







# 关于镇田 About Jhenten

浙江镇田机械有限公司成立于1986年,拥有超过30年的设计、 制造和服务特殊不锈钢罐和容器的经验。在镇田,我们的工程技 术和专业知识始终专注于存储容器、工艺罐和定制不锈钢制造的 创新和复杂的卫生级设计。我们的客户认识到镇田正在为所在行 业中最具挑战性的存储、混合和处理应用程序获得最高价值的产 品和技术提供解决方案。镇田机械背后的技术能力确保了高质量 的产品在混合、搅拌、加工和储存的广泛应用。

- ●乳品
- ●食品饮料
- ●制药工程
- ●日化
- ●精细化工

镇田设计产品采用优质的原材料和最先进的制造工艺,在广泛的 不锈钢容器(包括搅拌容器、压力容器、水平和立式储罐)应用中 实现客户对产品的期望。 镇田可以根据特定容器体积、设计和使用的要求为客户提供合适 的搅拌技术、传热解决方案和清洗方案。

●我们为各类立式及卧式储罐制造独特的垂直和水平搅拌。

●我们制造全系列搅拌器--推进式、涡轮式、桨叶式、锚框式、 螺带式等--用于加工、混合和混合容器。

●我们设计不同的传热表面形式,包括蜂窝板、盘管和半管夹 套,用于几乎任何容器的加热和冷却。

●我们选择各种清洁方式——CIP、喷淋球——有助各类容器的 清洁,降低能耗,降低清洁周期的需水量。

镇田可以满足您所有特殊行业的应用,使用更高级的合金(如 Hastalloy和钛等材料)定制不锈钢设备容器。如果压力容器需要 美国机械工程师协会(ASME)认证,我们可以将其与其他规范一 起提供,包括加拿大CRN和欧盟PED。

镇田机械制造的产品已经被认为不锈钢制造行业的一个标杆,我 们始终秉承传统的价值观,对工作不懈努力和对产品可靠性保 证。我们的员工始终以质量为导向,并不断利用创新的设计和简 化流程。这显示了镇田在与客户分享我们的工程技术、设计能力 和制造经验方面的优势。





Zhejiang Jhenten Machinery found on 1986, have more than 30 years experience on designs, builds, and services exceptional stainless steel vessels. We focus our engineering skills and expertise on the innovative and sophisticated sanitary design of storage vessels, process tanks, and custom stainless steel fabrications. Our customers recognize that they are getting the highest value products and technology solutions for the most challenging storage, mixing and processing applications in their industries. The technology behind Jhenten Engineered Products ensures quality in a wide range of markets that mix, blend, process and store.

#### Dairy

- Food & Beverage
- Pharmaceuticals
- Personal Care
- Fine Chemicals

Jhenten Engineered Products uses leading edge materials and state of the art fabrication to deliver on our customers' expectations across a broad range of stainless steel tanks for storage, mixing and processing, including agitated vessels, pressure vessels, horizontals and vertical storage tanks.

The agitation technologies, heat transfer solutions and cleaning options Jhenten provides to customers are designed for the demands of specific vessel content, design and use.

•We manufacture unique vertical and horizontal agitation for different tanks.

•We fabricate a full line of agitators-Propeller ,turbine, paddle, anchor, ribbon and more-for processing, mixing, and blending vessels.

We engineer heat transfer surfaces including dimple, channel and half pipe for heating and cooling of virtually any vessel.
Various cleaning options-CIP, spray ball- facilitate the cleanability of vessels, reduce energy consumption, and lower

water demand in the cleaning cycle.

Jhenten can meet the specifications of all your specialized applications with custom stainless steel fabrication using higher alloys such as Hastalloy and Titanium and so on. And if a pressure vessel requires ASME certification, we can provide that along with other codes, including CRN and PED.

Jhenten Engineered Products is perceived as a quality organization in stainless steel manufacturing, held in high regard for its traditional values of hard work and reliability. Our employees are quality driven, always ready to take advantage of new ideas and streamline processes. And this shows in the pride they take in sharing our engineering know–how, design capabilities and fabrication experience with our customers.



专业服务洁净工程 Professional Service For Sanitary Project

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# 设计研发 Design and R&D



镇田全面的创新技术,拥有国内领先的硬件、软件设施、专业的 技术研发队伍,在项目开发阶段,项目小组承建工艺、工程设 计,通过大量使用工业工程电脑辅助设计及工艺模拟系统,通过 CAD电脑辅助设计,三维的模拟效果,镇田能够优化整个生产过 程的效果,使客户对整个项目一目了然。 Jhenten has a comprehensive range of innovative technologies, with leading hardware, software facilities, and professional technical R&D teams. In the project development stage, the project team has built process and engineering designs. Through the use of industrial engineering computer–aided design and process simulation systems, CAD Computer–aided design, three–dimensional simulation results, Jhenten can optimize the effect of the entire production process, allowing customers to see the entire project at a glance.



# 生产车间 Production Workshop





科学技术是第一生产力,科学技术也是企业的核心竞争力。不断 加强核心技术的研发和创新,不断追求卓越,精益求精,以先进 的生产设备,严格的质量管理,精密的生产检测流程,保证每一 款产品的优良性能。

生产工具是生产力发展水平的标志,先进的生产设备代表了先进 的生产力。公司积极引进先进的技术和生产设备,使产品内在品 质与外在个性化紧密结合,完全满足并引领工业现代化的需求。 Science and technology are the primary productive forces, and science and technology are also the core competitiveness of enterprises. Continuously strengthen the research and development of core technologies, innovate continuously, strive for excellence, keep improving, use advanced production equipment, strict quality control, and precise production testing procedures to ensure the excellent performance of each product.

Production tools are a sign of the level of productivity development. Advanced production equipment represents advanced productivity. The company actively introduces advanced technology and production equipment to closely integrate the intrinsic quality of the product with the external personalization, fully satisfying and leading the needs of industrial modernization.

### 高品质产品要求 精心设计、精心制造、精益求精

High quality products require elaborate design, well-creafted manufacturing and continuous improvement.





# Jhenten Machiner 资质证书 **Qualification Certificate**

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# 合作伙伴 Cooperative Partner





### CFJ 齿轮传动侧入式搅拌机 CFJ Series Gera Drive Side-entry Mixers

CFJ系列侧入式搅拌机采用一对螺旋齿轮传动,结构紧凑,传动效 率高。箱式结构设计,外型简洁美观,电动机和安装机架直接固定 在箱体上,安装调速方便快捷。搅拌轴通过锥面安装在箱体内的空 心轴内,取消了联轴器,缩短了整机长度,增加了系统稳定性。配 合261型侧搅拌专用机械密封和危机遮断机构,适合于含固体颗粒 等的复杂工况。 CFJ series side–entry mixer is driven by a pair of spiral gears, so the structure is compact and the transmission efficiency is high, with box structure design, the appearance is nice, the motor and pedestal are all mounted on the box, and the adjustment is convenient, the shaft is fastened by cone sleeve in the box, the coupling is cancelled, so the length is shortened and the stability is strengthened, with 261 mechanical seal for side–entry mixers and special shut–off device, the mixer is suitable for complex conditions, such as fluid with solids.

#### 主要参数表 Main Parameters

		Rot		速(r/min) I of output s	haft	
型号 Model	电机功率 Power(kw)		&电机 ole motor	配6级电机 Use 6-pole motor		
		il	i II	il	i II	
CFJ-1	0.55,0.75,1.1,1.5	350	280	230	190	
CFJ-2	2.2,3,4	350	280	230	190	
CFJ-3	5.5,7.5,11	350	280	230	190	
CFJ-4	15,18.5,22	350	280	230	190	
CFJ-5	30,37,45	340	250	230	170	



CFJ搅拌机 CFJ mixers

### TD 带传动侧入式搅拌机 TD Belt Drive Side-Entry Mixers

TD系列侧入式搅拌机采用同步齿形带传动,结构紧凑,传动效率 高。设计带有内伸式支撑结构,适合于无固体颗粒的、轴伸较长的 工况。内支撑架端部的危机遮断结构可实现带料进行机械密封和减 速机的维修。

#### 选型表 Selection Table

输出转速 n Output speed (r/min)	200	240	300	370	470	600
传动比 i Reduction ratio	5	4	5	4	3.15	2.5
电机功率 p Motor power (kw)		电机 e motor		4极 4-pole	电机 e motor	
0.55						
0.75						
1.1				TD1		
1.5						
2.2						
3.0						
4.0			TD2			
5.5						
7.5						
11						
15						
18.5			TD3			
32	×					
30	×	×	×			

备注:TD型搅拌机安装形式按其输入功率大小分悬挂式和落地式两种,输入功率 0.55~7.5kw为悬挂式结构,11~30kw为落地式结构。

Notes: The mixer of 0.55~7.5kw is hanged by rope and 11~30kw is foot-mounted type.

TD series side-entry mixers use synchronize tooth belt, so the structure is compact and the transmission efficiency is high, with inner pedestal structure, this mixer is suitable for such conditions as fluid without solids, or long extended shaft. the shut-off device at the head of the pedestal permit the maintenance of the seal or reducer without discharge the tank fluid.



TD搅拌机 TD mixers



CPT搅拌机 CPT mixers

### MTS 底入式卫生级磁力搅拌机 MTS Sanitary Magnetic Bottom-entry Mixers



MTS系列底入式卫生级磁力搅拌机同样是由磁力耦合器无接触传递 力矩,克服了泄漏问题。适合应用于要求高清洁性和持久性的场 合。其具有耐温和高效磁性等特点,轴承采用陶瓷轴承,一体化焊 接隔离套,物料能够在搅拌器内部流通,从而消除了死角,可以实 现在线清洗和灭菌。接液部件采用不锈钢316L材质。能适应容积范 围到30000L,粘度能达到1000cP。 MTS Series magnetic drive mixers also use permanent magnets for the transfer of torque in order to prevent leakage. it suits applications which demand high levels of cleanability and durability. features include temperature-resistant and highefficiency magnets, ceramic bearing design, one-piece tank plate, flow-through channels can be cleaned in place and all wetted parts of the impeller and the tank plate made of AISI 316L stainless steel. it is suitable for up to 30000 liters and viscosity up to 1000cP.

#### 按粘度和体积选型图 Selection Guide And Options



#### 选型表 Selection Table

型号 Model	功率 Power (kw)	转速 Speed (rpm)	桨叶直径 Impeller diameter (mm)	设计扭矩 Design torque (N.m)
MTS25	0.25	358	140	5
MTS37	0.37	358	140	5
MTS55	0.55	347	190	10
MTS75	0.75	347	190	30
MTS110	1.1	354	220	30
MTS150	1.5	352	280	63
MTS220	2.2	352	280	63
MTS300	3	302	330	100
MTS400	4	306	380	160
MTS550	5.5	278	420	250
MTS750	7.5	200	550	315

备注: 1、速度通过安装变频器条件; 2、搅拌器直径等参数也可以定制。

Notes: 1. Speed varies when equipped with VFD. 2. Parametes such as diameter of impeller etc. can be customized.



MTS 搅拌机 MTS mixers

### HDM 一机多缸高速分散机 HDM High-speed Disperser With Multi-tanks

一机多缸调速分散机(HDM系列)是一款具有分散、混合功能的批量 化作业设备,具备使用寿命长、操作方便、噪音低等特点。可搭配 不同规格及形式的分散搅拌器来满足不同的工艺需求,搅拌器更换 方便。提升机构通常采用液压动力源,集成式的油路系统性能稳 定、环保无泄漏。配备电动转向机构,可方便快捷的实现搅拌执行 机构在多个工位间的切换,实现一机多缸,一般可根据需求配备2-4个缸体。

一机多缸调速分散机的应用领域及物料特性:涂料、油漆、油墨、 胶黏剂、染料、农药、生物、医药等行业中物料的分散、混合应 用。物料粘度在50,000cps以下,固含量在60%以下的各种浆料, 水性漆、油漆、水性油墨、农药、粘合剂等。 High-speed disperser with multi-tank (HDM) is designed to disperse and mix materials in production lines with durability, reliability and minimal noise, the HDM can use a variety of mixing blades for various industrial applications, the HDM is very mobile due to it's reliable, environmentally friendly, non-leaking hydraulic system, the HDM's swivel system is capable of high turnover working with 2–4 tanks at once.

Applications for the HDM will involve the industrial mixing of organic materials, pharmaceuticals, food, paints, inks, adhesives and pesticides to name a few. the HDM can mix liquids with a maximum viscosity of 50,000 cps and solid content of less than 60% like emulsion paints, industrial paints, water-based inks, pesticides and adhesives.





HDM一机多缸调速分散机 HDM series high-speed disperser with multi-tanks

HDM系列一机多缸调速分散机由转向机构、动力传递机构、搅拌 执行机构、电动机和提升机构组成(见上图)。搅拌器通常配锯齿圆 盘型搅拌器(见下图)。 HDM Series high-speed disperser includes swivel system, force transmitter, disperser, motot and hydraulic system (See picture above). toothed disc turbines (See below) usually be employed.





#### 物料的粘度

调速分散机通常使用的物料粘度在50,000cP以内,该设备非常适用于具有触变作用及流动性较好的物料搅拌。

#### 容积

根据客户的搅拌容量要求选择与之匹配的设备,并根据客户现有的 设备和人员配备进行优化选型。

#### 缸体的设计选型

最好选择圆罐配合椭圆封头的缸体,椭圆封头的设计可以有效加速 物料的循环流动以及减少死区,平底和斜底容器也是可选项,在设 计上尽量采用1:1的高径比。考虑到非挡板条件下形成的旋涡,一 般液位比缸侧壁低30%,搅拌器直径一般是缸体直径的1/3,搅拌 器离底距离应为搅拌器直径的一半,搅拌器埋液深度一般为搅拌器 直径的1.5倍。实际消耗功率由出轴转数、搅拌器的类型及直径、 物料的密度和粘度等因素决定。

#### Viscosity

The upper viscosity range of materials is 50,000 centipoise. materials are thixotropic and good liquidity under shearing conditions.

#### Volume

The volume of the product to meet production forecasts needs to be provided, please consider the optimum production volume to match your capabilities considering your facilities and available staff.

#### Tank design

The most suitable tank is one that has an elliptical bottom because this design optimizes the flow and minimizes the possibility of a dead zone. flat and sloped bottom tanks can also be used but are not as optimal. ideally a tank that has approximately the same diameter as the height is preferred for the dispersers. the liquid should only be filled up to 70% of the tank to allow for the vortex when in operation. the mixing blade should be half its diameter from the bottom of the tank, the tank diameter should be triple the diameter of the mixing blade. the liquid level should only go above the mixing blade by 1.5 times it's diameter. power consumption is determined by the diameter of the mixing bladed, density of the material and rotational speed of the mixing blade.

#### 选型表 Selection Table

型号 Model	功率 Power(kw)	转速 Speed(rpm)	搅拌器直径 Impeller diameter(mm)	容积 Capacity(L)	液压功率 Hydraulic powe	提升行程 Lift(mm)
HDM750	7.5	0~1450	230	~400	0.55	900
HDM110	11	0~1450	250	~500	0.55	900
HDM1500	15	0~1450	280	~700	0.55	900
HDM1850	18.5	0~1450	300	~800	0.75	1100
HDM220	22	0~1450	350	~1000	0.75	1100
HDM3000	30	0~1450	400	~1500	0.75	1100
HDM3700	37	0~1450	420	~2000	1.1	1600
HDM4500	45	0~1450	450	~2200	1.1	1600
HDM5500	55	0~1450	500	~2500	1.1	1600
HDM7500	75	0~1450	550	~4000	2.2	1800
HDM9000	90	0~950	600	~6000	2.2	1800
HDM11000	110	0~950	700	~8000	3	2100
HDM13200	132	0~950	800	~10000	3	2300

备注: 1、表中容积是按水的物性参数,选型时应更具实际物料参数进行调整。

2、表中所有参数可以根据用户需求进行调整。

Notes: 1. The capacity assumes materials with a viscosity of roughly 1000 cps and specific gravity of 1g/cm<sup>3</sup>.

2. All technical parameters can be adjusted to suit the application.

#### 搅拌器概述

搅拌器的种类繁多,根据结构划分,常用的有十几个大类,有桨 式,开启涡轮式,圆盘涡轮式,圆盘锯齿式,推进式、轴流式、布 鲁马金式、螺杆式、螺带式、锚框式及特殊类;根据使用工况,搅 拌器一般可分为低粘液体用和高粘液体用两大类。

桨式,开启涡轮式,圆盘涡轮式,圆盘锯齿式,推进式、轴流式、 布鲁马金式通常用于低粘液体的搅拌,在湍流状态下操作,其叶轮 直径与槽内径之比通常为0.3~0.6左右。

锚框式、螺杆式和螺带式适合于高粘液体的搅拌,在层流或过渡流 状态下操作。

#### **General Description For Impellers**

There are lots of types of impellers, according to the structure difference, there are more than ten types, such as paddle, open turbine, disc turbine, saw-teeth type, propeller, hydrofoil, bulmarking type, screw, helical ribbon, anchor and gate type, and other special types, according to the usage, there are two types, low viscosity type and high viscosity type.

Paddle, open turbine, disc turbine, saw-teeth type, propeller, hydrofoil, bulmarking type are low viscosity type impellers, operating at turbulent conditions, the ratio of impeller diameter to tank diameter is usually 0.3~0.6.

Screw, helical ribbon, anchor and gate type are high viscosity type impellers, usually operating at laminar or transition flow.

#### 搅拌器的种类 Types Of Impellers



#### 搅拌器的分类、特点及应用 Classification, Characteristics And Application Of Agitators







ASME ISO9001



	三直叶锥底式 Type SZP	本类搅拌器为径流型搅拌器,使用条件同平直叶开启涡轮,适用于锥形容器搅拌的最下层搅拌,可应用于一般的反应、溶解、悬浮、传热、乳化、结晶等操作。         The radial flow paddles are used in the lowest layer of conical bottom tanks, make is suitable for reaction, dissolving, suspending, heat transfer, emulsification and crystallization.	0.2~0.5	100~3000	< 10000	2~8
开启涡轮式搅拌器	后掠式 Type HQ,SQ	HQ       SQ         为径流型搅拌器,配合指型挡板,能得到大流量的上下循环流,且剪切作用好,适合应用于传热、传质、固体溶解、悬浮等。         Type HQ, SQ are axial flow type impellers. they produce strong circulation and good shearing force with finger baffles. they are used in processes of heat transfer, mass transfer, dissovlving, suspending.	0.2~0.5	100~3000	< 10000	2~8
	布鲁马金式 Type BM	为径流型搅拌器, 桨叶前端带有后掠角的大宽叶桨叶, 排出性能优于直叶和弯叶开启涡轮, 功耗低, 剪切力小, 有挡板时, 可产生对流循环及湍流扩散, 适用于传热、传质、混合、纤维物料的溶解。 These radial flow type impellers with good pumping rate, reduced shearing force and lower power consumption. circulation flow and onflow diffuse can be produced when baffles are set. it is used in processes of heat transfer, mass transfer mixing and fiber dissolving.	0.2~0.5	100~3500	< 50000	2~8
圆盘涡轮式搅拌器	平直叶圆盘涡轮 Type PY,PDJ	PY         PDY           22流型搅拌器,具有极高的剪切力,分散能力强。循环能力较好,一般在圆盘上下形成两股循环环流,因有圆盘的作用,能使气体分散更平稳、均匀。特别适用于气体的分散、吸收操作,同样也适用于固体悬浮、传热、非均相反应操作。           The radial flow type impellers have powerful shearing force and good circulation power and good dispersing power, because of the disc, it can disperse gas smoothly. it is used specially in processes of dispersing, absorbing, and it is also suitable for suspending, heat transfer and non-homogeneous phase reaction.	0.2~0.5	100~3500	< 50000	4~10



BPY BWY GSL				
单向涡轮为径流型搅拌器,有较大的离心辐射状流线,BYP与BWY一般在中高速段使用,有类似 叶片泵的功能,有较高的泵送能力,剪切力和分散能力高,特别适合于高强度要求的气体分散、 吸收、萃取等操作;也适用于固体悬浮、传热、非均相反应操作。GSL一般在低速段使用,适用 于水处理行业。	0.2~0.5	100~3500	< 50000	4~10
pump and powerful shearing force and powerful dispersing force and used in high speed. it it used specially in processes of gas dispersing, absorbing, leaching, and it is also suitable for suspending, heat transfer and non-homogeneous phase reaction. GSL is generally used at low speed and is suitable for water treatment.				
		10		
WY     WDY       此类搅拌器性能基本同平直叶圆盘涡轮,后弯的桨叶并具有较大的后掠角,排出性能好,动力消耗低,桨叶不易磨损,适合气体分散、吸收及因液悬浮操作等。       The capabilities of these impellers are similar to type PY. type WY impellers installed back bend blades with big sweepback can generate good pumping rate at low power consumption. it is used in processes of gas dispersing, absorbing, suspending.	0.2~0.5	00~3500 0.2~0.5	< 50000	4~10
斜叶圆盘涡轮的桨叶具有一个倾角,有一定的轴向流,循环性能好,剪切力低于直叶圆盘涡轮, 螺距叶圆盘涡轮的桨叶有一个较大的后退角,排出性能好,动力消耗低,特别适合于非均相的混 合、分散,也用于一般的传热、乳化等操作。	0.2~0.5	100~3500	< 10000	2~8
Pitch-blade types have slope angle and can produce axial flow, it has good circulation power but the shearing force is lower than straight-blade type. curved blade types have back angle and have large output flow rate and low power consumption. it is used specially in processes of mixing, dispersing, and heat transfer, emulsification.				
		10		
箭叶式圆盘涡轮式搅拌器也是一种以径流为主的搅拌器,但其桨叶剖面为抛物面,因而轴向有上 下两股斜向循环流,相对PY功耗低,且具有较高的剪切力,适用于气体分散、吸收、传质、混 合、固液悬浮等操作。	0.2~0.5	00~3500	< 10000	4~10
_	<ul> <li>叶片葉的功能,有较高的築送能力,剪切力和分散能力高,特别适合于高强度要求的气体分散、 吸收,萃取等操作;也适用于固体悬浮、传热、非均相反应操作。GSL一般在低速段使用,适用 方水处理行业。</li> <li>The radial flow type impellers BYP and BWY have higher pumping-feeding power similar to pump and powerful shearing force and powerful dispersing force and used in high speed, it it used specially in processes of gas dispersing, absorbing, leaching, and it is also suitable for susperding, heat transfer and non-homogeneous phase reaction. GSL is generally used at low speed and is suitable for water treatment.</li> <li></li></ul>	PH系的功能,有较高的赛送能力,剪切力和分散能力高,特别适合于高强度要求的气体分散、 吸收,萃取等操作;也适用于固体悬浮、传热、非均相反应操作。GSL—放在低速成使用,适用 才水处理行业.       GSL       000000000000000000000000000000000000	于水处理行业。       The radial flow type impellers BYP and BWV have higher pumping-feeding power similar to pump and powerful dispersing force and used in high speed. It it used specially in processes of gas dispersing, absorbing, leaching, and it is also suitable for suspending, heat transfer and non-homogeneous phase reaction. GSL is generally used at low speed and is suitable for water treatment.       00-300 <b>WY WY WDY WDY</b>	〒水处理行业。       The radial flow type impellers BVP and BWY have higher pumping-feeding power similar to pump and powerful dispersing force and used in high speech. It it used specially in processes of gas dispersing, absorbing, leaching, and it is also suitable for suspending, heat transfer and non-horrogeneous phase reaction. GSL is generally used at low speed and is suitable for water treatment.       000       000











特殊用	曝气叶轮 Type BAY,BDY,BQY	BAY       BQY         此类搅拌器专用于气液吸收,分散的搅拌器,它相当于低水头大流量的水泵高速旋转时中心吸入         作体随液体离心抛出,桨叶对气相及液相产生剪切力,使气体破碎成大量微小的气泡,分散于液         相中,它加强了相表面更新及湍动有利于相际扩散。常用于污水处理,传氧等过程。         These are special impellers used in gas-liquid absorbing and dispersing, they rotae with high speed and absorb gas, liquid will be thrown off by centrifugal force. inside the impeller, gas will be sheared into a lot of air bubble by paddle. with air bubble dispersing into liquid medium, turbulent flow will be increased. they are used in processes of wastewater treatment and oxygen transfer.	0.2~0.5	100~3500	< 2000	2~15
特殊用途搅拌器	消泡搅拌器 Type XPY XPJ	XPY       XPJ         此类搅拌器是为消除液面上覆盖的大量泡沫而用,消泡叶轮为高速型,其高速旋转下产生的离心 作用,使从中心吸进的泡沫,沿壁面汇成液珠抛出,消泡效果好,消泡浆为中低速型,旋转蛇形 棚条桨,不断破坏生成的气泡,控制了泡沫的增加,发酵罐应用广泛、效果良好。         These impellers have a special usage, which can clear foam above liquid level. type XPY is a high-speed impeller, foam can be imbibed and thrown off through middle section. it has good ferformance of clearing foam, but it consumes much energy and increases cost. type XPJ is a middle or low speed imperller, the rotating imperller strikes and breaks foam continuously and foam amount is under control, it is widely used in fermenter.		100~4000		
螺杆式搅拌器	螺杆式、带导流简螺杆式 Type LG,LGH	LG       LG         此类搅拌器为慢速型搅拌器,在层流区操作,适用于中高粘度液的混和和传热等过程,螺杆搅拌 直径小,轴向推力大,螺杆带上导流简,轴向流动加强,在导流简内外形成向下向上的循环。         These low speed impellers operate in laminar region. they are used in processes of mixing and heat transfer of middle, high viscosity medium. the screw type impeller has the feature of small agitating diameter, strong axial thrust, along the screwed plane, medium appears axial circulation flow.	0.4~0.5	100~1500	≤50000	< 2





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