。

Remarks: The recommended application area refers to the area within the thick line frame, and light abrasive slurry can be out of the recommended area.



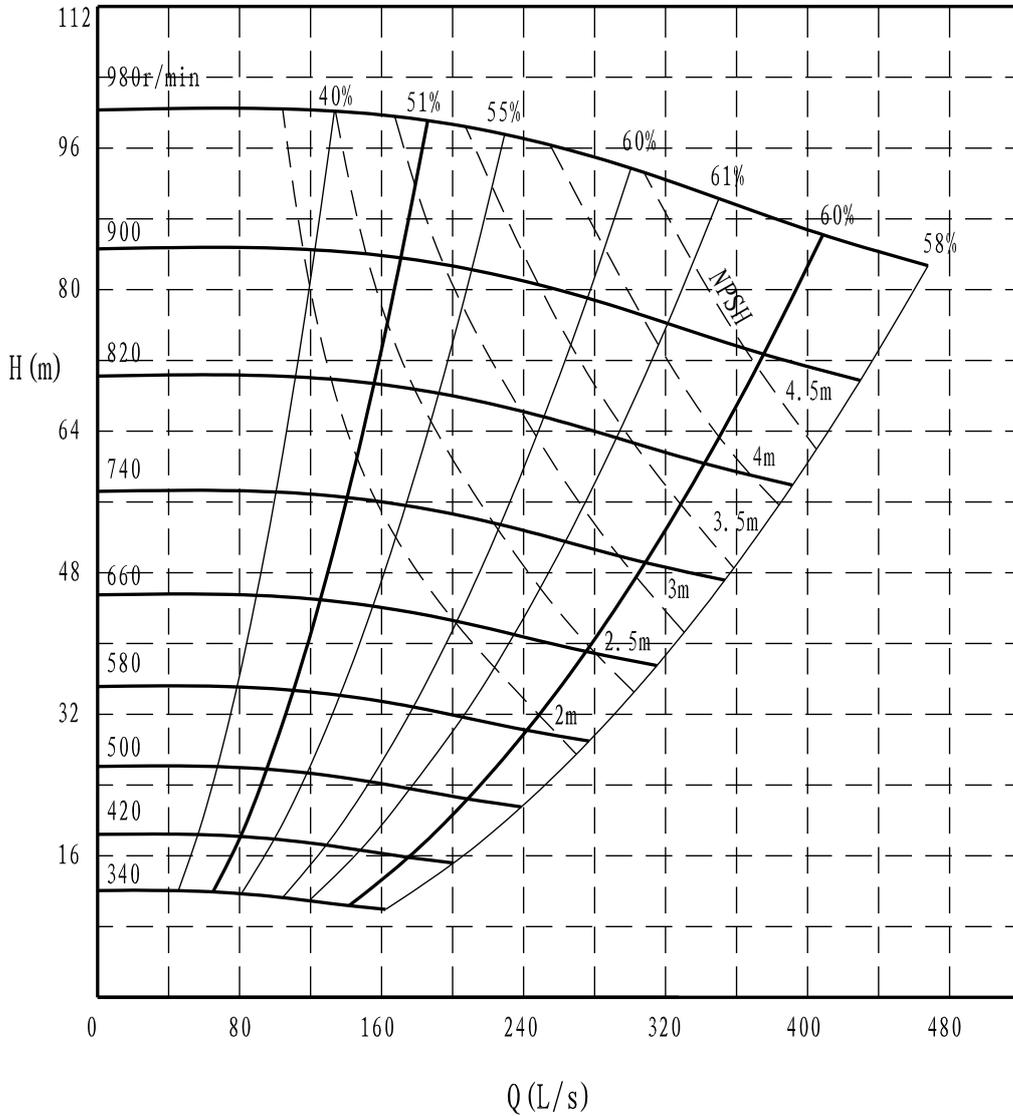
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300/250	S	ZS300-250-73S	600	220	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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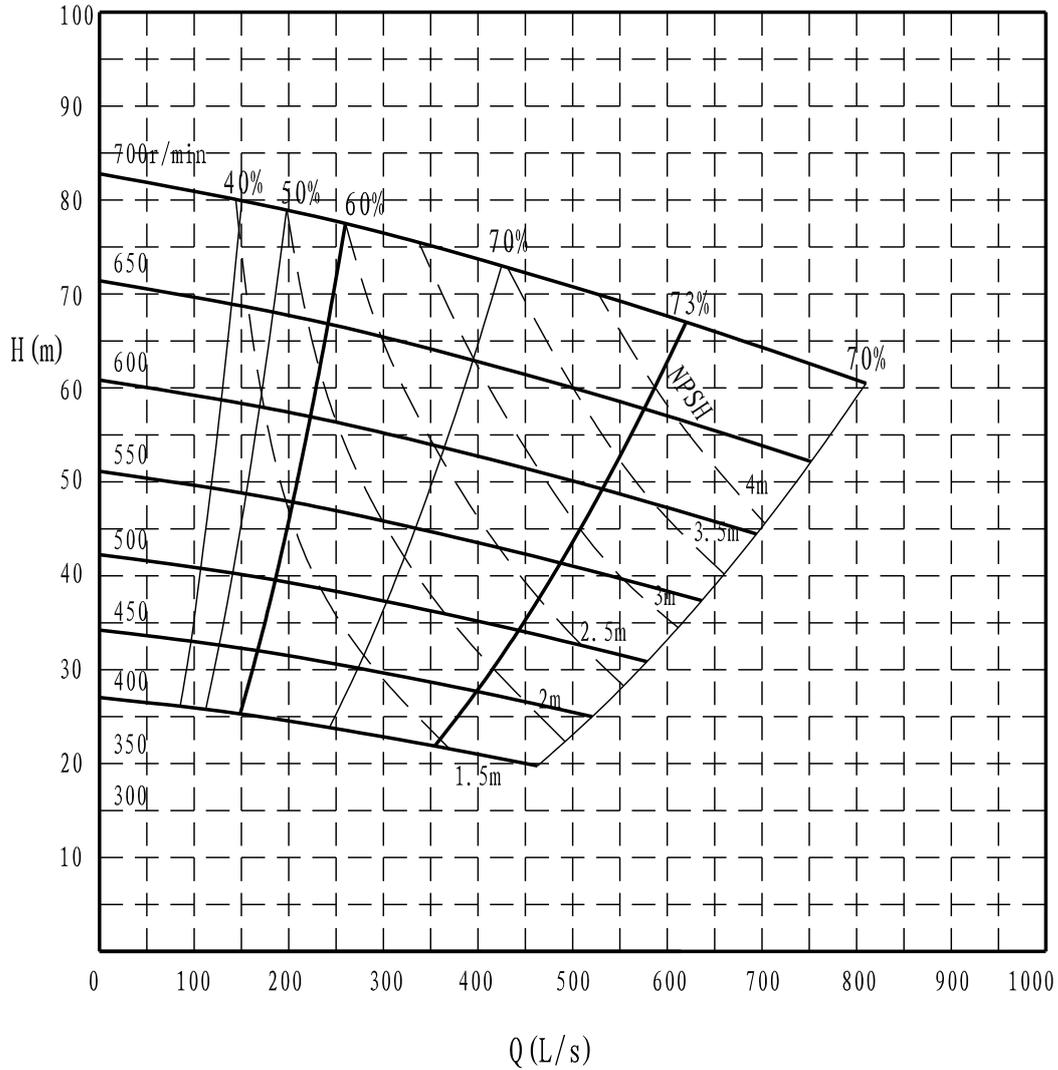
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300/250	T	ZS300-250-97T	600	210	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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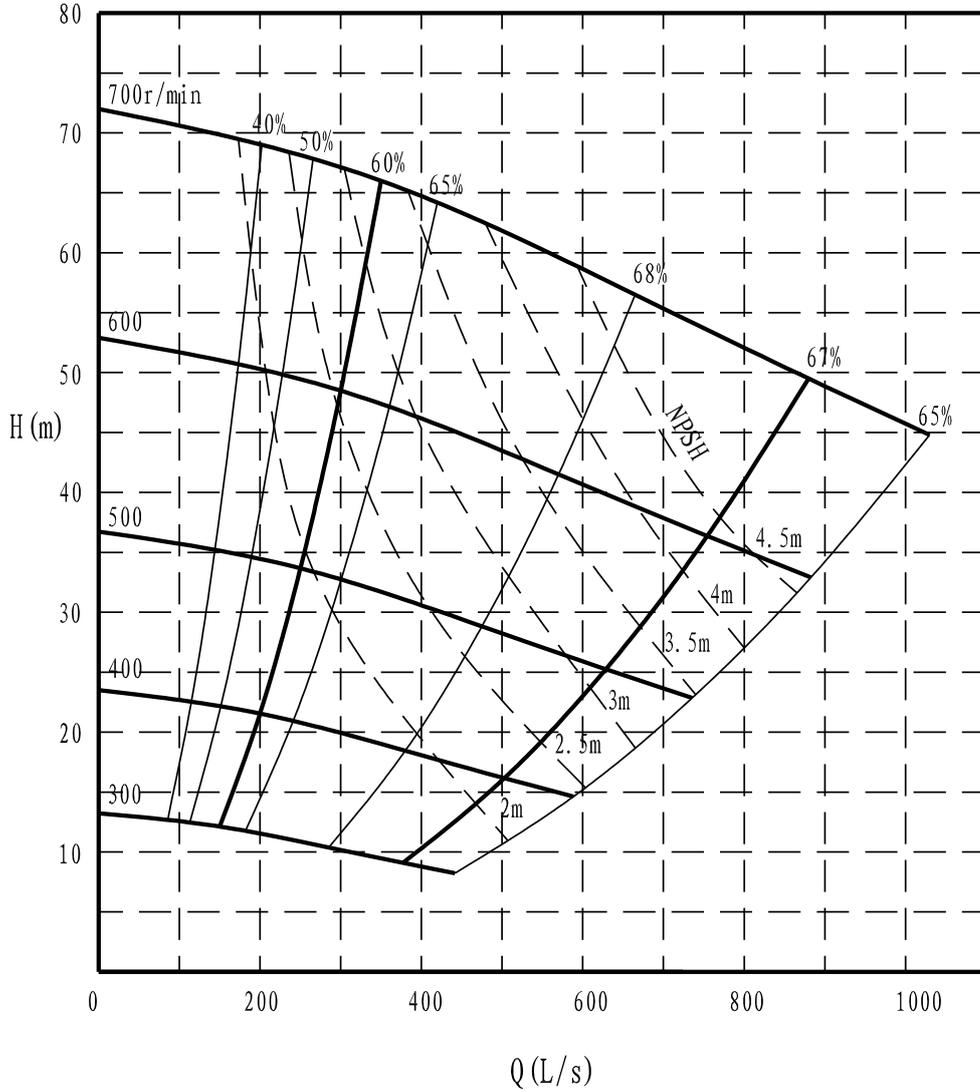
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350/300	S	ZS350-300-92S	1200	241	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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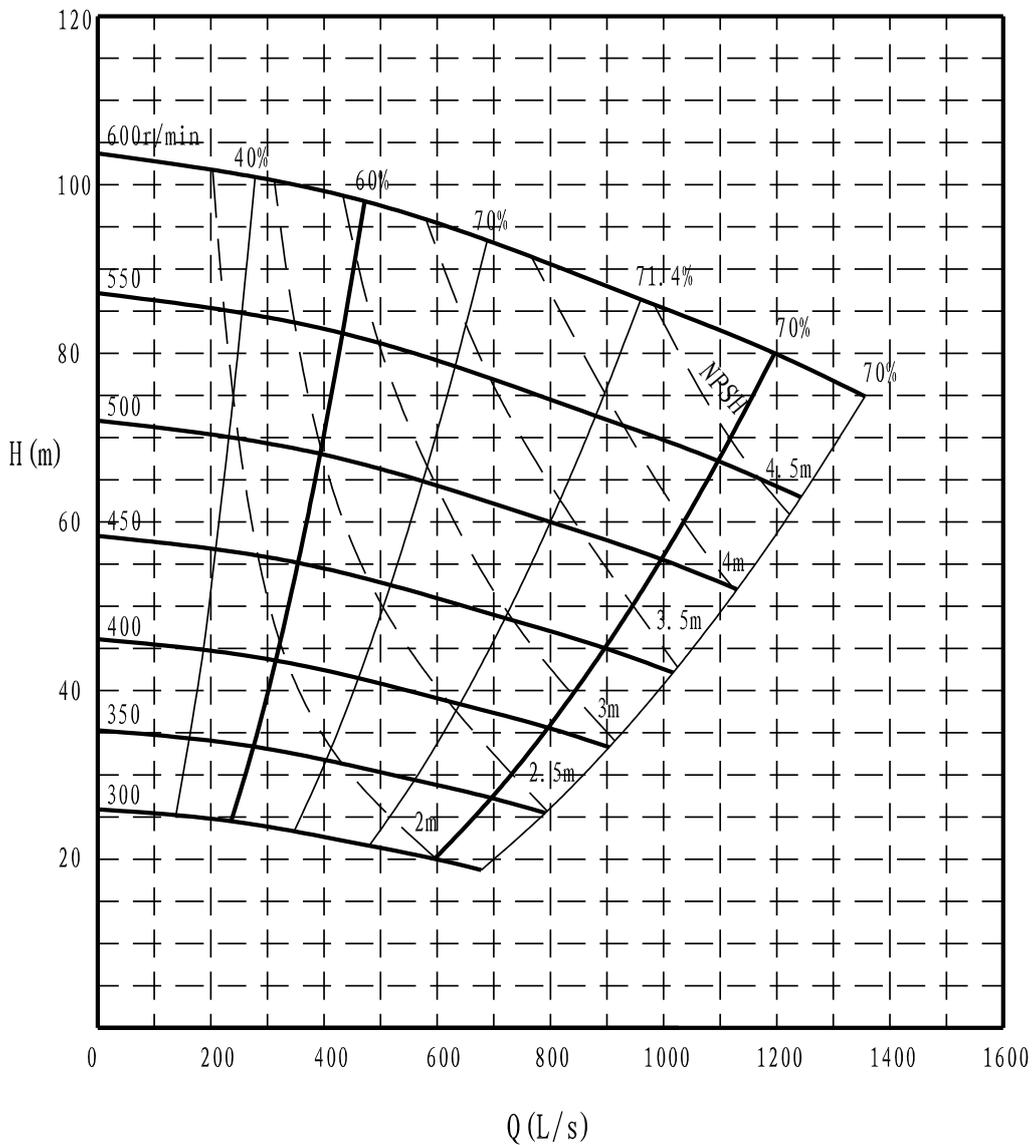
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400/350	T	ZS400-350-130T	1600	230	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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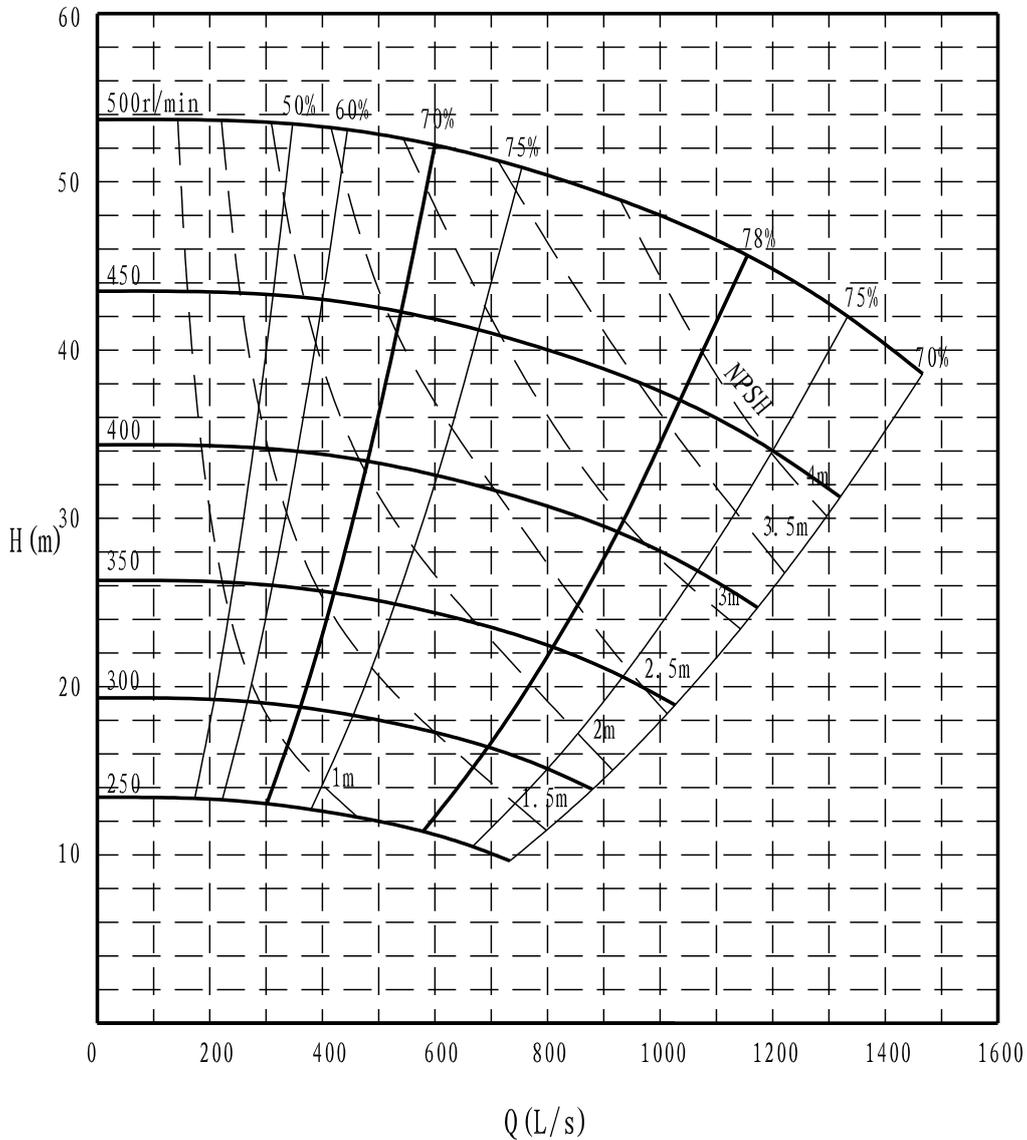
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				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	闭式 Closed Type	金属 Metal
450/400	U	ZS450-400-118U	1200			150	

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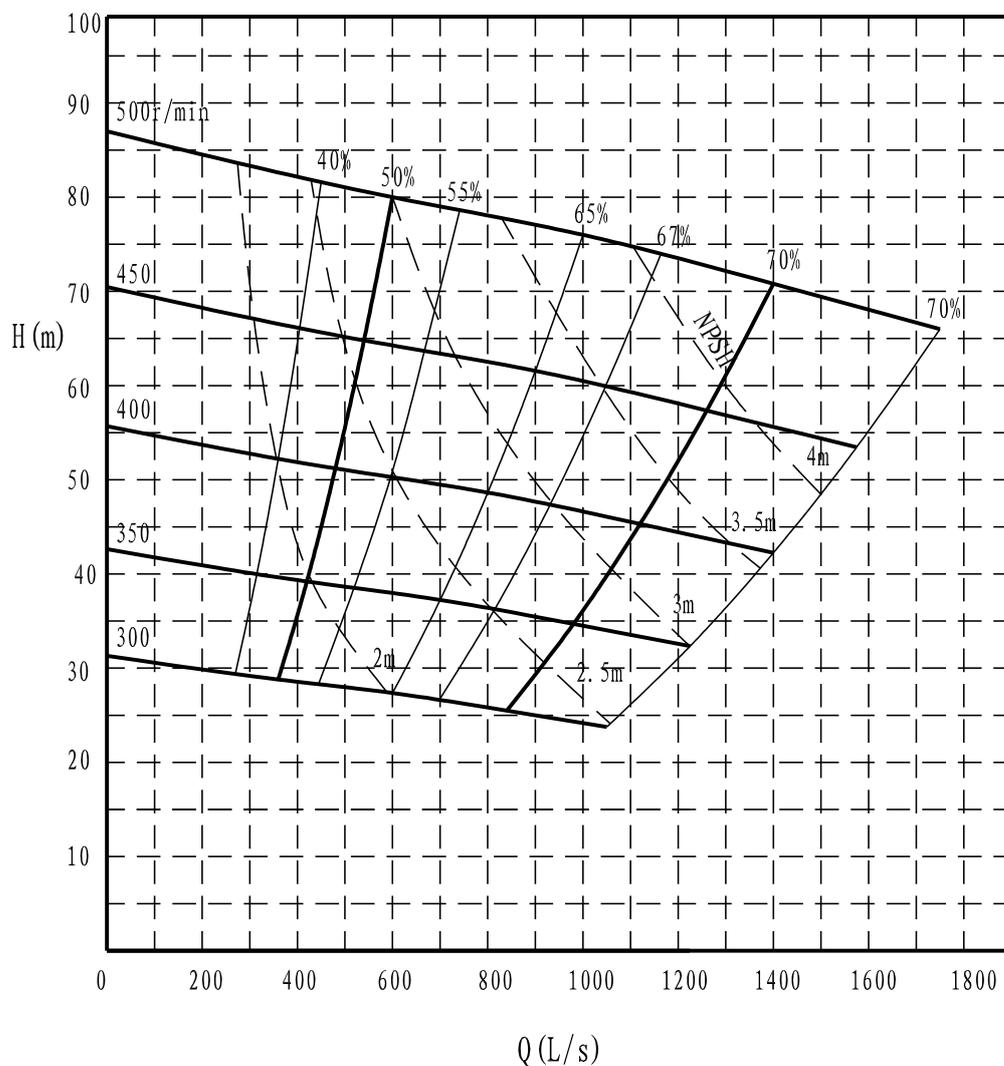
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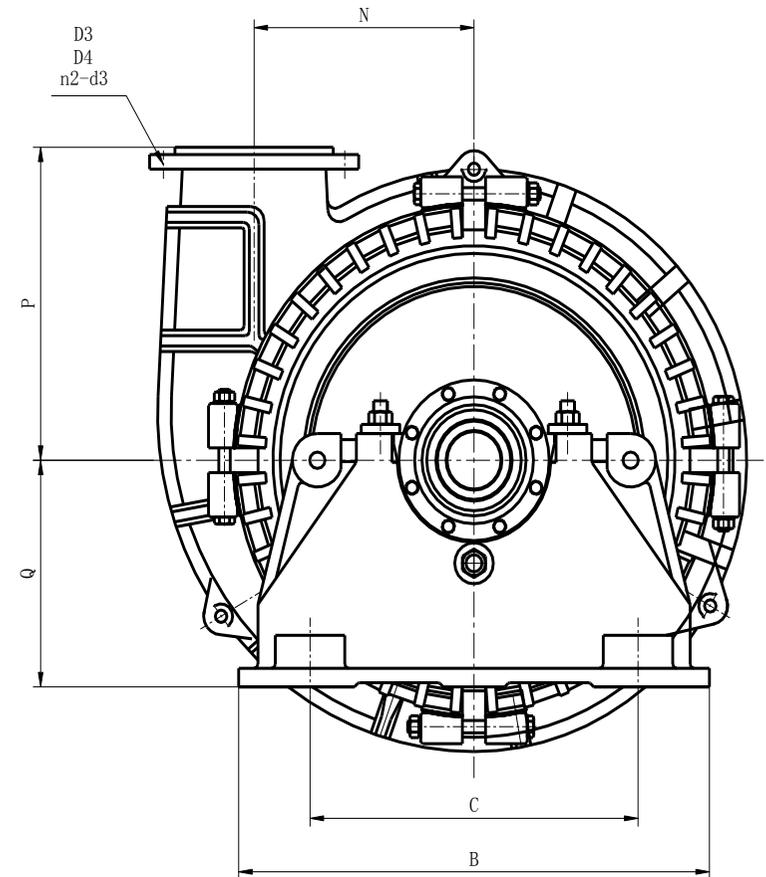
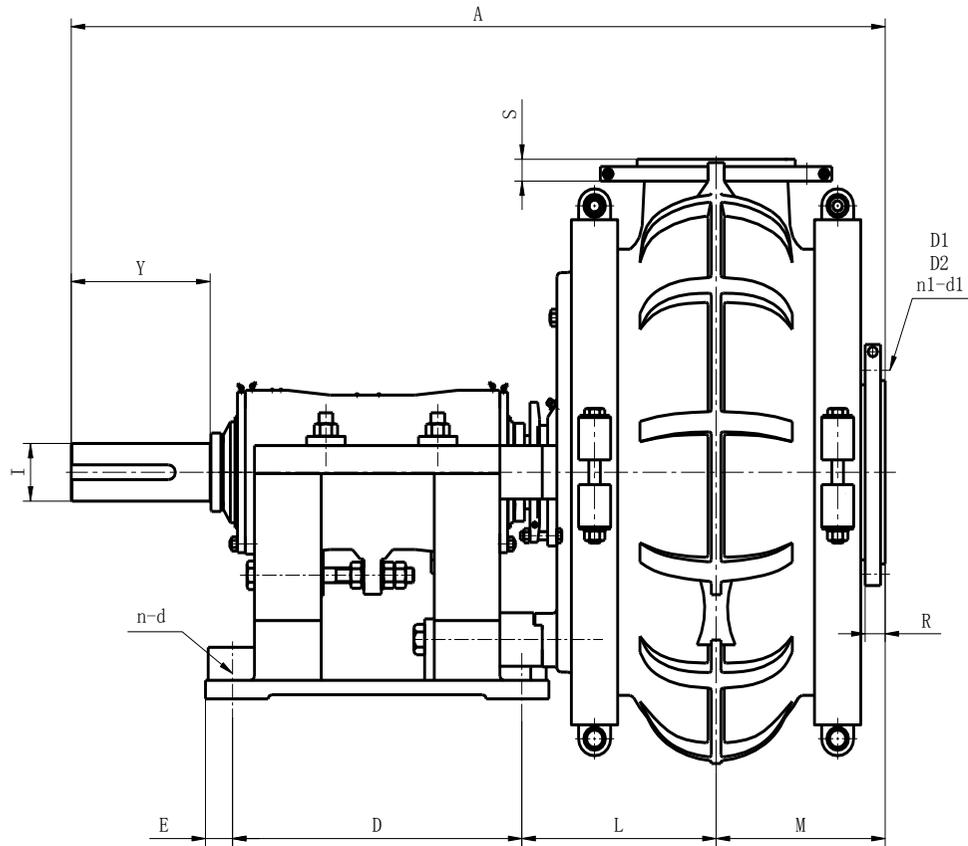
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450/400	U	ZS450-400-140U	2000	254	闭式 Closed Type	金属 Metal
				轴封型式 Shaft seal	填料密封、副叶轮密封 Packing Seal, Auxiliary Impeller Seal	日期 Date

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安装图 Installation Diagram:



## 安装尺寸 Installation Dimension:

型号 Model	托架 Support								泵头 Pump Head					吸入法兰 Suction Flange				吐出法兰 Release Flange			
	A	B	C	D	E	I	Y	n-d	L	M	N	P	Q	D1	D2	n1-d1	R	D3	D4	n2-d2	S
ZS150-100-40D	1010	540	400	420	60	65	130	4-Φ 28	330	203	260	343	330	305	260	8-Φ 19	33	254	210	4-Φ 19	29
ZS200-150-40E	1290	600	500	560	60	80	130	4-Φ 28	390	295	350	405	457	368	324	8-Φ 19	30	368	324	8-Φ 19	29
ZS200-150-64R	1755	870	770	580	68	100	270	4-Φ 36	412	453	400	545	350	340	295	12-Φ 23	40	320	270	12-Φ 22	40
ZS250-200-58R	1600	870	770	580	68	100	270	4-Φ 36	490	330	415	530	610	457	406	8-Φ 23	48	368	324	8-Φ 19	40
ZS250-200-64S	1750	920	760	640	70	100	190	4-Φ 36	400	280	400	600	630	457	406	8-Φ 23	45	368	324	8-Φ 19	40
ZS250-200-73T	1780	920	820	825	90	100	250	4-Φ 36	455	330	475	620	450	457	406	8-Φ 23	45	368	324	8-Φ 19	40
ZS250-200-78S	2156	920	760	640	70	100	250	4-Φ 36	455	350	475	680	450	390	345	8-Φ 23	45	335	295	8-Φ 22	40
ZS300-250-73S	2010	920	760	640	70	100	250	4-Φ 36	475	355	520	850	665	527	470	12-Φ 23	48	457	406	8-Φ 22	40
ZS300-250-97T	2070	920	820	825	90	100	250	4-Φ 36	475	355	520	850	665	527	470	12-Φ 23	48	457	406	12-Φ 19	45
ZS350-300-92S	2100	920	760	640	70	150	250	4-Φ 36	502	424	610	851	787	552	495	12-Φ 23	48	527	470	12-Φ 22	48
ZS400-350-130T	2360	920	820	825	90	150	350	4-Φ 36	649	448	765	1008	900	650	600	12-Φ 28	72	600	540	12-Φ 28	82



## 湖北扬子江泵业有限责任公司

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