

JG-INDUSTRIES

石 家 庄 精 工 水 泵 有 限 公 司

SHIJIAZHUANG SEIKO PUMPS CO.,LTD



品质稳固 专业承诺

博大精深——致力开拓与创新

Profound & Intensive Devote to Exploration and Innovation



精诚团结 科技创新

United with good faith, innovate with scientific technology

敬业务实 步步领先

Respect work and deal with concrete matters, lead step by step

力争上游 造福社会

Do all one can to go upward, benefit the society

勇于攀登 超越自我

Brave in climbing, surmount self



## 公司简介 ✓

石家庄精工水泵有限公司是国内大型工业泵专业制造企业，公司是集科研、设计、制造、销售、服务于一体的渣浆泵、污水泵、清水泵等大型综合性泵业公司，是国内渣浆泵行业的龙头企业。我公司是生产高效耐磨渣浆泵、脱硫泵、挖泥泵、抽砂泵、泥浆泵等杂质泵整机及配件的省级机械系统先进企业，市属骨干企业。公司下设铸造车间、机加工车间、锻焊车间、热处理车间、总装车间、检测性能实验室及成品库、备件库等。经过多年的市场开拓，我公司已经形成较为强大的市场辐射面。产品遍及全国30个省、市的电力、航道疏浚、煤炭、冶金、化工等行业；国际市场的占有份额不断提升，产品已出口北美、南美、欧洲、非洲、东南亚、中亚、北亚、东亚以及中东等五十多个国家和地区。

石家庄精工水泵有限公司在杂质泵的研制和应用方面有着多年的经验，在不断吸收国内外先进技术的基础上形成了性能范围覆盖面完善的产品系列。生产的渣浆泵系列主要有ZJ系列、ZJL系列、ZJD系列、MS系列、HS系列、LS系列；电厂浆液循环泵系列主要有TL/TLR系列、DT系列；船用泵系列：GS系列砂砾泵、WN系列挖泥泵；FGD辅助系统用泵有WFB系列、IH系列、IR系列、IHF系列、GC系列、D/DG系列等产品。

您的满意一直是我们的追求。公司非常注重服务与技术、服务与业务的结合，实现增值服务。随着企业的稳健发展，石家庄精工水泵有限公司建立和完善了销售服务网络，如今公司产品正高效的运行在诸如：国电电力、华电电力、大唐电力、首钢钢厂、鞍钢矿业、淮北矿业等全国重点工程项目和标志性建筑上。

石家庄精工水泵有限公司愿以优质的产品、完善的服务、良好的信誉为客户服务。愿与您共勉，真诚合作；为推动社会进步，创造市场繁荣而不懈努力。



# Company Profile

Shijiazhuang Seiko Pumps Co. Limited is a professional manufacturing corporate of large domestic industrial pumps, the company is a research, design, manufacture, sales and service in one slurry pump, sewage pump, water pump, and other large-scale comprehensive pump company, is a leading corporate in slurry pump industry of domestic. The company is a provincial advanced corporate of mechanical systems to produce efficient wear-resistant slurry pump, desulphurization pump, dredging pump, gravel pump, mud pump and other impurities pump machine and accessories, is the city-owned backbone corporate. Companies consists of foundry workshop, machine workshop, forges welding workshop, heat treatment workshop, assembly workshop, the laboratory of detection performance and finished products, spare parts shop. After years of market development, the company has formed a strong market. Its products are popular among all places of China and they are exported to over fifty countries and districts, such as the south of America, the north of America, East Asia, West Asia, and Africa.

Shijiazhuang Seiko Pumps Co. Limited has many years of experience in the development and application of the impurities pump, The production of slurry pump series : ZJ series, ZJL series, ZJD Series, MS Series, HS Series, LS Series; The power plant slurry circulating pump series : TLR / TLR Series, DT Series; Marine pumps Series: GS series gravel pump, WN Series Dredging pump; FGD pumps: WFB series, IH Series, IR Series, IHF Series, GC Series and D / DG series.

Your satisfaction is our pursuit. Company has great emphasis on service and combination of technologies, services and business to achieve value-added services. Shijiazhuang Seiko Pumps Co. Limited has established and improved the sales and service network with the steady development, the company's products are now efficient operation on the national key projects and landmark buildings, such as: GD Power, Huadian Power, Datang Power, Shougang Steel, Anshan Iron and Steel Mining and Huaibei mining

Shijiazhuang Seiko Pumps Co. Limited willing to provide customers with high-quality products, perfect service, good reputation, willing to work with you to encourage each other, and cooperate in good faith, unremitting efforts to promote social progress and create market prosperity.

# HS 型渣浆泵

## HS Slurry Pump

### 概述General

为了满足电力、冶金、煤炭等行业发展的需要，针对除灰渣及渣浆输送工况的特点，在几十年渣浆泵设计制造经验基础上，广泛吸取国内外先进技术和研制成果，开发了我国最新一代大流量、高扬程、可多级串联的HS系列渣浆泵。该系列产品的主要技术特点如下：

- ★采用现代CAD设计方法，水利性能优良，效率高和磨损率低；
- ★流道宽畅，抗堵塞性能好，气蚀性能优越；
- ★采用付叶轮加填料组合式密封和机械密封，确保渣浆无泄露；
- ★可靠性设计，保证了整机平均无故障工作时间(MTBF)大幅度提高；
- ★采用稀油润滑公制轴承，合理设置润滑与冷却系统，保证轴承在低温状态下运行；
- ★过流部件采用特殊材质，耐磨耐腐蚀性能好；
- ★经特殊处理，用于海水除灰及海水和盐雾电化学腐蚀工况；
- ★在允许的压力范围内可以多级串联使用。其允许最大工作压力为3.6MPa。

该系列渣浆泵产品具有结构合理、效率高、运行可靠和维修方便等优点。广泛适用于电力、冶金、矿山、煤炭、建材、化工等工业部门输送磨蚀性或腐蚀性渣浆，特别是电厂灰渣。

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

- CAD model design, super hydraulic performance, high efficiency and lower abrasion rate;
- Wide passage, non-clogging and good performance of NPSH;
- Expeller seal combined with packing seal and mechanical seal have be adopted to guarantee the slurry from leakages;
- Reliability design ensures long MTBF(mean time between events);
- The metric bearing with oil lubrication, reasonable lubrication and cooling systems ensure the bearing to be operated under the low temperature;
- The materials of wet pads have the good performance of anti-wearing and anti-corrosion;
- The pump can be used for seawater ash-removing to prevent it from the corrosion of seawater, salt and mist, and electrochemical carrion;
- The pump can be operated in series with multi-stage within permissible pressure.
- The permissible maximum working pressure is 3.6MPa.

The series of pump has the advantages of reasonable construction, high efficiency, reliable operation and easy maintenance. It can be widely used for handing the mixture contained of abrasive and corrosive solids in electric power, metallurgy, mine, coal, constructional material and chemical industry departments, especial for removing ash and sludge in electric power station.



# 型号意义Notation

例如:

100 HS-450 (P)

多级串联(一、二级无标记)

叶轮名义直径(mm)

高扬程重型渣浆泵

排出口直径(mm)

100 HS-450 (P)

Multi-stage pumps

(1-2 stage without the mark)

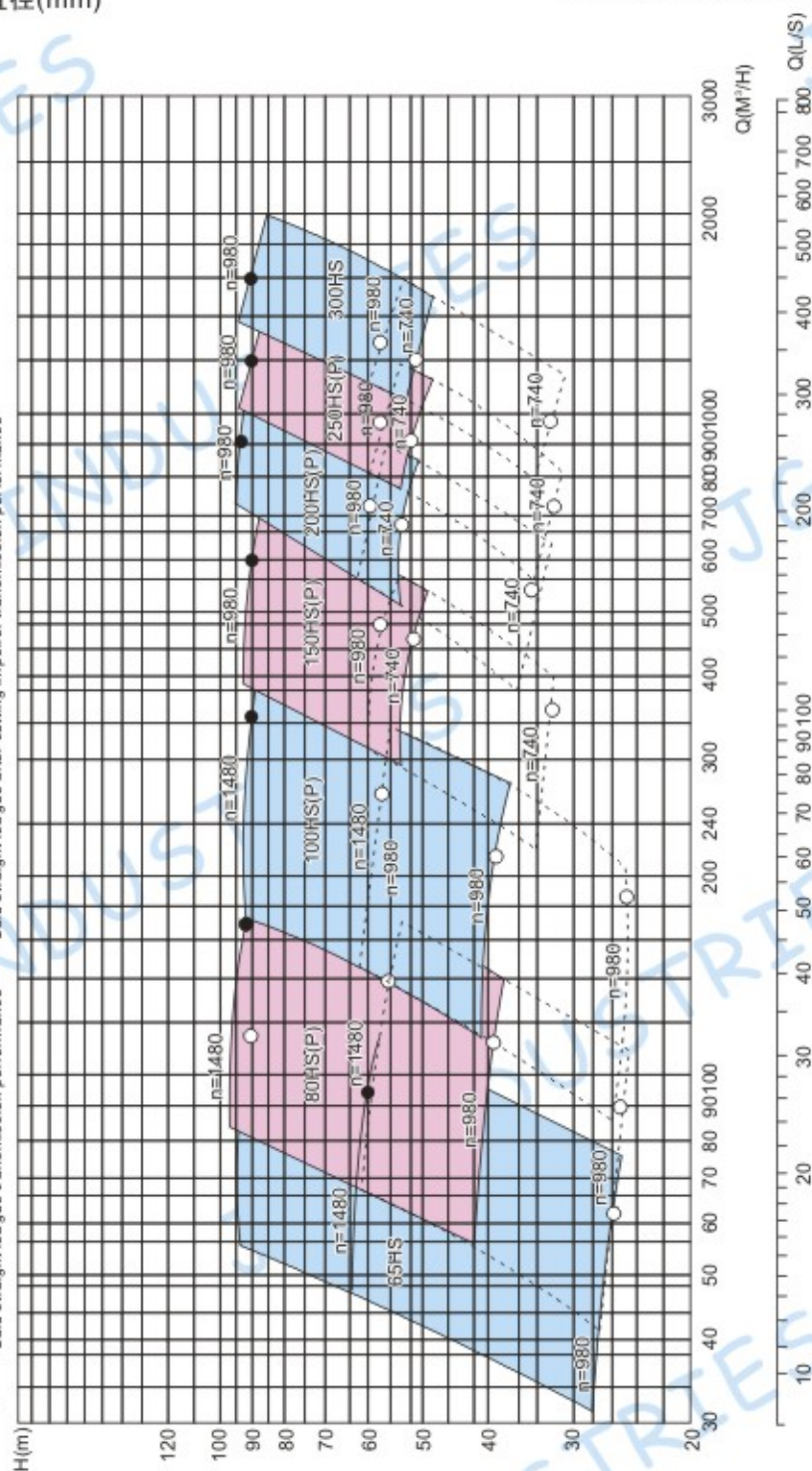
Impeller nominal diameter(mm)

Heavy Duty Slurry Pump

Outlet Diameter(mm)

## HS型渣浆泵选型谱图 HS Pump Selection Chart

●表示规定点 ○表示规定点改变转速或切削叶轮外径后的性能点  
●According to provisions of point ○ Said rules change speed or performance point after cutting impeller outside diameter  
——表示直联传动性能 - - - - 表示切削叶轮后的直联传动性能  
—— Said straight league after cutting impeller transmission performance - - - - Said straight league after cutting impeller transmission performance



## 产品特点 Application And Feature

HS(P)系列渣浆泵为卧式、单级、单吸、悬臂、双泵壳、离心式渣浆泵。

相同口径的HS和HSP型渣浆泵的过流部件可以互换，外形安装尺寸相同。HS(P)系列渣浆泵的传动部分采用水平中开式稀油润滑托架，并设有内外两组水冷却系统。必要时可加冷却水。预留的冷却水接口、冷却水压力参考表1。

HS(P)系列渣浆泵的轴封型式有两种：付叶轮加填料组合式密封和机械密封。

凡串联渣浆泵(二级或二级以上)建议采用有高压轴封水的机械密封。单级或串联一级采用付叶轮加填料组合式密封。

各种轴封型式的轴封水压、水量如下：

### 1.轴封水压

●对于单级(或串联一级)采用填料加付叶轮组合式密封，轴封水压力一般为0.2-0.3MPa。

●对于多级串联采用填料加付叶轮组合式密封，二级和二级以上轴封水最低压力一般为：

$$P_n = \sum_{i=1}^{n-1} H_i + 0.7H_n, \text{ 其中 } n \geq 2; H_i \text{ 为第 } i \text{ 级泵扬程; } H_n \text{ 为第 } n \text{ 级泵扬程。}$$

●对采用机械密封，各级泵的轴封水压力一般要求比泵出口压力大0.1Mpa。

### 2.轴封水量(见表1)

The series HS(P) slurry pump is of horizontal, single-stage, single-suction, cantilever, double-casing, centrifugal slurry pump. The pump rotates in clockwise viewed from the drive end.

The wet parts of HS and HSP pump at the same outlet diameter can be interchangeable. Their outline installation dimensions are one and the same. For the drive part of the series HS(P) slurry pump, the horizontal split frame with oil lubrication and two sets of water cooling systems inside and outside has been adopted. If necessary, cooling water can be supplied. The prepared joint for cooling water and the pressure of the cooling water can be seen in table 1.

Two kinds of shaft seal-expeller seal combined with packing and mechanical seal have been used for series HS(P) slurry pump.

The mechanical seal supplied with high pressure sealing water is recommended when the slurry pump is operated in series (two stages and above two stages), and the expelled seal combined with packing is used in single-stage pump.

The water pressure and amount of all kinds of the shaft seal is as follows:

#### 1) Sealing water pressure

For single-stage pump with the expelled seal combined with packing, the water pressure of the shaft seal is 0.2-0.3Mpa.

For the multi-stage(two and above two stages) in series operation with the expelled seal combined with packing, the sealing water pressure should be:

$$\text{The lowest sealing water pressure of } n \text{ stage} = \sum_{i=1}^{n-1} H_i + 0.7H_n \text{ where: } n \geq 2.$$

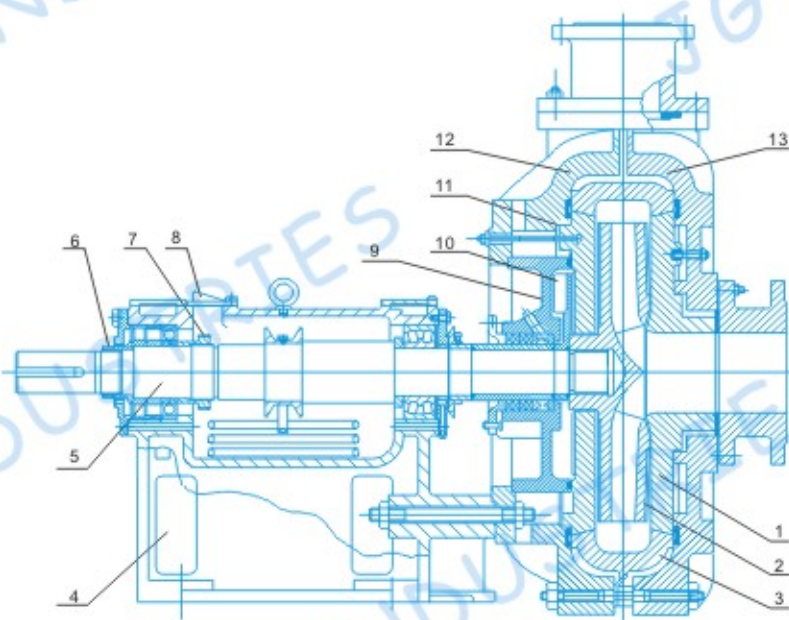
For the mechanical seal, the sealing water pressure of every stage of pump is higher 0.1MPa than the pressure at the outlet of pump.

#### 2) Sealing water pressure (see table 1)

| 泵型号<br>Pump type | 托架<br>Frame | 轴封水量(l/s)<br>Sealing water | 轴封水接口<br>Sealing water joint | 托架冷却水接口<br>Cooling water joint in frame | 托架冷却水压口<br>Cooling water pressure |
|------------------|-------------|----------------------------|------------------------------|-----------------------------------------|-----------------------------------|
| 65HS             | 320         | 0.5                        | 1/4"                         | 1/2" 3/8"                               | 0.05-0.2MPa                       |
| 80HS<br>100HS    | 406         | 0.7                        | 1/2"                         | 1/2" 3/4"                               |                                   |
| 80HSP<br>100HSP  | 406A        |                            |                              |                                         |                                   |
| 150HS<br>200HS   | 565         | 1.2                        | 1/2"                         | 3/4" 3/4"                               |                                   |
| 150HSP<br>200HSP | 565A        |                            |                              |                                         |                                   |
| 250HS<br>300HS   | 743         |                            | 1"                           |                                         |                                   |
| 250HSP           | 743A        |                            |                              |                                         |                                   |

## HS型渣浆泵结构图

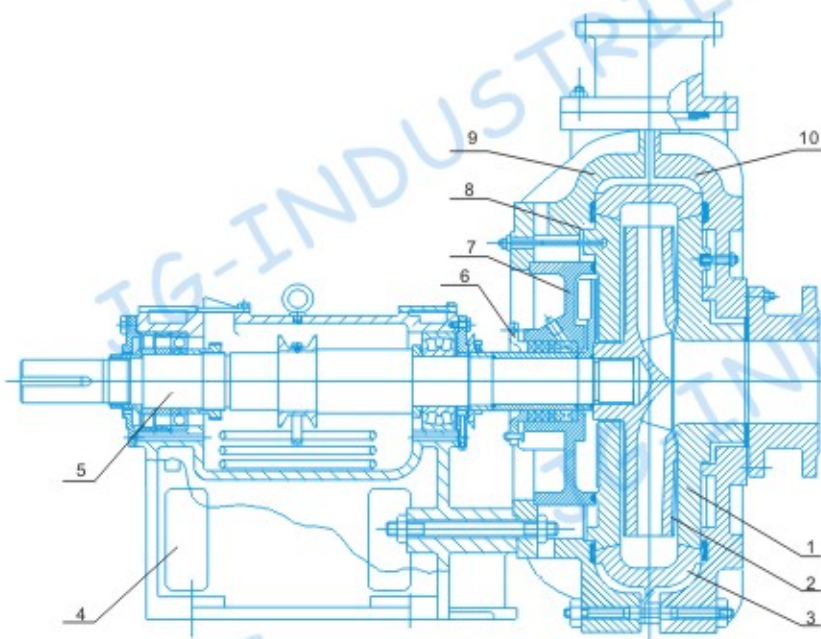
## The Installation Drawing of HS Slurry Pumps



- 1、前护板Front liner insert
- 2、叶 轮Impeller
- 3、护 套Volute
- 4、托架体Frame body
- 5、轴Shaft
- 6、螺母乙Adjusting screw(b)
- 7、调整螺母甲Adjusting screw(a)
- 8、调整孔盖Adjusting cover
- 9、减压盖Expeller ring
- 10、付叶轮Expeller
- 11、后护板Back liner insert
- 12、泵 体Pump body
- 13、泵 盖Pump cover

## HSP型渣浆泵结构图

## The Installation Drawing of HSP Slurry Pumps



- 1、前护板Front liner insert
- 2、叶 轮Impeller
- 3、护 套Volute
- 4、托架体Frame body
- 5、轴Shaft
- 6、机械密封Mechanical seal
- 7、密封箱Sealing box
- 8、后护板Back liner insert
- 9、泵 体Pump body
- 10、泵 盖Pump cover

HS型渣浆泵性能参数 Type HS selection performance

表1

| 泵型号<br>Pump<br>Type | 清水性能 Clear Water Performance |                              |                        |                              |                                        | 轴功率<br>Shaft<br>Power<br>Pa<br>(KW) | 配套电机型号<br>(功率/电压)<br>Motor Type<br>Power/Volt | 叶轮直径<br>Impeller<br>Diameter<br>(mm) | 泵重量<br>Pump<br>Weight<br>(kg) | 排出口直径                            |                       |
|---------------------|------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------|--------------------------------------|-------------------------------|----------------------------------|-----------------------|
|                     | 转速<br>Speed<br>n<br>(r/min)  | 流量<br>Capacity<br>Q<br>(l/s) | 扬程<br>Head<br>H<br>(m) | 效率<br>Efficiency<br>η<br>(%) | 汽蚀<br>余量<br>(NPSH) <sub>r</sub><br>(m) |                                     |                                               |                                      |                               | 吸入口直径<br>Outlet<br>Inlet<br>(mm) |                       |
| 65HS                | 1480                         | 31.7                         | 58                     | 62.5                         | 4.5                                    | 28.8                                | Y250M-4, 45KW/380V                            | 390                                  | 1850                          | 65<br>85                         |                       |
|                     |                              | 26.4                         | 60                     | 59.8                         | 3.7                                    | 25.9                                | Y225M-4, 45KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 15.8                         | 61                     | 47.4                         | 3.0                                    | 19.9                                | Y200L-4, 30KW/380V                            |                                      |                               |                                  |                       |
|                     | 980                          | 21.0                         | 25.4                   | 62.5                         | 2.0                                    | 8.37                                | Y180L-6, 151KW/380V                           |                                      |                               |                                  |                       |
|                     |                              | 17.5                         | 26.3                   | 59.8                         | 1.8                                    | 7.5                                 | Y180L-6, 151KW/380V                           |                                      |                               |                                  |                       |
|                     |                              | 10.5                         | 26.7                   | 47.4                         | 1.3                                    | 5.8                                 | Y160L-6, 11KW/380V                            |                                      |                               |                                  |                       |
| 80HS(P)             | 1480                         | 56.7                         | 87.5                   | 66.1                         | 5.2                                    | 73.7                                | Y315M1-4, 132KW/380V                          | 485                                  | 2500                          | 80<br>100                        |                       |
|                     |                              | 47.2                         | 90.0                   | 63                           | 4.1                                    | 66.1                                | Y315S-4, 1101KW/380V                          |                                      |                               |                                  |                       |
|                     |                              | 28.3                         | 91.6                   | 48.7                         | 2.7                                    | 52.2                                | Y280M-4, 90KW/380V                            |                                      |                               |                                  |                       |
|                     | 980                          | 37.5                         | 38.4                   | 66.1                         | 2.3                                    | 21.4                                | Y2509D-6, 37KW/380V                           |                                      |                               |                                  |                       |
|                     |                              | 31.3                         | 39.5                   | 63                           | 1.8                                    | 19.2                                | Y225M-6, 30KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 18.8                         | 40.2                   | 48.7                         | 1.2                                    | 15.2                                | Y225M-6, 30KW/380V                            |                                      |                               |                                  |                       |
|                     | 1480                         | 52.0                         | 73.7                   | 66.1                         | 4.4                                    | 56.8                                | Y280M-4, 90KW/380V                            | 445                                  |                               |                                  |                       |
|                     |                              | 43.3                         | 75.8                   | 63                           | 3.5                                    | 51.1                                | Y280S-4, 75KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 26.0                         | 77.1                   | 48.7                         | 2.3                                    | 40.4                                | Y280S-4, 75KW/380V                            |                                      |                               |                                  |                       |
|                     | 980                          | 34.4                         | 32.3                   | 66.1                         | 1.9                                    | 16.5                                | Y225M-6, 30KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 28.7                         | 33.2                   | 63                           | 1.5                                    | 14.8                                | Y200L2-6, 22KW/380V                           |                                      |                               |                                  |                       |
|                     |                              | 17.2                         | 33.8                   | 48.7                         | 1.0                                    | 11.7                                | Y200L1-6, 18.5KW/380V                         |                                      |                               |                                  |                       |
|                     | 1480                         | 46.8                         | 59.5                   | 66.1                         | 3.5                                    | 41.3                                | Y250S-4, 75KW/380V                            | 400                                  |                               |                                  |                       |
|                     |                              | 38.9                         | 61.2                   | 63                           | 2.8                                    | 37.0                                | Y250M-4, 55KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 23.3                         | 62.3                   | 48.7                         | 1.8                                    | 29.2                                | Y250M-4, 55KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 980                          | 31.0                   | 26.1                         | 66.1                                   | 1.5                                 | 12.0                                          |                                      |                               |                                  | Y200L1-6, 18.5KW/380V |
|                     |                              |                              | 25.8                   | 26.8                         | 63                                     | 1.2                                 | 10.8                                          |                                      |                               |                                  | Y200L1-6, 18.5KW/380V |
|                     |                              |                              | 15.4                   | 27.3                         | 48.7                                   | 0.8                                 | 8.4                                           |                                      |                               |                                  | Y180L-6, 15KW/380V    |
| 100HS(P)            | 1480                         | 116.7                        | 85.1                   | 77.9                         | 6.0                                    | 124.9                               | Y315L2-4, 200KW/380V                          | 500                                  | 3000                          | 100<br>152                       |                       |
|                     |                              | 97.2                         | 88.2                   | 74.4                         | 3.8                                    | 113.0                               | Y315L4, 185KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 58.3                         | 91.8                   | 57.4                         | 2.6                                    | 91.4                                | Y315M2-4, 160KW/380V                          |                                      |                               |                                  |                       |
|                     | 980                          | 77.3                         | 37.3                   | 77.9                         | 2.7                                    | 36.3                                | Y280M-6, 55KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 64.4                         | 38.7                   | 74.4                         | 1.7                                    | 32.8                                | Y280M-6, 55KW/380V                            |                                      |                               |                                  |                       |
|                     |                              | 38.6                         | 40.3                   | 57.4                         | 1.2                                    | 26.6                                | Y280S-6, 45KW/380V                            |                                      |                               |                                  |                       |
|                     | 1480                         | 105                          | 68.9                   | 77.9                         | 4.9                                    | 91.0                                | Y315M2-4, 160KW/380V                          | 450                                  |                               |                                  |                       |
|                     |                              | 87.5                         | 71.4                   | 74.4                         | 3.1                                    | 82.3                                | Y315M1-4, 132KW/380V                          |                                      |                               |                                  |                       |
|                     |                              | 52.5                         | 74.4                   | 57.4                         | 2.1                                    | 66.7                                | Y315S-4, 110KW/380V                           |                                      |                               |                                  |                       |

HS型渣浆泵性能参数 Type HS selection performance

表2

| 泵型号<br>Pump<br>Type | 清水性能 Clear Water Performance |                              |                        |                              |                                        | 轴功率<br>Shaft<br>Power<br>Pa<br>(KW) | 配套电机型号<br>(功率/电压)<br>Motor Type<br>Power/Volt | 叶轮直径<br>Impeller<br>Diameter<br>(mm) | 泵重量<br>Pump<br>Weight<br>(kg) | 排出口直径                            |                     |
|---------------------|------------------------------|------------------------------|------------------------|------------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------|--------------------------------------|-------------------------------|----------------------------------|---------------------|
|                     | 转速<br>Speed<br>n<br>(r/min)  | 流量<br>Capacity<br>Q<br>(l/s) | 扬程<br>Head<br>H<br>(m) | 效率<br>Efficiency<br>η<br>(%) | 汽蚀<br>余量<br>(NPSH) <sub>r</sub><br>(m) |                                     |                                               |                                      |                               | 吸入口直径<br>Outlet<br>Inlet<br>(mm) |                     |
| 100HS(P)            | 980                          | 69.5                         | 30.2                   | 77.9                         | 2.1                                    | 26.4                                | Y280S-6, 45KW/380V                            | 450                                  | 3000                          | 100<br>152                       |                     |
|                     |                              | 57.9                         | 31.3                   | 74.4                         | 1.7                                    | 23.9                                | Y250M-6, 37KW/380V                            |                                      |                               |                                  |                     |
|                     |                              | 34.8                         | 32.6                   | 57.4                         | 1.1                                    | 19.4                                | Y225M-6, 30KW/380V                            |                                      |                               |                                  |                     |
|                     | 1480                         | 93.4                         | 54.5                   | 77.9                         | 3.8                                    | 64.0                                | Y315S-4, 110KW/380V                           |                                      |                               |                                  |                     |
|                     |                              | 77.8                         | 56.4                   | 74.4                         | 2.4                                    | 57.8                                | Y280M-4, 90KW/380V                            |                                      |                               |                                  |                     |
|                     |                              | 46.7                         | 58.8                   | 57.4                         | 1.7                                    | 46.9                                | Y280S-4, 75KW/380V                            |                                      |                               |                                  |                     |
|                     | 980                          | 61.8                         | 23.9                   | 77.9                         | 1.7                                    | 18.6                                | Y225M-6, 30KW/380V                            | 400                                  |                               |                                  |                     |
|                     |                              | 51.5                         | 24.7                   | 74.4                         | 1.1                                    | 16.8                                | Y225M-6, 30KW/380V                            |                                      |                               |                                  |                     |
|                     |                              | 30.9                         | 25.8                   | 57.4                         | 0.8                                    | 13.6                                | Y200L2-6, 22KW/380V                           |                                      |                               |                                  |                     |
| 150HS(P)            | 980                          | 200                          | 85.2                   | 77.7                         | 3.8                                    | 215.0                               | Y400-6, 355KW/6KV                             | 740                                  | 3450                          | 150<br>200                       |                     |
|                     |                              | 167.0                        | 87.5                   | 70.0                         | 3.5                                    | 204.7                               | Y400-6, 315KW/6KV                             |                                      |                               |                                  |                     |
|                     |                              | 100.0                        | 90.0                   | 53.3                         | 2.7                                    | 165.5                               | Y400-6, 280KW/6KV                             |                                      |                               |                                  |                     |
|                     | 740                          | 151.2                        | 48.6                   | 77.7                         | 2.2                                    | 92.7                                | Y355M2-8, 160KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 126.0                        | 49.9                   | 70.0                         | 2.0                                    | 88.1                                | Y355M2-8, 160KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 75.6                         | 51.3                   | 53.3                         | 1.5                                    | 71.3                                | Y355M1-8, 132KW/380V                          |                                      |                               |                                  |                     |
|                     | 980                          | 182.4                        | 73.0                   | 77.7                         | 3.3                                    | 168.0                               | Y400-6, 280KW/6KV                             | 685                                  |                               |                                  |                     |
|                     |                              | 152.0                        | 75.0                   | 70.0                         | 3.0                                    | 159.7                               | Y355L2-6, 250KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 91.2                         | 77.1                   | 53.3                         | 2.3                                    | 129.3                               | Y355L1-6, 220KW/380V                          |                                      |                               |                                  |                     |
|                     | 740                          | 140.0                        | 41.6                   | 77.7                         | 1.9                                    | 74.2                                | Y355M1-8, 132KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 117.0                        | 42.8                   | 70.0                         | 1.7                                    | 70.1                                | Y315M3-8, 110KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 70.2                         | 44.0                   | 53.3                         | 1.3                                    | 56.8                                | Y315M2-8, 90KW/380V                           |                                      |                               |                                  |                     |
|                     | 980                          | 169.2                        | 61.8                   | 77.7                         | 2.8                                    | 131.9                               | Y355L1-6, 220KW/380V                          | 630                                  |                               |                                  |                     |
|                     |                              | 141.0                        | 63.4                   | 70.0                         | 1.5                                    | 125.2                               | Y355M3-6, 200KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 84.6                         | 65.2                   | 53.3                         | 1.1                                    | 101.5                               | Y355M1-6, 160KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 740                          | 129.6                  | 35.2                         | 77.7                                   | 1.6                                 | 57.6                                          |                                      |                               |                                  | Y315M2-8, 90KW/380V |
|                     |                              |                              | 108.0                  | 36.1                         | 70.0                                   | 0.9                                 | 54.6                                          |                                      |                               |                                  | Y315M2-8, 90KW/380V |
|                     |                              |                              | 64.8                   | 37.2                         | 53.3                                   | 0.6                                 | 44.3                                          |                                      |                               |                                  | Y315M1-8, 75KW/380V |
| 200HS(P)            | 980                          | 300.0                        | 89.0                   | 76.3                         | 6.7                                    | 342.9                               | Y450-6, 560KW/6KV                             |                                      | 740                           | 4000                             | 200<br>250          |
|                     |                              | 250.0                        | 93.4                   | 73.7                         | 5.6                                    | 310.5                               | Y450-6,560KW/6KV                              |                                      |                               |                                  |                     |
|                     |                              | 150.0                        | 94.2                   | 63.2                         | 2.7                                    | 219.1                               | Y400-6, 355KW/6KV                             |                                      |                               |                                  |                     |
|                     | 740                          | 226.5                        | 50.7                   | 76.3                         | 3.8                                    | 147.5                               | Y400-8, 220KW/6KV                             |                                      |                               |                                  |                     |
|                     |                              | 188.5                        | 53.3                   | 73.7                         | 3.2                                    | 134.3                               | Y355L2-8, 200KW/380V                          |                                      |                               |                                  |                     |
|                     |                              | 113.3                        | 53.7                   | 63.2                         | 1.5                                    | 94.3                                | Y355M2-8, 160KW/380V                          |                                      |                               |                                  |                     |
|                     |                              |                              |                        |                              |                                        |                                     |                                               |                                      |                               |                                  |                     |

HS型渣浆泵性能参数 Type HS selection performance

表3

| 泵型号<br>Pump Type | 清水性能 Clear Water Performance |                        |                  |                             |                                 | 轴功率<br>Shaft Power Pa (KW) | 配套电机型号<br>(功率/电压)<br>Motor Type Power/Volt | 叶轮直径<br>Impeller Diameter (mm) | 泵重量<br>Pump Weight (kg) | 排出口直径                         |
|------------------|------------------------------|------------------------|------------------|-----------------------------|---------------------------------|----------------------------|--------------------------------------------|--------------------------------|-------------------------|-------------------------------|
|                  | 转速<br>Speed n (r/min)        | 流量<br>Capacity Q (l/s) | 扬程<br>Head H (m) | 效率<br>Efficiency $\eta$ (%) | 汽蚀余量<br>(NPSH) <sub>r</sub> (m) |                            |                                            |                                |                         | 吸入口直径<br>Outlet Inlet (mm)    |
| 200HS(P)         | 980                          | 283.8                  | 79.6             | 76.3                        | 6.0                             | 290.2                      | Y450-6, 45KW/6KV                           | 700                            | 4000                    | <div>200</div> <div>250</div> |
|                  |                              | 236.5                  | 83.4             | 73.7                        | 5.0                             | 262.3                      | Y400-6, 400KW/6KV                          |                                |                         |                               |
|                  |                              | 141.9                  | 84.3             | 63.2                        | 2.4                             | 185.8                      | Y400-6, 280KW/6KV                          |                                |                         |                               |
|                  | 740                          | 214.3                  | 45.4             | 76.3                        | 3.4                             | 125.0                      | Y355L2-8, 200KW/380V                       |                                |                         |                               |
|                  |                              | 178.6                  | 47.6             | 73.7                        | 2.9                             | 113.0                      | Y355L1-8, 185KW/380V                       |                                |                         |                               |
|                  |                              | 107.1                  | 48.1             | 63.2                        | 1.4                             | 80.0                       | Y315M1-8, 132KW/380V                       |                                |                         |                               |
|                  | 980                          | 259.5                  | 66.6             | 76.3                        | 5.0                             | 222.0                      | Y400-6, 355KW/6KV                          | 640                            |                         |                               |
|                  |                              | 216.2                  | 69.9             | 73.7                        | 4.2                             | 210.0                      | Y400-6, 315KW/6KV                          |                                |                         |                               |
|                  |                              | 129.7                  | 70.5             | 63.2                        | 2.0                             | 141.8                      | Y355L1-6, 220KW/380V                       |                                |                         |                               |
|                  | 740                          | 195.9                  | 38.0             | 76.3                        | 2.9                             | 95.6                       | Y355M2-8, 160KW/380V                       |                                |                         |                               |
|                  |                              | 134.9                  | 39.9             | 73.7                        | 2.4                             | 71.6                       | Y315M3-8, 110KW/380V                       |                                |                         |                               |
|                  |                              | 97.9                   | 40.2             | 63.2                        | 1.1                             | 61.0                       | Y315M3-8, 110KW/380V                       |                                |                         |                               |
| 250HS(P)         | 980                          | 400.0                  | 84.0             | 78.2                        | 7.3                             | 421.2                      | Y450-6, 630KW/6KV                          | 740                            | 4500                    | <div>250</div> <div>300</div> |
|                  |                              | 333.3                  | 88.0             | 77.0                        | 5.7                             | 373.4                      | Y450-6, 560KW/6KV                          |                                |                         |                               |
|                  |                              | 200.0                  | 90.1             | 64.1                        | 3.3                             | 275.6                      | Y450-6, 450KW/6KV                          |                                |                         |                               |
|                  | 740                          | 302.0                  | 47.9             | 78.2                        | 4.2                             | 181.4                      | Y400-8, 280KW/6KV                          |                                |                         |                               |
|                  |                              | 251.7                  | 50.2             | 77.0                        | 3.3                             | 160.9                      | Y400-8, 250KW/6KV                          |                                |                         |                               |
|                  |                              | 151.0                  | 51.4             | 64.1                        | 1.9                             | 118.7                      | Y355L1-8, 185KW/380V                       |                                |                         |                               |
|                  | 980                          | 378.4                  | 75.2             | 78.2                        | 7.1                             | 356.7                      | Y450-6, 560KW/6K                           | 700                            |                         |                               |
|                  |                              | 315.3                  | 78.7             | 77.0                        | 5.1                             | 315.9                      | Y450-6, 500KW/6KV                          |                                |                         |                               |
|                  |                              | 189.2                  | 80.6             | 64.1                        | 3.0                             | 233.2                      | Y400-6, 355KW/6KV                          |                                |                         |                               |
|                  | 740                          | 285.7                  | 42.9             | 78.2                        | 4.0                             | 153.7                      | Y400-8, 250KW/6KV                          |                                |                         |                               |
|                  |                              | 238.1                  | 44.9             | 77.0                        | 2.9                             | 136.1                      | Y400-8, 220KW/6KV                          |                                |                         |                               |
|                  |                              | 142.9                  | 46.0             | 64.1                        | 1.7                             | 100.5                      | Y355M2-8, 160KW/380V                       |                                |                         |                               |
|                  | 980                          | 348.6                  | 63.8             | 78.2                        | 5.5                             | 278.8                      | Y450-6, 450KW/6KV                          | 645                            |                         |                               |
|                  |                              | 290.5                  | 66.9             | 77.0                        | 4.3                             | 247.4                      | Y400-6, 400KW/6KV                          |                                |                         |                               |
|                  |                              | 131.6                  | 68.5             | 64.1                        | 2.5                             | 137.9                      | Y355L1-6, 220KW/380V                       |                                |                         |                               |
|                  | 740                          | 263.2                  | 36.4             | 78.2                        | 3.1                             | 120.1                      | Y355L1-8, 185KW/380V                       |                                |                         |                               |
|                  |                              | 219.4                  | 38.1             | 77.0                        | 2.5                             | 106.4                      | Y355L1-8, 185KW/380V                       |                                |                         |                               |
|                  |                              | 99.4                   | 39.1             | 64.1                        | 1.4                             | 59.4                       | Y315M3-8, 110KW/380V                       |                                |                         |                               |

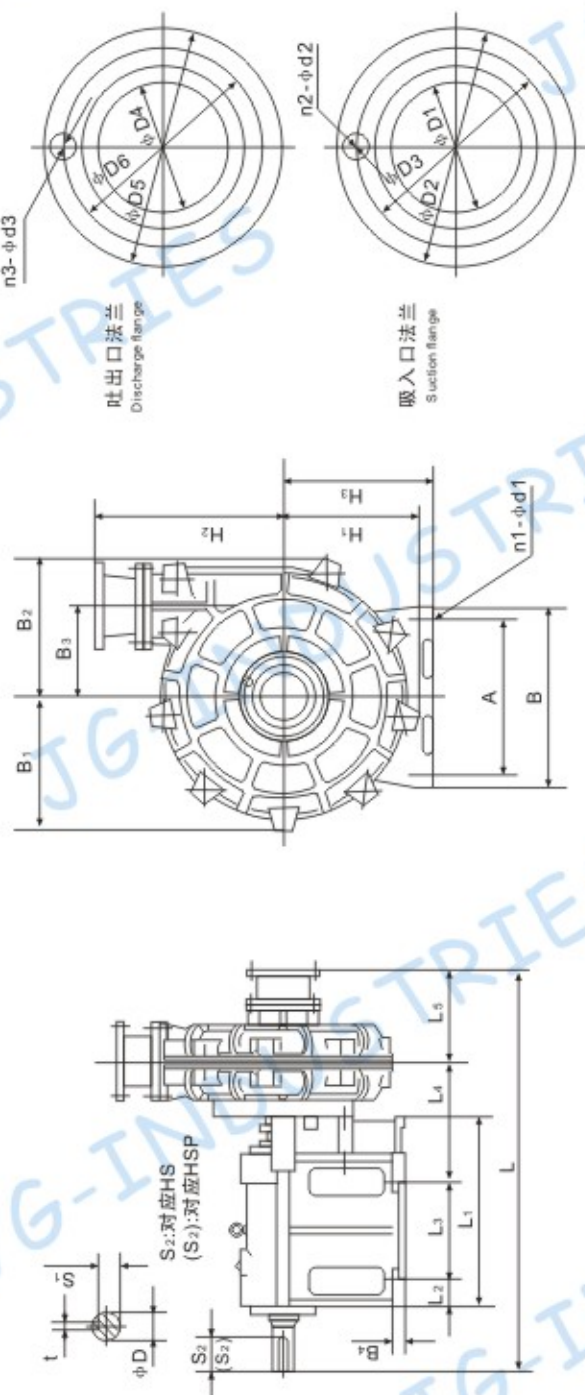
HS型渣浆泵性能参数 Type HS selection performance

表4

| 泵型号<br>Pump<br>Type | 清水性能 Clear Water Performance |                              |                        |                              |                            | 轴功率<br>Shaft<br>Power<br>Pa<br>(KW) | 配套电机型号<br>(功率/电压)<br>Motor Type<br>Power/Volt | 叶轮直径<br>Impeller<br>Diameter<br>(mm) | 泵重量<br>Pump<br>Weight<br>(kg) | 排出口直径                            |
|---------------------|------------------------------|------------------------------|------------------------|------------------------------|----------------------------|-------------------------------------|-----------------------------------------------|--------------------------------------|-------------------------------|----------------------------------|
|                     | 转速<br>Speed<br>n<br>(r/min)  | 流量<br>Capacity<br>Q<br>(l/s) | 扬程<br>Head<br>H<br>(m) | 效率<br>Efficiency<br>η<br>(%) | 汽蚀<br>余量<br>(NPSH)r<br>(m) |                                     |                                               |                                      |                               | 吸入口直径<br>Outlet<br>Inlet<br>(mm) |
| 300HS               | 980                          | 533.3                        | 84.3                   | 81.2                         | 6.9                        | 542.8                               | Y500-6, 710KW/6KV                             | 760                                  | 5500                          | 300<br>350                       |
|                     |                              | 444.4                        | 89.8                   | 80.0                         | 5.0                        | 489.1                               | Y500-6, 710KW/6KV                             |                                      |                               |                                  |
|                     |                              | 266.7                        | 93.4                   | 68.3                         | 3.5                        | 357.6                               | Y450-6, 560KW/6KV                             |                                      |                               |                                  |
|                     | 740                          | 402.7                        | 48.1                   | 81.2                         | 3.9                        | 233.9                               | Y450-8, 400KW/6KV                             |                                      |                               |                                  |
|                     |                              | 335.6                        | 51.2                   | 80.0                         | 2.9                        | 210.6                               | Y450-8, 315KW/6KV                             |                                      |                               |                                  |
|                     |                              | 201.3                        | 53.3                   | 68.3                         | 2.0                        | 154.0                               | Y400-8, 250KW/6KV                             |                                      |                               |                                  |
|                     | 980                          | 493.3                        | 72.1                   | 81.2                         | 5.9                        | 429.4                               | Y450-6, 630KW/6KV                             | 703                                  |                               |                                  |
|                     |                              | 411.1                        | 76.8                   | 80.0                         | 4.3                        | 386.9                               | Y450-6, 630KW/6KV                             |                                      |                               |                                  |
|                     |                              | 246.7                        | 79.9                   | 68.3                         | 3.0                        | 282.9                               | Y450-6, 450KW/6KV                             |                                      |                               |                                  |
|                     | 740                          | 372.5                        | 41.1                   | 81.2                         | 3.4                        | 184.8                               | Y450-8, 315KW/6KV                             |                                      |                               |                                  |
|                     |                              | 310.4                        | 43.8                   | 80.0                         | 2.5                        | 166.6                               | Y400-8, 280KW/6KV                             |                                      |                               |                                  |
|                     |                              | 177.9                        | 45.6                   | 68.3                         | 1.7                        | 116.4                               | Y355L1-8, 185KW/380V                          |                                      |                               |                                  |
|                     | 980                          | 453.3                        | 60.9                   | 81.2                         | 5.0                        | 333.3                               | Y450-6, 560KW/6KV                             | 640                                  |                               |                                  |
|                     |                              | 277.8                        | 64.9                   | 80.0                         | 3.6                        | 300.5                               | Y450-6, 500KW/6KV                             |                                      |                               |                                  |
|                     |                              | 226.7                        | 67.5                   | 68.3                         | 2.5                        | 219.7                               | Y400-6, 355KW/6KV                             |                                      |                               |                                  |
|                     | 740                          | 342.3                        | 34.7                   | 81.2                         | 2.9                        | 143.4                               | Y400-8, 250KW/6KV                             |                                      |                               |                                  |
|                     |                              | 285.3                        | 37.0                   | 80.0                         | 2.1                        | 129.4                               | Y355L2-8, 200KW/6KV                           |                                      |                               |                                  |
|                     |                              | 171.2                        | 38.5                   | 68.3                         | 1.4                        | 94.6                                | Y355M2-8, 160KW/6KV                           |                                      |                               |                                  |

# HS 型渣浆泵安装图

The Installation Drawing of HS Slurry Pumps



| 型号       | A   | B   | B <sub>1</sub> | B <sub>2</sub> | B <sub>3</sub> | B <sub>4</sub> | D                              | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | D <sub>4</sub> | D <sub>5</sub> | D <sub>6</sub> | L     | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | n1-φd1 | n2-φd2 | n3-φd3 | S <sub>1</sub>             | S <sub>2</sub> (S <sub>2</sub> ) | t                               |
|----------|-----|-----|----------------|----------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|--------|--------|----------------------------|----------------------------------|---------------------------------|
| 65HS     | 432 | 492 | 352.5          | 377            | 220            | 45             | 65 <sup>+0.03<br/>-0.01</sup>  | 80             | 210            | 168.5          | 65             | 190            | 149            | 360.5 | 475            | 415            | 1379.5         | 590            | 45             | 340            | 400.5          | 330            | 4-φ22  | 8-φ22  | 8-φ22  | 58 <sup>+0<br/>-0.2</sup>  | 150                              | 18 <sup>+0.003<br/>-0.002</sup> |
| 80HS(P)  | 560 | 636 | 360            | 445            | 279            | 50             | 65 <sup>+0.03<br/>-0.01</sup>  | 100            | 255            | 200            | 80             | 210            | 168.5          | 383   | 560            | 520            | 1589           | 725            | 72             | 440            | 451            | 296            | 4-φ29  | 8-φ22  | 8-φ22  | 71 <sup>+0<br/>-0.2</sup>  | 203                              | 22 <sup>+0.002<br/>-0.002</sup> |
| 100HS(P) | 560 | 636 | 395            | 467            | 290            | 50             | 80 <sup>+0.03<br/>-0.01</sup>  | 152            | 320            | 270            | 100            | 275            | 216            | 394   | 597            | 520            | 1718           | 725            | 72             | 440            | 467            | 402            | 4-φ29  | 12-φ22 | 8-φ26  | 71 <sup>+0<br/>-0.2</sup>  | 203                              | 22 <sup>+0.003<br/>-0.003</sup> |
| 150HS(P) | 760 | 840 | 619            | 684            | 453            | 60             | 120 <sup>+0.03<br/>-0.01</sup> | 200            | 380            | 330            | 150            | 320            | 270            | 665   | 820            | 650            | 2006           | 1013           | 118            | 560            | 615            | 388            | 4-φ35  | 12-φ26 | 12-φ22 | 109 <sup>+0<br/>-0.2</sup> | 200                              | 32 <sup>+0.003<br/>-0.003</sup> |
| 200HS(P) | 760 | 840 | 675            | 735            | 460            | 60             | 120 <sup>+0.03<br/>-0.01</sup> | 250            | 425            | 370            | 200            | 380            | 330            | 695   | 880            | 650            | 2213           | 1013           | 118            | 560            | 628            | 579            | 4-φ35  | 12-φ26 | 12-φ26 | 109 <sup>+0<br/>-0.2</sup> | 200                              | 32 <sup>+0.003<br/>-0.003</sup> |
| 250HS(P) | 780 | 950 | 645            | 710            | 460            | 60             | 120 <sup>+0.03<br/>-0.01</sup> | 300            | 515            | 450            | 250            | 445            | 387.5          | 680.3 | 947            | 650            | 2160           | 978            | 128            | 550            | 628            | 500            | 4-φ40  | 16-φ33 | 16-φ30 | 109 <sup>+0<br/>-0.2</sup> | 200                              | 32 <sup>+0.003<br/>-0.003</sup> |
| 300HS    | 780 | 950 | 649            | 766            | 475            | 60             | 120 <sup>+0.03<br/>-0.01</sup> | 350            | 585            | 514.5          | 300            | 520            | 451            | 676   | 883            | 650            | 2282           | 978            | 128            | 550            | 668            | 610            | 4-φ40  | 20-φ33 | 16-φ33 | 190 <sup>+0<br/>-0.2</sup> | 200                              | 32 <sup>+0.003<br/>-0.003</sup> |



海/聚/精/工

Sea poly Seiko

Morality and Credit all over the world

德/信/天/下

石家庄精工水泵有限公司

SHIJIAZHUANG SEIKO PUMPS CO.,LTD

地址：中国石家庄市和平东路94号

电话：0311-86079818

传真：0311-86983818

邮编：050000

邮箱：jgpumps@163.com

网址：www.jg-industries.com

<http://blsbkj.cn.alibaba.com>

Addr: No.94 He Ping Eastern-Road,  
Shijiazhuang City, China.

Tel: +86-311-86079818

Fax: +86-311-86983818

P.C.: 050000

E-mail: cn.seikopumps@gmail.com

Web: www.jg-industries.com

<http://blsbkj.cn.alibaba.com>