



川源(中国)机械有限公司
GSD (China) Co., Ltd.



LFP

低速推流器

LFP low-speed flow propeller

LFP 低速推流器

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两叶桨
Two-bladed paddle



三叶桨
Three-bladed paddle

特点 Features

- 高质量国际知名品牌免维护轴承，使用寿命长。
- 独特的电缆密封设计，排除了电缆漏水的隐患。
- 电机轴采用不锈钢材质，转子经动平衡检测，运转平稳。
- 内部设有泄漏传感器和定子绕组超温保护装置
- 低速推流器叶桨由玻璃钢制成，呈后掠式，具有自清洁功能；叶桨光滑的流线型表面，使推力被平均分配。
- 低速推流器所有接触介质的紧固件均采用不锈钢材质；减速装置采用安全系数较高的斜齿轮减速机。

用途 Application

低速推流器,在水处理工艺流程中，广泛应用于氧化沟推流，各类生化池的搅拌，同时也可用于河流防冻，景观水循环等。

Low-speed flow propeller extensively used for the oxidizing flow propelling and agitation in various types of biochemical tanks during the water treatment process, also can be used for river frost protection and, landscape water circulation etc..

- The international well-known high-quality bearings have longer service life, which are maintenance free.
- The unique sealing design for the cables removes the hidden danger of water leakage for the cables.
- The shaft of the motor employs the stainless steel, and the rotors are inspected with the use of dynamic balancing, leading to smooth rotation.
- The in-built leakage sensor and the alarming device for the over-temperature protection for the windings of the stator.
- The vanes of the low-speed flow propeller are made of FRP, which are sweptback shape, have the selfcleaning function, the smooth and streamlined propeller surface distributes the propelling power equally.
- On the low-speed flow propeller, all the tightening pieces which will contact media employ the stainless-steel material; The decelerator employs helical gear speed reducer with high safety coefficient.

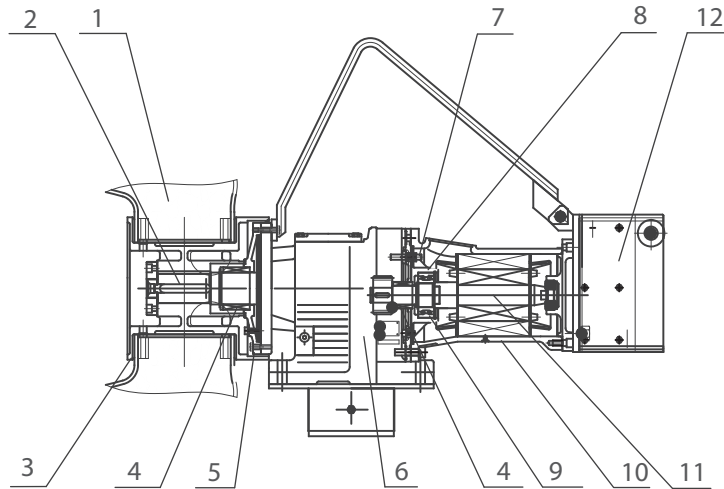
适用条件

- 介质温度：≤40℃
- 介质pH值：5~9
- 介质密度：≤1150kg/m³
- 潜水深度：≤20m
- 电源：380V，50Hz
- 电机：F/H绝缘并符合IP68，24小时连续运行

Conditions of usage

- The highest temperature of the media shall not exceed 40℃
- The pH value of the media: 5~9
- The density of the media shall not exceed 1150kg/m³
- The depth of submersion shall not exceed 20m
- The electric power supply: 380V, 50Hz
- The motor: F/H class insulation and in accordance with IP68, continuous operating in 24hr

结构简图 Construction



NO.	名称	Name	材质		Material
			GB	JIS	
1	叶桨	Propeller	玻璃钢		FRP
2	输出轴	Output shaft	2Cr13		SUS420J1
3	轮毂	Wheel boss	HT200		FC200
4	机械密封	Mechanical seal	SiC-SiC		SiC-SiC
5	机封座	Mechanical seal stand	HT200		FC200
6	减速机	Decelerator	HT200		FC200
7	泄漏传感器	Leakage sensor	-		-
8	轴承座	Bearing stand	HT200		FC200
9	轴承	Bearing	-		-
10	机壳	Sheath	HT200		FC200
11	电机轴	Motor shaft	2Cr13		SUS420J1
12	滑套	Slide sleeve	HT200		FC200

上表为LFP标配材质，其它材质请另询！不同功率结构略有不同

The table above is standard material for LFP type. If other material needed, pls contact us. The structure will be different according to the power.



型号说明 Type description



性能参数 Performance parameters

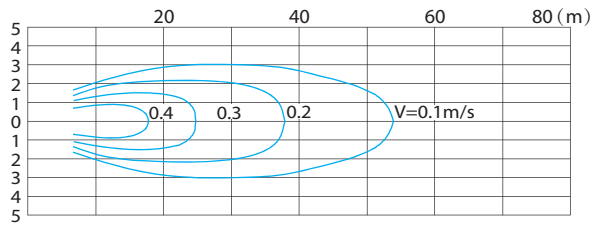
泵型号 Pump model	电机功率 Motor power (kW)	额定电流 Rated current (A)	叶桨转速 rpm of propeller (r/min)	叶桨直径 Diameter of propeller (mm)	推力 Thrust (N)	重量 Weight (kg)
LFP2.2/4-1100-52/2	2.2	4.9	52	1100	1100	172
LFP3/4-1100-63/2	3	6.6	63	1100	1500	175
LFP4/4-1100-85/2	4	8.6	85	1100	1840	177
LFP2.2/4-1400-34/2	2.2	4.9	34	1400	1430	180
LFP3/4-1400-43/2	3	6.6	43	1400	1870	183
LFP4/4-1400-52/2	4	8.6	52	1400	2150	186
LFP5.5/4-1400-63/2	5.5	11.3	63	1400	2740	189
LFP3/4-1800-34/2	3	6.6	34	1800	2040	210
LFP4/4-1800-43/2	4	8.6	43	1800	2710	212
LFP5.5/4-1800-47/2	5.5	11.3	47	1800	3320	291
LFP7.5/4-1800-52/2	7.5	15.5	63	1800	4010	294
LFP3/4-2100-34/2	3	6.6	34	2100	2150	215
LFP4/4-2100-43/2	4	8.6	43	2100	2600	220
LFP5.5/4-2100-47/2	5.5	11.3	47	2100	3350	300
LFP7.5/4-2100-52/2	7.5	15.5	52	2100	3900	305
LFP3/4-2500-34/2	3	6.6	34	2500	2500	220
LFP4/4-2500-43/2	4	9.3	43	2500	3200	223
LFP5.5/4-2500-47/2	5.5	12	47	2500	3840	310
LFP7.5/4-2500-52/2	7.5	15.5	52	2500	4280	315
LFP3/4-1800-34/3	3	6.6	34	1800	2040	220
LFP5.5/4-1800-43/3	5.5	12	43	1800	3320	306
LFP7.5/4-1800-47/3	7.5	15.5	47	1800	4010	312
LFP4/4-2100-39/3	4	8.6	39	2100	2550	245
LFP5.5/4-2100-43/3	5.5	11.3	43	2100	3320	295
LFP7.5/4-2100-47/3	7.5	15.5	47	2100	4030	300
LFP5.5/4-2500-43/3	5.5	12	43	2500	3840	327
LFP7.5/4-2500-43/3	7.5	15.5	43	2500	4280	330

注: 1.电机绕组绝缘等级:F级, 防护等级:IP68,电机工作制式:24小时连续工作。
2.可提供H及绝缘电机。

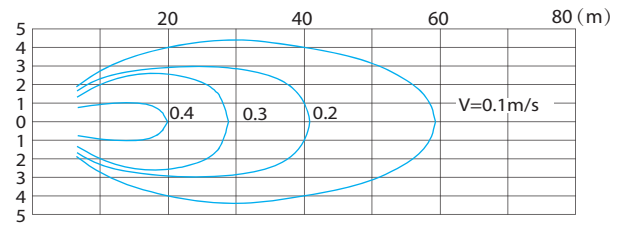
Notes: 1.Winding insulation class of the motor :Class F; Protective grade: IP68; Operating mode: Operation for 24 hours.
2.We can supply the motor with class H winding insulation.



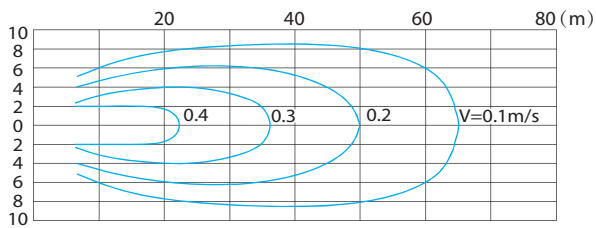
流场图 Diagrams of the flow field



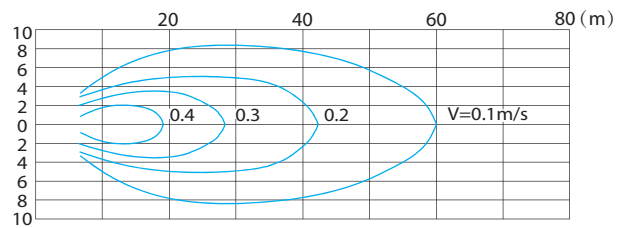
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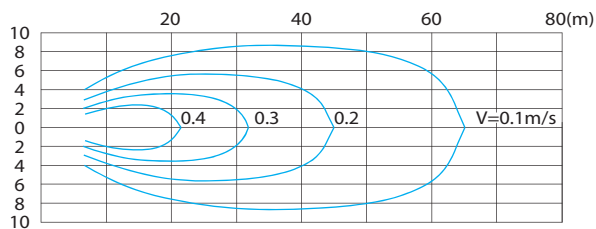
LFP3/4-1100-63



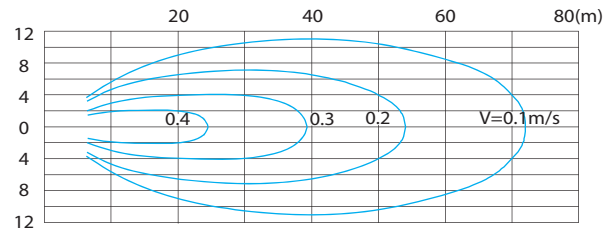
LFP4/4-1100-85



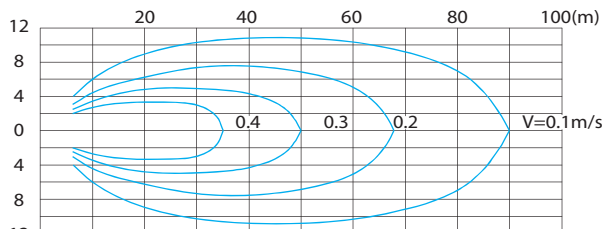
LFP2.2/4-1400-34



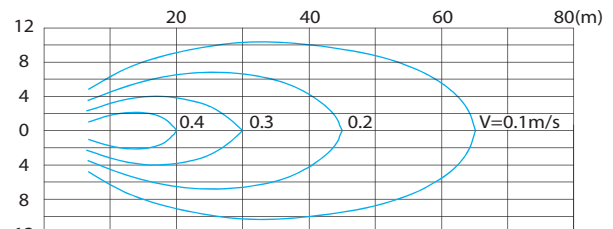
LFP3/4-1400-43



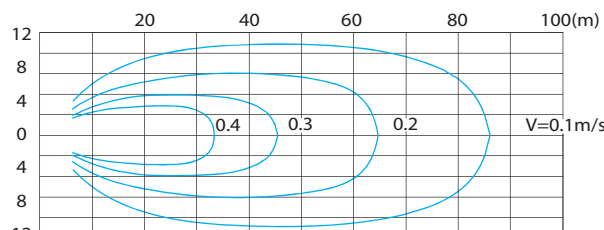
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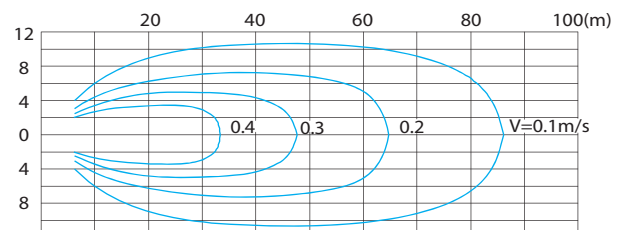
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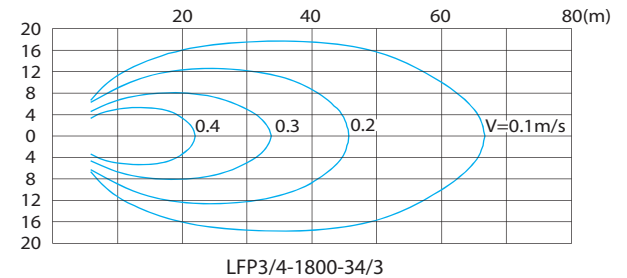
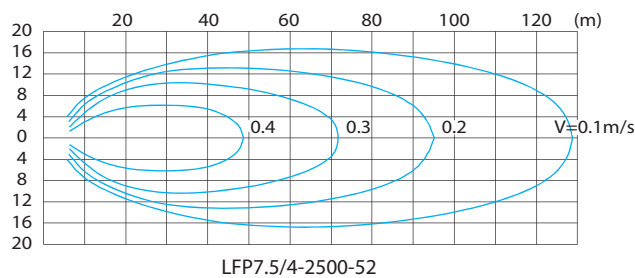
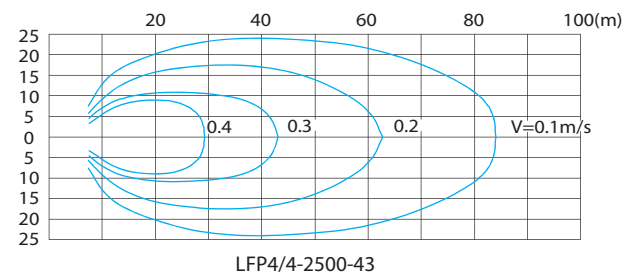
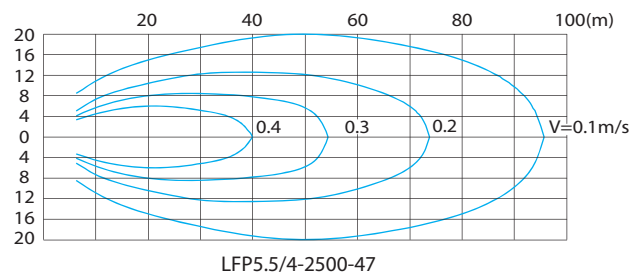
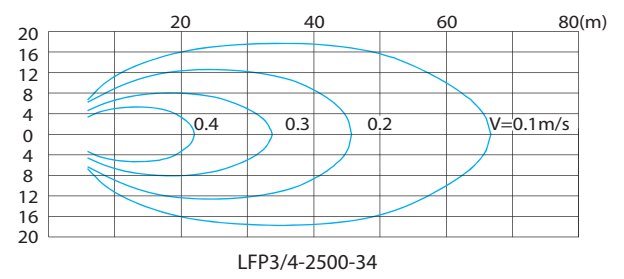
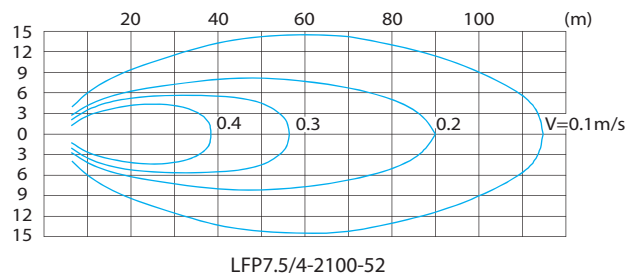
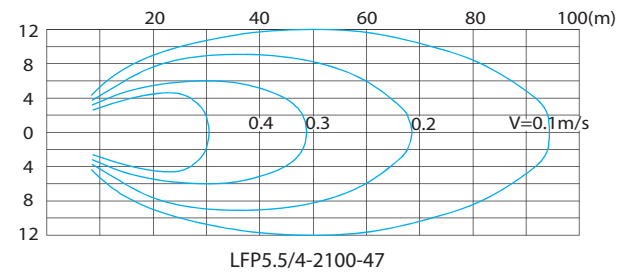
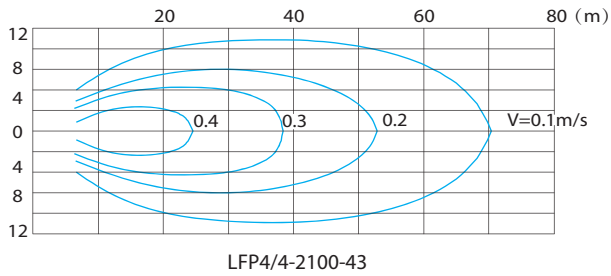
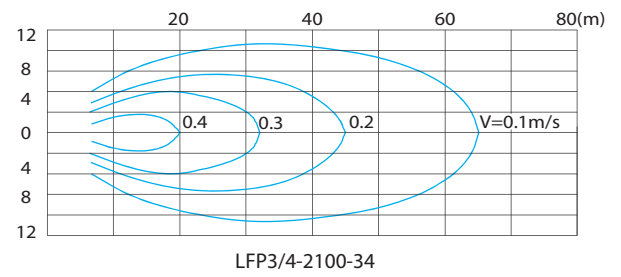
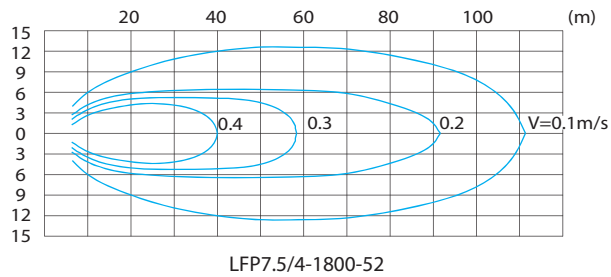
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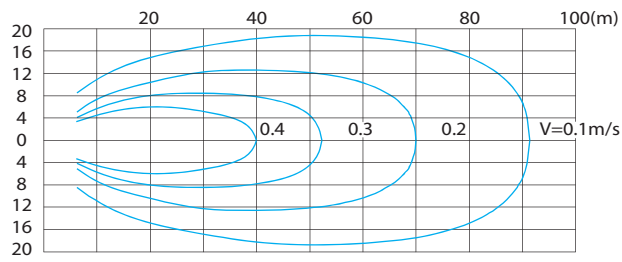


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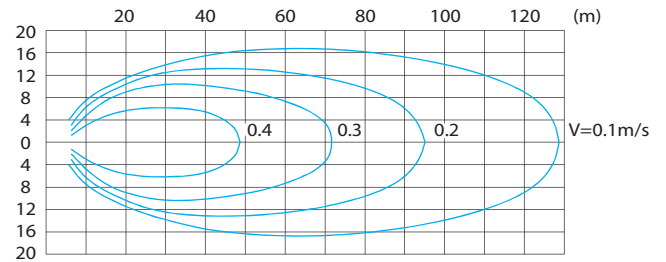


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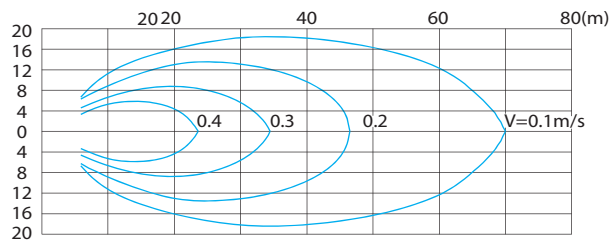




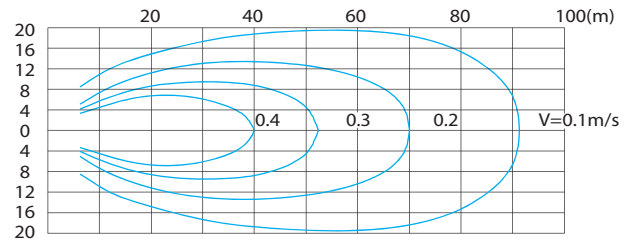
LFP5.5/4-1800-43/3



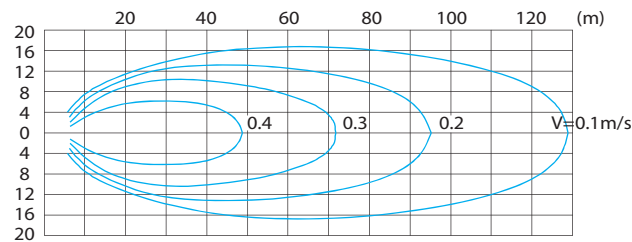
LFP7.5/4-1800-47/3



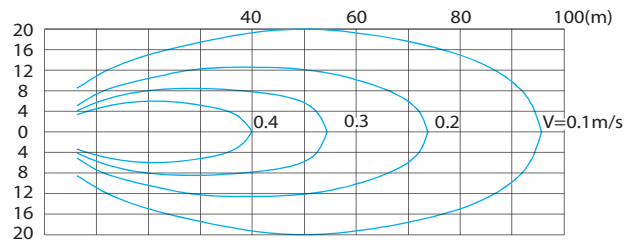
LFP4/4-2100-39/3



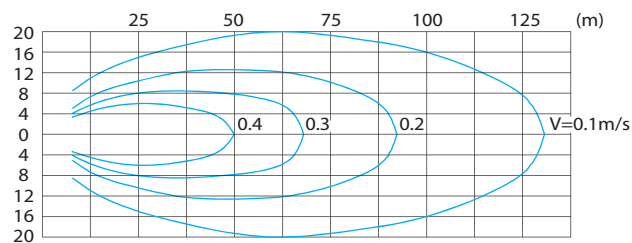
LFP5.5/4-2100-43/3



LFP7.5/4-2100-47/3



LFP5.5/4-2500-43/3



LFP7.5/4-2500-43/3



安装方式及尺寸

潜水搅拌机可以有多种安装方式, 这里提供最通用的方式供选择, 尺寸可参考下表。我公司还可以根据用户的要求作特殊设计。

Installation modes and dimensions

The submersible mixers can be installed in a multiple of modes. Here are generally accepted modes of installation for selection with reference made to the following table. Our company can also provide the special designs in accordance with the demand of the users.

型号 Type	a	D	b	L	H _{1min}	H _{2min}	安装系统 Installation system
LFP2.2/4-1100-52/2	□100	Φ1100	210	1100	1000	270	IV
LFP3/4-1100-63/2	□100	Φ1100	210	1100	1000	270	IV
LFP4/4-1100-85/2	□100	Φ1100	210	1150	1000	270	IV
LFP2.2/4-1400-34/2	□100	Φ1400	210	1100	800	125	IV
LFP3/4-1400-43/2	□100	Φ1400	210	1100	800	125	IV
LFP4/4-1400-52/2	□100	Φ1400	210	1150	800	125	IV
LFP5.5/4-1400-63/2	□100	Φ1400	210	1150	800	125	IV
LFP3/4-1800-34/2	□100/Φ89	Φ1800	210/600	1100/1050	800	125	IV/V
LFP4/4-1800-43/2	□100/Φ89	Φ1800	210/600	1150/1050	800	125	IV/V
LFP5.5/4-1800-47/2	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/VII
LFP7.5/4-1800-63/2	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/VII
LFP3/4-2100-34/2	□100/Φ89	Φ2100	210/600	1100/1050	900	125	IV/V
LFP4/4-2100-43/2	□100/Φ89	Φ2100	210/600	1150/1050	900	125	IV/V
LFP5.5/4-2100-47/2	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/VII
LFP7.5/4-2100-52/2	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/VII
LFP3/4-2500-34/2	□100/Φ89	Φ2500	210/600	1100/1050	1000	125	IV/V
LFP4/4-2500-43/2	□100/Φ89	Φ2500	210/600	1150/1050	1000	125	IV/V
LFP5.5/4-2500-47/2	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII
LFP7.5/4-2500-52/2	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII
LFP3/4-1800-34/3	□100/Φ89	Φ1800	210/600	1100/1050	800	125	IV/V
LFP5.5/4-1800-43/3	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/VII
LFP7.5/4-1800-47/3	□100/Φ102	Φ1800	200/600	1190/1050	800	125	VI/VII
LFP4/4-2100-39/3	□100/Φ89	Φ2100	210/600	1150/1050	900	125	IV/V
LFP5.5/4-2100-43/3	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/VII
LFP7.5/4-2100-47/3	□100/Φ102	Φ2100	200/600	1190/1050	900	125	VI/VII
LFP5.5/4-2500-43/3	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII
LFP7.5/4-2500-43/3	□100/Φ102	Φ2500	200/600	1190/1050	1000	125	VI/VII

注:

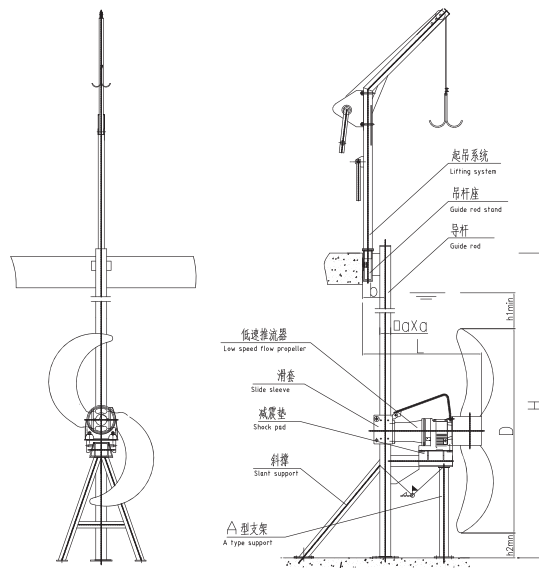
- 支架和下托架与池壁、池底均可用膨胀螺栓或化学锚栓固定, 对于大直径叶轮和大功率搅拌机最好采用预埋。
- 客户订货时, 请提供池深H及池型图, 以便确定导杆尺寸和支架个数。
- 同一种安装系统, 多台搅拌机可共用一套起吊系统。
- 安装系统可选择采用不锈钢或碳钢防腐材质。

Notes:

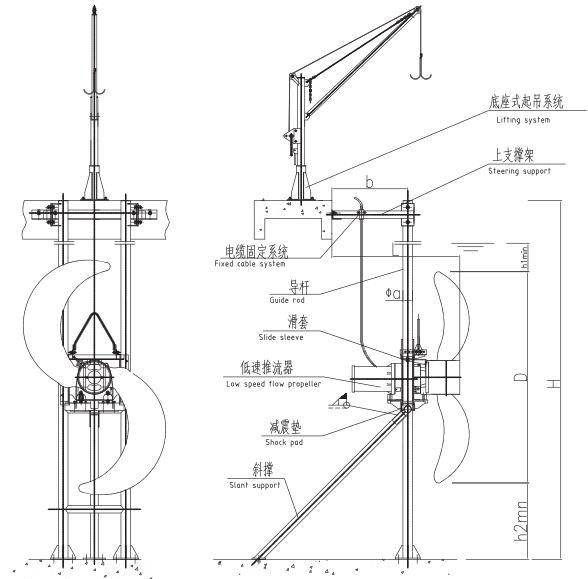
- The supporting frame and the lower support shall be fixed onto the pond wall and the pond bottom with the use of expansion bolts or chemical anchors. For the big diameter impellers and the big power mixers the best choice is to pre-embed.
- While placing an order by customer. Please supply the pond depth H and the drawing of the pond shape so as to determine the dimensions of the guide rod and the number of the supporting frames.
- A multiple of mixers with the same installation system can share one lifting system.
- The installation systems may employ the material of stainless steel or carbon steel for the selection of the corrosion-resisting properties.



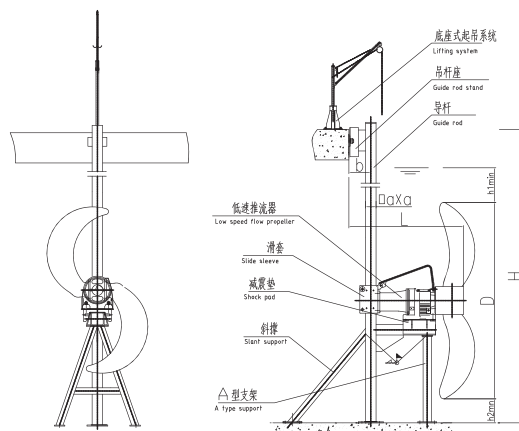
外形及安装尺寸 Installation dimensions



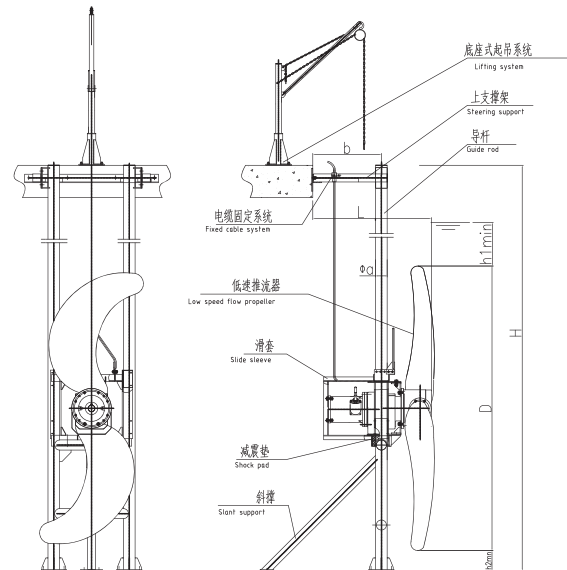
IV型安装



V型安装



VI型安装



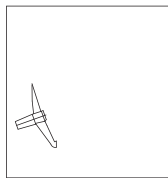
VII型安装

配置示意图

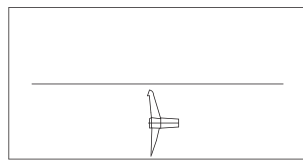
潜水搅拌机的安装定位对其搅拌效果有很大的影响, 为了达到良好的运行效果, 我们建议用户按照专业设计人员的要求去做, 要充分考虑到水池的形状, 进出水的位置以及搅拌机的水流反射到构筑物而引起的涡流等情况, 尽量减少短路循环和死角产生, 避免与池壁的撞击而降低流速。参照下面的配置示意图, 可帮助您合理选择搅拌机和安装型式。

Arranging sketch map

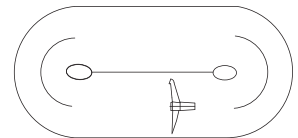
The installation and positioning of the submersible mixers will produce a great impact on the effect of mixing. In order to obtain the perfect operating result, it is suggested that the advice of the specialized designers shall be followed and full consideration given to the shape of the pond, position of the water inlet and outlet, the vortex resulting from the outflow from the mixer onto the structures and some other conditions. Every effort shall be made to reduce the short-circuit circulation and the occurrence of dead corners and avoid the dashing of the flow against the pond wall for lowering the flow velocity. Making reference to the arranging sketch map below will help you to make a reasonable selection of the mixers and their installation modes.



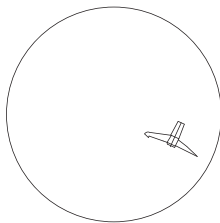
方形池 Square pond



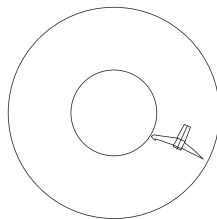
矩形池 Rectangular pond



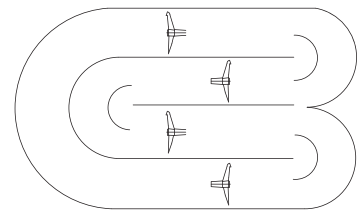
跑道形池 Track-shaped pond



圆形池 Circular pond



环行池 Ring-shaped pond



S曲线形池 S-shaped pond

如蒙洽询请指示下列各项

For further details, please fulfill the chart below.

客户 _____ 承办人员 _____
 Customer _____ Undertaker _____

工程名称 _____ 工程地点 _____
 Name of project _____ Address of project _____

电话 _____ 传真 _____
 Telephone _____ Fax _____

基本选型参数 Basic parameters	*工艺名称 Processes name	氧化沟 Oxidation ditch	☐	A-O法 A-O	☐	SBR法 SBR	☐	其它(注) Others					
	*安装位置 Installation location	其它(注) Others											
	*基本池型(m) Pond form	长 L	宽 W	深 H	长 L	宽 W	深 H	长 L	宽 W	深 H			
	*有效水深(m) Available water depth												
	介质参数 Media parameter	介质名称 Name				密度 Density							
主要成分 Main composition				*PH值 PH									
*温度 Temperature				黏度 Viscosity									
其它 Other													
工艺要求参数 Technique parameters	*主要搅拌混合方式 Mixing methods	搅拌型 Mixing agitator		☐		推流型 Flow propeller		☐		其它(注) Other			
	*池底最低流速(m/s) Minimum flow speed at the bottom												
	其它工艺要求 Other requests												
池形结构 Pool structure	*池沿结构 Pool surface structure			☐				☐			☐	其它 Others	☐
	*池底结构 Pool bottom structure			☐				☐			☐	其它 Others	☐
材质要求 Material requests	主机壳体 Sheall body					*水下导杆及支座 Guide and support							
	搅拌叶桨 Mixing propeller					*水上吊架及支座 Hanger and support							
	导流罩(是否需要) Fairwater(need or not)					*螺栓、螺母及垫圈 Bolt, nut and gasket							
	主轴 Main shaft					*提升钢丝绳 Boom hoist cable							
搅拌机结构性能参数 The machine parameters	传动方式 Driving method					电机功率(kW) Motor power							
	密封形式 Seal type					额定电流(A) Rated current							
	叶轮直径(mm) Propeller diameter					电源 Power							
	叶轮转速(rpm) Propeller speed					防护等级 Protection grade							
	推力(N) Thrust					工作制式 Working standard							
其它要求 Others													

注:为准确选型,项目前加“*”号者,请务必详加填写。

Note: In order to choose the right type, the item with “*” should be filled as detail as possible.



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潜水泵系列 | 陆上泵系列 | 特种泵系列



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搅拌机系列 | 推流器系列



供氧曝气系列

曝气机系列 | 曝气盘系列 | 曝气管系列



风机系列

三叶罗茨鼓风机系列 | 增压罗茨鼓风机 | 沉水式风机 | 空气悬浮离心鼓风机



污泥处理设备

带式脱水机 | 厢式压滤机 | 非金属矩形刮泥机 | 浅层高效气浮设备



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