



用揚子江的神奇
創造神奇的揚子江

MD型 矿用耐磨多级离心泵

- 通过ISO9001-2000质量管理体系认证
- 获泵产品生产许可证
- Certified by quality control system of ISO9001-2000
- Awarded with Pump Manufacturing License

产品使用说明书



湖北揚子江泵業有限公司
HUBEI YANGZI RIVER PUMP CO., LTD.

2013版



扬子江系列产品

Series Products Of Yangtze



MD型矿用耐磨多级泵



BZ型渣浆泵



BD型盾构系统专用泵



D型多级泵



BZ型渣浆泵



立式轴流泵



LQG型高温沥青泵（国家级新产品）

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⚠ 警告

- 1、安装使用本水泵前务必通读产品使用说明书。安装、使用和维修必须按说明书的规定进行。
- 2、泵用于煤矿井下时，必须配套隔爆型电动机：
A)、YB、YB2型电动机，可用于井下，但不得用于采掘工作面；YBK型电动机可用于采掘工作面；Y系列电动机不允许在煤矿井下使用。
B)、隔爆型电动机，必须选用在安全标志有效期内生产的产品。
- 3、在调整泵与电动机联轴器间隙前必须将泵轴向泵联轴器方向最大限度外拉，然后再按本说明书关于间隙调整的要求进行调整，以防泵运转后泵轴与电机轴相抵发生断轴或发生电机烧毁事故。
- 4、泵必须安装联轴器防护罩，以防发生人身伤害事故。
- 5、泵不允许在无液体介质或泵内未充满液体介质状态下起动和运行。
- 6、在安装、维修泵机组前必须切断电源，电动机应进行可靠的接地，以防人员触电。
- 7、安装时应确认原动机转向是否正确，严禁水泵反向运行。

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一、引用标准

Sources of Standards

MD型系列泵按照MT/T114-2005《煤矿用多级离心泵》技术条件标准设计制作。

The MD pump series are designed and manufactured in Technical Specifications with Technical Specifications for MT/T114-2005 «Colliery Centrifugal Wear-resisting Water Pump».

二、概述

General Description

湖北扬子江泵业有限责任公司（原国家二级企业石首市水泵厂）是原机械部工业泵定点生产厂，具有五十多年生产的历史，技术实力雄厚，具有铸造、锻造、热处理、加工、装配、检测等生产工艺全过程装备。主导产品有：渣浆泵、盾构系统专用泵、多级离心泵、轴流泵、单级离心泵、化工泵、螺杆泵、高温沥青泵等。

MD型煤矿用耐磨多级离心泵，适用于各种矿山排水，特别适应水质条件差含少量煤尘、泥沙和强腐蚀性液体的输送。过流部件采用耐磨材料，各配合表面采取特殊工艺处理。泵性能范围广，具有效率高、汽蚀性能好、耐磨损及使用寿命长等特点。适用于流量为 $6.3\text{--}1210\text{m}^3/\text{h}$ ，扬程为 $50\text{--}1800\text{m}$ 的各种工况。液体最高温度 80°C 。主要用于矿山、煤矿井下排水，也可适应城市、工厂等给排水。

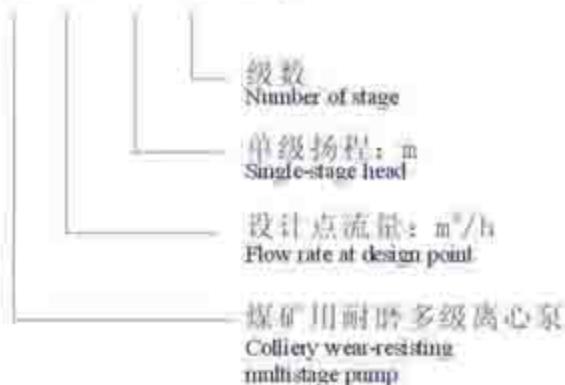
Hubei Yangzijiang Pump Works Co., Ltd. (former Water Pump Factory of Shishou, Grade II National Enterprises) is a fixed manufacturer producing industry pump by Mechanical Ministry, having the history of pump produced for more than 50 years with influential technology, possessing the whole course equipment of production process production such as casting, forging, heat treatment, processing, assembling, check and measuring, etc. The leading products are as follows, liquid-solids handing pump, multistage centrifugal pump, single stage centrifugal pumps, chemical pump, screw pump, high-temperature pitch pump, etc.

MD horizontal single-suction multistage centrifugal pump is applicable for various kinds of mine drainage, especially for the conveyance of poor quality fluid containing slight coal dust, silt and with weak corrosive power. Abrasion resistance material is adopted for the fabrication of the cross-current parts, of which the matching faces are processed with specific technologies. The pump has wide performance range, and it is characterized by high efficiency, good performance in cavitation corrosion resistance and wearproof, long service life, etc. It's adaptable to various working conditions with $6.3\text{--}1210\text{m}^3/\text{h}$ flow rate, $50\text{--}1800\text{m}$ head and the fluid of not above the

temperature of 80℃. It is most used for mine or coal mine underground drainage, yet applicable for municipal or plant drainage.

◎ 型号意义说明 Description of the two types

例 MD580-70×(2-12)



三、结构说明 Structure Specification



Structure Specification

MD型是单吸、多级、节段式卧式离心泵，MD580、MD420、MD360、MD300型泵的首级叶轮为双吸结构形式，水平吸入，垂直吐出。各零件之间采用“O”型橡胶圈密封，避免液体渗入轴表面而导致锈蚀。

轴端装有轴向移动监视仪，平衡盘的磨损量允许范围为2~3mm，具体结构如下（见泵结构图）：

MD pump are both single-suction, multistage, sectional, and horizontal centrifugal pump, taking in water horizontally and draining vertically. The fist impellers of the pumps these are MD580, MD420, MD360, MD300 have the structural style of double suction. The rubber O-rings are used to seal between the parts, that avoids the liquid permeating the axis surface, causing corrosion.

The axial displacement monitoring instrument is installed above the axle head, and the scope that the wearing capacity of the balance runner is allowed, is between 2 and 3mm. The specific structure is as below (seeing the structure drawing of the pumps):

1、泵壳体部分

主要由进水段、中段、导叶、出水段等零件组成，用穿杠联接。进水段和轴承体、出水段和尾盖、尾盖和轴承体用螺栓联成一体。

The Parts of Pump casing

Mainly made up of such components as suction casing, middle casing, diffuser, delivery casing etc, which are linked with a piercing bar. Suction casing and the bearing housing, delivery casing and the tail hood, and the tail hood and the bearing housing were coupled up by bolts.

2、转子部分

主要由轴及安装在轴上的叶轮、叶轮挡套、轴套、轴承挡套及平衡盘等零件组成，轴上零件用平键和轴套螺母紧固使之与轴成为一体。整个转子由两端轴承支承在泵壳体上，转子部分中叶轮数目是根据泵的级数而定。转子用联轴器与电动机直接联接。

The Parts of Rotor

Mainly composed of the shaft as well as the impeller, the impeller baffle, the sleeve, bearing baffle and the balancing disc screwed up on the shaft with flat keys and sleeve nuts. The whole rotor is supported by the double-end bearing onto the pump case. The number of impellers in the rotor is decided by the numbers of stages of the pump.

3、平衡装置

泵采用能完全且自动平衡轴向力的平衡盘水力平衡装置。该装置由平衡板、平衡盘、承磨环、平衡盘体和平衡套四个零件组成。平衡泄漏水返回进水段。

Balancing device

The pump adopts the hydraulic disc-balancing device which can balance completely and automatically. This device is composed of the balancing plate, wear ring of the balancing disc, balancing disc and balancing sleeve. The leakage water from balancing device returns to the suction casing.

4、轴承部分

泵转子由单列、双列两个圆柱滚子轴承来支承，轴承采用脂润滑。轴承不承受轴向力，泵在运行中允许转子在泵壳体中轴向游动。

Bearing portions

The rotors are supported by a single-row cylindrical roller bearing and a double-row cylindrical roller bearing, which are lubricated by grease. The bearings do not bear axial thrust, and the rotors are allowed floating axially in pump casing during the operation of the pump.

5、泵的密封

泵的进水段、中段、出水段之间密封面均采用二硫化钼润滑脂密封，转子部分与固定部分之间靠密封环、导叶套、填料等密封。当密封环和导叶套的磨损量已影响泵的工作和性能时应及时更换。

填料环的位置安放要正确，填料的松紧程度必须适当，运行中以液体呈滴状渗出为宜。

Seal of the pump

Solidly lubricant grease is adopted for the sealing of the surfaces between the suction casing, middle casing, delivery casing and the sealing between the rotors and the housing is completed by seal ring, diffuser sleeve, fillings, etc. The seal ring and the diffuser sleeve should be replaced timely if the amount of wear of them is large enough to influence the operation of the pump.

The packing ring should be mounted correctly with the fillings of proper degree of tightness. It's appropriate during operation until the fluid oozes out in drops.

6、泵的旋转方向

从电机方向看，泵为顺时针方向旋转。

Direction of rotation of the pump

The pump's direction of rotation is clockwise toward the pump at the motor.

四、泵的装配与拆卸

Assembly and Disassembly of Pump

1、泵的拆卸

(1) 拆卸前的准备工作及注意事项：

- 检查电源开关的关闭情况，应注意防止驱动开关的意外闭合。
- 关闭截止阀。

- e、将泵腔内的积水排净。
- d、检查联轴器的对中性，检查并记录泵联轴器和电机联轴器间的间隙（见外形安装尺寸表中S尺寸），端面偏差 $\leq 0.06\text{mm}$ ，外圆偏差 $\leq 0.10\text{mm}$ 。 
- E、在拆卸过程中要按总装技术要求作好测量和记录，按装配顺序和方位作好标记，标明是哪一级的，在重新装泵时，应严格按照这个顺序进行。
- f、拆卸过程中，应保护精加工面，防止磕碰划伤。

Disassembly of pump

(1) Preparations and precautions before disassembly

- a. Check whether the electrical power is switched off, prevent the driving switch shutting off unexpectedly.
- b. Close the cut-off valve.
- c. Drain off the remaining water inside the pump.
- d. Check the alignment of the shaft coupling, examine and note down the clearance between the shaft coupling of the pump and that of the motor (refer to the S size in the External Installation Dimension Sheet), end deviation $\leq 0.06\text{mm}$, cylindrical deviation $\leq 0.10\text{mm}$.
- e. During disassembly, make well measurements and records in conformity with the technical specifications of the general drawing, carefully mark the stages in the assembly sequence and direction which should be followed when reassemble the pump.
- f. During disassembly, the fine finish surface should be protected from being knocked or scratched.

(2) 泵的拆卸

- a、首先拆卸平衡回水管、水封水管及压力表管路。
- b、从非驱动端开始、拆卸轴承端盖、轴承体、轴套螺母、轴承、轴套。
- c、拆卸填料压盖、尾盖、平衡盘体。
- d、拆卸平衡板及平衡套。
- e、拆卸拉紧螺栓（暂保留2根）、吊走出水段，待拆卸的中段和轴要有支撑架（拆卸用），然后从出水段上拆下末级导叶。
- f、拆下末级叶轮和键。
- g、拆下末级中段和导叶。
- h、拆下叶轮挡套。
- i、按以上顺序一直拆到第一级叶轮。
- J、拆下联轴器、驱动端轴承体及轴承。
- K、取下轴和两根拉紧螺栓。

Disassembly of pump

- a. Firstly disassemble the balancing return pipeline, the water-sealed pipeline and the manometer pipeline.
- b. Disassemble the bearing end cap, the bearing housing, the sleeve nuts, the bearing and the sleeve from the non-driving end.
- c. Disassemble the packing gland, tail hood and balancing disc.
- d. Disassemble the balancing plate and balancing sleeve.
- e. Disassemble the tension bolts (reserve two provisionally), hoist away the delivery casing, the middle casing and the shaft waiting on disassembly must have bracing frame (for disassembly use), then disassemble the last diffuser from the delivery casing.
- f. Disassemble the impeller and key in the end stage.
- g. Disassemble the last middle casing and diffuser.
- h. Disassemble the impeller baffle.
- i. Disassemble till the primary impeller in accordance with the above sequence.
- j. Disassemble the coupling, the bearing housing and the bearing.
- k. Unbolt the shaft and the two tension bolts.

2、泵的装配**(1) 装配中应注意以下几点：**

a、固定部分各零件组合后的同心度靠零件制造精度和装配质量来保证，应保护零件的加工精度和表面粗糙度，不允许碰、划伤。作密封用的二硫化钼应干净。紧固用的螺钉、螺栓应受力均匀。

b、叶轮出口流道与导叶进口流道的对中性是靠各零件的轴向尺寸来保证。流道对中性的好坏直接影响泵的性能，故泵的零件尺寸不能随意调整。

C、所有泵零件，特别是互相配合的精加工表面都必须彻底清理干净。

Assembly of pump

The following points should be noted during assembly :

a. The concentricity of the various fixed parts after assembly should be guaranteed by the manufacturing precision and the quality of assembly. The process precision and the surface irregularity of the parts needing protection is not allowed to be knocked or scratched. And the molybdenum disulfide used for seal should be clean. The fastening screws and bolts should be under even stress.

b. The alignment of the impeller outlet flow passage and the inlet flow passage of the guide blade is guaranteed by the axial dimension of the various parts.

c. All the pump parts, especially the interworking fine finish surfaces must be cleaned up thoroughly.

(2) 泵的装配

a. 试装转子部件

转子的零件维修或更换后，要重新试装，然后测量叶轮密封环，轴套外径、叶轮挡套外径、平衡盘体轮毂及平衡盘体端面的跳动值，均不得超过规定的允许值。

更换新叶轮或修整旧叶轮后，必须对转子做平衡试验。

记住紧固轴套的螺母的方位，然后全部拆开待总装。

b. 把导叶套装入导叶内，用螺钉固定。把次级密封环装入中段，把首级密封环装入进水段。

c. 把导叶装入中段，末级导叶、平衡板和平衡套装入出水段。

d. 然后按上述拆卸泵的相反顺序装配。

e. 总装配时，紧固轴套的螺母位置（驱动端）应与转子部件试装时的位置相同。

f. 泵装配完毕后（未装填料），用手盘动泵转子，检查转子在壳体内转动是否灵活，轴向窜动量是否达到规定要求。

g. 检查符合要求后，在泵两端轴封处加入填料，注意填料环在填料腔中的位置。

Assembly of pump

a. Trial assembly of the rotor parts

After repairing or replacing the rotor parts, try to reassembled them, and then measure the seal ring of the impeller, the outside diameter of the shaft sleeve, the outside diameter of the impeller, the wheel hub of the balancing disc as well as the fluctuation value of the end surface of the balancing disc. None of the measurements could exceed the specified permissible value.

Having been replaced with a new one or being repaired, the rotors must go through a balance test.

Note down the directions of the fastening axle sleeve and of the nut, and then disassemble them for final assembly.

b. Install the diffuser sleeve into the diffuser and fasten it with screws. Install the secondary seal ring into the intermediate section, and the primary seal ring into the suction casing.

c. Install the diffuser into the middle casing, and the last diffuser, the balancing plate and the balancing sleeve into the delivery casing.

d. Then assemble the pump counter to the disassembly sequence above-mentioned.

e. During final assembly, the position of the nut (driving end) should be the same as the position of the rotor parts during trial assembly.

f. After the final assembly (the fillings not added), turn the pump rotor with hand to check whether it rotates flexibly in the casing and whether the axial play is up to standard.

g. If the results meet the requirements, add fillings to the shaft seal points at the double ends of the pump, noticing the position of the packing ring in the packing chamber.

五、泵的安装

Installation of Pump

1. 安装前注意事项

A、用于矿井下运行的 MD 型泵，必须采用防爆电机并要求具有相应的防护等级和防爆标志。▲

B、泵的基础需经有关部门检验，尺寸符合基础图后，方可交付安装。

c、基础应水平、光滑，用汽泡水平仪检查水平度。

d、基础灌浆时，留出泵座和电机座的地脚螺栓孔的位置，待水泥干固后方能安装泵和电动机。灌浆充分不得有空洞，要连续进行不得有长时间的中断。灌浆的好坏直接影响泵机组的振动和噪音，所以要小心慎重。

Precautions before installation

a. The MD pump used under the mine must adopt explosion proof motor and is required to possess corresponding protection level and explosion-proof mark.

b. The foundation of the pump need to be inspected by relevant departments, and could be delivered and installed only if its dimension conforms to the foundation drawing.

c. The foundation should be level, smooth. Its levelness should be checked with vapor bubble gradienter.

d. When grouting the foundation, make room for the foundation boltholes on the pump base and on the motor base, and emplace the pump and the motor only after the cement concretes. The grouting should be sufficient without leaving out any cavities, and be conducted continuously without longtime interruption. As the quality of the grouting will influence the vibration and noises of the pump assembly, be cautious about it.

2. 设备安装及初步找正

a、先将电动机安放在基础上，并使纵向、横向及高度方向上定位，用水平仪找正，然后再安放泵。

b、在泵和电机联轴器的圆周方向九点上检查轴向间隙值。注意电机与水泵组合安装时，应将泵联轴器端轴伸向外拉出，再保证泵和电机两联轴器之间的轴向间隙值。

c、检查和调整泵，电动机轴线的对准及两联轴器的平行度，使之达到规定要

求。

- d、泵座和电机座二次灌浆。
- e、为减少扬程损失，管道的安装应尽量克服弯头过多的现象，管子的弯头半径应较大，特别是进水管道。
- f、为防止停车时出现的倒转、水锤现象，在泵压出管道上应设截止阀。为调节流量，在泵压出管道上应设闸阀。
- g、管道安装完毕后，进一步检查泵和电动机联轴器的对中性。
- h、安装所有管道，如水封水管部件、平衡回水管部件。各管路应畅通，密封要严。
- i、泵只承受自身内力，不能承受任何外力。

Installation of the equipment and preliminary spotting

- a. Firstly emplace the motor on the foundation, orient it laterally, longitudinally and axially; make spotting; and then emplace the pump.
- b. Check axial-clearance amount at several points in the circumferential direction of the pump and of the shaft coupling. During the combining installation of the motor and the pump, it should be noticed to pull out the pump coupling with the end axle extrose, and then ensure the axial-clearance amount between the shaft coupling of the pump and that of the motor.
- c. Check and adjust the axial alignment and the parallelism of the two couplings of the pump and the motor, make them up to standard.
- d. Grout the pump base and the motor base for a second time.
- e. In order to lessen the head loss, too many elbows shall be avoided for the installation of the pipeline; and the radius of the pipe elbow, especially for the intake pipeline, should be bigger enough.
- f. In order to avoid inversion and water hammer during shut-down, stop valve should be mounted on the pressure exit pipeline of the pump. And in order to regulate the flow rate, gate valve should be installed on the pressure exit pipeline of the pump.
- g. After the installation of the pump, further check the alignment of the shaft coupling of the pump and the motor.
- h. Install all the pipelines, such as the water-sealed pipeline parts and the balancing return pipeline parts. The various pipelines should be smooth and sealed tightly.
- i. The pump only support the internal force of its own and cannot support any outside force.

六、泵的调试、起动、运行与停车

Adjusting, Start-up, Operation and Shut-down of Pump

1. 泵的调试

- a. 用压缩空气或清水清洗泵和管道。
 - b. 使泵和电动机脱开，检查电动机的转向是否符合泵转向的要求，如果不对，应更换电机电线接头。
 - c. 用手盘动转子，检查转子是否灵活。
 - d. 关闭泵出口闸阀和压力表旋塞，用输送的液体或抽真空系统排除吸入管和泵体内的空气。
 - e. 检查泵与电动机联接螺栓的松紧程度和泵周围的安全情况，使泵处于准备起动状态。
 - f. 起动电机，当电机达到额定转速后，打开压力表旋塞；当吐出压力表达到规定压力时，慢慢开启泵出口闸阀，并观察泵各处运转是否正常，有异常现象时应立即停机检查。
 - g. 检查平衡回水管和水封水管是否通畅。
- Adjusting of the pump**
- a. Use compressed air or clean water to wash the pump and the pipelines.
 - b. Disconnect the pump and the motor; check whether the rotation direction of the motor is up to standard, if not, the cable joints of the motor should be replaced.
 - c. Turn the rotor with hand to check whether the rotor is flexible.
 - d. Close the outlet gate valve of the pump and turn off the faucet of the manometer, use the conveyed liquid or vacuum pumping system to exhaust the air absorbed into the pipeline and the pump.
 - e. Check the degree of tightness of the coupling bolt between the pump and the motor, as well as the ambient safety condition for the pump, keep the pump in preparation for start-up.
 - f. Start up the motor, when it reaches the rated rotate speed, turn open the faucet of the manometer; when the specified pressure in outlet manometer is achieved, open the outlet gate valve by slow degrees, and observe whether everywhere of the pump operates normally, if not, shut down and inspect.
 - g. Check whether the balancing return pipeline and the water-sealed pipeline are smooth.

2、泵的起动

与调试部分相同。

Start-up of the pump

The same as Adjusting of the pump.

3、泵的运行

- a. 注意泵出口压力，用出口闸阀调节使其压力控制在所规定的范围内。
- b. 注意轴承的温升，一般轴承最高温度不高于70℃。
- c. 注意填料泄漏水是否正常（呈滴状为宜）。
- d. 为保证泵正常运行，平衡回水管绝对不允许堵塞。
- e. 泵转子在运行中存在一定的轴向游动，应保证泵和电机两联轴器端面间的间隙值。
- f. 定期做好运转记录。

Operation of the pump

- a. Pay attention to the outlet pressure, regulate it with the outlet gate valve to control it within the prescribed limit.
- b. Take notice of the temperature rise of the bearing. The common maximum temperature should not be higher than 70℃.
- c. There may be axial floating of the pump rotor during its operation, the axial-clearance amount between the shaft couplings of the pump and of the motor should be ensured.
- d. In order to keep the pump running smoothly, the balancing return pipeline must not be blocked.
- e. Make well the operating record timely.

4、停车

- a. 停车前先关压力表旋塞。
- b. 慢慢关闭出口闸阀。
- c. 待出口闸阀关闭完毕后再停电机。

Shut-down

- a. Turn off the faucet of the manometer before shut-down.
- b. Close down the outlet gate valve slowly.
- c. After the outlet gate valve closes down, shut down the motor.

七、泵维护与保养

Pump maintenance

要使泵能安全经济运行，寿命长，必须注意日常的维护与保养。泵在运行过程中，维护人员必须每天检查泵的螺栓螺母是否有松动现象，泵运行是否均速，声音是否正常，是否有振动等异常现象。维护人员必须每天做好设备运行记录。维护保养应注意以下几个方面：

1.轴封的维护

轴封应保持有水沿轴流过，定期调整填料压盖的松紧程度，允许填料在每分钟40滴左右的水不成线滴漏。

2.轴承的维护

维护人员应定期检查轴承温升及其润滑情况。润滑脂建议泵用GB7324-87锂基润滑脂2#、3#。润滑脂添加的间隔时间、注入量与泵的转速、轴承规格、周围环境和运转温度、每天工作时间等诸多因素相关，而且润滑脂过量或有杂质不清洁，都会引起轴承发热，因此用户必须根据实际情况合理及时添加、更换润滑脂。

3.平衡系统的检查

泵在运行一段时间后，如果发现两联轴器之间的距离有变化，应立即检查平衡板和平衡盘承磨环的磨损情况，并予以更换，否则泵将会引起振动。

4.装有平衡系统磨损检测仪的产品，可通过检测仪上的刻度直接观察到平衡系统的磨损情况，当磨损达到规定的最大值时，即可更换平衡系统的零部件。

5.备用泵应每周将轴转动1/4圈，以使轴承均匀地受静载荷和外部振动。

Enable the pump to be safe and economical in operation, life-span long must pay attention to the daily maintenance the pump on the move, the ascending personnel must inspect the pump's the screw bolts and the nuts every day for a phenomenon of working loose, whether the pump moves at uniform speed, and have a normal sound or vibration, and so on. The ascending personnel must make the record for the equipment on the move. Maintenance should pay attention to several the following aspect.

1.Maintenance of the gland seal

The gland seal should keep that the water flows along the axis, at the regular intervals the stuffing box gland's degree of tightness should be adjusted. Permissively the pump weeps about 40 drop per minute from the padding.

2.Maintenance of the axletree

The ascending personnel should inspect the tone of temperature rise and lubrication. We advise you to make use of GB7324-87 lithium base grease 2# 3# in the pump. Much factors will affect the time of appending grease, for example, the pump's rotate speed and addition working hours and so on. Superfluous grease or impurity can be at the bottom of the heat of the axletree, so users must append or fill in the grease promptly and reasonably.

3. Back-check of the balance system

After the pump worked in a period of time, if you discover the distance to have changes between tow coupling, you must inspect attention between balance runner and balance plate. Or else the pump will vibrate.

4. Those are the pump which install the balance system abrasion detecting instrument. By dint of looking into the scale interval in the instrumentation, the parts of the balance system will be displaced, when abrasion achieves the max.

5. As soon as the relay pump's axes be turned 1/4 lap every week, the axletree will equally receive dead load and vibration.

八、运输与贮存

Transit And Stockpile

泵在出厂前应做好包装箱，包装箱上应标注有吊装的指示箭头，将包装箱体牢固锁定，以防止泵在运输过程中发生碰撞损坏。防止雨淋以免泵锈蚀。配件以及有关泵文件要独立包装，以免散失。

Before leaving factory, we should complete the packing case of the pump. The hoisting arrow should be labeled in the packing case, and the packing case must be fixed securely to avoid that the pump is not damaged in transportation. We also shelter the pump from the rain. The pump files and fittings should be stored separately.

九、成套范围及易损件

Grade Of Service And Wearing Parts

成套范围包括：泵、底座、泵联轴器、电机联轴器、地脚螺栓、防护罩、专用扳手、按用户要求配套的电机、阀门等。

易损件包括：平衡板、平衡盘承磨环、平衡轴套、密封套、盘根轴套、叶轮、首次级密封环等零部件。

It's a package scope including: a pump, a foundation, a pump coupling, a electromotor coupling, some foundation bolts, a guard, a monkey spanner, and a self-contained complete electromotor. Vales those are required.

These are wearing parts, including: a balance plate, a balance runner wear ring, a balance axle bush, a seal gland, a padding axle bush, a impeller, gasket rings and so on.

十、MD型泵运行故障处理

Operational Trouble Shooting for MD Pump

故 障	原 因	解 决 方 法
● 水泵不吸水, 压力表及真空表的指针剧烈跳动。	注入水泵的水不够, 水管或仪表漏气。	再往水泵内注水, 拧紧或堵塞漏气处。
● 水泵不吸水, 真空表显示高度真空。	底阀没有打开, 或已淤塞, 吸水管阻力太大, 吸水高度太大或超过允许值。	校正或更改底阀, 清洗或更换吸水管, 降低吸水高度。
● 真空表水泵出水处有抽力, 而水泵仍不出水。	出水管阻力太大, 旋转方向不对, 叶轮淤塞, 水泵转速不够。	检查或缩短出水管及改变电机转向, 清洗叶轮, 增加水泵轴的转速。
● 流量低于预计。	水泵淤塞, 密封环磨损过多, 转速不足。	清洗水泵及管子, 更改密封环, 增加水泵轴的转速。
● 水泵消耗的功率过大。	填料压盖太紧, 叶轮磨损, 水泵供水量增加。	拧松填料压盖或将填料取出, 更换叶轮, 调节闸阀降低流量。
● 水泵在工作过程中, 出现异常声音, 流量下降直到不出水。	闸阀开得太大, 吸水管阻力过大, 在吸水处有空气渗入, 所输送液体温度过高。	调节闸阀以减低流量, 检查吸水管道, 检查底阀, 减少吸水高度, 拧紧或堵塞漏水处, 降低液体温度。
● 水泵振动。	泵轴或电机轴不在同一条中心线上。	把水泵和电机的轴中心线对准。
● 轴承过热。	没有油或油脏, 水泵轴或电机轴不在同一条中心线上。	注油或换油, 把轴中心对准。

Operational Trouble Shooting for MD Pump

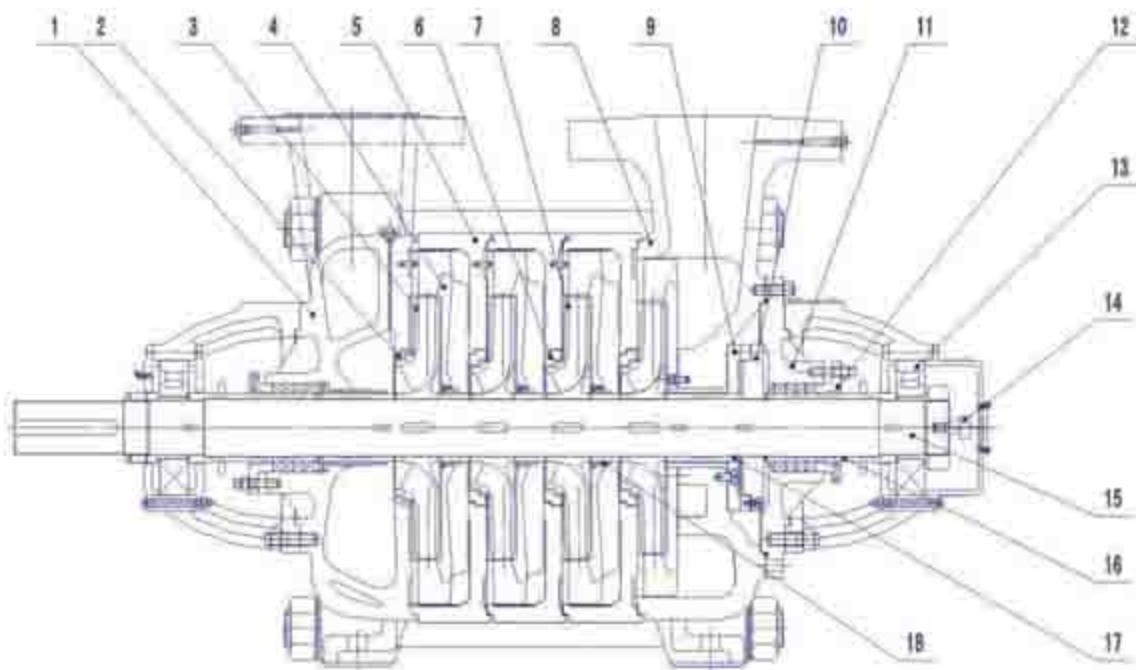


Operational troubles	Sources of trouble	Solutions
① The pump does not absorb water, with the fingers of the gauge and of the vacuum meter joining intensely.	Water injected into pump is not enough, there's air leakage in the pipes or the instruments.	Reinject water into the pump, screw down or plug the leak.
② The pump does not absorb water, the vacuum meter indicates microvac.	The bottom valve is closed or already silted up; there's too much resistance in the suction pipe; the suction head is too high or exceeds the permissible value.	Rectify or change the bottom valve; clean or replace the suction pipe, lower the suction lift.
③ The gauge indicates there is pressure to the pump, yet it does not drain water.	There's too much resistance in the outlet water pipe, the rotation direction is wrong, the impeller silted up, and the rotations of the pump is not enough.	Check or shorten the outlet water pipe and change the rotation direction of the motor, clean the impeller, increase the rotations of the pump shaft.
④ The rate of flow is below the estimation.	The water pump silted up, the seal ring wears heavily, the rotations are not enough.	Clean the pump and the pipe, change the seal ring, increase the rotations of the pump shaft.
⑤ The power of the pump consumed is too much.	The packing gland is too tight, the impeller wears, the water supply amount to the pump increases.	Loosen the packing gland or take out and the fillings, change the impeller, regulate the gate valve, reduce the flow rate.
⑥ The pump emits abnormal sounds during operation, the rate of flow drops until no water discharges.	The gate valve opens too much, there's too much resistance in the suction pipe and there's air infiltration at the suction point, the temperature of the liquid conveyed is too high.	Regulate the gate valve to decrease the flow rate, check the suction pipeline and the bottom valve, lower the suction head, screw down or plug the leak, decrease the temperature of the liquid.
⑦ The pump vibrates.	The shaft of the pump and of the motor are not in the same central line.	Align the center line of shaft of the pump and the motor.
⑧ The bearing is overheated.	The oil runs out or become dirty, the shaft of the pump and the motor are not in the same central line.	Infuse or change the oil, align the axes.

十一、MD型泵结构图

Structure Drawings of MD Pump

MD型泵结构图



1. 进水段 Suction casing	2. 直径密封环 Primary seal ring	3. 直径叶轮 Primary impeller	4. 扩叶器 Diffuser	5. 中段 Middle casing
6. 密封环 Seal ring	7. 叶轮 Impeller	8. 出水段 Delivery casing	9. 平衡板 Balancing plate	10. 平衡盘 Balancing disc
11. 尾盖 Tail hood	12. 填料压盖 Packing gland	13. 轴承 Bearing	14. 平衡系统监测器 Balance system monitors	15. 轴 Shaft
16. 轴套 Sleeve	17. 平衡套 Balancing sleeve	18. 扩叶器套 Diffuser sleeve		

十一、MD型泵性能参数表

Performance Charts of MD Pump

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Dia of impeller
		m ³ /h	L/s						
MD46-30	2	30	8.33	68	2950	64	8.68	2.4	φ 162
	3			60			10.74		
	4			54			11.89		
	5			102			13.02		
	6			90			16.11		
	7			81			17.84		
	8			136			17.36		
	9			120			21.48		
	10			108			23.79		
				170			21.7		
				150			26.85		
				135			29.74		
				204		70	26.04	3	φ 162
				180			32.21		
				162			35.68		
				238		68	30.38	3.3	
				210			37.58		
				189			41.63		
				272			34.72		
				240			42.95		
				216			47.58		
				306			39.06		
				270			48.32		
				243			53.53		
				340			43.4		
				300			53.96		
				270			59.47		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD46-50	2	30	8.33	111	2950	54	16.78	2.5	φ 210		
				100			19.88				
				92			21.52				
	3			166.5			25.19				
				150			29.83				
				138			32.28				
	4			222			33.59				
				200			39.77				
				184			43.04				
	5			277.5			41.98				
				250			49.1				
				230			53.8				
	6			333			50.38				
				300			59.65				
				276			64.56				
	7		46	388.5		63	58.78				
				350			69.6				
				322			75.32				
	8		55	444		64	67.2				
				400			79.52				
				368			86.08				
	9			499.5			75.56				
				450			89.48				
				414			96.84				
	10			555			83.97				
				500			99.42				
				460			107.6				
	11			610.5			92.37				
				550			109.36				
				506			118.36				
	12			666			100.8				
				600			119.28				
				552			129.12				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD54-16	2			40	2950	68	5.94	3.4	
				32			6.44		
				22			6.53		
	3			60		75	8.91	3.6	Φ 128
				48			9.67		
				34			9.8		
	4			80			11.88		
				64			13.07		
				45			12.89		
	5	36	10	100		68	14.85	4	
				80			16.11		
				56			16.33		
	6	54	15	120		75	17.82	4	
				96			19.6		
				67			19.33		
	7	72	20	140		68	20.79	4	
				112			22.55		
				78			22.87		
	8			160		68	23.76	4	
				128			25.78		
				90			26.13		
	9			180		68	26.73	4	
				101			29		
				144			29.4		
	10			200		68	29.73	4	
				160			32.25		
				110			32.7		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD85-45	2	55	15.3	102	2950	63	24.3	3.2	$\Phi 200$		
				90			28.9				
				78			30.1				
	3			153		72	36.4				
				135			43.4				
				117			45.5				
	4			204		70	48.5				
				180			57.8				
				156			60.7				
	5			255		106.2	60.6				
				225			72.3				
				195			75.9				
	6			306		115.6	72.8				
				270			86.7				
				234			91				
	7		23.6	357		121.1	84.9				
				315			101.2				
				273			106.2				
	8		27.8	408		130.1	97				
				360			115.6				
				312			121.1				
	9			459		136.6	109.1				
				405			121.2				
				351			142.8				
	10			510		151.8	125.4				
				450			152.7				
				390			155.9				
	11			561		166.6	136.8				
				495			174.5				
				429			174.5				
	12			612			136.8				
				540			166.6				
				468			174.5				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD85-67	2	55	15.3	147	2950	58	37.9	3.3	$\varphi 235$		
				134			45.6				
				122			48.8				
	3			222			57.3	4	$\varphi 235$		
				201			68.4				
				183			73.3				
	4			296			76.4	4.4	$\varphi 235$		
				268			91.2				
				244			97.7				
	5			370			95.6	4.4	$\varphi 235$		
				335			114				
				305			122.2				
	6			444			114.7	4.4	$\varphi 235$		
				402			136.9				
				366			146.6				
	7		23.6	518		68	133.8	4.4	$\varphi 235$		
				469			159.6				
				427			171				
	8		27.8	592		68	152.9	4.4	$\varphi 235$		
				536			182.4				
				488			195.4				
	9			666			172	4.4	$\varphi 235$		
				603			205.2				
				549			219.9				
	10			740			191.2	4.4	$\varphi 235$		
				670			228.2				
				610			244.4				
	11			811			209	4.4	$\varphi 235$		
				737			250.8				
				670			268				
	12			884			228	4.4	$\varphi 235$		
				804			274				
				731			292.6				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD100-25	2	72	20	56	2950	71	15.4	4.0	Φ 156		
				50			17.4				
				46			19.3				
	3			84		78	23.2	5.0	Φ 156		
				75			26.1				
				69			29				
	4			112		77	30.9				
				100			34.9				
				92			38.7				
	5			140		71	38.6				
				125			43.6				
				115			48.3				
	6		27.8	168		78	46.3				
				150			52.3				
				138			58				
	7		33	196		77	54.1				
				175			61				
				161			67.7				
	8			224		71	61.8				
				200			69.8				
				184			77.4				
	9			252		78	69.6				
				225			78.5				
				207			87				
	10			280		77	77.3				
				250			87.2				
				230			96.7				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD100-45	2	55	15.3	102	2950	63	24.3	3.2	$\Phi 200$		
				90			28.9				
				78			30.4				
	3			153		72	36.4				
				135			43.4				
				117			45.5				
	4			204		70	48.5				
				180			57.8				
				156			60.7				
	5			255		63	60.6				
				225			72.3				
				195			75.9				
	6		23.6	360		72	72.8				
				270			86.7				
				234			91.1				
	7		27.8	357		70	84.9				
				315			101.2				
				273			106.2				
	8			408		63	97				
				360			115.6				
				312			121.4				
	9			459		63	109.1				
				405			130.1				
				351			136.6				
	10			510		63	121.2				
				450			144.6				
				390			151.7				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD100-100	2	85	23.6	204	2950	64.5	76	4.2	$\varphi 258$		
				200			84.4				
				196			91.7				
	3			306			114.2				
				300			126.6				
				294			137.5				
	4			408			152.2				
				400			168.8				
				392			183.4				
	5			510			190.3				
				500			211				
				490			229.2				
	6			612			228.4				
				600			253.2				
				588			275.1				
	7		100	714		64	266.4				
				700			295.4				
				686			320.9				
	8		110	816			304.5				
				800			337.6				
				784			366.8				
	9			918			342.6				
				900			379.8				
				882			412.6				
	10			1020			380.6				
				1000			422				
				980			458.5				
	11			1122			418.7				
				1100			464.2				
				1075			502.9				
	12			1224			456.8				
				1200			506.4				
				1176			550.2				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD100-145	2	85	23.6	300	2950	56	124	3	φ 297		
				290			132				
				284			144				
	3			450		60	186				
				435			198				
				426			216				
	4			600		59	248	3.9	4.5		
				580			264				
				568			288				
	5			750			310				
				725			330				
				710			360				
	6		100	900			372				
				870			396				
				852			432				
	7		110	1050		60	434				
				1015			462				
				994			504				
	8			1200			496				
				1160			528				
				1136			576				
	9			1350			558				
				1305			594				
				1278			648				
	10			1500			620				
				1450			660				
				1420			720				
	11			1650			682				
				1595			726				
				1562			792				
	12			1180			744				
				1740			792				
				1704			864				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD125-25	2	100	20	56	2950	70.5	21.6	2.9	Φ 156		
				50			21.9				
				46			24.4				
	3			84		77.5	32.4	3.6			
				75			32.9				
				69			36.6				
	4			112			43.2	4.3			
				100			43.9				
				92			48.7				
	5			140			54				
				125			54.9				
				115			60.9				
	6		28	168			64.8				
				150			65.8				
				138			73.1				
	7		33	196			75.6				
				175			76.8				
				161			85.3				
	8			224			86.5	4.3			
				200			87.8				
				184			97.5				
	9			252			97.3				
				225			98.8				
				207			109.7				
	10			280			108.1				
				250			109.7				
				230			121.9				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller			
		m ³ /h	L/s									
MD150-100	2	120	33.4	206	2950	56	120	3.5	$\Phi 267$			
				200			135					
				194			162					
	3			309			180	3.8				
				300			204					
				291			243					
	4			412			240					
				400			272					
				388			324					
	5			515			300	4.2	$\Phi 267$			
				500			340					
				485			405					
	6		150	618			360					
				600			408					
				582			486					
	7		180	721		60	420					
				700			476					
				679			567					
	8			824		59	480					
				800			544					
				776			648					
	9			927			540					
				900			612					
				873			729					
	10			1030			600					
				1000			680					
				970			810					
	11			1133			660					
				1100			748					
				1067			891					
	12			1236			720					
				1200			816					
				1164			972					

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD155-30	2	119	33	64	1480	70	29.8	2.7	Φ 308		
				60			32.8				
				54			37.0				
	3			96		77	44.7	3.2	Φ 308		
				90			49.3				
				81			55.4				
	4			128		76	59.6				
				120			65.7				
				108			73.9				
	5			160			74.5	3.9	Φ 308		
				150			82.1				
				135			92.4				
	6		43	192		77	89.4				
				180			98.5				
				162			110.8				
	7		52.6	224		76	104.3				
				210			115.0				
				189			129.3				
	8			256			119.2	3.9	Φ 308		
				240			131.4				
				216			147.8				
	9			288			134.1				
				270			147.8				
				243			166.3				
	10			320			149.0				
				300			164.2				
				270			184.7				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD155-67	2	100	27.8	152	2950	64	64.7	4.5	Φ 235
	3			134			77		
	4			118			82.6		
	5			228			97		
	6			201			114.7		
	7			177			123.9		
	8			304		74	129.4		
	9			268			152.9		
	10			236			165.1		
				380		72	161.7		
				335			191.2		
				295			206.4		
			155	456		226.4	194	6	Φ 235
				402			229.5		
				354			247.7		
			185	532			267.7	6.5	Φ 235
				469			288.9		
				413			305.9		
				608		330.2	258.8		
				536			344.2		
				472			371.5		
				684		313.8	291.1		
				603			382.4		
				531			413.1		
				760					
				670					
				590					

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller			
		m ³ /h	L/s									
MD160-84	2	110	80.5	178	1480	63	95.0	3.0	Φ 476			
				166			118.0					
				160			135.4					
	3			267			142.5					
				252			177.0					
				240			203.4					
	4			356			190.0					
				336			236.0					
				320			270.8					
	5			445			285.0					
				420			295.0					
				400			338.5					
	6			534			285.0					
				504			345.0					
				480			406.2					
	7		160	623		61	332.5					
				588			413.0					
				560			474.0					
	8	190		712			380.0					
				672			472.0					
				640			541.6					
	9			801			427.5					
				756			531.0					
				720			609.3					
	10			890			475.0					
				840			590.0					
				800			677.0					
	11			979			522.5					
				924			649.0					
				880			744.7					
	12			1068			570.0					
				1008			708.0					
				960			812.4					

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD200-100	2	160	44.48	204	2950	65	136	3.8	Φ 269		
				200			152				
				196			172				
	3			306			204				
				300			228				
				294			258				
	4			408			272				
				400			304				
				392			344				
	5			510			340				
				500			380				
				490			430				
	6			612			408				
				600			456				
				588			516				
	7		55.6	714		72	476				
				700			532				
				686			602				
	8		63.95	816		71	544				
				800			608				
				784			688				
	9			918			612				
				900			684				
				882			774				
	10			1020			680				
				1000			760				
				980			860				
	11			1122			748				
				1100			836				
				1075			946				
	12			1224			816				
				1200			912				
				1176			1032				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD220-84	2	176	48.93	172	69	76	120	4.1	Φ 461		
				168			132				
				162			144				
	3			258			180				
				252			198				
				243			216				
	4			344			240				
				336			264				
				324			288				
	5			430			300				
				420			330				
				405			360				
	6			516			360				
				504			396				
				486			432				
	7		61.16	560		74	420				
				588			462				
				567			504				
	8		67.28	688			480				
				672			528				
				648			576				
	9			774			540				
				756			594				
				729			648				
	10			860			600				
				840			660				
				810			720				
	11			946			660				
				924			726				
				891			792				
	12			1032			720				
				1008			792				
				972			864				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD250-150	2	175	48.7	308	2950	65	226	3.9	Φ325		
				300			284				
				294			338				
	3			462		72	339				
				450			426				
				441			507				
	4			616		71	452	5.6			
				600			568				
				588			676				
	5			770			565				
				750			710				
				735			845				
	6			924			678				
				900			852				
				882			1014				
	7		250	1078		72	791				
				1050			994				
				1029			1183				
	8		300	1232			904				
				1200			1136				
				1176			1352				
	9			1386			1017				
				1350			1278				
				1323			1521				
	10			1540			1130				
				1500			1420				
				1470			1690				
	11			1694			1243				
				1650			1562				
				1617			1859				
	12			1848			1356				
				1800			1704				
				1764			2028				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD280-43	2	190	52.8	94	1480	73	66.6	3	Φ 360
	3			86			81.9		
	4			76			91.7		
	5			141			99.9		
	6			129			122.9		
	7			114			137.6		
	8			188			133.2		
	9			172			163.8		
	10			152			183.5		
				235			166.5		
				215			204.8		
				190			229.4		
				282		80	199.8	3.8	Φ 360
				258			245.8		
				228			275.3		
				329	78	78	233.1	4.3	Φ 360
				301			286.7		
				256			309.1		
				376	1480	78	266.4	4.3	Φ 360
				344			327.7		
				304			367.1		
				423	1480	78	299.7	4.3	Φ 360
				387			368.7		
				342			412.9		
				470	1480	78	333.0	4.3	Φ 360
				430			409.6		
				380			458.8		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD280-65	2	187	51.8	143	1480	70	104	2.9	Φ 435		
				130			134				
				118			146				
	3			215			156				
				195			201				
				178			220				
	4			286			207				
				260			268				
				236			291				
	5			358			260				
				325			335				
				295			364				
	6			429			312				
				390			402				
				355			438				
	7		78	500		76	364	3.6	Φ 435		
				455			469				
				413			510				
	8		93.3	572		74	416	4.2			
				520			537				
				472			583				
	9			643			468				
				585			604				
				531			656				
	10			715			520				
				650			671				
				590			730				
	11			786			572				
				715			737				
				650			803				
	12			858			624				
				780			804				
				709			876				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD280-100	2	196	54.5	206	2950	68	150	3.4	$\varphi 281$		
				200			196				
				190			248				
	3			309		78	225				
				300			294				
				285			372				
	4			412	76	76	300	4.4	$\varphi 281$		
				400			392				
				380			496				
	5			515			375				
				500			490				
				570			620				
	6			721			450				
				700			588				
				665			744				
	7		77.8	721			525				
				700			686				
				665			868				
	8		93.4	824			600				
				800			784				
				760			992				
	9			927			675				
				900			882				
				855			1116				
	10			1030			750				
				1000			980				
				950			1240				
	11			1133			825				
				1100			1078				
				1045			1364				
	12			1236			900				
				1200			1176				
				1140			1488				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD300-65	2	200	55.5	140	1480	76	108.8	3.79	φ 435		
				130			139.8				
				120			159				
	3			210			163.2				
				195			210				
				180			238.5				
	4			280			217.6				
				260			280				
				240			318				
	5			350			326.4				
				325			349				
				300			397.5				
	6			420		70	326.4				
				390			419				
				360			477				
	7		300	490		76	380.8				
				455			489				
				420			556.5				
	8		360	560		74	453.2				
				520			559				
				480			636				
	9			630			489.6				
				585			629				
				540			715.5				
	10			700			544				
				650			699				
				600			795				
	11			770			598.4				
				715			769				
				660			874.5				
	12			858			667				
				780			839				
				709			939				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD300-80	2	200	55.5	168	1480	69	132.4	3.79	φ 480		
				160			172.0				
				152			201.4				
	3			242			198.6				
				240			258				
				228			302.1				
	4			336			264.8				
				320			344.0				
				304			402.8				
	5			420			311.0				
				400			430.0				
				380			503.5				
	6			504			397.2				
				480			516.0				
				456			604.2				
	7		83.3	588		76	463.4				
				560			602.0				
				532			704.9				
	8		100	672		74	529.6				
				640			688.0				
				608			805.6				
	9			756			595.8				
				720			774.0				
				684			906.3				
	10			840			662.0				
				800			860.0				
				760			1007.0				
	11			424			728.2				
				880			946.0				
				836			1107.7				
	12			1008			799.4				
				960			1032.0				
				912			1208.4				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller			
		m ³ /h	L/s									
MD300-94	2	230	63.8	196	1480	72	170.2	3.38	φ 504			
				186			202.0					
				180			228.4					
	3			294			255.3					
				282			303.0					
				270			342.6					
	4			392			340.4					
				376			404.0					
				360			456.8					
	5			490			425.5					
				470			505.0					
				450			571.0					
	6			588		76	510.6					
				564			606.0					
				540			685.2					
	7		300	686			595.7	3.63				
				658			707.0					
				5630			799.4					
	8		345	784		74	680.8	4.15				
				752			808.0					
				720			913.6					
	9			882			966.0					
				846			909.0					
				810			1027.8					
	10			980			854.0					
				940			1010.0					
				900			1142.0					
	11			1078			936.1					
				1034			1111.0					
				990			1256.2					
	12			1176			1021.2					
				1128			1212					
				1080			1370.4					

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD300-150	2	240	66.7	310	2950	72	312	3.2	$\varphi 330$		
				300			340				
				292			380				
	3			465			468				
				450			510				
				438			670				
	4			620			624				
				600			680				
				584			760				
	5			775			780				
				750			850				
				730			950				
	6			930		76	936				
				900			1020				
				876			1140				
	7	300	83.4	1085		74	1092	3.8	$\varphi 330$		
				1050			1190				
				1022			1330				
	8	340	94.5	1240			1248				
				1200			1360				
				1168			1520				
	9			1395			1404				
				1350			1530				
				1314			1710				
	10			1550			1560				
				1500			1700				
				1460			1900				
	11			1705			1716				
				1650			1870				
				1606			2090				
	12			1860			1872				
				1800			2040				
				1752			2280				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller				
		m ³ /h	L/s										
MD360-92	2	280	77.7	192	1480	68	213.0	4.03	φ 504				
				184			231.2						
				178			261.2						
	3			285			319.5	4.3					
				276			346.8						
				267			391.8						
	4			380			426.0						
				368			462.4						
				356			522.4						
	5			475			532.5						
				460			578.0						
				445			653.0						
	6			570			639.0						
				552			693.6						
				534			783.6						
	7		100	665		78	639.0						
				644			809.2						
				623			914.2						
	8	410		760		76	852.0	4.88					
				736			924.8						
				712			1044.8						
	9			855			958.5						
				828			1040.4						
				801			1175.4						
	10			950			1065.0						
				920			1156.0						
				890			1306.0						
	11			1045			1171.5						
				1012			1271.6						
				979			1436.6						
	12			1140			1278.0						
				1104			1387.2						
				1068			1567.2						

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD360-94	2	280	77.7	194	72.5	81	204	2.62	Φ 509		
				188			227				
				182			257				
	3			291			306				
				282			341				
				273			386				
	4			388			408				
				374			452				
				362			512				
	5			485			510				
				470			569				
				455			643				
	6			582			612				
				564			682				
				546			772				
	7		100	679		79	714				
				658			796				
				637			900				
	8		113.8	776			816				
				752			910				
				728			1029				
	9			873			918				
				846			1024				
				819			1157				
	10			970			1020				
				940			1137				
				910			1286				
	11			1067			1122				
				1034			1251				
				1001			1414				
	12			1164			1224				
				1128			1364				
				1092			1542				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD400-110	2	320	88.9	224	1480	67	291.2	3.1	Φ 547		
				220			337.4				
				214			399.4				
	3			336		71	436.8				
				330			506.1				
				321			599.1				
	4			448		70	582.4				
				440			674.8				
				428			798.8				
	5			560		70	728				
				550			843.5				
				535			998.5				
	6			112		71	873.6				
				110			1012.2				
				107			1198.2				
	7		111.1	224		70	1019.2				
				220			1180.9				
				214			1397.9				
	8		133.3	336		70	1164.8				
				330			1349.6				
				321			1597.6				
	9			448		70	1310.4				
				440			1518.3				
				428			1797.3				
	10			560		70	1456				
				550			1687				
				535			1997				
	11			672		70	1601.6				
				660			1855.7				
				642			2196.7				
	12			784			1747.2				
				770			2024.4				
				749			2396.4				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD400-120	2	320	88.9	246	1480	65	329.6	3.0	φ 570		
				240			373.4				
				232			439.4				
	3			369			494.4				
				360			560.1				
				348			659.1				
	4			492			659.2				
				480			746.8				
				464			878.8				
	5			615			824				
				600			933.5				
				580			1098.5				
	6			738		70	988.8				
				720			1120.2				
				696			1318.2				
	7	400	111.1	861			1153.6	3.4	φ 570		
				840			1306.9				
				812			1537.9				
	8	480	133.3	984		69	1318.4	4.1			
				960			1493.6				
				928			1757.6				
	9			1107			1483.2				
				1080			1680.3				
				1044			1977.3				
	10			1230			1648				
				1200			1867				
				1160			2197				
	11			1353			1812.8				
				1320			2053.7				
				1276			2416.7				
	12			1476			1977.6				
				1440			2240.4				
				1392			2636.4				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD420-90	2	350	93.3	186	70	78	243.0	4.37	Φ 504		
				180			264.0				
				176			298.6				
	3			279			364.5				
				270			396.0				
				264			448.0				
	4			392			486.0				
				360			528.0				
				352			591.2				
	5			465			607.5				
				450			660.0				
				440			746.5				
	6			558			729.0				
				540			792.0				
				528			595.8				
	7	420	116.7	651	1480	77	850.5	5.23	Φ 504		
				630			924.0				
				616			1045.1				
	8	500	133.3	744			972.0				
				720			1056.0				
				704			1194.4				
	9			837			1093.5				
				810			1188.0				
				792			1343.7				
	10			950			1215.0				
				900			1320.0				
				840			1493.0				
	11			1023			1336.5				
				990			1320.0				
				968			1493.0				
	12			1188			1612.0				
				1080			1625.0				
				981			1734.0				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD420-96	2	350	97.3	196	72.4	77.8	258	4.5	Φ 511		
				192			282				
				186			328				
	3			294			387				
				288			423				
				279			492				
	4			392			516				
				384			564				
				372			656				
	5			490			645				
				480			705				
				465			820				
	6			588			774				
				576			846				
				558			984				
	7		420	686		77.2	903	4.8	Φ 511		
				672			987				
				651			1148				
	8		500	784			1032				
				768			1128				
				744			1312				
	9			882			1161				
				864			1269				
				837			1476				
	10			980			1290				
				960			1410				
				930			1640				
	11			1078			1419				
				1056			1551				
				1023			1804				
	12			1176			1548				
				1152			1692				
				1116			1968				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD420-115	2	335	93	236	67	71.1	321.2	3.2	Φ 572		
				230			369.8				
				224			435.6				
	3			354			481.8				
				345			554.7				
				336			653.4				
	4			472			642.4				
				460			739.6				
				448			871.2				
	5			590			803.0				
				575			924.5				
				560			1089.0				
	6			708			963.6				
				690			1109.4				
				672			1306.8				
	7	450	116.7	826	1480	70	1124.2	3.6	Φ 572		
				805			1294.3				
				784			1524.6				
	8	500	138.9	944			1284.8				
				920			1479.2				
				896			1742.4				
	9			1062			1445.4				
				1035			1664.1				
				1008			1960.2				
	10			1180			1606.0				
				1150			1849.0				
				1120			2178.0				
	11			1298			1766.6				
				1265			2033.9				
				1232			2395.8				
	12			1416			1927.2				
				1380			2218.8				
				1344			2613.6				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD420-120	2	335	93	246	1480	66.5	337.4	3.2	Φ 584		
				240			392.0				
				232			457.6				
	3			369			506.1				
				360			588.0				
				348			686.4				
	4			492			674.8				
				480			784.0				
				464			915.2				
	5			615			843.5				
				600			980.0				
				580			1144.0				
	6			738			1012.2				
				720			1176.0				
				696			1372.8				
	7	420	116.7	861		70	1180.9				
				840			1372.0				
				812			1601.6				
	8	500	138.9	984		69	1349.6				
				960			1568.0				
				928			1830.0				
	9			1107			1518.3				
				1080			1764.0				
				1044			2058.8				
	10			1230			1687.0				
				1200			1960.0				
				1160			2287.6				
	11			1353			1855.7				
				1320			2156.0				
				1276			2516.4				
	12			1476			2024.4				
				1440			2352.0				
				1392			2745.2				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD450-60	2	355	93.1	130	73	80	164.7	3.2	Φ 432
	3			120			186.1		
	4			113			197.3		
	5			195			247.1		
	6			180			279.2		
	7			171			298.5		
	8	450	125	260			329.4		
	9			240			372.3		
	10	500	138.9	228			398.2		
	11			325			411.8		
	12			300			465.4		
				285			497.8		
				390			494.2		
				360			558.5		
				342			597.4		
				445			576.5		
				420			651.5		
				399			696.5		
				520			658.9		
				480			744.6		
				456			796.5		
				585			741.2		
				540			837.7		
				513			896.1		
				650			823.6		
				600			930.8		
				570			995.7		
				715			905.6		
				660			1023.4		
				627			1094.1		
				780			1047.1		
				720			1116.6		
				684			1193.7		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD450-85	2	335	93.1	184	73	80	230	3.2	Φ 504		
				170			260				
				160			276				
	3			276			345				
				255			390				
				240			414				
	4			368			460				
				340			520				
				320			552				
	5			460			575				
				425			650				
				400			690				
	6			552			690				
				510			780				
				480			828				
	7		125	644		79	805				
				595			910				
				560			966				
	8		138.9	736			920				
				680			1040				
				640			1104				
	9			828			1035				
				765			1170				
				720			1242				
	10			920			1150				
				850			1300				
				800			1380				
	11			1012			1265				
				935			1430				
				880			1518				
	12			1104			1380				
				1020			1560				
				960			1656				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD450-90	2	335	93.1	186	70	1480	230	3.2	Φ 502
	3			180			260		
	4			176			276		
	5			279		78	345		
	6			270			390		
	7		450	264			414		
	8			372		77	460		
	9			360			520		
	10	500	139	352			552		
	11			465			575		
	12			450			650		
				440			690		
				558			690		
				540			780		
				528			828		
				651			805		
				630			910		
				616			966		
				744			920		
				720			1040		
				704			1104		
				837			1035		
				810			1170		
				792			1242		
				930			1150		
				900			1300		
				880			1380		
				1023			1265		
				990			1430		
				968			1518		
				1116			1380		
				1080			1560		
				1056			1656		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD450-100	2	360	100	208	1480	72	283.2	3.5	Φ 570		
				200			326.8				
				188			349.8				
	3			312			424.8				
				300			490.2				
				282			560.4				
	4			416			566.5				
				400			653.6				
				376			747.2				
	5			520			708.1				
				500			817.0				
				470			934.0				
	6			624			849.7				
				600			980.4				
				564			1120.8				
	7		125	728		75	991.3				
				700			1143.8				
				658			1307.6				
	8		150	832			1133.0				
				800			1307.2				
				752			1494.4				
	9			936			1274.5				
				900			1470.6				
				846			1681.2				
	10			1040			1416.0				
				1000			1634.0				
				940			1868.0				
	11			1144			1557.7				
				1100			1797.4				
				1034			2054.8				
	12			1248			1699.3				
				1200			1960.8				
				1128			2241.7				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD450-110	2	360	100	226	1480	70.4	330.6	3.3	φ 579		
				220			382.8				
				214			455.8				
	3			339			495.9				
				330			574.2				
				321			683.7				
	4			452			661.2				
				440			765.6				
				428			911.6				
	5			565			826.5				
				550			957.0				
				535			1139.5				
	6			678		67	991.8				
				660			1148.4				
				642			1367.4				
	7		125	791		70.4	1157.1				
				770			1339.8				
				749			1595.3				
	8		150	904		69	1322.4				
				880			1531.2				
				856			1823.2				
	9			1017			1487.7				
				990			1722.6				
				963			2051.1				
	10			1130			1653.0				
				1100			1914.0				
				1070			2279.0				
	11			1243			1818.3				
				1210			2105.4				
				1177			2506.9				
	12			1356			1983.6				
				1320			2296.8				
				1284			2734.8				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD450-117	2	360	100	238	1480	67	348.2	3.1	$\Phi 597$
	3			234			404.4		
	4			226			474.6		
	5			357			522.3		
	6			351			606.6		
	7			339			711.9		
	8	450	125	476			696.4	3.6	$\Phi 597$
	9			468			808.8		
	10			452			949.2		
	11	540	150	595		70.9	870.5	4.4	$\Phi 597$
	12			585			1011.0		
				565			1186.5		
				714			1044.6		
				702			1213.2		
				678			1423.8		
				833			1218.7		
				819			1415.4		
				791			1661.1		
				952			1392.8		
				936			1617.6		
				904			1898.4		
				1071			1566.9		
				1053			1819.8		
				1017			2135.7		
				1190			1741.0		
				1170			2022.0		
				1130			2373.0		
				1309			1915.1		
				1287			2224.2		
				1243			2610.3		
				1428			2089.2		
				1404			2426.4		
				1356			2847.6		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD480-90	2	380	105.6	184	1480	78	264	3.8	Φ 504
	3			180			302		
	4			175			352		
	5			276			396		
	6			270			453		
	7			262.5			528		
	8		480	368			604		
	9			360			604		
	10			350			704		
	11			460			660		
	12		570	450			755		
				437.5			880		
				552			792		
				540			906		
				525			1056		
				664			924		
				630			1057		
				612.5			1232		
				736			1056		
				720			1208		
				700			1408		
				828			1188		
				810			1359		
				787.5			1584		
				920			1320		
				900			1510		
				875			1760		
				1012			1452		
				990			1661		
				962.5			1936		
				1104			1584		
				1080			1812		
				1050			2112		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller			
		m ³ /h	L/s									
MD500-57	2	450	125	120	80	79	184.0	3.0	Φ 432			
				114			192.0					
				108			205.0					
	3			180			276.0	4.7				
				171			287.5					
				162			307.5					
	4			240			368.0	5.0	Φ 432			
				228			383.5					
				216			410.0					
	5			300			460.0	3.0	Φ 432			
				285			479.5					
				270			512.0					
	6		500	360			551.5	4.7	Φ 432			
				342			575.0					
				324			614.5					
	7		550	420		81	643.5	5.0	Φ 432			
				399		671.0						
				378		717.0						
	8			480		735.5	5.0	Φ 432				
				456		767.0						
				432		819.0						
	9			540		827.5	5.0	Φ 432				
				513		862.5						
				486		912.5						
	10			600		919.5	5.0	Φ 432				
				570		958.5						
				540		1024.0						
	11			660		1011.5	5.0	Φ 432				
				627		1054.0						
				594		1126.5						
	12			720		1103.5	5.0	Φ 432				
				684		1149.8						
				648		1297.2						

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD550-50	2	450	125.0	106.4	78.9	81	165.3	3.3	Φ 400		
				100.0			185.1				
				90.4			198.9				
	3			159.6			248.0				
				150.0			277.6				
				135.6			298.4				
	4			212.8			330.7				
				200.0			370.1				
				180.8			397.9				
	5			266.0			413.4				
				250.0			462.6				
				226.0			497.4				
	6			319.2			496.1				
				300.0			555.2				
				271.2			596.9				
	7		152.8	372.4		80.5	578.8	3.5	Φ 400		
				350.0			647.7				
				316.4			696.3				
	8		180.6	425.6			661.5	4.6			
				400.0			740.2				
				316.6			795.8				
	9			478.8			744.1				
				450.0			832.8				
				406.8			895.3				
	10			532.0			826.8				
				500.0			935.3				
				452.0			994.8				
	11			585.2			909.8				
				550.0			1029.5				
				497.2			1094.4				
	12			638.4			992.6				
				600.0			1123.1				
				542.4			1193.8				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD580-60	2	450	125	130	79	82	202	3.16	Φ 440		
				120			231				
				110			239				
	3			195			302				
				180			346				
				165			359				
	4			260			403				
				240			462				
				220			479				
	5			325			504				
				300			578				
				275			599				
	6			390			605				
				360			694				
				330			718				
	7		161.1	455			706				
				420			809				
				385			838				
	8		177.2	520			806				
				480			924				
				440			958				
	9			585			907				
				540			1040				
				495			1077				
	10			650			1008				
				600			1155				
				550			1197				
	11			715			1109				
				660			1270.97				
				605			1316.9				
	12			780			1210				
				720			1386.5				
				660			1436.6				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD580-70	2	465	129.2	149	78.5	81	252	3.3	Φ 473		
				140			276				
				127			310				
	3			224			378				
				210			414				
				190.5			465				
	4			298			504				
				280			552				
				254			620				
	5			373			630				
				350			690				
				317.5			775				
	6			447			756				
				420			828				
				381			930				
	7		580	522			882				
				490			966				
				444.5			1087				
	8		700	596			1008				
				560			1104				
				508			1240				
	9			671			1130				
				630			1242				
				571.5			1395				
	10			745.0			1260				
				700.0			1380				
				635.0			1550				
	11			819.5			1386.0				
				770.0			1519.9				
				698.5			1706.6				
	12			894.0			1512.1				
				840.0			1658.0				
				762.0			1861.8				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD600-65	2	480	133.4	136	78.5	81	226	3.7	Φ 455		
				130			262				
				124			304				
	3			204			339				
				195			393				
				186			456				
	4			272			452				
				260			524				
				248			608				
	5			340			565				
				325			655				
				310			760				
	6			408			678				
				390			786				
				372			912				
	7		600	476		80	791				
				455			917				
				434			1064				
	8		720	544			904				
				520			1048				
				496			1216				
	9			612			1017				
				585			1179				
				558			1368				
	10			680			1130				
				650			1310				
				620			1520				
	11			748			1243				
				715			1441				
				682			1672				
	12			816			1356				
				780			1572				
				744			1824				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD600-93	2	480	133.4	192	1480	78.5	322	3.7	Φ 455		
				186			375				
				178			436				
	3			288		81	483				
				279			562.5				
				267			654				
	4			384		80	644				
				372			750				
				356			872				
	5			480			805				
				465			937.5				
				445			1090				
	6			576			966				
				558			1125				
				534			1308				
	7		600	672		80	1127				
				651			1312.5				
				623			1526				
	8		720	768			1288				
				744			1500				
				712			1744				
	9			864			1449.0				
				837			1687.5				
				801			1962.0				
	10			960			1610				
				930			1875				
				890			2180				
	11			964			1771				
				837			2062.5				
				801			2398				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD650-80	2			167.4			320	3.2	Φ 500
				160.0			349.9		
				150.4			384.1		
	3			251.1			480		
				240.0			524.9		
				225.6			576.2		
	4			334.8			639		
				320.0			699.9		
				300.8			768.3		
	5			418.5			799		
				400.0			874.9		
				376.0			960.4		
	6	550	152.8	502.2		78.5	959		
				480.0			1049.9		
				451.2			1152.5		
	7	650	180.6	585.9		1480	81		
				560.0			1119		
				526.4			1224.9		
	8	750	208.3	669.6		80	1344.6		
				640.0			1279		
				601.6			1399.9		
	9			753.3			1536.7		
				720.0			1438		
				676.8			1574.8		
	10			837.0			1728.7		
				800.0			1598		
				752.0			1749.8		
	11			920.7			1920.8		
				880.0			1759		
				827.2			1924.98		
	12			1004.4			2111		
				960.0			1918		
				902.4			2099.97		
							2305		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η (%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 $NPSH_r$ (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD650-90	2			188.3	1480	78.5	359	3.2	$\Phi 538$
				180.0			393.3		
				169.2			413.9		
	3			282.5			539		
				270.0			589.9		
				253.8			647.8		
	4			376.7			719		
				360.0			786.5		
				338.4			853.1		
	5			450.8			859.9		
				450.0			983.2		
				423.0			1079.7		
	6	550	152.5	565.0			1077.8		
				540.0			1179.8		
				507.6			1295.6		
	7	650	180.6	659.1			1257.3		
				630.0			1376.4		
				592.2			1511.5		
	8	750	208.3	753.5			1436.9		
				720.0			1573.0		
				676.8			1727.5		
	9			874.5			1616.6		
				810.0			1739.7		
				761.4			1943.0		
	10			941.6			1796.0		
				900.0			1966.0		
				846.0			2159.3		
	11			1035.8			1975.8		
				990.0			2162.9		
				930.6			2375.3		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD650-12I	2	460	127.7	252	75	80	420.6	5.8	Φ 585		
				242			536.0				
				234			612.6				
	3			378			631.0				
				363			803.0				
				351			919.0				
	4			504			841.2				
				484			1071.0				
				468			1225.2				
	5			630			1051.5				
				605			1339.0				
				585			1531.5				
	6			756			1261.8				
				726			1606.0				
				702			1837.8				
	7	650	180.6	882	78	80	1472.1	6.2	Φ 585		
				847			1875.0				
				819			2144.1				
	8	750	280.3	1008			1682.4	7.4	Φ 585		
				968			2143.0				
				936			2450.4				
	9			1134			1892.7				
				1089			2411.0				
				1053			2356.7				
	10			1260			2103.0				
				1210			2679.0				
				1170			3063.0				
	11			1386			2313.3				
				1331			2947.0				
				1287			3369.3				
	12			1512			2523.6				
				1452			3215.0				
				1404			3675.6				

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller
		m ³ /h	L/s						
MD700-127	2	500	138.8	264	76	80	472.6	5	Φ 605
	3			254			605.0		
	4			244			672.2		
	5			396			709		
	6			381			908		
	7			366			1008.3		
	8	700	194.4	528			945		
	9			508			1211		
	10			488			1344.4		
	11	800	222	660			1182		
	12			635			1514		
				610			1680.5		
				792			1418		
				762			1817		
				732			2016.6		
				924			1654		
				889			2118		
				854			2352.7		
				1056			1890		
				1016			2423		
				976			2688.8		
				1188			2127		
				1143			2725		
				1098			3025		
				1320			2363		
				1270			3028		
				1220			3361		
				1452			2599		
				1397			3331		
				1342			3697.1		
				1584			2836		
				1524			3634		
				1464			4033.2		

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD720-60	2	504	140.1	128	70	1480	250	3.8	Φ 448		
				120			294				
				114			338				
	3			192			375				
				180			440				
				171			507				
	4			256			500				
				240			588				
				228			676				
	5			320			625				
				300			735				
				285			845				
	6			384			750				
				360			882				
				342			1014				
	7	720	200.2	448	80	1480	875	4.3	Φ 448		
				420			1029				
				399			1183				
	8	864	240.2	512	79	1480	1000	5.4			
				480			1176				
				456			1352				
	9			576			1125				
				540			1323				
				513			1521				
	10			640			1250				
				600			1470				
				570			1690				
	11			704			1375				
				660			1617				
				627			1859				
	12			768			1500				
				720			1764				
				684			2028				

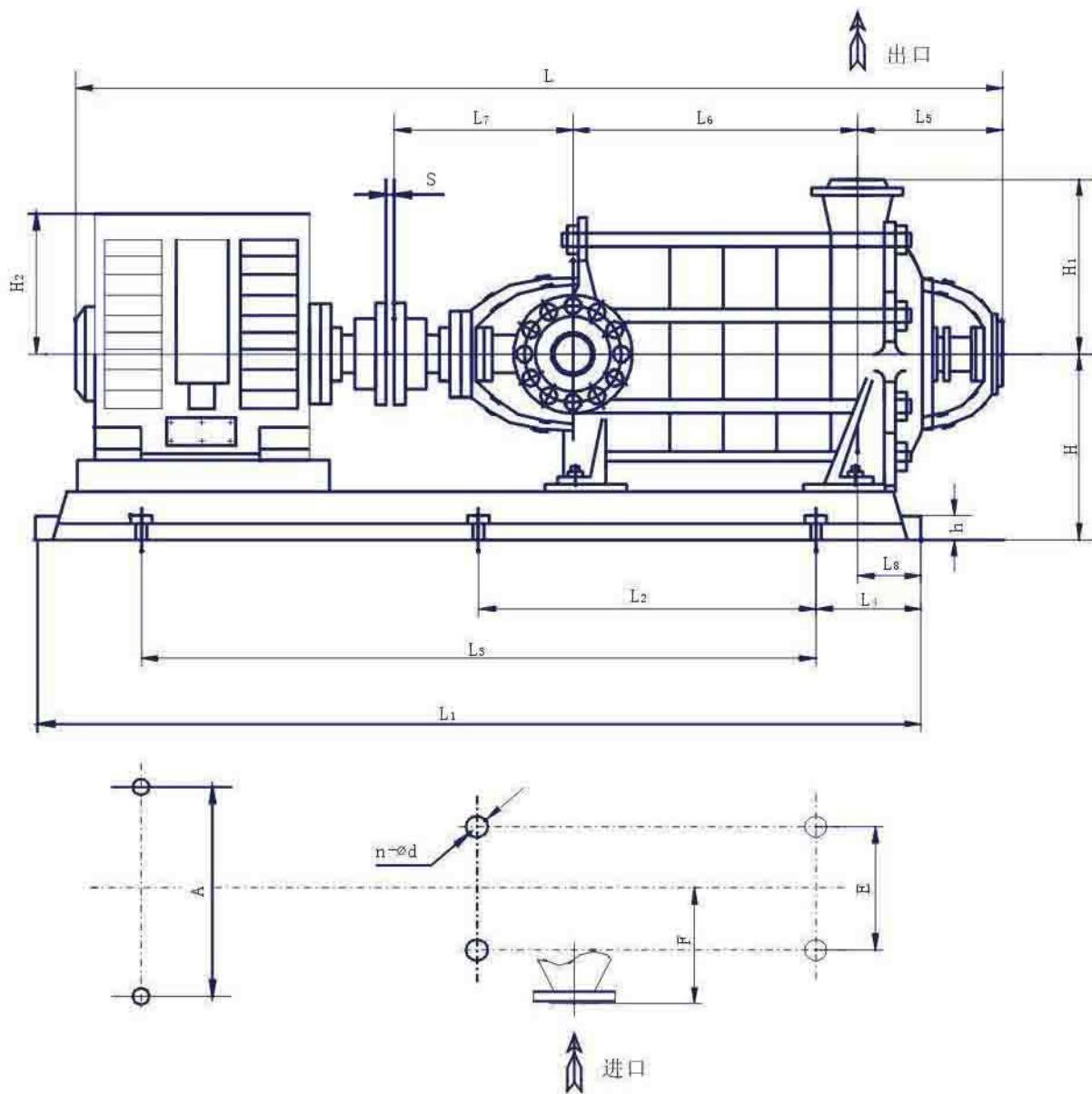
型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD800-70	2	640	177.9	146	78	326	4.8	Φ 479			
				140		376					
				136		406					
	3			219		489					
				210		564					
				204		609					
	4			292		652					
				280		752					
				272		812					
	5			365		815					
				350		940					
				340		1015					
	6			438		978					
				420		1128					
				408		1218					
	7		222.4	511		1141		5.4	Φ 479		
				490		1316					
				476		1421					
	8		244.6	584		1304		5.8			
				560		1504					
				544		1624					
	9			657		1467					
				630		1692					
				612		1827					
	10			730		1630					
				700		1880					
				680		2030					
	11			803		1793					
				770		2068					
				748		2233					
	12			876		1956					
				840		2256					
				816		2436					

型号 Type	级数 Number of stage	流量 Q Capacity		扬程 H(m) Head	转速 n(r/min) Speed	效率 η(%) Eff	轴功率 P(kW) Shaftpower	必需 汽蚀余量 NPSH _r (m)	叶轮直径 D(mm) Diaofimpeller		
		m ³ /h	L/s								
MD1100-86	2	880	244.6	178	1480	70	560	4.2	Φ 531		
				172			644				
				168			700				
	3			267		76	840				
				258			966				
				252			1050				
	4	1100	305.8	356		74	1120	4.9	Φ 531		
				344			1288				
				336			1400				
	5	1210	336.4	445			1400				
				430			1610				
				420			1750				
	6			534			1680	5.5			
				516			1932				
				504			2100				
	7			623			1960				
				602			2254				
				588			2450				

十二、MD型泵外形安装尺寸图表

External Dimension Diagrams of MD Pump

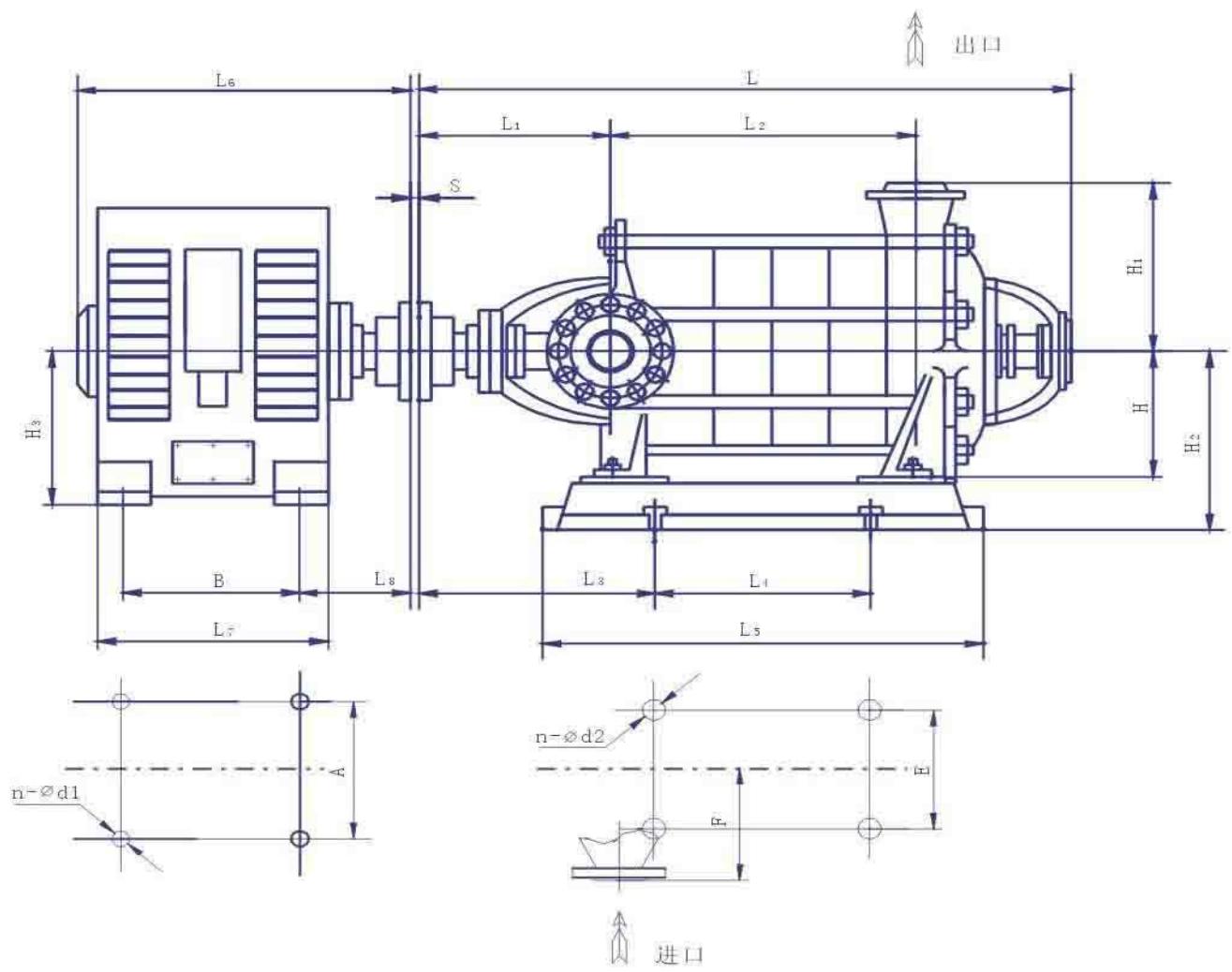
公用底座 (common base)



型号 Type	级数 Number of stage	安装尺寸 Installation Dimension										单位: mm						
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	E	A	F	H	H1	H2	h
MD46-30	2	1350	1185	840	190	280	330	165	3	485	485	210	260	210	225	40	4-Φ 24	
	3	1520						230										
	4	1690						295										
	5	1755						360										
	6	1820						425										
	7	1925						490										
	8	2105		1750	1120	230	330	555										
	9	2170						620										
	10	2305						685										
MD46-50	2	1697	1440	900	260	355	345	190	2	515	515	300	360	270	275	45	4-Φ 26	
	3	1757						250										
	4	1857						310										
	5	2162						370										
	6	2158	2050	530	1070	250	355	430										
	7	2268						490										
	8	2328	2190	730	1450	380	345	550										
	9	2582						610										
	10	2712						670										
	11	2772						730										
	12	2832						790										
MD54-16	2	1260	1010	635	175	275	275	229	2	500	500	220	250	230	183	4-Φ 27		
	3	1470						306										
	4	1589						383										
	5	1696	1276	850	180	263	263	460										
	6	1773						537										
	7	1981	1510	1100	415	285	285	614										
	8	2058						691										
	9	2135						768										
	10	2222						845										
MD85-45	2	1641	1250	850	200	304	325	203	4	520	520	250	325	250	225	30	4-Φ 27	
	3	1870						277										
	4	2014	1690	560	1120	310	325	351										
	5	2137						425										
	6	2312	2190	740	1480	365	325	499										
	7	2496						573										
	8	2570						647										
	9	2644						721										
	10	2718	1830	1100	415	285	285	795										
	11	2792						869										
	12	2866						934										

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension								单位: mm									
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	E	A	F	H	H1	H2	h	n-Φd
MD85-67	3	2448	2050	925	1850	100	479	371	559	-180	4	600	600	350	455	350	400	50	6-Φ 28
	4	2681						459		-63							530		
	5	2909	2500	1100	2200	150		547		-124									
	6	2967						635		-95									
	7	3055						723		-51									
	8	3353						811		98									
	9	3441						899		142									
	10	3659	3500	1500	3000	250		987		237									
MD100-25	2	1477	1215	1480	1010	250	245	262	272		2	560	560	360	375	275	40	4-Φ 25	
	3	1676	352					55											
	4	1806	442					120											
	5	2021	1555	530	1070			532		180									
	6	2111	1730	560	1120	360		622		300									
	7	2271	2210	710	1420	380		712	282										
	8	2361						802											
	9	2501						892		310	4	710	710	410					
	10	2548	2190	740	1480	365		982		400									
MD100-45	2	1641	1250	425	850	200	304	203	325	120	4	520	520	325	365	225	30	4-Φ 27	
	3	1870	1520					277		130									
	4	2014	1690	560	1120			351		250									
	5	2137						425		499									
	6	2420	1910	645	1290	310		573		647									
	7	2563	2094	737	1474			721		795									
	8	2637	2168	774	1548														
	9	2711	2242	811	1622														
	10	2785	2316	848	1696														

本身底座 (with pump base)



型号 Type	级数 Number of stage	安装尺寸 Installation Dimension													单位: mm																													
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2																							
MD100-100	2	1410	550	665	325	205	425	1760	760	394	7~10	590	520	760	355	610	800	890	520	4-Φ 28	4-Φ 35																							
	3	1516			440	320	540	1860	1330	420					400	686	900																											
	4	1631			555	435	655	2050	1425	485					450	750	1000																											
	5	1746			670	550	770	2080								560	950	1120	4-Φ 42																									
	6	1861			785	665	885	2100	1500	394								1250																										
	7	1976			900	780	1000	2260	1640									630	1060	1400																								
	8	2091			1015	895	1115																																					
	9	2206			1130	1010	1230	2320	1670	460																																		
	10	2321			1245	1125	1345																																					
	11	2436			1360	1240	1460	2550	1820																																			
	12	2551			1475	1355	1575																																					
MD100-145	2	1401	550	665	325	205	425	1760	760	394	7~10	590	520	760	355	610	800	890	520	4-Φ 28	4-Φ 35																							
	3	1516			440	320	540	1860	1330	420					400	686	900																											
	4	1631			555	435	655	2050	1425	485					450	750	1000																											
	5	1746			670	550	770	2080	1495																																			
	6	1861			785	665	885	2100	1500	394																																		
	7	1976			900	780	1000	2260	1640																																			
	8	2091			1015	895	1115																																					
	9	2206			1130	1010	1230	2320	1670	460																																		
	10	2321			1245	1125	1345																																					
	11	2436			1360	1240	1460	2550	1820																																			
	12	2551			1475	1355	1575																																					
MD150-100	2	1371	571	610	295	175	335	1860	1280	420	7~10	590	520	760	355	610	800	890	520	4-Φ 28	4-Φ 35																							
	3	1501			425	305	465	1860	1330	420					400	686	900																											
	4	1631			555	435	595	2050	1425	485					450	750	1000																											
	5	1761			685	565	725	2080	1495	390																																		
	6	1891			815	695	855	2100	1500	394																																		
	7	2021			945	825	985	2260	1640	460					560	950	1120																											
	8	2151			1075	955	1115	2320	1670																																			
	9	2281			1205	1085	1245																																					
	10	2411			1335	1215	1375	2550	1820																																			
	11	2541			1465	1345	1505																																					
	12	2671			1595	1475	1635																																					

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension															单位: mm									
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2					
MD 155-30	2	1063	388	310	460	141	381	845	391	289	4	280	350	430	225	356	311	615	350	4-Φ 19	4-Φ 28					
	3	1178		425		256	496	985	520	330					280	457	368	615		4-Φ 24						
	4	1293		540		371	611	1035	536						315	508	419			406						
	5	1408		655		486	726	1210	570						355	610	508			457						
	6	1553	418	770	490	601	841	1320	680	386					355	610	560	615		4-Φ 28	4-Φ 28					
	7	1668		885		716	956								355	610	560			406						
	8	1813	438	1000	510	831	1071								355	610	560			457						
	9	1928		1115		946	1186								355	610	560			508						
	10	2043		1230		1061	1301	1465	710	424					355	610	560			355						
MD 155-67	2	1321	559	283	506	677	1242	570	356	7~10	430	520	590	315	508	406	890	520	4-Φ 28	4-Φ 43						
	3	1409		371	551	400	765	1290						315	508	508			560							
	4	1497		459	595			1500						315	508	630	630									
	5	1585		547	391			1630						315	508	900	630									
	6	1673		635	383	580	945	1630						315	508	1000	400									
	7	1761		723	426	594	760	1750	490	7~10	430	520	590	355	610	630	890	520	4-Φ 35	4-Φ 43						
	8	1849		811	501			1360						355	610	630	630									
	9	1937		899	550			1880						355	610	630	900									
	10	2025		987	594			1125						355	610	630	1000									
	2	1401	637	325	607	205	485	1440	1360	386	7~10	430	520	590	315	508	508	890	520	4-Φ 28	4-Φ 41					
	3	1516		440		320	600	2000	1110	464					355	630	900			630						
	4	1631		555		435	715								400	710	1000			710						
	5	1746		670		550	830	2200	1200	490					400	710	1000			1000						
	6	1861		785		665	945								400	710	1000			1120						
	7	1976		900		780	1060	2310	1340	490					450	800	1120	890	520	4-Φ 35	4-Φ 41					
	8	2091		1015		895	1175								450	800	1120			1250						
	9	2236		1130	692	1010	1290								500	900	1250			4-Φ 42						
	10	2381		1245		1125	1405								500	900	1250			4-Φ 42						
	11	2526		1360		1240	1520								500	900	1250			4-Φ 42						
	12	2671		1475		1355	1635	2400	1490	565					500	900	1250			4-Φ 42						

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm														
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2									
MD 200-100	2	1426	607	325	662	205	255	1860	1280	450	7~10	420	520	590	400	686	900	890	520	4-Φ 35	4-Φ 35									
	3	1541		440		320	370	2080	1495	485					450	750														
	4	1656		555		435	485	2050	1425						450	750	1000													
	5	1771		670		550	600	2100	1500						560	950	1120	1250	890	520	4-Φ 42									
	6	1886		785		665	715	2260	1640	394					630	1060														
	7	2001		900		780	830								710	1120	1600													
	8	2116		1015		895	945	2320	1670						355	610	800	4-Φ 28	635	520	4-Φ 35									
	9	2231		1130		1010	1060								400	686	1000													
	10	2346		1245		1125	1175	2550	1820						450	750	900	1250	635	520	4-Φ 42									
	11	2461		1360		1240	1290								630	1060	1400													
	12	2576		1475		1355	1405	2710	1780	630					710	1120	1600													
MD 220-84	2	1426	607	325	662	205	255	1770	1280	424	7~10	430	520	590	355	610	800	4-Φ 28	635	520	4-Φ 35									
	3	1541		440		320	370	1960	1495	450					400	686	1000													
	4	1656		555		435	485	2110	1425	525					450	750	900	1250	635	520	4-Φ 42									
	5	1771		670		550	600	2200	1500	424					630	1060	1400													
	6	1886		785		665	715	2100	1640						710	1120	1600													
	7	2001		900		780	830	2260	1640	424					355	610	800	4-Φ 28	635	520	4-Φ 35									
	8	2116		1015		895	945								400	686	1000													
	9	2231		1130		1010	1060	2320	1670						450	750	900	1250	635	520	4-Φ 42									
	10	2346		1245		1125	1175								630	1060	1400													
	11	2461		1360		1240	1290	2550	1820						710	1120	1600													
	12	2576		1475		1355	1405								355	610	800													
MD 250-150	2	1555	650	390	685	320	650	2050	1425	485	7~10	460	600	630	450	750	900	1250	970	600	4-Φ 35									
	3	1700		535		465	795	2260	1640	394					560	950	1250													
	4	1845		680		610	940	2320	1670	460					630	1060	1400	1250	970	600	4-Φ 42									
	5	1990		825		755	1085	2550	1820						710	1120	1600													
	6	2135		970		900	1230	2710	1780						800	1250	1800	1250	970	600	4-Φ 48									
	7	2280		1115		1045	1375								355	610	800													
	8	2425		1260		1190	1520	2860	1930						400	686	1000	1250	970	600	4-Φ 48									
	9	2570		1405		1335	1665								450	750	900													
	10	2715		1550		1480	1810	2850	1910						560	950	1250	1250	970	600	4-Φ 48									
	11	2860		1695		1625	1955								630	1060	1400													
	12	3005		1840		1770	2100	3050	2110	630					710	1120	1600													

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension															单位: mm															
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2											
MD 280-43	2	1143	382	373	489	183	483	1210	570	386	5~6	330	400	460	315	508	406	740	450	4-Φ 28	4-Φ 28											
	3	1273		503		313	613	1320	680						508																	
	4	1403		633		443	743	1790	1630	525																						
	5	1533		763		573	873																									
	6	1663		893		703	1003																									
	7	1823	412	1023	519	833	1133	1920	1500	545																						
	8	1953		1153		963	1263																									
	9	2083		1283		1093	1393	2200	1200	490																						
	10	2213		1413		1223	1523	2310	1340																							
MD 280-65	2	1456	570	360	670	260	560	1400	1200	386	5~7	380	500	530	315	508	508	790	500	4-Φ 28	4-Φ 30											
	3	1586		490		390	690	1670		424																						
	4	1716		620		440	850	2200																								
	5	1846		750		570	950																									
	6	2006	600	880	700	700	1080	2310	1340	490																						
	7	2136		1010		830	1210																									
	8	2266		1140		960	1340																									
	9	2396		1270		1090	1470																									
	10	2526		1400		1220	1600	2400	1490	565																						
	11	2656		1530		1350	1730																									
	12	2786		1660		1480	1860	2200	1730	725																						
MD 280-100	2	1555	650	390	685	320	650	2050	1425	485	7~10	460	600	630	450	750	900	970	600	4-Φ 35	4-Φ 39											
	3	1700		535		465	795	2080	1495																							
	4	1845		680		610	940	2260	1640	334																						
	5	1990		825		755	1085																									
	6	2135		970		900	1230	2320	1670	460																						
	7	2280		1115		1045	1375	2550	1820	460																						
	8	2425		1260		1190	1520																									
	9	2570		1405		1335	1665	2710	1780	630																						
	10	2715		1550		1480	1810																									
	11	2860		1695		1625	1955	2860	1930	1120																						
	12	3005		1840		1770	2100																									

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm														
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2									
MD 300-65	2	1456	570	360	670	260	560	1440	1200	386	5~7	380	500	530	315	508	508	790	500	4-Φ 28	4-Φ 35									
	3	1586		490		390	690	1670		424					355	610	630													
	4	1716		620		440	820	2200		490					400	710	1000													
	5	1846		750		570	950																							
	6	2006	600	880	700	700	1080	2310	1340	490								790	500	4-Φ 30										
	7	2136		1010		830	1210																							
	8	2266		1140		960	1340																							
	9	2396		1270		1090	1470																							
	10	2526		1400		1220	1600	2400	1490	565																				
	11	2656		1530		1350	1730																							
	12	2786		1660		1480	1860	2200	1730	725																				
MD 300-80	2	1485	600	375	640	305	635	2000	1110	464	490	6~8	460	600	630	355	630	900	970	600	4-Φ 39									
	3	1620		510		440	770	2200	1200																					
	4	1755		645		575	905																							
	5	1890		780		710	1040	2310	1340																					
	6	2025		915		845	1175																							
	7	2160		1050		980	1310	2400	1490	565																				
	8	2295		1185		1115	1445																							
	9	2430		1320		1250	1580																							
	10	2565		1455		1385	1715																							
	11	2700		1590		1520	1850	2600	1680	605																				
	12	2835		1725		1655	1985																							
MD 300-94	2	1555	650	390	685	320	650	2000	1110	464	490	7~10	460	600	630	355	630	900	970	600	4-Φ 42									
	3	1700		535		465	795	2200	1200																					
	4	1845		680		610	940	2310	1340																					
	5	1990		825		755	1085																							
	6	2135		970		900	1230	2400	1490	565																				
	7	2280		1115		1045	1375																							
	8	2425		1260		1190	1520																							
	9	2570		1405		1335	1665																							
	10	2715		1550		1480	1810	2600	1680	605																				
	11	2860		1695		1625	1955																							
	12	3005		1840		1770	2100																							

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm																				
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2															
MD 300-150	2	1555	650	390	685	320	650	2050	1425	485	7~10	460	600	630	450	750	900	970	600	4-Φ 35	4-Φ 42															
	3	1700		535		465	795	2260	1640	394					560	950	1250																			
	4	1845		680		610	940	2320	1670	460					630	1060																				
	5	1990		825		755	1085	2550	1820	460					1400	1600																				
	6	2135		970		900	1230	2710	1780	630																										
	7	2280		1115		1045	1375	2860	1930			710	1120	800	1250																					
	8	2425		1260		1190	1520					4-Φ 48																								
	9	2570		1405		1335	1665	2650	1910	530																										
	10	2715		1550		1480	1810																													
	11	2860		1695		1625	1955	2850	2110																											
	12	3005		1840		1770	2100																													
MD 360-92	2	1555	650	390	685	320	650	2200	1200	490	7~10	460	600	630	400	710	1000	970	600	4-Φ 35	4-Φ 42															
	3	1700		535		465	795																													
	4	1845		680		610	940	2310	1340																											
	5	1990		825		755	1085																													
	6	2135		970		900	1230	2400	1490	565																										
	7	2280		1115		1045	1375																													
	8	2425		1260		1190	1520																													
	9	2570		1405		1335	1665	2600	1680	605																										
	10	2715		1550		1480	1810																													
	11	2860		1695		1625	1955																													
	12	3005		1840		1770	2100																													
MD 360-94	2	1555	650	390	685	320	650	2200	1200	490	7~10	460	600	630	400	710	1000	970	600	4-Φ 35	4-Φ 42															
	3	1700		535		465	795																													
	4	1845		680		610	940	2310	1340																											
	5	1990		825		755	1085																													
	6	2135		970		900	1230	2400	1490	565																										
	7	2280		1115		1045	1375																													
	8	2425		1260		1190	1520																													
	9	2570		1405		1335	1665	2600	1680	605																										
	10	2715		1550		1480	1810																													
	11	2860		1695		1625	1955																													
	12	3005		1840		1770	2100																													

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm													
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2								
MD 420-90	2	1555	650	390	685	320	650	2200	1200	490	7~10	460	600	630	400	710	1000	970	600	4-Φ 35	4-Φ 42								
	3	1700		535		465	795								450	800	1120												
	4	1845		680		610	940	2310	1340						500	900	1250												
	5	1990		825		755	1085	2400	1490	565					560	1000	1400												
	6	2135		970		900	1230																						
	7	2280		1115		1045	1375																						
	8	2425		1260		1190	1520																						
	9	2570		1405		1335	1665	2600	1680	605																			
	10	2715		1550		1480	1810																						
	11	2860		1695		1625	1955																						
	12	3005		1840		1770	2100																						
MD 420-96	2	1555	650	390	685	320	650	2050	1425	485	7~10	460	600	630	450	750	900	970	600	4-Φ 35	4-Φ 42								
	3	1700		535		465	795	2260	1640	394					560	950	1250												
	4	1845		680		610	940	2320	1670	460					630	1060	1400												
	5	1990		825		755	1085	2550	1820						710	1120	1600												
	6	2135		970		900	1230		1820						800	1250	1800												
	7	2280		1115		1045	1375	2420	1700	500																			
	8	2425		1260		1190	1520	2650	1920	530																			
	9	2570		1405		1335	1665																						
	10	2715		1550		1480	1810																						
	11	2860		1695		1625	1955																						
	12	3005		1840		1770	2100	2850	2110																				
MD 450-60	2	1475	510	430	540	250	529	2000	1110	464	7~10	430	504	590	355	630	900	890	530	4-Φ 28	4-Φ 35								
	3	1625		580		549	550	829	2200	1200					400	710	1000												
	4	1775		730		624			2310	1340	490				450	800	1120												
	5	1925		880		549	850	1129							500	900	1250												
	6	2075		1030		624									560	1000	1400												
	7	2225		1180		549	1150	1429	2400	1490	565				500	900	1250												
	8	2405		1330		654									560	1000	1400												
	9	2555		1480		579	1450	1729							500	900	1250												
	10	2705		1630		1600	1780	1829	2600	1680	605				560	1000	1400												
	11	2855		1780		1600			500	900	1250																		
	12	3005		1930		1804	1750	2200	1730	725																			

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm														
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2									
MD 450-85	2	1555	650	390	685	320	650	2200	1200	490	7~10	460	600	630	400	710	1000	970	600	4-Φ 35	4-Φ 42									
	3	1700		535		465	795								450	800	1120													
	4	1845		680		610	940	2310	1340						500	900	1250													
	5	1990		825		755	1085	2400	1490	565					560	1000	1400													
	6	2135		970		900	1230																							
	7	2280		1115		1045	1375																							
	8	2425		1260		1190	1520																							
	9	2570		1405		1335	1665	2600	1680	605																				
	10	2715		1550		1480	1810																							
	11	2860		1695		1625	1955																							
	12	3005		1840		1770	2100																							
MD 450-90	2	1832	760	445	958	227	647	2050	1425	485	7~10	450	580	600	450	750	900	730	570	4-Φ 35	4-Φ 42									
	3	1999		612		394	814	2260	1640	394					560	950	1250													
	4	2166		779		561	981								630	1060														
	5	2333		946		728	1148	2320	1670	460								1400												
	6	2500		1113		895	1315	2550	1820																					
	7	2667		1280		1062	1482	2420	1700	500					1600															
	8	2834		1447		1229	1649	2650	1920	530																				
	9	3001		1614		1396	1816																							
	10	3168		1781		1563	1983																							
	11	3335		1948		1730	2150																							
	12	3502		2115		1897	2317																							
MD 450-100	2	2060	863	456	980	399	819	1920	1500	245	10	490	631	605	605	400	710	1000	730	560	4-Φ 35	4-Φ 42								
	3	2222		618		561	981	2000	1620	610					655	450	800	1120												
	4	2384		780		723	1143								705	500	900	1250												
	5	2546		942		885	1305								765	560	1000	1400												
	6	2708		1104		1047	1467	2400	1730	725					835	630	1120	1600												
	7	2870		1266		1209	1629								880															
	8	3032		1428		1371	1791								905	630	1120	1600												
	9	3194		1590		1533	1953								930															
	10	3356		1752		1695	2115	2800	2000	830					965	630	1120	1600												
	11	3518		1914		1857	2277								990															
	12	3680		2076		2019	2439								1015															

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm																					
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2																
MD 480-90	2	1555	650	390	685	320	650	2050	1425	485	7~10	460	600	630	450	750	900	730	600	4-Φ 35	4-Φ 41																
	3	1700		535		465	795	2260	1640	394					560	950	1250			4-Φ 42																	
	4	1845		680		610	940	2320	1670	460					630	1060																					
	5	1990		825		755	1085	2550	1820						710	1120	1400																				
	6	2135		970		900	1230	2420	1700	500																											
	7	2280		1115		1045	1375																														
	8	2425		1260		1190	1520	2650	1920	530					800	1250	1600			4-Φ 48																	
	9	2570		1405		1335	1665																														
	10	2715		1550		1480	1810																														
	11	2860		1695		1625	1955																														
	12	3005		1840		1770	2100	2850	2110																												
MD 500-57	2	1365	455	430	546	280	529	2000	1110	464	7~10	430	504	590	355	630	900	890	530	4-Φ 28	4-Φ 35																
	3	1515		580	486	550	829	2200	1200	490					400	710	1000																				
	4	1665		730	561		450	800	1120																												
	5	1815		880	486	850	1129	2310	1340						500	900	1250																				
	6	1965		1030	561																																
	7	2115		1180	486	1150	1429	2400	1490	565																											
	8	2295	485	1330	561					560					1000	1400				4-Φ 42																	
	9	2445		1490	516	1450	1729																														
	10	2595		1630	591		1780			1600					1879	2600	1680	605																			
	11	2745		1780	427																																
	12	2895		1930	1577	1750		2200	1730													725															
MD 550-50	2	1564	603	470	618	445	725	2000	1110	464	7~10	430	504	590	355	630	900	890	530	4-Φ 28	4-Φ 35																
	3	1719		625		600	880	2200	1200	490					400	710	1000																				
	4	1874		780		755	1035	2310	1340						450	800	1120																				
	5	2029		935		910	1190																														
	6	2184		1090		1065	1345	2400	1490	565					500	900	1250																				
	7	2339		1245		1220	1500																														
	8	2494		1400		1375	1655	2600	1680	605					560	1000	1400			4-Φ 42																	
	9	2649		1555		1530	1810																														
	10	2804		1710		1685	1965	2200	1730	725					500	900	1250																				
	11	2959		1865																																	
	12	3114		2020																																	

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension													单位: mm											
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2					
MD 580-60	2	1564	603	470	618	445	725	2000	1110	464	7~10	430	504	590	355	630	900	890	530	4-Φ 28	4-Φ 35					
	3	1719		625		600	880	2200	1200	490				400	710	1000										
	4	1874		780		755	1035	2310	1340					450	800	1120										
	5	2029		935		910	1190							500	900	1250										
	6	2184		1090		1065	1345	2400	1490	565				560	1000	1400										
	7	2339		1245		1220	1500							500	900	1250										
	8	2494		1400		1375	1655							560	1000	1400										
	9	2649		1555		1530	1810	2600	1680	605				500	900	1250										
	10	2804		1710		1685	1965							560	1000	1400										
	11	2959		1865		1840	2120	2200	1730	725				500	900	1250										
	12	3114		2020		1995	2275	2400	1860	750				560	1000	1400										
MD 580-70	2	1727	670	471	776	274	406	1920	1500	605	7~10	450	609	620	400	710	1000	950	550	4-Φ 35	4-Φ 42					
	3	1903		647		450	582	2310	1340	490				450	800	1120										
	4	2079		823		626	758	2400	1490	565				500	900	1250										
	5	2255		999		802	984							560	1000	1400										
	6	2431		1175		978	1110							560	1000	1400										
	7	2607		1351		1154	1286							560	1000	1400										
	8	2783		1527		1330	1462	2600	1680	605				560	1000	1400										
	9	2959		1703		1506	1638							560	1000	1400										
	10	3135		1879		1682	1814							560	1000	1400										
	11	3311		2055		1858	1990	2400	1860	750				560	1000	1400										
	12	3487		2231		2034	2166							560	1000	1400										
MD 600-65	2	1727	670	471	707	240	664	2050	1425	485	7~10	450	609	620	450	750	900	680	550	4-Φ 35	4-Φ 42					
	3	1903		647		416	840	2260	1640	394				560	950	1250										
	4	2079		823		592	1016							630	1060	1400										
	5	2255		999		768	1192	2320	1670	460				710	1120	1400										
	6	2431		1175		944	1368	2550	1820					800	1250	1600										
	7	2607		1351		1120	1544	2420	1700	500				710	1120	1400										
	8	2783		1527		1296	1720							710	1120	1400										
	9	2959		1703		1472	1896	2650	1920	530				710	1120	1400										
	10	3135		1879		1648	2072							710	1120	1400										
	11	3311		2055		1824	2248	2650	1910	530				710	1120	1400										
	12	3487		2231		2000	2424							710	1120	1400										

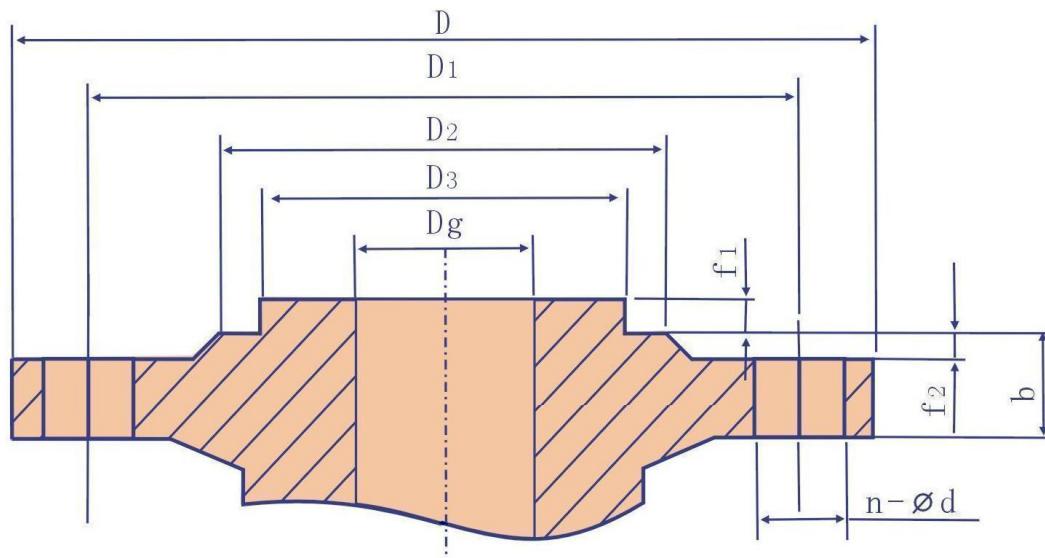
型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm																									
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2																				
MD 600-93	2	2097	799	483	799	426	706	2100	1500	394	7~10	490	631	660	560	950	1120	730	750	4-Φ 42	4-Φ 40																				
	3	2275		661		604	884	2320	1670	460				630	1060	1250																									
	4	2453		839		782	1062	2550	1820					710	1120	1400																									
	5	2631		1017		960	1240	2420	1700					800	1250	1600																									
	6	2809		1195		1138	1418	2650	1920					1250	1800																										
	7	2987		1373		1316	1596	2650	1920	530																															
	8	3165		1551		1494	1774																																		
	9	3343		1729		1672	1952																																		
	10	3521		1907		1850	2130	2850	2110																																
	11	3699		2085		2028	2308																																		
MD 650-80	2	2097	873	483	984	426	846	1920	1500	245	2000	490	631	660	605	400	710	1000	730	570	4-Φ 35	4-Φ 42																			
	3	2275		661		604	1024	655	450	800					1120																										
	4	2453		839		782	1202	705	500	900					1250																										
	5	2631		1017		960	1380	765	560	1000					1400																										
	6	2809		1195		1138	1558	835	630	1120					1600																										
	7	2987		1373		1316	1736	2400	1860	750																															
	8	3165		1551		1494	1914																																		
	9	3343		1729		1692	2112																																		
	10	3521		1907		1850	2270	2800	2000	830																															
	11	3699		2085		2028	2448																																		
MD 650-90	2	2097	873	483	984	426	846	1920	1500	245	2000	490	631	660	605	400	710	1000	730	570	4-Φ 35	4-Φ 42																			
	3	2275		661		604	1024	655	450	800					1120																										
	4	2453		839		782	1202	705	500	900					1250																										
	5	2631		1017		960	1380	765	560	1000					1400																										
	6	2809		1195		1139	1558	835	630	1120					1600																										
	7	2987		1373		1316	1736	2400	1860	750																															
	8	3165		1551		1494	1914			765					560	1000	1400																								
	9	3343		1729		1692	2112			835					630	1120	1600																								
	10	3521		1907		1850	2270	2800	2000	830																															
	11	3699		2085		2028	2448																																		

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension														单位: mm															
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2										
MD 650-121	2	2097	873	483	984	426	846	1920	1500	245	10	510	681	625	400	710	1000	730	570	4-Φ 35	4-Φ 42										
	3	2275		661		604	1024	2000	1620	610				675	450	800	1120														
	4	2453		839		782	1202							725	500	900	1250														
	5	2631		1017		960	1380		1730	725				785	560	1000	1400														
	6	2809		1195		1139	1558	2400	1860	750				855	630	1120	1600														
	7	2987		1373		1316	1736																								
	8	3165		1551		1494	1914																								
	9	3343		1729		1692	2112	2800	2000	830																					
	10	3521		1907		1850	2270																								
	11	3699		2085		2028	2448																								
	12	3877		2206		2206	2626																								
MD 700-127	2	2169	923	505	1034	448	868	2070	1670	245	10	560	692	705	450	800	1120	810	670	4-Φ 35	4-Φ 42										
	3	2347		683		626	1046	2300	1840	610				755	500	900	1250														
	4	2525		861		804	1224							560	1000	1400															
	5	2703		1039		928	1402	2700	1920	725				805	630	1120	1600														
	6	2881		1217		1160	1558	3200	2200					750																	
	7	3059		1395		1338	1758	3200	2200	2400				865																	
	8	3237		1573		1516	1936	3100						750																	
	9	3415		1751		1714	2134	3200	2400	830				935																	
	10	3593		1929		1872	2292							710																	
	11	3771		2107		2050	2460																								
	12	3949		2285		2228	2648																								
MD 720-60	2	1744	607	582	870	398	818	2110	900	525	7~10	520	629	450	750	900	700	620	4-Φ 35	4-Φ 42											
	3	1928		704		520	940	2260	1640	434				560	950	1250															
	4	2112		826		642	1062	2550	1670	460				630	1060																
	5	2296		948		764	1184	2420	1820					710	1120																
	6	2480		1070		886	1306		1700	1920				800	1250	1400	1600														
	7	2664		1192		1008	1428							710	1120																
	8	2848		1314		1130	1550							800	1250																
	9	3032		1436		1252	1672	2650	1910					800	1250	1600	1800														
	10	3216		1558		1374	1794							800	1250																
	11	3400		1680		1496	1916							800	1250																
	12	3584		1802		1618	2038	2850	2110					800	1250																

型号 Type	级数 Number of stage	安装尺寸 Installation Dimension												单位: mm																
		L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	S	H	H ₁	H ₂	H ₃	A	B	E	F	n-Φd1	n-Φd2									
MD 800-70	2	1929	760	527	984	253	710	2050	1425	485	7~10	450	580	600	710	1120	910	570	4-Φ 35	4-Φ 42	4-Φ 40									
	3	2105		703		429	886	2260	1640	394																				
	4	2281		879		605	1062	2550	1820	460																				
	5	2457		1055		781	1238	2420	1700	500																				
	6	2633		1231		957	1414																							
	7	2809		1407		1133	1590	2650	1920	530																				
	8	2985		1583		1309	1766																							
	9	3161		2759		1485	1942																							
	10	3337		1935		1661	2118	2850	2110	530																				
	11	3513		2111		1837	2294																							
	12	3689		2287		2013	2470																							
MD 1100-86	2	2029	873	527	984	453	710	2320	1670	460	7~10	490	631	660	710	1120	730	570	4-Φ 42	4-Φ 40										
	3	2205		703		629	886	2420	1700	500																				
	4	2381		879		805	1062	2650	1920	530																				
	5	2557		1055		981	1238																							
	6	2733		1231		1157	1414	2850	1910	2110																				
	7	2909		1407		1333	1590																							

十三、MD型泵进出口法兰尺寸图表

Dimension Sheets of the Inlet and Outlet flanges of MD Pump



型号 Type	进口法兰 Inlet flange								出口法兰 Outlet flange							
	Dg	D	D1	D2	D3	b	f1/f2	n-Φ d	Dg	D	D1	D2	D3	b	f1/f2	n-Φ d
MD46-30	80	190	150	128	-	22	- /3	4-Φ 17.5	65	185	145	122	109	28	4/3	8-Φ 17.5
MD46-50	80	215	170	140	120	30	4/3	8-Φ 22	80	215	170	140	120	30	3/4	8-Φ 22
MD54-16	100	210	170	148	-	18	- /3	4-Φ 17.5	100	220	180	158	-	24	- /3	8-Φ 17.5
MD85-45	100	210	170	146	-	22	- /3	4-Φ 17.5	100	235	190	160	149	30	4.5/3	8-Φ 22
MD85-67	150	265	225	202	-	33	- /3	8-Φ 33	150	345	280	212	203	33	4.5/3	8-Φ 33
MD100-25	125	240	200	178	-	20	- /3	8-Φ 17.5	125	270	220	184	175	30	4.5/3	8-Φ 26
MD100-45	100	210	170	148	-	22	- /3	4-Φ 17.5	100	235	190	160	149	30	4.5/3	8-Φ 22
MD100-100	100	215	180	155	-	24	- /3	8-Φ 17.5	80	260	205	168	120	46	4/3	12-Φ 34
MD100-145	150	300	250	218	-	30	4.5/4.5	8-Φ 25	150	350	290	250	203	46	4.5/3	12-Φ 34
MD125-25	125	240	200	178	-	20	- /3	8-Φ 17.5	125	270	220	184	175	30	4.5/3	8-Φ 26
MD150-100	150	300	250	218	-	28	- /3	8-Φ 25	150	350	290	250	203	46	4.5/3	12-Φ 34
MD155-30	150	285	240	212	-	26	- /3	18-Φ 22	150	300	250	212	203	34	4.5/3	8-Φ 26
MD155-67	150	265	225	202	-	33	- /3	8-Φ 33	150	345	280	212	203	33	4.5/3	8-Φ 33
MD160-84	150	300	250	218	203	30	- /3	8-Φ 25	150	350	290	250	203	48	4.5/3	12-Φ 34

型号 Type	进口法兰 Inlet flange									出口法兰 Outlet flange								
	Dg	D	D1	D2	D3	b	f1/f2	n-Φ d	Dg	D	D1	D2	D3	b	f1/f2	n-Φ d		
MD200-100	150	280	240	210	-	24	- / 3	8-Φ 23	150	390	318	270	203	66	4. 5/3	12-Φ 48		
MD220-84	150	280	240	210	-	24	- / 3	8-Φ 23	150	390	318	270	203	66	4. 5/3	12-Φ 48		
MD250-150	200	335	225	235	-	26	- / 3	8-Φ 23	200	535	440	380	244	92	6. 0/3	12-Φ 54		
MD280-43	200	355	295	265	-	26	- / 3	8-Φ 23	200	375	320	285	259	38	4. 5/3	12-Φ 30		
MD280-65	200	355	295	265	-	32	- / 3	12-Φ 23	200	430	360	312	259	44	4. 5/3	12-Φ 34		
MD280-100	200	355	295	265	-	32	- / 3	12-Φ 23	200	430	360	312	259	44	4. 5/3	12-Φ 34		
MD300-65	200	355	295	265	-	33	- / 3	12-Φ 23	200	405	345	300	259	44	4. 5/3	12-Φ 34		
MD300-80	200	360	310	278	-	34	- / 3	12-Φ 25	200	430	360	312	259	54	4. 5/3	12-Φ 41		
MD300-94	200	430	360	312	259	54	4. 5/3	12-Φ 41	200	525	440	388	244	85	4. 5/3	12-Φ 48		
MD300-150	210	335	295	265	-	26	- / 3	8-Φ 23	165	475	394	340	218	84	6. 0/3	12-Φ 48		
MD360-92	200	430	360	312	259	54	4. 5/3	12-Φ 41	200	525	440	388	244	85	4. 5/3	12-Φ 48		
MD360-94	200	430	360	312	259	54	4. 5/3	12-Φ 41	200	525	440	388	244	85	4. 5/3	12-Φ 48		
MD400-110	220	430	360	312	259	54	4. 5/3	12-Φ 41	200	525	440	388	244	85	4. 5/3	12-Φ 48		
MD400-120	200	335	295	265	270	26	4. 5/3	8-Φ 28	200	480	400	345	295	78	4. 5/3	12-Φ 48		
MD420-90	220	430	360	312	259	54	4. 5/3	12-Φ 41	200	525	440	388	244	85	4. 5/3	12-Φ 48		
MD420-96	200	335	295	265	270	26	4. 5/3	8-Φ 28	200	480	400	345	295	78	4. 5/3	12-Φ 48		
MD420-115	250	405	355	320	-	52	- / 3	12-Φ 34	250	470	400	352	312	48	4. 5/3	12-Φ 39		
MD420-120	250	405	355	320	-	52	- / 3	12-Φ 34	250	470	400	352	312	48	4. 5/3	12-Φ 39		
MD450-60	250	405	355	320	-	52	- / 3	12-Φ 34	250	470	400	352	312	48	4. 5/3	12-Φ 39		
MD450-85	250	405	355	320	-	52	- / 3	12-Φ 34	250	470	400	352	312	48	4. 5/3	12-Φ 39		
MD450-90	250	390	350	320	/	28	- / 3	12-Φ 23	200	480	400	345	259	78	4. 5/3	12-Φ 48		
MD450-100	250	390	350	320	/	28	- / 3	12-Φ 23	200	480	400	345	259	78	4. 5/3	12-Φ 48		
MD450-110	260	390	350	320	/	28	- / 3	12-Φ 23	210	480	400	345	259	78	4. 5/3	12-Φ 48		
MD450-117	260	390	350	320	/	28	- / 3	12-Φ 23	210	480	400	345	259	78	4. 5/3	12-Φ 48		
MD480-90	260	390	350	320	/	28	- / 3	12-Φ 23	210	480	400	345	259	78	4. 5/3	12-Φ 48		
MD500-57	250	405	355	320	-	52	- / 3	12-Φ 23	250	470	400	352	312	48	4. 5/3	12-Φ 39		
MD550-50	250	405	355	320	-	32	- / 3	12-Φ 23	250	470	400	352	312	48	4. 5/3	12-Φ 41		
MD580-60	250	405	355	320	-	32	- / 3	12-Φ 23	250	470	400	352	312	48	4. 5/3	12-Φ 41		
MD580-70	300	465	410	370	-	40	- / 3	12-Φ 25	250	480	400	345	312	58	4. 5/3	12-Φ 39		
MD600-65	300	440	400	368	/	28	- / 4	12-Φ 25	250	500	430	382	312	60	4. 5/3	12-Φ 41		
MD600-93	300	440	400	368	/	28	- / 4	12-Φ 23	250	530	485	425	312	88	4. 5/3	12-Φ 54		
MD650-80	300	465	410	370	-	40	- / 4	12-Φ 25	250	500	430	382	312	60	4/3	12-Φ 39		
MD650-90	300	465	410	370	-	40	- / 4	12-Φ 25	250	500	430	382	312	60	4/3	12-Φ 39		
MD650-121	300	485	410	370	-	40	- / 4	12-Φ 32	250	520	430	382	312	60	4/3	12-Φ 42		
MD700-127	350	550	490	448	-	44	- / 4	12-Φ 34	300	610	450	408	392	70	4/3	12-Φ 48		
MD720-60	350	500	460	428	/	30	- / 4	12-Φ 23	250	580	485	425	312	88	4. 5/3	12-Φ 54		
MD800-70	315	440	400	368	/	28	- / 4	12-Φ 23	250	500	430	382	312	60	4. 5/3	12-Φ 41		
MD1100-86	355	500	460	428	/	30	- / 4	16-Φ 23	285	665	570	510	363	100	4. 5/3	16-Φ 54		



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