



HLB (K) 型立式斜流泵

TYPE HLB (K) VERTICAL MIXED
FLOW PUMP



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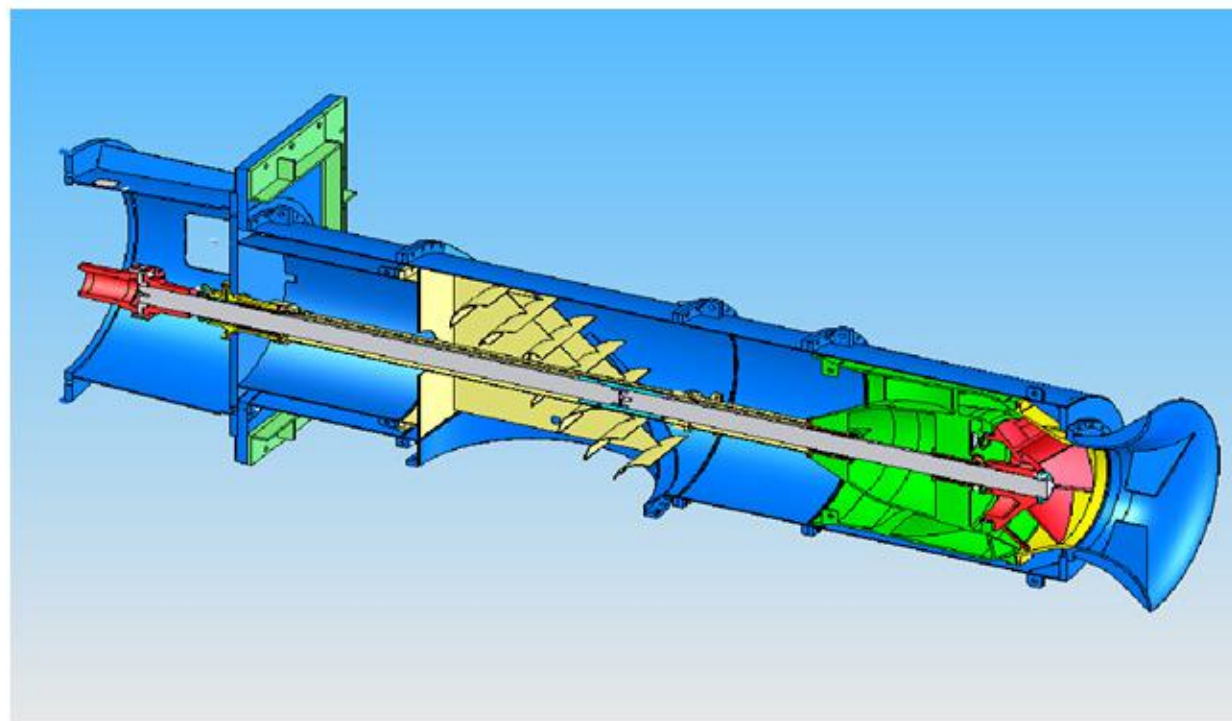
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目录/Content

▶ 概述 General.....	2
▶ 应用领域 Application.....	2
▶ 性能范围 (设计点) Performance Range (Design point).....	2
▶ 工作条件 Working Condition.....	2
▶ 型号意义 Nomenclature.....	2
▶ 结构特点 Structural Features.....	3
▶ 结构图 Structure Drawing.....	4
▶ 零件材料 Material.....	8
▶ 性能参数表 Performance Data Sheet.....	9
▶ 外形安装图 Installation Overall Dimension Drawing.....	18
▶ 外形尺寸表 Overall Dimension Sheet.....	19
▶ 吸入喇叭口直径D Suction Bell Diameter D.....	22
▶ 吸水池推荐尺寸图 Recommended Suction Pool Dimension.....	23



概述

HLBK型立式斜流泵是我公司根据市场需求并响应国家节能减排政策而自主开发、精心设计的高效节能产品。本系列产品创造性地吸收了国内外同类型产品的优点，并根据我公司多年的生产经验积累，保持了产品的持续改进。本系列产品的水力设计、结构设计和制造工艺获得了二十多项国家专利，具有效率高、汽蚀性能好、结构先进、使用寿命长和安装维护方便等显著特点。

应用领域

本系列产品适合于大型火电站和核电站用作循环水泵，也可作钢铁厂、船埠等工业用水、城市供水、排水工程和农田排灌等用，供输送清水、雨水、海水及污水等。

性能范围 (设计点)

流量：0.5 ~ 20m³/s
扬程：5 ~ 50m
转速：245 ~ 1480r/min

工作条件

介质温度：≤55°C
旋转方向：从驱动端看，顺时针方向旋转。

型号意义

2200HLB (HLBS、HLBK、HLKS、HLKT) -25 I
2200-出口直径为2200mm
HLB-不可抽立式斜流泵
HLBS-出口在基础层之上的不可抽立式斜流泵
HLBK-可抽立式斜流泵
HLKS-出口在基础层之上的可抽立式斜流泵
HLKT-叶片可调的可抽立式斜流泵
25-设计点扬程为25m
I-改型设计顺序号

General

HLBK series vertical mixed flow pumps are energy-saving product with high efficiency, developed and designed by SWAN according to national principles of energy saving and emission reduction to meet market demands. The series of products adopt advantages of both domestic and overseas similar products, and combine our many years manufacturing experience, which keep products improving. Hydraulic design, construction design and manufacturing process of the series of product were prized with more than 20 national patents, which have advantages of high efficiency, good cavitation performance, advanced construction, long operation life and installation and maintenance convenience.

Application

The series of product are suited to deliver clear water, rainwater, seawater and sewage, which applicable to power plant as circulating water pump, iron & steel plant and quay, water supply and drainage in city and irrigation project.

Performance Range (Design Point)

Capacity : 0.5 ~ 20m³/s
Head : 5 ~ 50m
Speed : 245 ~ 1480r/min

Working Condition

Media temp : ≤55°C
Rotation Direction: Clockwise viewed from driven end.

Nomenclature

2200HLB (HLBS、HLBK、HLKS、HLKT) - 25 I
2200-Discharge diameter is 2200mm
HLB-Non-pull out type vertical mixed flow pump
HLBS-Discharge above foundation and non-pull out type vertical mixed flow pump
HLBK-Pull out type vertical mixed flow pump
HLKS-Discharge above foundation and pull out type vertical mixed flow pump
HLKT-Vane adjustable and pull out type vertical mixed flow pump
25-Head design point is 25m
I-Sequence no. of model change

结构特点
Construction Feature

整体结构：不可抽式、转子可抽式（专利号：ZL200820052436.5）或整体可抽式多种结构选择。

效率高、汽蚀性能好、结构先进、使用寿命长和安装维护方便（专利号：ZL200820158582.6）。

Construction includes non-pull out type, rotor pull out type (Patent No. ZL200820052436.5) or pull out type, etc.

The construction has advantage of high efficiency, good cavitation performance, long operation life and convenience in installation and disassembly (Patent No. ZL200820158582.6)

填料密封 Packing seal

- ◆ 分半螺母压紧，装拆十分方便。
- ◆ 冷却水的进口和护套的排气口隔离，能充分排尽护套内空气。
- ◆ 设计有防止转子轴向位移的固定装置，能减少振动，确保平稳运行。
- ◆ Split packing cover that convenient for assembly and disassembly.
- ◆ Inlet of cooling water is separated with vent that can exhaust air from guide column thoroughly.
- ◆ Location device is designed for prevent rotor from axial movement upward that reduce vibration and ensure stable operation.

轴 Shaft

- ◆ 加粗设计，刚性好，临界转速高。
- ◆ 配合部位镀铬，不易锈蚀，容易装拆。
- ◆ Design thickened that have good rigidity and high critical speed.
- ◆ Matching parts are chromium plated that rust resist and convenient for assembly and disassembly
- ◆ Coupling parts with guide bearing and packing are assembled with shaft sleeve for protecting.

导轴承 Guide bearing

- ◆ 可选用橡胶（耐老化、耐海水橡胶）、氟龙或AR材料。
- ◆ 设计有充足的润滑水槽，冷却润滑效果好。
- ◆ 输送含有颗粒介质时，下导轴承末端设计有自动密封装置，防止停机后介质进入导轴承内（专利号：ZL200820052183.1）
- ◆ Rubber (erosion resist, seawater resist rubber), Thorlon or AR material are applicable.
- ◆ Sufficient groove for lubricating water is designed that have good cooling and lubricating.
- ◆ When deliver liquids containing solid, there is an auto stopping seal device designed at end of lower guide bearing, to prevent liquids go into guide bearing box after stopping. (Patent no. ZL200820052183.1)

叶轮室 Impeller chamber

- ◆ 叶轮室与喇叭口设计圆滑过渡和最佳配合定位，稳定性好。
- ◆ 叶轮室外设计十字形防转技术在上下外接管对应槽内，以防止叶轮室转动。
- ◆ Impeller chamber and suction bell are designed with concave surface and cylindrical surface matching location that have good stability.
- ◆ I-shaped anti-rotation block is designed outside impeller chamber where looked in related groove of lower column pipe, to prevent impeller chamber from rotation

吸入喇叭口 Suction Bell

- ◆ 进口直径大，水力损失小。
- ◆ 单圆弧形设计，带较厚圆片，水力性能好。
- ◆ 匹配用防涡三角状的吸水室或圆形导流嘴（专利号：ZL200920313161.0），避免涡流，流态稳定。
- ◆ Suction Bell Suction diameter is big that hydro loss is small.
- ◆ Single arc design with prevent whirl preventing ribs, have good hydro performance.
- ◆ Suction chamber assembled with whirlpool resist block or oval shaped diversion mound (Patent No. ZL200920313161.0), there is no whirlpool in suction, and flow state is stable.

电机联轴器 Pump and motor coupling

- ◆ 传递扭矩和轴向力，设计安全可靠。
- ◆ 通过盘动调整盘，可在不拆电机的情况下调整叶轮和叶轮室间隙。
- ◆ Pump and motor coupling transfer torque and axial force, design safety factor is big.
- ◆ Through turning of adjustable disk, clearance between impeller and impeller chamber can be adjusted without disassembling of motor.

导流壳 Guide shell, discharge elbow

- ◆ 导流壳为多片组合焊接结构，水力损失小。
- ◆ 流壳设计有防止反流的固定装置，能减少振动。
- ◆ 出水弯管出口设计有分水十字筋，流态稳定。
- ◆ Welded construction from multi pieces, hydro loss is small.
- ◆ Reverse thrust location device designed for guide shell that reduce vibration.
- ◆ Water diversion cross rib is designed on outlet of discharge elbow that make flow state stable.

联轴器 Coupling

- ◆ 口径≤1800mm泵，采用大小头结构的套筒联轴器，并配备专用的拆卸工具（专利号：ZL200820052182.7）。
- ◆ Pump with diameter ≤1800mm, adopt sleeve coupling with concentric reducer which provided with special assembly and disassembly tools. (Patent no. ZL200820052182.7)
- ◆ Pump with diameter ≥2000mm, adopt rigid coupling with complete sealed construction that very convenient for assembly and disassembly.

导流体 Diffuser

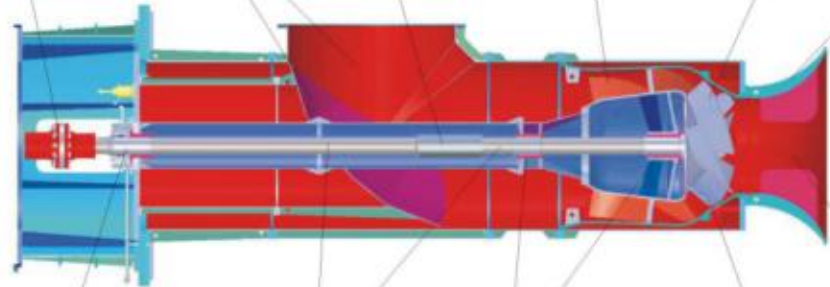
- ◆ 可设计成铸造或焊接结构。
- ◆ 铸造结构采用金属模具，数控加工，毛坯精度高。
- ◆ 焊接叶片为单圆弧形，水力性能好（专利号：ZL201220305242.8）。
- ◆ Both casting and welding construction are applicable.
- ◆ Casting construction adopts metal mould, digital machining and accurate rough casting.
- ◆ Welded diffuser vane are single arc shaped that have good hydro performance. (Patent no. ZL201220305242.8)

叶轮 Impeller

- ◆ 采用优秀水力模型，效率高且效率高，汽蚀性能好。
- ◆ 可设计成开放式或封闭式不可调整体结构，也可设计成叶片可调组合结构（专利号：ZL200720065398.2 和 ZL200920064520.3），保证不同工况下的高效运行。
- ◆ 采用金属模具，毛坯精度高，数控加工，水力效率高。
- ◆ 叶轮与轴配合采用全密封结构，装拆十分方便（专利号：ZL200920064516.7）。
- ◆ Excellent hydro model is adopted that have high efficiency and wide high efficient range, and good cavitation performance.
- ◆ Various design available, open or enclose type and non-adjustable construction, or vane adjustable construction (Patent No. ZL200720065398.2 and ZL200920064520.3), which ensure high efficient operation in different operation condition.
- ◆ Metal mould, accurate roughcast and digital machining are adopted that pump have high efficiency.
- ◆ Matching between impeller and shaft adopt complete seal construction that convenient for assemble and disassemble. (Patent no. ZL200920064516.7)
- ◆ Impeller is seriously tested for static balance and dynamic balance.

外加电流阴极保护系统 External current added cathodic protection system

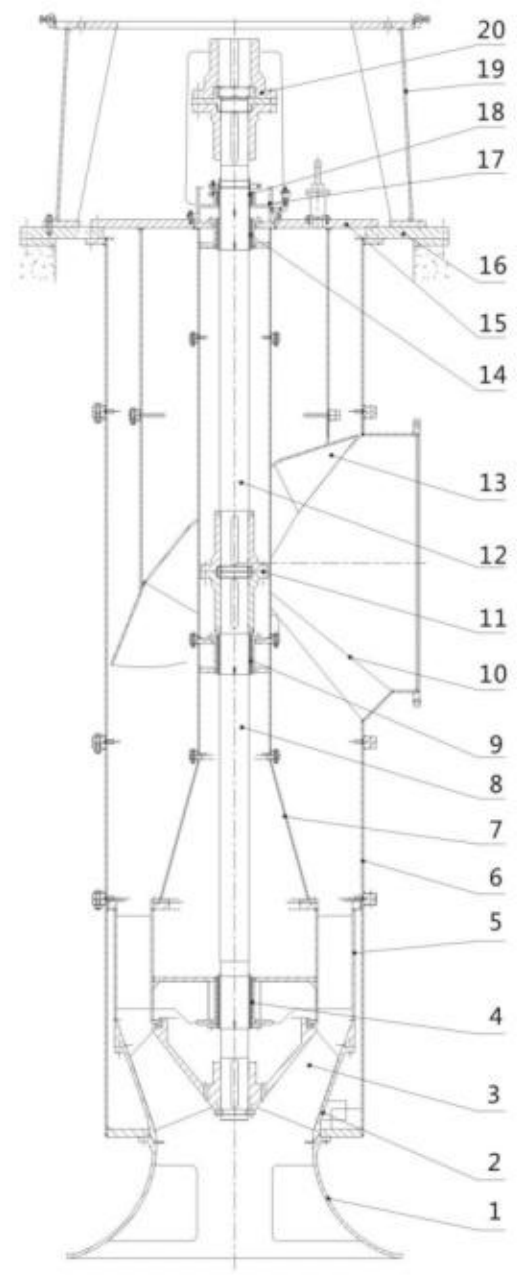
- ◆ 输送海水的泵，除采用耐海水腐蚀的材料外，必要时还可采用牺牲阳极和外加电流阴极保护装置，以防止电化学腐蚀（专利号：ZL200820052185.0）。
- ◆ For sea water pump, besides of seawater resist material, anode sacrificial and external current cathodic protection can be adopted if necessary, to avoid electrochemistry erosion (Patent no. ZL200820052185.0)



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TYPE HLB (K) VERTICAL MIXED FLOW PUMP

HLBK型结构图

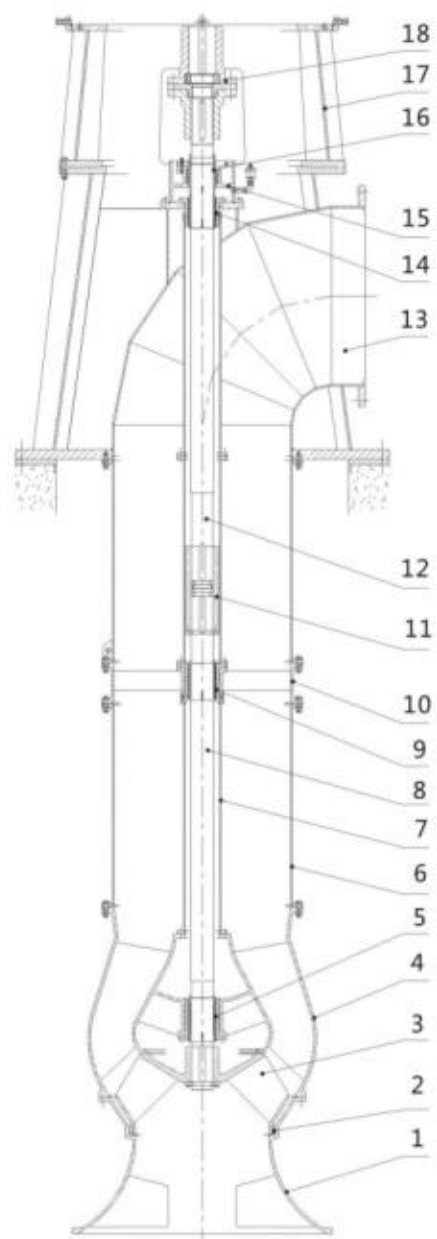
HLBK-Section Drawing



- 1.吸入喇叭口 Suction Bell
- 2.叶轮室 Impeller Chamber
- 3.叶轮 Impeller
- 4.下导轴承 Lower Guide Bearing
- 5.导叶体 Diffuser
- 6.外接管 External Column Pipe
- 7.护管 Internal Column Pipe
- 8.下主轴 Lower Shaft
- 9.中间导轴承 Middle Guide Bearing
- 10.出水弯管 Discharge Elbow
- 11.刚性联轴器部件 Rigid Coupling Parts
- 12.上主轴 Upper Shaft
- 13.导流壳 Guide Shell
- 14.上导轴承 Upper Guide Bearing
- 15.盖板 Cover Plate
- 16.支撑板 Supporting Plate
- 17.填料密封部件 Packing Seal Parts
- 18.轴套 Shaft Sleeves
- 19.电机座 Motor Support
- 20.刚性联轴器部件 Rigid Coupling Parts

HLBS型结构图

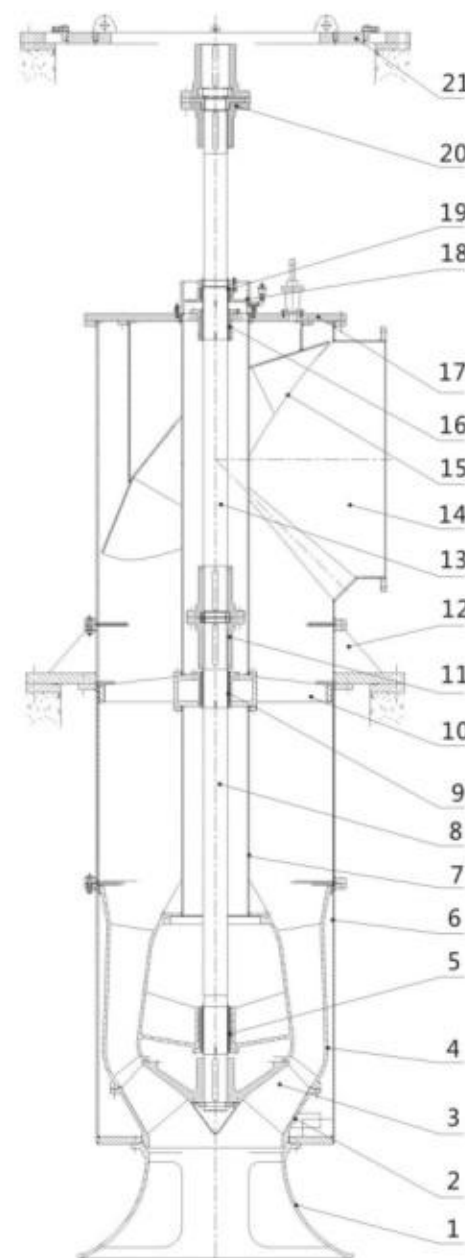
HLBS-Section Drawing



- 1.吸入喇叭口 Suction Bell
- 2.密封环 Seal Ring
- 3.叶轮 Impeller
- 4.导叶体 Diffuser
- 5.下导轴承 Lower Guide Bearing
- 6.外接管 External Column Pipe
- 7.护管 Internal Column Pipe
- 8.下主轴 Lower Shaft
- 9.中间导轴承 Middle Guide Bearing
- 10.中间轴承座 Bearing Bracket
- 11.套筒联轴器部件 Sleeve Coupling Parts
- 12.上主轴 Upper Shaft
- 13.出水弯管 Discharge Elbow
- 14.上导轴承 Upper Guide Bearing
- 15.填料密封部件 Packing Seal Parts
- 16.轴套 Shaft Sleeves
- 17.电机座 Motor Support
- 18.刚性联轴器部件 Rigid Coupling Parts

HLKS型结构图

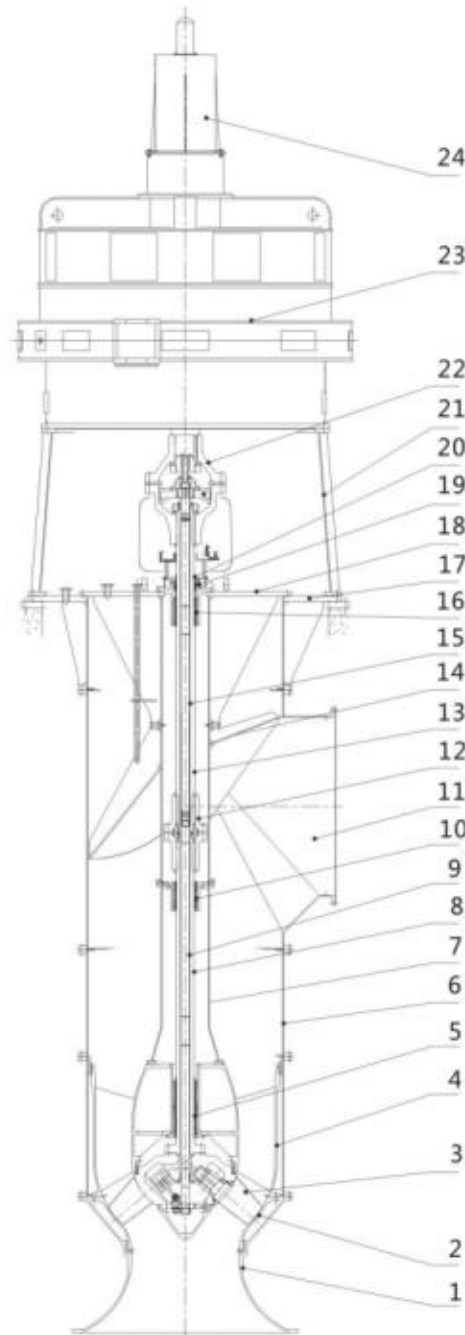
HLKS-Section Drawing



- 1.吸入喇叭口 Suction Bell
- 2.叶轮室 Impeller Chamber
- 3.叶轮 Impeller
- 4.导叶体 Diffuser
- 5.下导轴承 Lower Guide Bearing
- 6.外接管 External Column Pipe
- 7.护管 Internal Column Pipe
- 8.下主轴 Lower Shaft
- 9.中间导轴承 Middle Guide Bearing
- 10.中间轴承座 Bearing Bracket
- 11.刚性联轴器部件 Rigid Coupling Parts
- 12.支撑管 Supporting Column Pipe
- 13.上主轴 Upper Shaft
- 14.出水弯管 Discharge Elbow
- 15.导流壳 Guide Shell
- 16.上导轴承 Upper Guide Bearing
- 17.盖板 Cover Plate
- 18.填料密封部件 Packing Seal Parts
- 19.轴套 Shaft Sleeves
- 20.刚性联轴器部件 Rigid Coupling Parts
- 21.电机座 Motor Support

HLKT型结构图

HLKT-Section Drawing



- 1.吸入喇叭口 Suction Bell
- 2.叶轮室 Impeller Chamber
- 3.叶轮部件 Impeller
- 4.导叶体 Diffuser
- 5.下导轴承 Lower Guide Bearing
- 6.外接管 External Column Pipe
- 7.护管 Internal Column Pipe
- 8.下主轴 Lower Shaft
- 9.下拉杆 Lower Tension Ron
- 10.中间导轴承 Middle Guide Bearing
- 11.出水弯管 Discharge Elbow
- 12.刚性联轴器部件 Rigid Coupling Parts
- 13.上主轴 Upper Shaft
- 14.导流壳 Guide Shell
- 15.上拉杆 Upper Guide Bearing
- 16.上导轴承 Upper Guide Bearing
- 17.支撑板 Supporting Plate
- 18.盖板 Cover Plate
- 19.填料密封部件 Packing Seal Parts
- 20.轴套 Shaft Sleeves
- 21.电机座 Motor Support
- 22.刚性联轴器部件 Rigid Coupling Parts
- 23.电动机 Motor
- 24.叶片调节机构 Adjustable Mechanis Impeller Vane

零件材料

Construction Material

输送介质 Pumping liquids	清水 Clean water	海水 Sea water		
	材料类别 Material sort	II	III	IV
零件名称 Part name	I			
吸入喇叭口/中间轴承座 Suction bell/middle bearing support	HT250 (ASTM A48 250B)	022Cr17Ni12Mo2 (316L)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)
叶轮室/叶轮 Impeller chamber/impeller	ZG1Cr13Ni1/ZG1Cr18Ni9 (ASTM A743 CA-15M/CF-8)	022Cr17Ni12Mo2 (316L)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)
导叶体 Diffuser	HT250/ Q235-A (ASTM A48 250B /A283 Grade D)	022Cr17Ni12Mo2 (316L)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)
外接管/出水弯管/连接管 /导流壳/护管/盖板 Column pipe/discharge elbow /connection pipe/guide shell/ guard column/cover plate	Q235-A (ASTM A283 Grade D)	022Cr17Ni12Mo2 (316L)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)
轴 Shaft	45/40Cr (ASTM A29 Grade D/5140)	022Cr22Ni5Mo3N (S31803)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)
轴套 Shaft sleeve	2Cr13/ 1Cr18Ni9 (ASTM A959 410/302)	022Cr22Ni5Mo3N (S31803)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)
导轴承 Guide bearing	橡胶/赛龙/AR Rubber/SXL/AR	橡胶/赛龙/AR Rubber/SXL/AR	橡胶/赛龙/AR Rubber/SXL/AR	橡胶/赛龙/AR Rubber/SXL/AR
套筒联轴器 Sleeve coupling	45/2Cr13 (ASTM A29 Grade D/ A959 410)	022Cr22Ni5Mo3N (S31803)	022Cr22Ni5Mo3N (S31803)	022Cr25Ni7Mo4N (S32750)

注：各零件材料可根据用户要求选配。
Remarks: Other materials can be selected according to user requirements.



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TYPE HLB (K) VERTICAL MIXED FLOW PUMP

性能参数表
Performance Data Sheet

型号 Type	流量 Capacity Q		扬程 Head H m	转速 Speed n r/min	轴功率 Shaft Power Pa KW	配套电机 Motor			效率 Eff. η %	必需汽蚀余量 (NPSH)r m
	m ³ /h	l/s				功率 Power KW	电压 Volt V	型号 Type		
400HLBK-10	918	255	11.8	1480	40.4	55	380	YX3-250M-4/V1	73.0	2.6
	1148	319	10.0		38.6				81.0	4.1
	1378	383	6.5		33.4				73.0	6.0
500HLB-12	1840	511	13.5	980	85	110	380	Y315L1-6V1	80.1	7.4
	2200	611	12.0		84				85.4	7.9
	2650	736	9.4		81				83.5	8.8
500HLB-17	2200	611	18.7	980	138	160	380	Y355M1-6V1	81.0	7.4
	2500	694	17.0		136				85.0	7.5
	3000	833	12.9		123				86.0	9.1
600HLB-8	3600	1000	9.1	740	107	160	380	Y355M3-8V1	83.8	6.0
	4000	1111	8.0		100				87.0	6.5
	4500	1250	6.2		91				84.0	8.2
600HLB-10	2880	800	12.5	740	120	160	380	Y2-355M3-8V1	82.0	3.0
	3600	1000	10.0		115				85.0	4.5
	4320	1200	8.0		113				83.0	6.4
600HLBK-14.5	1800	500	16.0	980	97	132	380	Y315L2-6V1	81.0	5.0
	2160	600	14.5		103				83.0	5.5
	2340	650	13.0		104				80.0	6.5
700HLB-8	3920	1089	9.3	740	119	160	380	Y355M3-8V1	83.3	6.0
	4400	1222	8.0		111				86.5	6.8
	4860	1350	6.4		100				84.4	7.8
700HLBK-10	2400	667	12.0	740	95	110	380	Y315L2-8V1	82.6	6.3
	2800	778	10.0		89				85.4	6.9
	3360	933	6.6		73				83.1	7.4
700HLBK-12	3600	1000	15.0	980	180	200	380	Y355M3-6/V1	81.7	6.5
	4320	1200	12.0		174				81.0	7.0
	4860	1350	8.5		149				75.5	8.0
700HLB-15	3240	900	16.0	980	170	200	380	Y355L3-6V1	83.0	7.0
	3850	1069	15.0		179				88.0	7.5
	4210	1169	12.0		159				86.5	8.0
700HLB-15I	2808	780	21.1	980	188	220	6000	YLKKT400-6	86.0	6.0
	3528	980	14.0		158				85.0	7.6
	3636	1010	12.6		152				82.0	8.6
700HLBK-17	2700	750	23.0	980	197	250	6000	YKKL400-6	86.0	6.0
	3420	950	17.0		186				85.0	7.6
	3600	1000	15.0		179				82.0	8.6
700HLB-22	2568	713	23.2	740	198	280	6000	YKKL450-8	82.0	5.0
	3210	892	22.1		224				86.0	5.1
	3852	1070	15.4		190				85.0	6.5
700HLBK-26.8	1400	389	29.3	980	135	185	380	Y355M2-6V1	82.5	6.2
	1584	440	26.8		136				85.0	6.8
	1800	500	23.3		141				81.0	7.8

性能参数表
Performance Data Sheet

型号 Type	流量 Capacity Q		扬程 Head H m	转速 Speed n r/min	轴功率 Shaft Power Pa KW	配套电机 Motor			效率 Eff. η %	必需汽蚀余量 (NPSH)r m
	m ³ /h	l/s				功率 Power KW	电压 Volt V	型号 Type		
800HLBK-6.8	2160	600	9.1	740	70	75	380	Y315M-8V1	77.0	6.0
	2974	826	6.8		65				85.0	6.7
	3672	1020	3.4		45				75.0	8.1
800HLBK-8	5400	1500	9.2	740	157	185	380	Y2 355L-8W-TH	86.0	6.0
	5760	1600	8.0		144				87.0	6.7
	6336	1760	6.0		129				80.2	8.5
800HLBK-8I	4464	1240	9.3	740	141	200	10000	YLKK500-8W	80.0	5.5
	5580	1550	8.0		140				87.0	6.0
	6138	1705	6.5		133				82.0	8.0
800HLBK-20	3180	883	25.0	980	264	315	6000	YSLT400-6	82.0	6.5
	3850	1069	20.0		247				85.0	7.5
	4250	1181	16.6		237				81.0	9.0
800HLBK-45	2000	556	48.0	980	335	450	6000	YKSL450-6	78.0	7.0
	2500	694	45.0		374				82.0	8.0
	3000	833	38.0		393				79.0	9.6
800HLBS-45	3500	972	50.0	590	582	710	10000	YLKS630-10	82.0	5.6
	4000	1111	45.0		591				83.0	6.0
	4500	1250	37.5		578				79.5	6.9
900HLBK-12	5545	1540	14.3	740	253	280	6000	YLKK450-8	85.5	4.7
	6500	1806	12.0		242				88.0	5.0
	6880	1911	11.0		243				85.0	5.3
900HLBK-14.5	3050	847	15.8	740	171	200	6000	YLBT4004-8	77.0	5.0
	3780	1050	14.5		176				85.0	6.0
	4400	1222	12.0		173				83.0	7.4
900HLB-17.5	4570	1269	18.7	590	291	400	6000	YL400-10	80.1	4.5
	5400	1500	17.5		297				86.8	4.7
	6620	1839	13.3		283				84.9	5.2
1000HLBK-6.8	3800	1056	8.0	740	99	110	380	Y315L2-8V1	83.5	6.0
	4248	1180	6.8		91				86.5	6.5
	4700	1306	5.2		79				84.5	8.0
1000HLB-10	9180	2550	11.2	495	328	400	6000	YLS5004-12	85.5	7.9
	10080	2800	10.0		310				88.5	8.5
	11590	3219	7.0		265				83.5	9.0
1000HLBK-13	5600	1556	16.0	590	294	355	6000	YLKS450-10	83.0	5.0
	7000	1944	13.0		288				86.0	7.7
	8000	2222	9.0		236				83.0	8.8
1000HLBK-13I	5400	1500	16.5	740	300	400	6000	YKKL500-8	81.0	6.8
	6840	1900	13.0		288				84.0	7.2
	7920	2200	8.6		229				81.0	8.5
1000HLBK-17	5940	1650	20.0	740	395	450	6000	YKKL500-8	82.0	6.9
	7056	1960	17.0		385				85.0	7.4
	7920	2200	14.3		381				81.0	8.5



性能参数表

Performance Data Sheet

型号 Type	流量 Capacity Q		扬程 Head H m	转速 Speed n r/min	轴功率 Shaft Power Pa KW	配套电机 Motor			效率 Eff. η %	必需汽蚀余量 (NPSH)r m
	m³/h	l/s				功率 Power KW	电压 Volt V	型号 Type		
1000HLB-16	9110	2531	19.6	495	581	700	6000	YL700-12/990	83.8	5.8
	11160	3100	16.0		552				88.2	6.4
	12640	3511	12.5		501				86.0	6.9
1100HLB-22.8	8280	2300	27.0	590	762	900	6000	YKKL630-10	80.0	6.5
	10368	2880	22.8		740				87.0	7.2
	11880	3300	18.5		722				83.0	8.6
1200HLBK-10	9928	2758	11.7	595	401	450	6000	YXKKL500-10	79.0	7.9
	11644	3234	10.0		369				86.0	8.1
	12838	3566	7.9		329				84.0	9.5
1200HLBK-16	9000	2500	18.5	495	567	710	6000	YLBT630-12	80.0	6.0
	10692	2970	16.0		536				87.0	6.5
	12240	3400	12.5		491				85.0	7.0
1200HLBK-19	10200	2833	20.3	495	688	800	6000	YLBT630-12	82.0	7.2
	11700	3250	18.5		678				87.0	8.0
	13500	3750	14.7		636				85.0	8.6
1200HLBK-20	8450	2347	23.4	590	657	710	6000	YKSL560-10	82.0	8.0
	9360	2600	20.0		586				87.0	8.7
	11700	3250	14.8		555				85.0	9.5
1200HLBK-20I	10800	3000	23.1	590	834	1000	6000	YKSL1000-10/1180	81.5	8.5
	12312	3420	21.0		819				86.0	9.5
	15624	4340	14.3		761				80.0	10.5
1200HLBK-20.8	8800	2444	23.7	590	685	800	6000	YKSL560-10	83.0	8.0
	9900	2750	20.8		645				87.0	8.7
	12300	3417	15.1		595				85.0	9.5
1200HLBK-21	7920	2200	23.3	590	613	710	6000	YKSL560-10	82.0	8.0
	9288	2580	21.0		618				86.0	8.5
	11592	3220	15.5		583				84.0	9.5
1200HLBK-22	9000	2500	25.5	590	772	1000	6000	YLBT6301-10	81.0	8.0
	11232	3120	21.5		756				87.0	8.7
	12240	3400	18.9		742				85.0	9.5
1200HLBK-23	7632	2120	27.0	590	693	800	6000	YKSL560-10	81.0	8.0
	9540	2650	23.0		679				88.0	8.7
	10494	2915	19.5		656				85.0	9.5
1200HLBK-23.5	9430	2619	23.5	590	728	900	6000	YKSL560-10W	83.0	8.2
	10656	2960	20.5		684				87.0	8.9
	12300	3417	17.0		670				85.0	9.5
1200HLBK-30.6	7200	2000	32.6	590	759	1000	6000	YKSL630-10W	84.3	7.0
	8532	2370	30.6		808				88.1	7.5
	10400	2889	24.6		838				83.2	8.8
1300HLB-15.5	14400	4000	15.5	495	728	850	6000	YKSL710-12	83.5	8.0
	15120	4200	13.9		678				84.5	8.7
	16200	4500	11.5		615				82.5	9.5

性能参数表

Performance Data Sheet

型号 Type	流量 Capacity Q		扬程 Head H m	转速 Speed n r/min	轴功率 Shaft Power Pa KW	配套电机 Motor			效率 Eff. η %	必需汽蚀余量 (NPSH)r m
	m³/h	l/s				功率 Power KW	电压 Volt V	型号 Type		
1300HLB-16.5	11800	3278	19.0	360	736	900	/	柴油机通过减速齿轮箱传动 Diesel Driven through gear box	83.0	6.5
	14040	3900	16.5		726				87.0	7.1
	18320	5089	11.9		699				85.0	8.8
1300HLB-20	14400	4000	20.0	495	934	1120	6000	YLKS710-12	84.0	8.0
	15120	4200	18.3		892				84.5	8.7
	17280	4800	13.7		806				80.0	10.8
1300HLKS-21.7	10512	2920	21.4	590	714	900	6000	YKSL560-10	85.8	7.7
	12384	3440	20.3		777				88.2	8.2
	14292	3970	17.9		815				85.5	9.2
1300HLBS-28.8	14580	4050	32.0	495	1532	1900	6000	YKSL1900-12	83.0	9.0
	17150	4764	28.6		1519				88.0	9.9
	18864	5240	24.0		1435				86.0	10.5
1400HLKS-16	15120	4200	17.8	495	884	1120	6000	YKSL1120-12/1180	83.0	7.0
	17496	4860	15.8		856				88.0	8.0
	19440	5400	13.7		844				86.0	9.5
1400HLBK-17.8	15120	4200	19.5	495	956	1120	6000	YKSL1120-12/1180	84.0	7.0
	17136	4760	17.8		945				88.0	8.0
	18144	5040	16.2		925				86.6	9.5
1400HLBK-19	17280	4800	22.5	590	1239	1400	6000	YKSL1400-10/1180-1W	85.5	9.0
	20016	5560	19.0		1178				88.0	9.5
	21600	6000	16.0		1089				86.5	11.0
1400HLBK-21.5	10650	2958	23.5	495	822	1000	6000	YLSK1000-12/1430	83.0	7.3
	12060	3350	21.5		803				88.0	8.4
	14040	3900	19.0		865				84.0	10.0
1400HLBK-21.5G	12020	3339	23.3	590	919	1120	6000	YLKS630-10	83.0	10.0
	13680	3800	21.5		911				88.0	11.2
	16840	4678	15.0		819				84.0	13.0
1400HLBK-22	12420	3450	22.0	590	844	1000	6000	YKSL630-10	88.2	7.4
	14400	4000	18.9		838				88.5	7.9
	15804	4390	15.9		796				86.0	8.4
1400HLBK-25	10080	2800	29.0	590	971	1120	6000	YKKL630-10	82.0	7.5
	12240	3400	25.0		964				86.5	7.9
	13860	3850	20.9		932				84.7	8.6
1500HLB-11.5	16630	4619	13.6	340	743	900	/	柴油机通过减速齿轮箱传动 Diesel Driven through gear box	83.0	6.5
	18940	5261	11.5		690				86.0	7.3
	21810	6058	8.0		573				83.0	8.7
1500HLB-13	17640	4900	15.2	360	870	1000	/	柴油机通过减速齿轮箱传动 Diesel Driven through gear box	84.0	7.0
	20050	5569	13.0		816				87.0	8.0
	23110	6419	9.0		675				84.0	9.6
1500HLB-17	15480	4300	19.5	360	979	1250	/	柴油机通过减速齿轮箱传动 Diesel Driven through gear box	84.0	8.1
	18000	5000	17.0		958				87.0	9.7
	21600	6000	13.3		932				84.0	9.5



HLB (K) 型立式斜流泵

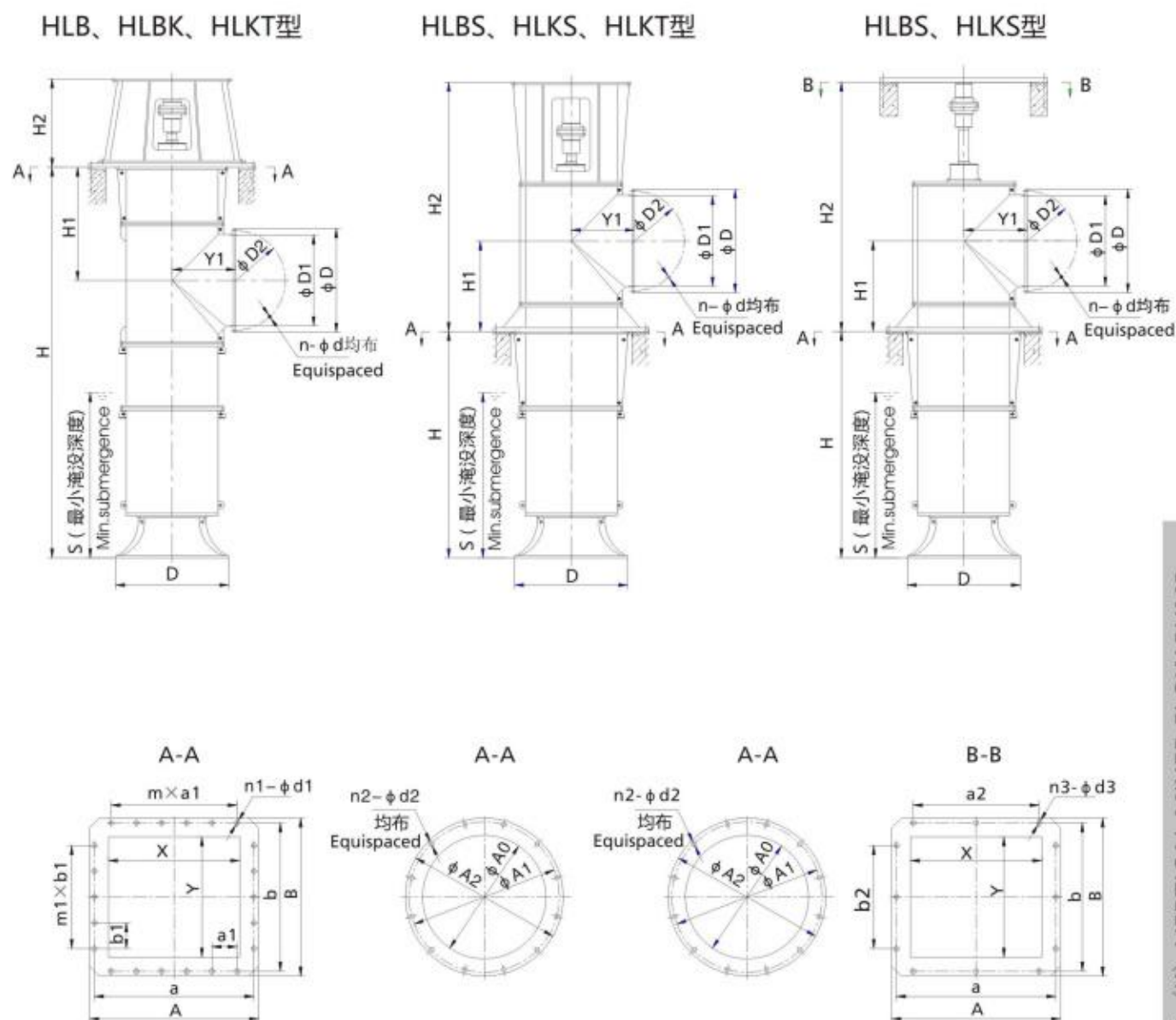
TYPE HLB (K) VERTICAL MIXED FLOW PUMP

性能参数表
Performance Data Sheet

型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft Power Pa	配套电机 Motor			效率 Eff. η	必需汽蚀余量 (NPSH)r
	m ³ /h	l/s				功率 Power KW	电压 Volt V	型号 Type		
2200HLBK-27.3	28296	7860	30.6	370	2809	3400	6000	YKSL3400-16/2150	84.0	8.0
	33300	9250	27.3		2777				89.2	8.7
	39600	11000	23.0		2869				86.5	9.3
2200HLBK-29.6	38160	10600	29.6	370	3428	3900	6000	YKSL3900-16/2150	89.8	8.5
	43920	12200	25.0		3354				89.2	9.4
	45720	12700	22.6		3200				88.0	9.8
2400HLBK-25.7	35280	9800	29.4	330	3325	3800	6000	YL3800-18/2600	85.0	8.2
	41400	11500	25.7		3295				88.0	8.6
	47520	13200	20.3		3129				84.0	9.5
2400HLBK-27	38160	10600	31.0	330	3792	4300	6000	YL4300-18/2600	85.0	8.6
	45000	12500	27.0		3762				88.0	9.1
	51840	14400	21.0		3532				84.0	10.5
2400HLB-29	53420	14839	31.5	245	5592	6000	6000	YL6000-24/2150	82.0	7.8
	60120	16700	28.8		5423				87.0	8.5
	71240	19789	24.4		5383				88.0	10.2
2400HLKT-13 (-8°)	32400	9000	14.5	245	1561	3000	6000	TLJ3000-24	82.0	7.7
	36000	10000	13.0		1518				84.0	8.2
	45000	12500	7.5		1150				80.0	9.4
2400HLKT-13 (-6°)	36000	10000	15.0	245	1752	3000	6000	TLJ3000-24	84.0	7.0
	39600	11000	14.0		1736				87.0	6.5
	50400	14000	8.5		1459				80.0	14.0
2400HLKT-13 (-4°)	39600	11000	15.8	245	1976	3000	6000	TLJ3000-24	86.3	8.0
	47520	13200	13.0		1889				89.1	7.5
	54000	15000	10.3		1826				83.0	12.0
2400HLKT-13 (-2°)	44280	12300	16.4	245	2272	3000	6000	TLJ3000-24	87.1	7.5
	53280	14800	13.4		2152				90.4	9.0
	61920	17200	9.0		1756				86.5	15.0
2400HLKT-13 (0°)	43560	12100	17.8	245	2500	3000	6000	TLJ3000-24	84.5	7.2
	60120	16700	13.0		2372				89.8	9.5
	68400	19000	8.5		1745				90.8	15.0
2400HLKT-13 (+2°)	50400	14000	18.2	245	2976	3000	6000	TLJ3000-24	84.0	8.0
	60840	16900	15.8		2885				90.8	11.0
	72000	20000	10.0		2364				83.0	15.0
2600HLBK-13	58680	16300	15.6	295	2819	3600	6000	YL3600-20/2600	88.5	10.6
	66924	18590	13.0		2694				88.0	11.3
	72108	20030	10.6		2485				83.8	12.4
2600HLBK-19	44100	12250	21.5	295	3040	3600	6000	YL3600-20/2600	85.0	7.6
	49500	13750	19.2		2994				86.5	8.0
	54900	15250	17.0		2992				85.0	8.6
2600HLBK-25	45000	12500	28.0	295	4011	4300	6000	YL4300-20/2600	85.6	7.7
	52200	14500	25.0		3996				89.0	8.1
	58500	16250	20.4		3781				86.0	9.6
2600HLBK-28	46800	13000	30.0	295	4470	4800	6000	YL4800-20/2600	85.6	7.7
	52200	14500	27.5		4395				89.0	8.2
	59040	16400	23.1		4372				85.0	9.4
2800HLBK-22	50760	14100	25.0	245	4021	4600	6000	YL4600-24/2600	86.0	7.0
	59400	16500	22.0		4001				89.0	7.4
	68400	19000	17.0		3684				86.0	8.5

外形安装图

Installation Overall Dimension Drawing





外形尺寸表 Overall Dimension Sheet

立式斜流泵外形尺寸表 Overall Dimension Sheet for Vertical Mixed Flow Pump

水泵型号 Pump Model	H	H1	H2	Y1	A	B	a	b	X	Y	m×a1	m1×b1	n1-φd1	φA0	φA1	φA2	n2-φd2	a2	b2	n3-φd3	φD1	φD2	φD	n-φd
400HLBS	≥2100	550	1700	650	1500	1400	1400	1300	1000	900	/	/	/	φ800	φ1200	φ1300	12-φ35	900	800	8-φ35	φ400	φ495	φ540	16-φ22
400HLKS	≥3700	1400	1100	500	1400	1300	1300	1200	900	800	2×500	2×450	12-φ35	/	/	/	/	/	/	/	/	/	/	/
400HLBK	≥2150	550	1690	700	1600	1500	1500	1400	1100	1000	/	/	/	φ900	φ1300	φ1400	12-φ35	1000	900	8-φ35	φ500	φ600	φ645	20-φ22
400HLB	≥3900	1500	1200	550	1500	1400	1400	1300	1000	900	3×300	2×400	14-φ35	/	/	/	/	/	/	/	/	/	/	/
500HLBS	≥2300	650	2000	800	1700	1600	1600	1500	1250	1150	/	/	/	φ1000	φ1400	φ1500	16-φ42	1150	1050	8-φ42	φ600	φ705	φ755	20-φ26
500HLKS	≥4100	1500	970	600	1600	1500	1500	1400	1100	1000	3×400	2×450	14-φ35	/	/	/	/	/	/	/	/	/	/	/
500HLBK	≥2450	700	2200	850	1700	1600	1600	1500	1250	1150	/	/	/	φ1100	φ1500	φ1600	16-φ42	1150	1050	8-φ42	φ700	φ810	φ860	24-φ26
500HLB	≥4300	1500	1200	550	1600	1500	1500	1400	1100	1000	3×400	2×450	14-φ35	/	/	/	/	/	/	/	/	/	/	/
600HLBS	≥2600	800	2400	700	1900	1800	1800	1700	1400	1300	/	/	/	φ1300	φ1700	φ1800	16-φ42	1300	1200	8-φ42	φ800	φ920	φ975	24-φ30
600HLKS	≥4500	1500	1150	650	1900	1800	1800	1700	1400	1300	3×450	3×400	16-φ35	/	/	/	/	/	/	/	/	/	/	/
600HLBK	≥2850	850	2600	750	2000	1900	1900	1800	1500	1400	/	/	/	φ1400	φ1800	φ1900	16-φ42	1400	1300	12-φ42	φ900	φ1020	φ1075	24-φ30
600HLB	≥4900	1600	1300	700	2000	1900	1900	1800	1500	1400	3×450	3×400	16-φ35	/	/	/	/	/	/	/	/	/	/	/

外形尺寸表 Overall Dimension Sheet

立式斜流泵外形尺寸表 Overall Dimension Sheet for Vertical Mixed Flow Pump

水泵型号 Pump Model	H	H1	H2	Y1	A	B	a	b	X	Y	m×a1	m1×b1	n1-φd1	φA0	φA1	φA2	n2-φd2	a2	b2	n3-φd3	φD1	φD2	φD	n-φd
1000HLBS	≥2900	900	2700	800	2100	1900	2000	1800	1600	1400	/	/	/	φ1500	φ1900	φ2000	20-φ42	1500	1300	12-φ42	φ1000	φ1120	φ1175	28-φ30
1000HLKS	≥5100	1600	1150	800	2100	1900	2000	1800	1600	1400	3×500	3×500	16-φ35	/	/	/	/	/	/	/	/	/	/	/
1000HLBK	≥2950	950	2800	800	2200	2100	2100	2100	1700	1700	/	/	/	φ1600	φ2000	φ2100	20-φ42	1600	1600	12-φ42	φ1100	φ1240	φ1305	28-φ33
1000HLB	≥5300	1800	1600	800	2200	2100	2100	2100	1700	1700	4×400	4×400	20-φ42	/	/	/	/	/	/	/	/	/	/	/
1100HLBS	≥3000	1000	2900	900	2400	2300	2300	2200	1900	1800	/	/	/	φ1800	φ2200	φ2300	20-φ42	1800	1700	12-φ42	φ1200	φ1340	φ1405	32-φ33
1100HLKS	≥5500	1900	1300	900	2400	2300	2300	2200	1900	1800	4×400	4×400	20-φ42	/	/	/	/	/	/	/	/	/	/	/
1100HLBK	≥3000	1100	3000	950	2400	2300	2300	2200	1900	1800	/	/	/	φ1800	φ2200	φ2300	20-φ42	1800	1700	12-φ42	φ1300	φ1450	φ1520	32-φ36
1100HLB	≥5600	2000	1300	950	2400	2300	2300	2200	1900	1800	4×450	4×420	20-φ42	/	/	/	/	/	/	/	/	/	/	/
1200HLBS	≥3000	1200	3200	1050	2700	2600	2600	2500	2100	2000	/	/	/	φ2000	φ2500	φ2620	22-φ45	2000	1900	12-φ45	φ1400	φ1560	φ1630	36-φ36
1200HLKS	≥5800	2100	1400	1000	2700	2600	2600	2500	2100	2000	5×420	4×450	22-φ45	/	/	/	/	/	/	/	/	/	/	/
1200HLBK	≥3050	1300	3500	1120	2800	2700	2700	2600	2200	2100	/	/	/	φ2100	φ2600	φ2700	20-φ42	2100	2000	12-φ42	φ1500	φ1660	φ1730	36-φ36
1200HLB	≥6000	2200	1500	1120	2800	2700	2700	2600	2200	2100	5×450	5×400	24-φ42	/	/	/	/	/	/	/	/	/	/	/



外形尺寸表

Overall Dimension Sheet

水泵型号 Pump Model	立式斜流泵外形尺寸表 Overall Dimension Sheet for Vertical Mixed Flow Pump																							
	H	H1	H2	Y1	A	B	a	b	X	Y	m×a1	m1×b1	n1-φd1	φA0	φA1	φA2	n2-φd2	a2	b2	n3-φd3	φD1	φD2	φD	n-φd
1600HLBS	≥3100	1200	3600	1120	2950	2750	2850	2650	2350	2150	/	/	/	φ2150	φ2650	φ2750	16-φ45	2100	2000	12-φ45	φ1600	φ1760	φ1830	φ40-φ36
1600HLKS																								
1600HLBK	≥6200	2300	1560	1120	2950	2750	2850	2650	2350	2150	5×450	4×460	22-φ42	/	/	/	/	/	/	/	/	/	/	/
1600HLB																								
1800HLBS	≥3500	1300	3800	1220	3200	3100	3100	3000	2600	2500	/	/	/	φ2500	φ3100	φ3250	24-φ45	2500	2400	12-φ45	φ1800	φ1970	φ2045	φ44-φ39
1800HLKS																								
1800HLBK	≥6800	2500	1650	1220	3200	3100	3100	3000	2600	2500	5×450	5×440	24-φ50	/	/	/	/	/	/	/	/	/	/	/
1800HLB																								
2000HLBS	≥3600	1400	4000	1320	3600	3500	3450	3350	2850	2750	/	/	/	φ2750	φ3350	φ3500	24-φ50	2700	2600	12-φ50	φ2000	φ2180	φ2265	φ48-φ42
2000HLKS																								
2000HLBK	≥7200	2600	1600	1320	3600	3500	3450	3350	2850	2750	5×550	5×550	24-φ50	/	/	/	/	/	/	/	/	/	/	/
2000HLB																								
2200HLBS	≥4000	1500	4200	1600	3700	3600	3500	3400	3100	2900	/	/	/	φ3000	φ3600	φ3750	24-φ50	2900	2700	12-φ50	φ2200	φ2390	φ2475	φ52-φ42
2200HLKS																								
2200HLBK	≥8100	2800	1700	1600	3700	3600	3500	3400	3100	2900	5×560	5×520	24-φ50	/	/	/	/	/	/	/	/	/	/	/
2200HLB																								
2400HLBS	≥8000	1600	4400	1800	4350	4250	4200	4100	3600	3500	/	/	/	φ3500	φ4100	φ4250	30-φ65	3400	3300	12-φ65	φ2400	φ2600	φ2685	φ56-φ42
2400HLKS																								
2400HLBK	≥10000	2900	2000	1800	4350	4250	4200	4100	3600	3500	7×500	6×550	30-φ65	/	/	/	/	/	/	/	/	/	/	/
2400HLB																								
2600HLBS	≥8000	1700	4600	2200	4750	4650	4600	4500	4000	3900	/	/	/	φ3800	φ4400	φ4550	30-φ65	3800	3700	12-φ65	φ2600	φ2810	φ2905	φ60-φ48
2600HLKS																								
2600HLBK	≥11000	3000	2200	2200	4750	4650	4600	4500	4000	3900	7×550	6×550	30-φ65	/	/	/	/	/	/	/	/	/	/	/
2600HLB																								

HLB (K) 型立式斜流泵

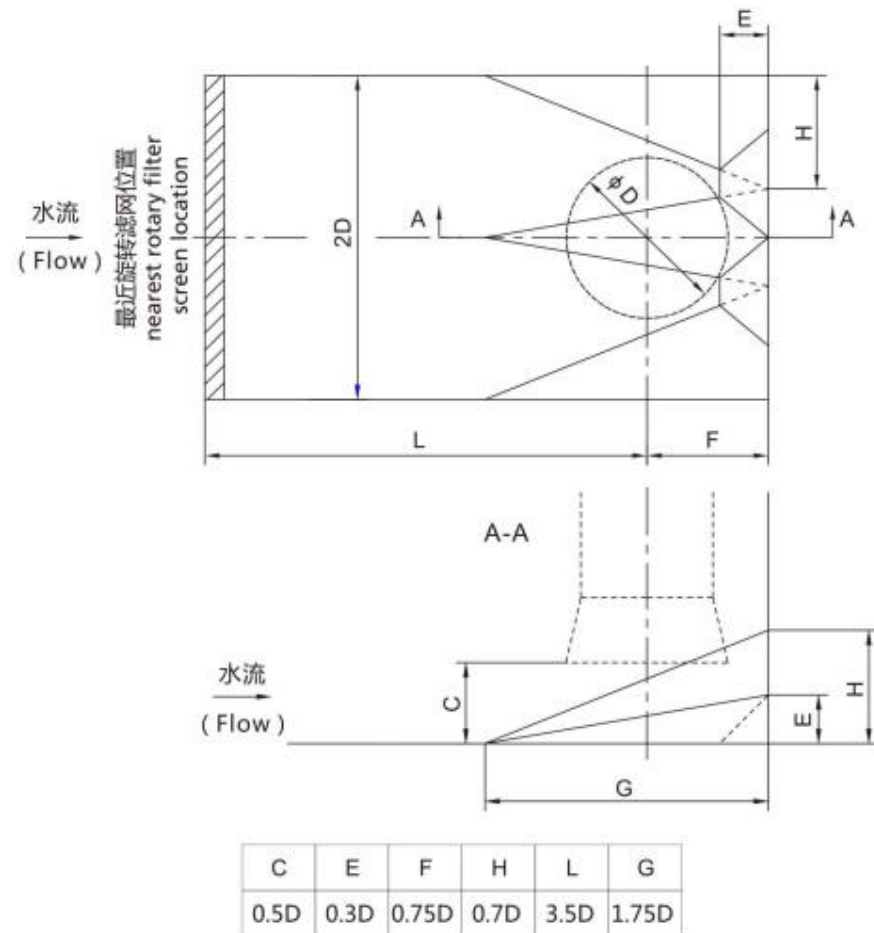
TYPE HLB (K) VERTICAL MIXED FLOW PUMP

吸入喇叭口直径D Suction Bell Diameter D

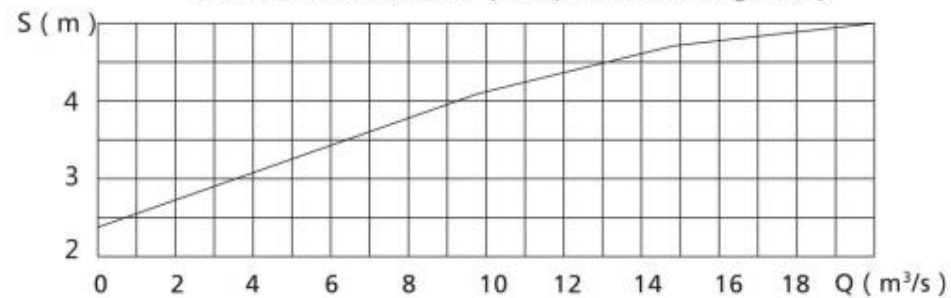
吸入口径 (mm) Inlet Dia.(mm)	450	500	550	600	650	700
流量范围 (m³/s) Capacity (m³/s)	0.2~0.29	0.29~0.35	0.35~0.42	0.42~0.5	0.5~0.6	0.6~0.7
吸入口径 (mm) Inlet Dia.(mm)	800	900	1000	1100	1200	1300
流量范围 (m³/s) Capacity (m³/s)	0.7~0.9	0.9~1.15	1.15~1.4	1.4~1.7	1.7~2.0	2.0~2.4
吸入口径 (mm) Inlet Dia.(mm)	1400	1500	1650	1800	1950	2100
流量范围 (m³/s) Capacity (m³/s)	2.3~2.8	2.8~3.2	3.2~3.85	3.8~4.6	4.5~5.4	5.2~6.2
吸入口径 (mm) Inlet Dia.(mm)	2300	2500	2700	2900	3120	3350
流量范围 (m³/s) Capacity (m³/s)	6.2~7.5	7.4~8.8	8.6~10.5	9.9~11.9	11.5~13.8	13.2~16

吸水池推荐尺寸图

Recommended Suction Pool Dimension



泵所需的淹没深度S (Required Submergence)



湖南立佳机械制造有限公司集中了水泵、矿山、化工机械等传统机械制造的优势，并且与时俱进，依托人才优势，研发了矿山、水电、电力等行业的报警、预警及自动控制系统，该系列产品远销世界各地。2001年6月，公司开始实施新的整合计划，现在已经完成湘阴制造基地一期工程。一期工程新厂房占地100亩，钢结构标准厂房建筑面积1.4万平方米，拥有全新先进设备及现代化的测试中心，可测试水泵的口径达2.2米，动平衡转子半径1.6M，净重5T。我公司是一家专业的水泵生产厂，产品广泛应用于市政、石油化工、污水处理、建筑、消防及OEM等市场。公司产品主要有：CCB系列餐厨垃圾泵、LC系列立式长轴泵、YW系列液下污水泵、RV-SP系列立式渗滤液泵、JLTDN系列小机凝结水泵、KDS系列多级中开双吸泵、JZL系列立式砂浆泵(渣浆泵)、自吸离心泵、立式标准离心泵、H系列直角齿轮箱、水泵成套设备以及消防机组等。我公司生产高品质的水泵，产品远销世界各地四十多个国家和地区，在污水泵及液下泵生产领域具有较强的国际影响力。公司一贯秉承精益求精的精神，致力于为客户提供高品质、高性能的水泵产品。

公司同众多高校和科研院所建立和保持良好的技术交流与合作关系，致力于开发和生产具有自己独特技术优势和独立知识产权的泵类产品、输煤以及化工机械。2001年，与江苏理工大学、华中科技大学合作，引进并改进国际先进的Q泵水力模型，开发出了独具特色的CCB系列餐厨垃圾处理泵及RV-SP系列渗滤液泵。2003年，与中南大学粉冶所共同研制新型的耐磨耐腐蚀材料长轴泵，该系列泵在煤矿排水、电厂脱硫等行业取得巨大成功。今天，立佳机械产品已经形成了49个系列，1126个品种，3600个规格。

为顾客提供安全可靠、性能卓越的产品是公司的宗旨；跻身世界机械制造业前列是公司追求的目标；在ISO9001:2000质量体系控制下，精心设计、精心制造，提供良好的售前、售中和售后服务是公司永恒承诺。

“路漫漫其修远兮，吾将上下而求索”。公司遵循“严谨、务实、诚信、进取”的理念，坚持以“求发展为要 谋众福为责”的指导思想，朝着做精做强目标，为成为世界一流机械业生产商、实现行业领先、世界知名的目标而不竭激情，锲而不舍地追求。