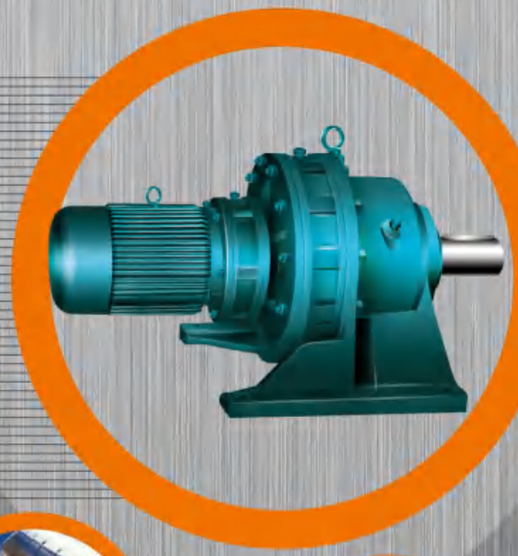
CA-019B-2013

中国名牌产品 CHINA TOP BRAND

国家大型企业 NATIONAL LARGE ENTERPRISE

中国驰名商标
CHINA WELL-KNOWN
TRADEMARK



摆线针轮减速机

TAILONG
MACHINERY

江苏泰隆机械集团公司
JIANGSU TAILONG MACHINERY GROUP COMPANY
江苏泰隆减速机股份有限公司
JIANGSU TAILONG DECELERATOR MACHINERY CO.,LTD.

中国驰名商标
CHINA WELL-KNOWN
TRADEMARK

TAILONG

地址(ADD):江苏省泰兴市大庆东路88号
NO.88,Daqing Rd.(E)TaiXing City,Jiangsu Province, China
电话(TEL)：0086-523-87635698 87668018 87668028
传真(FAX)：0086-523-87662169 87665426 87665000
邮编(P.C)：225400
网址：http://www.tailong.com E-mail：tloffice@tailong.com

公司简介

秦隆集团地处扬子江畔的泰兴市区，是泰兴人引以为豪的国家大型企业。秦隆集团东临沪宁高速，西靠南京禄口机场，南有江阴大桥，交通便捷，物流畅通，具有得天独厚的区位优势。

集团在全国优秀企业家、江苏省劳动模范董事长殷根章的领导下，经过20多年的悉心经营，昂首迈进了中国机械工业500强，成为全国减变行业排头兵企业。集团现拥有总资产12.06亿元，固定资产6.92亿元，占地面积30万平方米，员工3162人，专业工程技术人员901人。拥有美国、德国、日本、俄罗斯、奥地利等国家引进的大型数控磨齿机、大型数控镗铣床、蜗杆磨床、加工中心、碳氮共渗炉等一批高精尖的生产设备和检测设备达48%。建立了全国同行业中检测功能最全、仪器最先进的2000kW测试中心，创建了江苏省技术中心、江苏省传动机械与控制工程技术研究中心、泰隆集团-哈工大工程技术研究中心、博士后科研工作站。公司的主导产品减速机在原有十几个系列，几十万种规格的基础上，采用先进的模块化、点线啮合等技术开发出了TL模块化齿轮减速电机、TXP行星模块化减速器、重载模块化齿轮减速器、点线啮合减速器、立式磨机及边缘传动磨机齿轮箱、铝冶行业的联合开卷卷取齿轮箱、三环减速器、星轮减速器、风电齿轮箱、水力发电变速装置、核电循环水泵驱动变速装置等高新技术产品，以及各类特殊非标齿轮箱。泰隆工业园区已经成为国内最大的钢帘线设备生产基地，双叶、三叶罗茨风机及高温风机批量出口东南亚及欧美。

我们的产品成功应用于中华世纪坛、三峡大坝、嫦娥一号发射、杭州湾跨海大桥、北京奥体馆、上海世博会等国家重点工程。重点客户有宝钢集团、首钢集团、上海振华港机、燕山石化、葛州坝集团、北京水工、中国铝业、伊拉克泵站、桂林橡塑、乐山成发、三一重工等。

公司现为全国减速机标准化技术委员会秘书处单位，荣获“全国首批守合同重信用企业”、“国家重点高新技术企业”、“全国机械工业质量效益型先进企业”、“全国机械工业质量管理奖”、“全国用户满意服务”、“全国机械工业质量管理小组活动优秀企业”等殊誉。在同行业中率先通过了国家AAAA标准化良好行为企业认证、一级安全质量标准化机械制造企业认证，GB/T19022-2003完善计量检测体系认证、ISO9001-2008质量体系认证、ISO14001-2004环境体系认证、OHSAS18001-1999职业健康安全认证。产品通过矿用产品安全标志认证。起重行业型式试验认可认证，泰隆牌商标被国家工商总局认定为中国驰名商标，泰隆牌减速机被评为中国名牌产品。

秦隆人将遵循自己一贯的质量承诺、服务承诺和信誉承诺，把顾客满意当作我们的最高追求！

Company Brief

Tailong Group, located in Taixing city along riverside of the Yangzi River, is a national giant enterprise which Taixing people are proud of. Tailong Group is east to Highway of Shanghai-Nanjing, west to Nanjing Lukou airport and south to the Jiangyin Bridge. Convenient transportation and smooth physical distribution build the unparalleled location advantages for Tailong Group.

With effortful operation for over 20 years, Tailong Group, under leadership of national outstanding entrepreneur, chairman Mr. Yin genzhang, a model worker of Jiangsu Province, has developed in one of top 500 machinery industrial enterprises in China, playing a leading role in domestic reducer/transmission industry.

At present, the group has total assets of RMB1206million, and fixed assets of RMB 692 million, and it covers an area of 800,000 square meters and more than 3000 employees, where professional technicians account for 991. 48% of our equipments are sophisticated and advanced manufacturing equipments and testing equipments such as large CNS gear grinding machine, large CNC boring and milling machine, worm grinder, machining centre, and carbonitriding furnace that are imported from USA, Germany, Japan, Russia, Australia and so on. Diameter of machining work piece reaches 5m to the maximum. Single reducer we produced reaches 120 tons to the maximum. We have established a 2000kW testing center with most complete testing function and most advanced instruments of the industry national wide, and established a provincial engineering technical center, mechanical transmission and control Engineering Research Center of Jiangsu Province, Tailong Group - Harbin Technology Engineering Research Center and a post-doctoral research station. The dominant product, the reducer is available in decades of series and several hundred thousand specifications. Equipped with advanced modular and dot line engagement technology, we have additionally developed series of high tech products such as TL modular gear retarded machine, TXP modular planet reducer, heavy load modular gear retarded machine, dot line engaged reducer, vertical grinder and edge drive grinder gearbox, joint, open-book, take-up gearbox used for aluminum metallurgy industry, three ring gear reducer, planetary wheel speed reducer, wind driven gearbox, transmission for hydro-power generation, nuclear circling pump driven gearbox, and various special non-standard gearboxes. Tailong Industrial Park has become the largest steel cord production base of national wide. Our two-vane and three-vane Roots blowers and high-temperature blower are exported to South East Asia, Europe and America in batches.

Our products are successfully used in the China Millennium Monument, the Three Gorges Dam, the Chang'e launch, Hangzhou Bay Bridge, Beijing Olympic Gymnasium, the Shanghai World Expo and other national key projects. Key customers include Baosteel Group, Shougang Group, Shanghai Zhenhua Port Machinery, Yanshan Petrochemical, Gezhouba Group, Beijing hydraulic, China aluminium, Iraqi pump station, Guilin Rubber, Leshan Chengfa, Sany Heavy Industry and so on.

The company is now a secretariat unit for national technical committee for standardization of reducer. We are ever granted as "national first contract respecting and credit-keeping enterprise", "national key high-tech enterprise", "national high quality and efficiency unit in machinery industry", "quality management award of national machinery industry", "national custom satisfied service", "excellent enterprise of quality management team activity of national machinery industry" and so on. We are certified as the good enterprise with better standardization with national AAAA certification and the first grade safety quality standardized machinery manufacturing enterprise and have passed such certifications as GB/T 19022-2003 perfect measurement test system, ISO 9001-2008 quality system, ISO 14001-2004 environment system, and OHSAS 18001-1999 occupational health and safety. Our products are certified with safety marks for mining products and recognized pass lifting industry type test. Tailong brand is recognized as the Chinese famous brand by national industrial and commercial bureau and Tailong reducer is awarded as the Chinese famous brand product.

Tailong people will keep to its persistent quality guarantee, service guarantee and credit, satisfying customer as our topmost pursuit.

目 录

Catalogue

摆线针轮减速机

Cycloid Pin Wheel Decelerators

一、摆线针轮减速机的特点

Charactreistic Of Cycloid Pin Wheel Decelerators

摆线针轮减速机是参照JB/T2982-94采用摆线针齿啮合的、少齿差行星传动原理设计而成的一种新型传动机械，已广泛地应用到石油化工、建筑、冶金矿山、起重运输、纺织印染、工程机械、食品工业、电子电视等各个领域，深受用户的信赖和一致好评。摆线针轮减速机有如下特点：

The cycloid pin wheel decelerator is a up-dated transmissing machine designed with the cycloid pin wheel clenching and less teeth engagement mechanism. The products have been widely used in Oil and chemical industry, building, mining and metallurgy, cranes, textile, dying, mechanics, foodstuff and electrical industry, and are well acceped by the customers. The characteristics are as following:

1. 传动比大：单级传动比为9-87，双级传动比99-7569，多级串联时传动比可以更大；
2. 传动效率高：单级传动效率均在90%以上；
3. 结构紧凑：体积小，重量轻、高速轴和低速轴在同一轴线上，装拆方便；
4. 运转平稳噪音低，能承受过载和冲击；
5. 使用可靠，寿命长。

1. Large transmission ratio,for single transmission ratio range is 9-87, and for double 99-7569;
2. High transmission efficiency. The single transmissing efficiency is over 90%;
3. Structure well-knitted, small volume, light weight, and high speed axle and low speed axle remain in the same axle, which makes it convenient for installing and disassembling;
4. Low noise when operating, overloading and heavy breaking sustainment;
5. Long service life.

二、摆线针轮减速机的型号、规格 Type and spec of cycloid pin wheel decelerators

1. 型式 Type

<1>、B系列摆线针轮减速机

B series cycloid pin wheel decelerators

BW 脚板式卧装双轴型摆线针轮减速机
Baseboard horizontal installed double axes type cycloid pin wheel decelerator

BL 法兰式立装双轴型摆线针轮减速机
Flange vertical installed double axes type cycloid pin wheel decelerator

BWY 脚板式卧装电动机直联型摆线针轮减速机
Baseboard horizontal installed motor direct-connection type cycloid pin wheel decelerator

BLY 法兰式立装电动机直联型摆线针轮减速机
Flange vertical installed motor direct-connection type cycloid pin wheel decelerator

<2>、X系列摆线针轮减速机

X series cycloid pin wheel decelerators

XW 脚板式卧装双轴型摆线针轮减速机

XL 法兰式立装双轴型摆线针轮减速机

XWD 脚板式卧装电动机直联型摆线针轮减速机

XLD 法兰式立装电动机直联型摆线针轮减速机

TAILONG MACHINERY

2. 减速机型号、规格 Type and spec of decelerator

单级 single stage	B系列 B series	12		15		18		22		27				33		39		45		55		65	
	X系列 X series	2		3		4		5		6		7		8		9		10		11		12	
双级 double stage	B系列 B series	1512	1812	1815	2215	2218	2715	2718	3318	3322	3922	3927	4527	5527	5533	6533							
	X系列 X series	00	42		53		63	74	84	85	95		106	117		128							
三级 three stage	B系列 B series	181512		271812		331812		332215		392215		452715		552718		653322							
	X系列 X series	420		742		842		853		953		1063		1174		1285							

输入功率(KW)
input power

单级功率范围 Confine of single stage power			4P:0.18KW~18.5KW 6P:0.75KW~75KW							双级功率范围 Confine of double stage power			4P:0.18KW~15KW									
4P	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5								
6P	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75						

注：表中输入功率为电动机功率
Note: Input power in list is power of motor

可供传动比
Supplied transmission ratio

单级传动比 Transmission ratio of single stage

9	11	17	21	23	25	29	35	43	47	59	71	87

常用双级传动比 Usual transmission ratio of double stage

99	121	187	289	319	385	473	493	595	649	731	841	1003	1225	1505	1849	2065	2537	3045	3481	5133
(11x9)	(11x11)	(17x11)	(17x17)	(29x11)	(35x11)	(43x11)	(29x17)	(35x17)	(59x11)	(43x17)	(29x29)	(59x17)	(35x35)	(43x35)	(43x43)	(59x35)	(59x43)	(87x35)	(59x59)	(87x59)

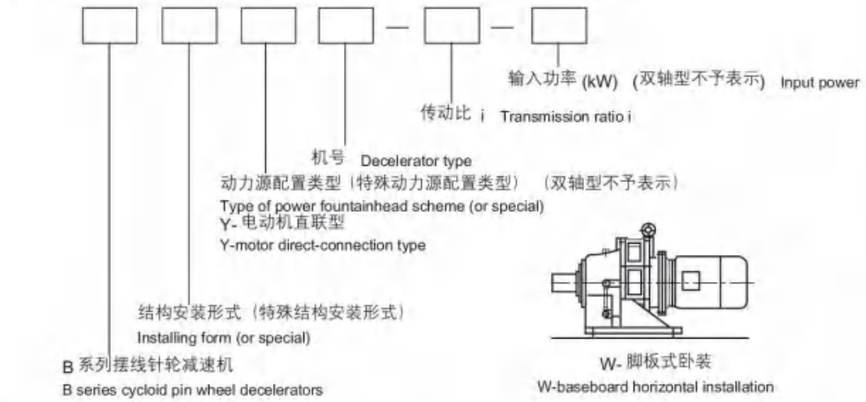
备用双级传动比 Transmission ratio of double stage

153 (17x9)	207 (23x9)	253 (23x11)	391 (23x17)	531 (59x9)	595 (35x17)	667 (29x23)	805 (35x23)	957 (87x11)	989 (43x23)	1207 (71x17)	1247 (43x29)	1357 (59x23)	
1479 (87x17)	1633 (71x23)	1711 (59x29)	2001 (87x23)	2059 (71x29)	2485 (71x35)	2523 (87x29)	3741 (87x43)	4189 (71x59)	5041 (71x71)	6177 (87x71)	7569 (87x87)		

注：在双级减速机中各级传动比的组合，一高速端为传动比小的一端，低速端为传动比大的一端。
双级减速机传动比＝低速级传动比x高速级传动比。

Note: Compounding of every stage transmission ratio of double stage decelerator is to select the smaller ratio for high-speed edge and larger ratio for low-speed edge.
Transmission ratio of double stage decelerator = ratio of low-speed stage X high-speed stage.

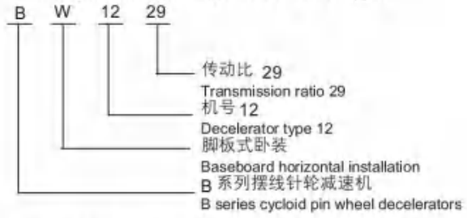
3、B 系列型号表示方法 Procedure of earmark for B series



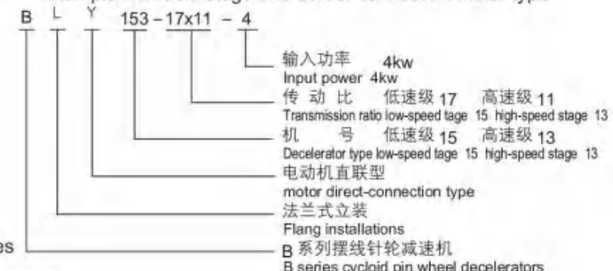
W- 脚板式卧装
W-baseboard horizontal installation

L－法兰式立装
L-Flange vertial installation

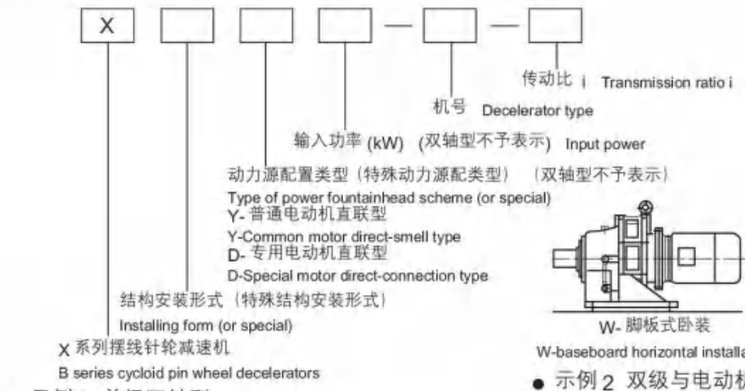
● 示例 1 单级双轴型
Example 1 Single stage double axes type



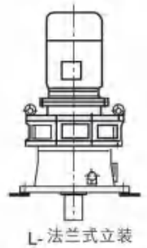
● 示例 2 双级与电动机直联型
Example 2 Double stage and derect-connection motor type



X 系列型号表示方法 Proecdure of earmark for X series

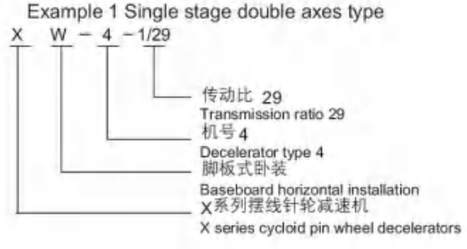


W- 脚板式卧装
W-baseboard horizontal installation

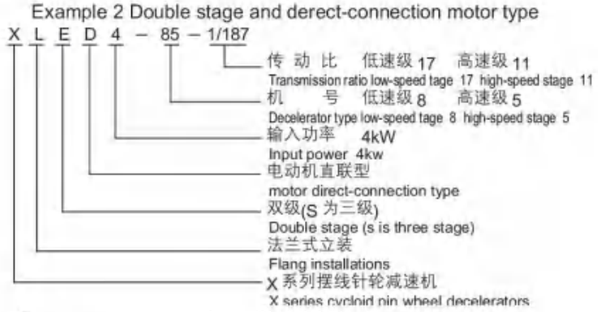


L- 法兰式立装
L-Flange vertial installation

● 示例 1 单级双轴型
Example 1 Single stage double axes type



● 示例 2 双级与电动机直联型
Example 2 Double stage and derect-connection motor type



特殊动力源类型 Type of special power fountainhead

B	防爆电动机 Anti-explosive motor	T	调速电动机 Timing motor	M	油马达 Oil motor
Z	专用直流电动机 Special direct current motor	P	平面制动电动机 Plane brake motor	N	内锥式制动电动机 Inside wimble brake motor
S	低噪声电动机 Low noise motor	除此之外，还有变频电动机，船用电动机等，请向技术部门咨询。 Else, frequency conversion motor, ship used motor should be contact our technical department please.			

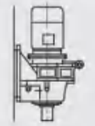
特殊结构安装形式 Special installing form

C －脚板式左侧装 C - Left baseboard installation

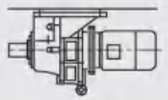
U －脚板式右侧装 U - Right baseboard installation

S －脚板式出轴向上侧装 S - Up shaft baseboard installation

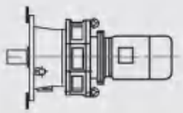
X －脚板式出轴向下侧装 X - Down shaft baseboard installation



Y －脚板式仰装 Y - Backstroke baseboard installation



P －法兰式水平装 P - Level flange installation



D －法兰式倒立装 D - Down fallen flange installation

注：用户如无原则配置特殊动力源或采用特殊结构安装形式，请与我厂技术部门联系，并在合同中加以说明。
Note: Please show special installing form in the order then contract out technical department if it's needed.

4、标准技术规格及使用条件 Standard spec and using condition

电动机 Motor	功率范围 Power scope	4P: 0.18~18.5kW 6P:0.75~90kW	环境条件 Environmental condition	使用地点要求 Request of address	室内 Indoor
	电源 Electrical source	380V 50Hz		环境温度 Ambient temperature	-10℃~40℃
	绝缘 Insulation	B 级		环境湿度 Ambient humidity	85% 以下 Down 85%
	安装结构形式 Installing form	卧式 Horizonal: ＜225 B5 ＞250 B35 立式 Vertial: V_1		周围气体 Ambient gas	通风，远离腐蚀气体、易爆气体、蒸汽及尘埃。 Aeration, far away from caustic gas, explosive gas, smoke or mote
	工作方法 Working way	连续 Continuous S_1		海拔 Altitude	1000 米以下 Below 1000 meter
	接法 Connect method	≤3kW Y 接法 ＞4kW △接法		与驱动设备联接方法 Method of connect with driving equipment	联轴器、齿轮、链轮或皮带。 Coupling, gear, chain wheel or strap

(三)、单级摆线针轮减速机的传动比，输入功率和输出转矩表 (工况系数 k=1)

The Transmission Ratio, Input Power and Output Torque of Single stage cycloidal pin wheel decelerator. (service factors K=1)

机型号 type	12		15		18		22		27		33		39		45		55		65	
输入转速 (imput speed) r/min	1500												1000							
传动比 (transmission ratio)	输入功率 kw (imput power) / 输出扭矩 N.m (output torque)																			
9		40		123		222		387		617		1037	-		-		-		-	
11		50	2.2	151		272		521		756		1280		2258		4373		5344		-
13	0.75	59		175	4	321	7.5	614		892		1510	22	2664	45	5160		6305		-
15		67		141		372		712		1034	18.5	1751		3088		5624		7266		-
17		76		160		420		805	11	1168		1978		3490		6356		8211		-
21		68	1.5	199		289		683		1450		2455		3635	37	7890	55	10849		14794
23	0.55	74		217	2.2	316	5.5	779		1580		2677	18.5	3962		8600		11825	75	16125
25		81		236		343		810		1720		2890		4311		9357		12866		17544
29		94	1.1	199		398		893		1993	15	2737		4800	30	8133		14910		20322
35		74		240		330	4	866	7.5	1658		3303	15	4907	22	7185	45	13536		24539
43	0.37	91		190	1.5	380		811		1458		2955		4413		7408		13674		22108
47		99	0.75	202		405	3	884	5.5	1589	11	3221	11	4802	18.5	8075	37	14904	55	24098
59	0.25	87	0.55	186	1.1	380	2.2	811	4	1459		2536		4109		9381	30	16546	37	22061
71	-		0.37	151	0.75	357		610	3	1340	7.5	3050	7.5	4577	15	9178	18.5	12233	22	14576
87	-		-		0.55	281	1.5	748	2.2	1196	5.5	2742	5.5	4133	11	8133	15	12199	18.5	14990

双级双轴型摆线针轮减速机的传动比，输入功率和输出扭矩表 (工况系数 k=1)

The Transmission Ratio, Input Power and Output Torque of Double stage cycloidal pin wheel decelerator. (service factors K=1)

型号 type	1512	1812	1815	2215	2218	2715	2718	3318	3322	3922	3927	4527	5527	5533	6533
输入转速 input speed	1500r/min														
传动比 tramsmission ratio	输入功率 (kw) imput power														
99(11x9)	0.3	1.2	1.44	2.03	2.4	3.28	4.26	6	7.93	12.11	12.56				
121(11x11)	0.23	1.04	1.18	1.66	1.7	3.18	4	5.5	6.65	10.26	10.46				
187(17x11)	0.15	0.67	0.76	1.08	1.1	2.06	2.77	4	4.30	6.64	6.74	10.28	13.6	15.9	
289(17x17)	0.10	0.43	0.49	0.70	0.75	1.33	1.79	2.5	2.86	4.30	4.91	6.65	13.31	14.12	
319(29x11)	0.08	0.36	0.42	0.60	0.65	1.12	1.5	2.2	2.90	4.02	4.97	5.96	11.98	13.2	15
391(23x17)	0.07	0.32	0.37	0.51	0.52	0.98	1.32	1.6	1.70	3.17	3.18	4.92	9.84	11.5	13.41
473(43x11)	0.06	0.27	0.30	0.43	0.45	0.81	1.09	1.3	1.35	2.62	2.93	4.07	8.13	9.65	11.09
493(29X17)	0.05	0.24	0.27	0.38	0.4	0.74	0.92	1.03	1.21	2.41	2.61	3.72	7.26	8.50	9.62
595(35x17)	0.04	0.21	0.24	0.34	0.35	0.65	0.87	1	1.11	2.09	2.15	3.23	6.46	7.42	8.81
649(59X11)	0.03	0.16	0.21	0.30	0.32	0.58	0.8	0.95	1.02	1.96	2.01	2.98	6.02	6.98	8.01
731(43x17)			0.19	0.28	0.3	0.53	0.71	0.85	0.96	1.70	2.02	2.63	5.26	6.18	7.17
841(29x29)			0.17	0.24	0.26	0.46	0.62	0.78	0.83	1.48	1.58	2.29	4.57	5.4	6.24
1003(59x17)			0.14	0.21	0.23	0.40	0.52	0.65	0.66	1.28	1.43	1.99	3.97	4.68	5.41
1225(35x35)			0.12	0.16	0.18	0.31	0.42	0.6	0.66	1.01	1.11	1.57	3.14	3.62	4.28
1479(87x17)			0.1	0.14	0.16	0.28	0.36	0.52	0.60	0.9	1.01	1.42	2.84	3.29	3.88
1505(43x35)			0.09	0.13	0.15	0.26	0.3	0.45	0.53	0.82	0.92	1.28	2.56	2.96	3.48
1849(43x43)			0.08	0.11	0.13	0.21	0.25	0.4	0.43	0.67	0.76	1.04	2.08	2.4	2.84
2065(59x35)			0.07	0.10	0.12	0.19	0.2	0.38	0.40	0.62	0.71	0.96	1.93	2.22	2.63
2537(59x43)			0.06	0.08	0.1	0.16	0.18	0.3	0.33	0.51	0.56	0.78	1.57	1.81	2.14
3045(87x35)				0.07	0.09	0.14	0.16	0.26	0.29	0.47	0.5	0.69	1.4	1.6	1.84
3481(59x59)				0.06	0.08	0.12	0.15	0.22	0.25	0.39	0.41	0.60	1.20	1.38	1.64
4189(71x59)				0.05	0.07	0.10	0.12	0.18	0.21	0.32	0.36	0.50	1.0	1.2	1.36
5133(87x59)						0.08	0.1	0.15	0.17	0.26	0.30	0.41	0.81	0.93	1.11
7569(87x87)								0.1	0.12	0.18	0.20	0.28	0.55	0.64	0.75
输出扭矩 N.M (output torque)	245	540	540	1150	1150	2200	2200	4600	4600	7500	7500	11000	22000	22000	30000

TAILONG MACHINERY

双级摆线针轮减速机电机直联型的传动比、输入功率、输出轴许用扭矩、输出转速表

The transmission ratio,input power,allowed torque of output shaft,output speed list of double stage cycloidal pin wheel decelerator with motor direc-connection type.

型号 Type		[illegible]		[illegible]		1815		2215		2216		2715		2716		[illegible]		3322		3922		3927		4527		5527		6533		8533	
输入转速 Input speed		1500r/min																													
传动比 Transmission ratio	输出转速 Output speed	输入功率 KW/输出扭矩 N.m Input power/Output Torque																													
99(11x9)	15.2	0.37	245	0.75	540	1.5	540	2.2	756	2.2	756	3	1513	4	1513	4	2017	5.5	2773	7.5	3781	11	4910								
121(11x11)	12.4	0.25	245	0.75	540	1.1	540	2.2	924	2.2	924	3	1649	4	1849	4	2465	5.5	3289	7.5	4620	11	6000	11	6999	15	9476	15	10353		
187(17x11)	8.0	-	-	0.55	520	0.75	540	1.1	1150	1.1	1150	2.2	2200	3	2200	4	4600	5.5	4600	7.5	7500	7.5	7500	11	11000	11	14644	15	16000		
289(17x17)	5.2	-	-	0.37	540	0.55	540	0.75	1150	0.75	1150	1.5	2200	2.2	2200	3	4600	4	4600	5.5	7500	5.5	7500	7.5	11000	11	17200	15	22000		
319(29x11)	4.7	-	-	0.37	540	0.37	540	0.75	1150	0.75	1150	1.1	2200	1.5	2200	2.2	4600	3	4600	4	7500	5.5	7500	7.5	11000	11	22000	11	22000	15	30000
391(23x17)	3.8	-	-	0.37	500	0.37	540	0.75	1150	0.75	1150	1.1	2200	1.5	2200	1.5	4600	3	4600	4	7500	4	7500	7.5	11000	7.5	22000	11	22000	15	30000
473(43x11)	3.2	-	-	0.25	540	0.25	540	0.55	1150	0.55	1150	1.1	2200	1.1	2200	1.5	4600	2.2	4600	4	7500	4	7500	4	11000	7.5	22000	11	22000	11	30000
493(29x17)	3.0	-	-	0.25	540	0.25	540	0.37	1150	0.55	1150	0.75	2200	1.1	2200	1.1	4600	2.2	4600	4	7500	4	7500	4	11000	7.5	22000	7.5	22000	11	30000
595(35x17)	2.5	-	-	0.25	540	0.25	540	-	-	-	-	0.75	2200	0.75	2200	1.1	4600	2.2	4600	3	7500	3	7500	4	11000	7.5	22000	7.5	22000	11	30000
649(59x11)	2.3	-	-	-	-	-	-	-	-	-	-	0.55	2200	0.75	2200	1.1	4600	1.5	4600	2.2	7500	2.2	7500	3	11000	7.5	22000	7.5	22000	11	30000
731(43x17)	2.0	-	-	-	-	-	-	-	-	-	-	0.55	2200	0.55	2200	1.1	4600	1.5	4600	2.2	7500	2.2	7500	3	11000	4	22000	5.5	22000	7.5	30000
841(29x29)	1.8	-	-	-	-	-	-	-	-	-	-	0.55	2200	0.55	2200	0.75	4600	1.5	4600	1.5	7500	2.2	7500	2.2	11000	4	22000	5.5	22000	7.5	30000
1003(59x17)	1.5	-	-	-	-	-	-	-	-	-	-	0.55	2200	0.55	2200	0.75	4600	1.1	4600	1.5	7500	1.5	7500	2.2	11000	3	22000	4	22000	5.5	30000
1225(35x35)	1.2	-	-	-	-	-	-	-	-	-	-	0.37	2200	0.55	2200	0.75	4600	0.75	4600	1.1	7500	1.1	7500	2.2	11000	3	22000	4	22000	4	30000
1479(87x17)	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	4600	0.75	4600	1.1	7500	1.1	7500	1.5	11000	3	22000	3	22000	4	30000
1505(43x35)	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	4600	0.55	4600	1.1	7500	1.1	7500	1.5	11000	2.2	22000	3	22000	4	30000
1849(43x43)	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2065(59x35)	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2537(59x43)	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3045(87x35)	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3481(59x59)	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4189(71x59)	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5133(87x59)	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7569(87x87)	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

注．1)在严格限制许可扭矩下"—"处输入功率可以采用表中该机号下的最小额定输入功率，输出轴许用扭矩为该机号下最小额定许用扭矩。
2)选用电机直联型减速机时，实际配置的电机功率应符合许配功率范围，如果配置的电机功率大于许用输入功率时，本减速机只允许按规定的许用扭矩下使用。

Note: 1)Under strict limit permission torque which marked with "-",the input power may use the min rated input power of model,and the permission torque is min. rated too.
2)When select motor direct linking reducer,the fitted motor's power in fact should fit for the power range,if bigger than the rated, the decelerator is only allowed to use under permiting torque.

三级摆线针轮减速机的传动比，输出轴许用扭矩，输出轴许用径向力表

The transmission ratio, allowed torque, allowed radial porce of low-speed shaft list of three stage cycloidal pin wheel decelerator

机型号 Type	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
低速轴许用径向力(Kg) Allowed radial force of low-speed shaft	1000	1500	4000	4000	6000	7000	10000	14000
低速轴许用传矩(N.m) Allowed torque of low-speed shaft	490	2648	4413	4413	8825	11767	19612	29418

传 动 比 transmission ratio

9x11x59=5841	11x29x43=13717	17x35x43=25585	23x43x47=46483	23x47x87=94047
9x23x29=6003	17x29x29=14297	25x25x43=26875	17x47x59=47141	43x47x47=94987
9x25x29=6525	23x25x25=14375	23x25x47=27025	23x29x71=47357	23x59x71=96347
11x17x35=6545	9x23x71=14697	11x35x71=27335	23x35x59=47495	29x47x71=96773
9x17x43=6579	9x35x47=14805	9x35x87=27405	29x35x47=47705	35x47x59=97055
9x21x35=6615	17x25x35=14875	9x43x71=27477	29x29x59=49619	29x59x59=100949
17x17x23=6647	11x23x59=14927	11x29x87=27753	23x25x87=50025	25x47x87=102225
11x21x29=6699	11x29x47=14993	17x23x71=27761	25x43x47=50525	47x47x47=103823
11x25x25=6875	23x23x29=15341	11x43x59=27907	23x47x47=50807	25x59x71=104725
9x11x71=7029	17x21x43=15351	17x35x47=27965	25x29x71=51475	17x71x87=105009
9x9x87=7047	9x29x59=15399	23x35x35=28175	25x35x59=51625	35x35x87=106575
11x11x59=7139	25x25x25=15625	21x23x59=28497	17x35x87=51765	35x43x71=106855
9x17x47=7191	9x25x71=15975	21x29x47=28623	17x43x71=51901	29x43x87=108489
17x17x25=7225	11x25x59=16225	23x29x43=28681	35x35x43=52675	43x43x59=109091
9x23x35=7245	11x17x87=16269	17x29x59=29087	21x29x87=52983	23x71x71=115943
11x23x29=7337	11x21x71=16401	25x25x47=29375	21x43x59=53277	35x47x71=116795
9x29x29=7569	9x21x87=16443	29x29x35=29435	29x43x43=53621	23x59x87=118059
9x25x35=7875	11x35x43=16555	9x47x71=30033	25x25x87=54375	29x47x87=118581
11x25x29=7975	9x43x43=16641	17x25x71=30175	25x47x47=55225	43x47x59=119239
11x17x43=8041	23x25x29=16675	11x47x59=30503	11x71x71=55451	29x59x71=121401
11x21x35=8085	17x21x47=16779	25x35x35=30625	9x71x87=55593	35x59x59=121835
9x21x43=8127	17x23x43=16813	17x21x87=31059	11x59x87=56463	25x71x71=126025
17x21x23=8211	17x17x59=17051	25x29x43=31175	17x47x71=56729	25x59x87=128325
17x17x29=8381	17x29x35=17255	23x23x59=31211	23x35x71=57155	17x87x87=128673
11x11x71=8591	11x23x71=17963	9x59x59=31329	35x35x47=57575	47x47x59=130331
9x11x87=8613	9x23x87=18009	23x29x47=31349	23x29x87=58029	35x43x87=130935
11x17x47=8789	11x35x47=18095	17x43x43=31433	21x47x59=58233	43x43x71=131279
11x23x35=8855	25x25x29=18125	21x35x43=31605	23x43x59=58351	23x71x87=142071
9x21x47=8883	9x43x47=18189	11x35x87=33495	29x43x47=58609	35x47x87=143115
9x23x43=8901	17x25x43=18275	11x43x71=33583	17x59x59=59177	43x47x71=143491
17x23x23=8993	17x23x47=18377	9x43x87=33669	29x29x71=59711	29x71x71=146189
9x17x59=9027	23x23x35=18515	23x25x59=33925	29x35x59=59885	35x59x71=146615
9x29x35=9135	9x29x71=18531	17x23x87=34017	25x35x71=62125	29x59x87=148857
11x29x29=9251	9x35x59=18585	25x29x47=34075	25x29x87=63075	43x59x59=149683
11x25x35=9625	11x29x59=18821	17x43x47=34357	25x43x59=63425	25x71x87=154425
9x25x43=9675	23x29x29=19343	23x35x43=34615	17x43x87=63597	47x47x71=156839
9x23x47=9729	11x25x71=19525	17x29x71=35003	23x47x59=53779	43x43x87=160863
17x23x25=9775	9x25x87=19575	17x35x59=35105	29x47x47=64061	47x59x59=163607
11x21x43=9933	9x47x47=19881	29x35x35=35525	35x43x43=63715	23x87x87=174087
17x17x35=10115	17x25x47=19975	21x29x59=35931	11x71x87=67947	43x47x87=175827
17x21x29=10353	11x21x87=20097	29x29x43=36163	9x87x87=68121	43x47x87=175827
11x11x87=10527	23x25x35=20125	11x47x71=36707	25x47x59=69325	35x71x71=176435
9x25x47=10575	11x43x43=20339	9x47x87=36801	17x47x87=69513	29x71x87=179133
17x25x25=10625	17x17x71=20519	25x25x59=36875	23x35x87=70035	35x59x87=179655
11x21x47=10857	21x23x43=20769	17x25x87=36975	23x43x71=70735	43x59x71=180127
9x17x71=10863	17x35x35=20825	17x47x47=37553	35x43x47=70735	25x87x87=189225
11x23x43=10879	25x29x29=21025	23x23x71=37559	17x59x71=71213	47x47x87=192183
9x35x35=11025	17x21x59=21063	25x35x43=37625	29x35x71=72065	47x59x71=196883
11x17x59=11033	17x29x43=21199	9x59x71=37701	35x35x59=72275	59x59x59=205379
9x21x59=11151	25x25x35=21875	23x35x47=37835	21x59x59=73101	35x71x87=216195
11x29x35=11165	11x23x87=22011	11x59x59=38291	29x29x87=73167	43x71x71=216763
9x29x43=11223	11x43x47=22231	21x43x43=38829	29x43x59=73573	29x87x87=219501
17x23x29=11339	9x35x71=22365	23x29x59=39353	25x35x87=76125	43x59x87=220719
11x25x43=11825	11x29x71=22649	29x29x47=39527	25x43x71=76325	47x71x71=236927
11x23x47=11891	21x23x47=22701	23x25x71=40825	23x47x71=76751	47x59x87=241251
23x23x23=12167	9x29x87=22707	25x35x47=41125	35x47x47=77315	59x59x71=247151
9x23x59=12213	11x35x59=22715	11x43x87=41151	43x43x43=79507	35x87x87=264915
9x29x47=12267	23x23x43=22747	17x35x71=42245	23x59x59=80063	43x71x87=265611
17x25x29=12325	9x43x59=22833	23x43x43=42527	29x47x59=80417	47x71x87=290319
17x17x43=12427	17x23x59=23069	25x29x59=42775	11x87x87=83259	59x71x71=297419
17x21x35=12495	17x29x47=23171	35x35x35=42875	25x47x71=83425	59x59x87=302847
11x25x47=12925	23x29x35=23345	17x29x87=42891	17x71x71=85697	43x87x87=325467
23x23x25=13225	11x25x87=23925	17x43x59=43129	23x43x87=86043	47x87x87=355743
9x25x59=13275	11x47x47=24299	21x35x59=43365	43x43x47=86903	71x71x71=357911
11x17x71=13277	29x29x29=24389	29x35x43=43645	35x35x71=86975	59x71x87=36443
9x17x87=13311	23x25x43=24725	25x25x71=44375	25x59x59=87025	71x71x87=438567
9x21x71=13419	23x23x47=24863	11x47x87=44979	17x59x87=87261	59x87x87=446571
11x35x35=13475	9x47x59=24957	9x71x71=45369	29x35x87=88305	71x87x87=537399
9x35x43=13545	17x25x59=25075	23x23x87=46023	29x43x71=88537	87x87x87=658503
17x17x47=13583	17x17x87=25143	11x59x71=46079	35x43x59=88795	
11x21x59=13629	17x21x71=25347	9x59x87=46197	25x43x87=93525	
17x23x35=13685	25x29x35=25375	25x43x43=46225		

注：表中列出的传动比由单级标准机型中的各传动比组合而成，凡单级标准机型中具有均可任意组合，组合原则高速端为传动比小的一端，低速端为传动比大的一端。

Note: The above transmission ratio is made up by separate single-stage standard reducers.
The selection principle is as follows, to select the smaller value for high-speed edge and larger value for low-speed edge.

(四)、摆线针轮减速机选用说明 The Instruction Sheet of Cycloid Pin Wheel Reducer

本系列摆线针轮减速机是在每日八小时单向连续运转，载荷平稳的条件下设计的，当减速机实际工作时间和载荷性质与上述设计条件不符时，应以工作情况系数 K_A 进行修正，K_A 按下表确定。

This series cycloid pin wheel reducer is designed in these conditions which daily service 8 hrs, one way continuous operation and uniform load. We should adjust it according to the working coefficient Ka when the actual hours is not agree with load character.

工作情况系数 KA 表 Table for Working Coefficient KA

原动机种类 Prime mover / 工作条件 Working conditions	I 稳 定 Uniform load	II 中等冲击 Medinm shock load	III 大的冲击 Heavy shock load
电动机 Motors 断续3小时/日 Continuous workimg 3hrs/24hrs	0.8	1.0	1.35
电动机 Motors 8-10 小时/日 8-10hrs/24hrs	1.0	1.2	1.5
电动机 Motors 24 小时/日 24hrs/24hrs	1.2	1.35	1.6

注：(1)最大瞬时载荷或起动载荷不超过额定载荷的 160%。
(2)原动机为多缸发动机时，数据表中的工作条件与载荷性质，可选取 K=1.0-1.7。
(3)原动机为单缸发动机时，数据表中的工作条件与载荷性质可选取 K=1.2-1.8。

Note: (1) The max instantaneous load or the start load shouldn't exceed the rated load.
(2) The working condition and the load character of the data sheet could select K=1.0-1.7 when the prime mover is multicyinder engine.
(3) The working condition and the load character of the data sheet could select K=1.2-1.8 when the prime mover is one-cylinder motor.

减速机用途和载荷性质分类参考表 The Application and The Load Character Sorted Reference Table

用途 Application	Assort of load	用途 Application	Assort of load
搅拌器 Mixers 纯液体 Pure liquid naterial	I	薄膜 Membrane	
搅拌器 Mixers 液体和固体 Semiliquid material	II	塑料挤出机 Plastic extruders 棒材 Bar material	I
搅拌器 Mixers 液体(密度可变) Liquid		管材 Tubing	
鼓风机 Blowers 离心式 Centrifugal type	I	吹塑机 Soft plastical	II
鼓风机 Blowers 叶片式 Leaf type		卷扬机(绞车) Hoists 重型的 Heavy-duty	III
鼓风机 Blowers 叶轮式 Impeller type	II	卷扬机(绞车) Hoists 中型的 Light-duty	II
压气机 压缩机 Compressors 离心式 Centrifugal type	I	辊道 Rolling bearing	
压气机 压缩机 Compressors 叶轮式 Impeller type	II	破碎机(矿石) Crushing machine(ore)	III
压气机 压缩机 Compressors 往复式 Reciprocator type		锤式粉碎机 Hammer crusher	
压气机 压缩机 Compressors 往复式 Reciprocator type	III	混凝土搅拌机 Concrete mixer truck	
运输机 (载荷稳定) Conveyers Uniformly loade 板式 Apron type	I	石蜡滤机 石油工业 Paraffin filter press Oil industry	II
运输机 (载荷稳定) Conveyers Uniformly loade 皮带式 Belt type		结晶品，冷冻器 Crystal Rafrigerator	
运输机 (载荷稳定) Conveyers Uniformly loade 门式 Bucket type		*破胶机 Rubber breaker	III
运输机 (载荷稳定) Conveyers Uniformly loade 链式 Chain type(双缸)		橡胶与塑料工业 Rubber and plastic industry *混炼机 Muller	
运输机 (载荷稳定) Conveyers Uniformly loade 螺旋式 Screw type(单缸)		*精炼机 Refiner	
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 板式 Apron type	II	*橡胶压延机 Rubber calander	II
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 皮带式 Belt type		织布机 Looms	
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 门式 Bucket type		梳棉(毛麻)机 Mangle	
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 链式 Chain type(双缸)		纺织工业 Textile industry 轧布机 Spinner	II
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 往复式 Reciprocator type		纺纱机 Spinner	
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 螺旋式 Screw type		洗涤机 Washer	
运输机 (重载荷非均匀送料) Converyors (heavy load convey material with variable density) 振动式 Vibration type	III		

注 Note: (1) I -- 稳定载荷 Uniform load; II -- 中等载荷 Medium shock load; III -- 大的冲击载荷 Heavy shock load;
(2)*-- 按每日 24 小时工作选取。Only on the basis of 24hrs daily service.

TAILONG MACHINERY

摆线针轮减速机的选用分如下几种情况

Selecting the cycloid pin wheel decelerators accorting to the following conditions.

1. 减速机输入轴转速等于标准减速机额定转速时按下式选择：

When the input rotate speed of reducer is equaled to the rated rotate speed, we should select as following:

$P \times K_A/[] \leqslant P_{1p}$ 式中 Where P——负载功率 Load power KW
K_A——工况系数 Service factor
[]——减速机效率，单级一般取 []=0.9 - 0.95，双级一般取 []=0.85 - 0.9
Reducer efficiency, single-stage []=0.9 ~ 0.95, double-stage []=0.85 ~ 0.9.
P_{IP}——所选机型号的输入轴输入功率 KW
The input shaft power kW of selecting.

2. 按减速机输出轴转矩选择机型号时，一般稳定载荷及短期瞬时载荷不超过稳定载荷的 160%，应按下式选择。We should select the reducer according to the output shaft torque. When general stabile load and short term instantaneous load is less than 160%, We should select as following:

$T \leqslant T_p$ 式中 Where: T——负载工作转矩 Loading working torque N · m
T_p——所选机型号减速机的输出轴许用转矩
The allowed torque of selecting reducer N · m

当减速机短期瞬时载荷超过稳定载荷的 160% 时，应按尖峰载荷选择，应保证 $T_{max}/1.6 \leqslant T_p$ T_{max}——负载最大尖峰转矩 N · m When the short term instantaneous load is bigger than the stabile load 160%. Ensure meet Tmax/1.6 ≤ Tp, please select the peak load.
Tmax-- The peak load torque N · m

3. 减速机输入转速不等于承载能力表中的额定转速时，应先按 $T_c \leqslant T_p$ 选择机型号

When input rotate speed of reducer is not equal to the carrying capacity mom. Rotate speed, please select the code according to Tc ≤ Tp

$Tc=(\frac{n}{n_1})^{[]} T$ 式中 Where: Tc——计算工作转矩 Calculated the working torque N · m
n——输入实际转速 The input actual rotate speed r/min.
n_1——减速机输入轴额定转速 1500 或 1000
The input rated rotate speed 1500 or 1000.
[]——转臂轴承寿命指数，球轴承 []=3、滚子轴承 []=10/3
The crane life time index, ball bearing []=3, roller bearing []=10/3
T_p——减速机在额定转速时的输出轴许用转矩 N · m
The allowed torque of output shaft at the Reducer's rotated speed N · m
T——输出轴实际工作转矩 The actual torque of output shaft N · m

然后按下式验算 T ≤ Tmax Then checking it accord to this formula T ≤ Tmax
若满足上式则所选减速机合适，否则，应据上式选较大型号
The reducer is suitable if it meets the formula or elso you should select the major model.

4. 如果输入的转速是变化的（当用变速电动机或变速装置驱动时）应根据使用条件确定。若要求功率一定，则应按最低转速选择机型号。若要求转矩一定，则应按最高转速选择机型号（选型时注意工况系数和效率损失）。

We should select it according the usage conditions if the imput rotate speed is variable. (when variable speed motor or change gear is used). You could select the model according to the lowest rotate speed if fixed power is required. You could select the model according to the highest rotate speed if fixed torque is required. (Pay attention to the service and the efficiency loss).

(五)、摆线针轮减速机的使用及润滑需知

The usage and lubrication of cycloid pin wheel decelerators

（Ⅰ）使用 Usage

1、本减速机适用于24小时连续工作制，并允许正反向运转。

2、单级减速机的输出轴转向与输入轴转向方向相反，双级减速机输出轴转向与输入轴转向相同。

3、本减速机无自锁作用。如用于升降装置等危险场合时，应选用制动电机或在输入端加配制动装置。

4、本减速机的输出轴不能承受轴向力，如需承受较大的径向力或轴向力，请予垂询。

5、在可能出现过载现象的使用场合，应安装过载保护装置。

6、脚板式卧装摆线针轮减速机要安装在没有振动、十分牢固的水平基础上，在必须进行倾斜安装的使用场合，减速机轴心线的倾斜度不得大于15°

7、法兰式立装摆线针轮减速机在安装时，输出轴垂直向下。

8、如需要采用除脚板式卧装和法兰式立装以外的其他特殊安装形式，必须采取相应的润滑和密封措施来保证减速机润滑充足和防止漏油。请与我厂技术部门联系。

9、采用油脂润滑的摆线针轮减速机安装角度自由。

10、减速机安装时，可用垫块进行调整，垫块在高度方向不超过三块，也可用楔铁进行调整，但减速机校准后必须换入平垫块。

11、在冲击、振动较大或起动频繁的使用场合，机座与基础除用8.8级高强度底脚螺栓进行联接之外，还需用定位销（自备）进行加固。

12、标准型摆线针轮减速机的输入轴和输出轴的轴伸端形式为圆柱形，采用普通平键联接。轴径尺寸公差根据GB/T1801-2009《公差与配合》的规定。普通平键尺寸按GB/T1096-2003《普通平键型式尺寸》的规定。联接法兰止口按GB/T1801-2009的(h9)的配合。

13、当采用联轴器把摆线针轮减速机与相配套的机械联接时，推荐用弹性联轴器。

14、减速机与相配套机械用联轴器联接时，两者轴心线的同心度不得超过联轴器所允许的范围。

15、当摆线针轮减速机与齿轮、链轮相联接时，必须保证两者轴心线的平行度。

16、当使用链轮来进行传动时，不要把齿链放得过松，否则在起动时会产生冲击力，箱体材料建议改为球铁或铸钢以加强箱体强度。

17、**在把联轴器、齿轮、链轮等联接摆线针轮减速机的输出轴时，不得采用直接锤击的方法，应利用轴伸端螺孔旋入螺栓，通过压板压入或采用热套方式，并使其紧贴轴肩（紧固环端面）**

18、安装后的减速机，正式使用前必须进行试运转。在空载运转正常的情况下，再逐渐加载运转。

1. This series reducers suits to continue using for 24 hours and allowed to run in positive and negative directions.

2. The change directions of single-stage output shaft and input shaft is opposition. The turn of double-stage reducer's output shaft and input shaft is the same.

3. The reducers haven't locked by oneselves,if applied in man-trap as exaltation,should select brake motor or configure brake seft on input.

4. This series reducer's output shaft couldn't accept the axial force.If load biggish radial or axial force,please contact us.

5. Over loading protect unit should be setted in the case of over loading phenomena.

6. Baseboard horizontal installed cycloid pin wheel decelerators should be in the level basic which is without librate and very firm. The incidence of axes should be less than 15 degree when it is used in lean.

7. The end of output shaft extension of flange vertical cycloid pin wheel decelerator should be used in vertical down.

8. It must be take relevant measure to assure enough lubrication and preventing leak oil if other special installation form is needed except baseboard horizontal installation and flange vertical installation.

9. Installation degree of reducers lubricated with axunge is free.

10. It can be adjusted with cushion when reducers is installed. Not more than three cushion in height. It also can be adjusted with chock, but it must change level cushion from chock after reducers are adjusted.

11. We should use positioning dowel to reinforce except use foundation screw to connect machine base with foundation of there are high impact and high libration and frequent start-up.

12. Form of input shaft and output shaft extension of normal reducers is cylindrical, it is connected with common flat key. The tolerance of shaft diameter meets the requirement of GB/T1801-2009, diameter of common key meets the requirement of GB/T1096-2003, the tolerance of flange rabbet meets the requirement of h9 for GB/T1801-2009.

13. Stretch coupling is commended when the coupling is used to connect with reducers and relevant machines.

14. The axial lines must be concentric when the coupling is used to connect with working mechanism or motor. The installation error of decelerator should not exceed the allowable error of the coupling used.

15. It must assure level degree of they when reducers joint with gear, chain wheel.

16. Don't relax chain when driving with chain wheel otherwise, impact force will show in working. We suggest that economy material is changed into spheroidal graphite iron or cast steel to strengthen intension.

17. Direct hammering is prohibited when matching coupling, gear, chain wheel with reducers. It should be screw on screw from helix hole at shaft extension end, press with press board or assemble by hotup,make sure it get close to shaft shoulder (flangle of tighten ring)

18. After the installation of decelerator is finished the test run must be per formed before it is put into use formally. If free running is normal, the load can be added step by step.

（Ⅱ）润滑 Lubrication

1、摆线针轮减速机润滑方法。 Lubricating method of reducers

单级摆线针轮减速机润滑方法及贮油量 Lubricating method and oil reserve of single stage reducers

型号 Type / X系列 X series / 结构安装形式及贮油量 Installation form and oil reserve	12	15	18	22	27	33	39	45	55	65
	2	3	4	5	6	7	8	9	10	11	12
脚板式卧装 baseboard horizontal installation	油浴润滑 oil bath lubrication										
贮油量(L) oil reserve	0.4	0.5	0.7	1.4	1.7	2.2	4	7	14	30	56
法兰式立装 flange vertial installation	油浴润滑 oil bath lubrication					循环润滑 circulation lubrication					
贮油量 (L) oil reserve	0.8	0.9	1.1	1.5	1.9	2.0	3.7	10	15	29	60

油浴润滑或循环润滑双级摆线针轮减速机润滑方法及贮油量

Lubricating method and oil reserve of oil bath and circulation lubrication for double stage reducers

机号 Type / B系列 B series / X系列 X series / 结构安装形式及贮油量 Installation form and oil reserve	1612	1812	1815	2215	2218	2715	2718	3318	3322	3922	3927	4527	5527	6533
	00	42		53		63	74	84	85		95	106	117	128
脚板式仰装 baseboard horizontal installation	油浴润滑 oil bath lubrication													
贮油量(L) oil reserve	1.2	1.4		1.6	2	2.2	3.3	5.5	6	9	10	16	35	70
法兰式立装 flange vertial installation	油浴润滑 oil bath lubrication					循环润滑 circulation lubrication								
贮油量(L) oil reserve	1.2	1.4		1.5	1.8	1.9	2.2	4	4	10	10	15	20	60

法兰式立装摆线针轮减速机的润滑油泵见下表，如有特殊要求请与本厂的技术部门联系。

Lubricating oil pump of flange vertical cycloid pin wheel decelerators see the list. Please contact us if you have special request.

摆线针轮减速机 Cycloid pin wheel decelerator		润滑油泵 Lubricating oil pump			
B系列 B series	X系列 X series	型号 Type	电 动 机 Motor		
27~39	6~9	CB-08	40W	380V	50HZ
45	10		120W	380V	50HZ
55、65	11、12	CB-B10	550W	380V	50HZ

说明：防爆电动机直联型摆线针轮减速机采用带防爆电动机的润滑油泵。

Note: Lubricating oil pump with anti-explosive motor is used for anti-explosive motor direct-connection type cycloid pin wheel decelerators.

3、本减速机在使用前必须注入润滑油，出厂时的减速机为了便于装卸和运输，一般都不注入润滑油。

4、若采用油脂润滑的减速机在出厂前已注入润滑脂。

5、普通用途的摆线针轮减速机，在常温下推荐使用N150极压工业齿轮油。本机适用于环境温度-10℃～40℃。低于0℃时，选用N68润滑油，并预热；高于30℃，选用N220润滑油。

6、当摆线针轮减速机在工作条件恶劣、启动-停止频繁和高温或低温的场合中工作时，应与我厂技术部门联系。

7、当减速机采用油脂进行润滑时，推荐使用特种润滑-2、二硫化钼-2或ZL-2锂基润滑脂等油脂。

8、加注润滑油时，油位高度应在油标或示油器的居中位置。

9、润滑脂的注入量应为减速机内容积的1/3-1/2，油脂不宜加得过多，以避免产生搅拌热。

10、润滑油更换周期：

减速机应在初次运转300小时后须进行第一次更换润滑油，更换时，应去除残留污油。初次换油后，以后每天连续工作10小时以上的减速机，应每隔3个月更换一次润滑油，每天工作不超过10小时的减速机，应每隔6个月更换一次。

11、油脂更换周期：每隔6个月更换一次。

12、已经长期没有使用的减速机(一般在12个月以上)在重新使用前，必须更换润滑油或润滑脂。

13、加油时旋开减速机上部的通气帽即可加油，放油时旋开减速机下部的放油螺塞即可放出污油。

14、不允许注入不清洁或带腐蚀性的润滑油。

15、立式BL27和XL7以上均用循环润滑。采用循环润滑的法兰式立装减速机，在使用前先启动微电动机，视油泵是否供油，否则应将微电动机接线换相，因油泵是按指定方向运转的，油泵处于正常工作后应使油面高度保持在圆形油标中线位置。

3. The sufficient lubrication oil must be added before using. The machine isn't usual supplied with lubrication oil when leaving the factory for easy to load and unload or transport.

4. The machine that supplied with lubricating grease is already supplied with lubricating grease.

5. We commend N150 in normal temperature for normal using cycloid pin wheel decelerators. This machine suits ambient temperature -10℃ ~ 40℃. When low than 0℃, we should select N68 lubrication and warm-up. When exceed 30℃, we should select N220 lubrication.

6. Please contact us when the machine works in the condition that have dicky condition, frequent start-up, high or low temperature.

7. The recommended lubricating grease includes special grease-2, supramoly-2 and ZL-2 lithium grease when machine is supplied with lubricating grease.

8. Oil height should in the middle of oil seal when lubricating oil is added.

9. The lubricating grease storage infused should be 1/3 ~ 1/2 of inside the reducer cubage. The lubricating grease shouldn't infuse much, so that avoiding bringing mixxing temperature.

10. Periods of lubrication for replaced:

After running for 300 hours for the first time. Oil must be replaced with fresh oil and oily soil must be rinses away. After wards, oil must be replaced every 3 months for continuous working for over 10 hours, oil must be replaced every 6 months for working for less than 10 hours.

11. Periods of lubricating grease replaced is one time every 6 months.

12. Decelerator stopped for long time cover 12 months must be replace lubrication or lubricating grease before work again.

13. You could add up the oil after unscrewing the breather plug of machine, you could leave the duty oil after unscrewing the screw under the machine.

14. It shouldn't put duty or caustic lubrication oil.

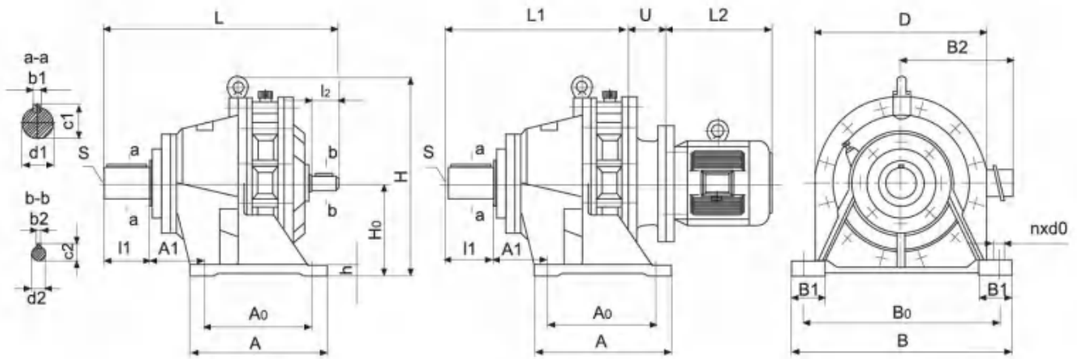
15. It has oil-pump to circulation lubrication above vertical BL27 and XL7. We should start the micro-motor of oil pump first and see if it is feeding oil before driving the flange vertical reducer or we should change the phase of micromotor because the oil pump is running in the specific direction. The oil level should be kept in the midline of round oil-mark when the oil pump is in normal operation conditions.

（六）、 摆线针轮减速机的外形及安装尺寸

The Contour and Installation Dimension of Cycloid Pin Wheel Reducer

BW(Y)单级摆线针轮减速机的外形及安装尺寸

Contour And Installment Size Of BW(Y) Single-stage Cycloidal Pin Wheel Reducer

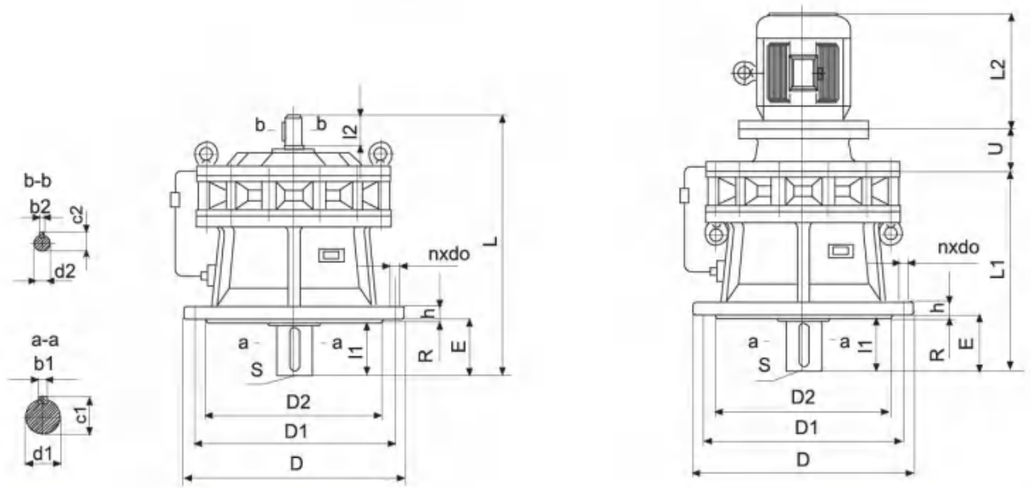


机型号 type	中心高 H_0 center height	安装尺寸 installation size							轴伸联接尺寸 size of coupling shaft end								外形尺寸 contour size								出轴中心孔 center hole diameter	双轴型重量 double shaft weight (kg)
		A_1	A_0	B_1	B_0	h	地脚螺栓 foundation screw		输出轴 output shaft				输入轴 input shaft				H	B	D	A	双轴型 double shaft type	直联型 direct coupling type					
							n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2					L	L_1	L_2	B_2	u	S	
12	0 100-0.5	63	90	28	150	15	4	M10	30	8	33	35	15	5	17	22	200	185	168	120	213	164	按电动机长 according to electric machine	见附表 P27～P28页 see att.		M8	15
15	0 120-0.5	80	110	55	240	20	4	M12	35	10	38	58	18	6	20.5	36	270	280	200	160	278	208				M8	30
18	0 150-0.5	95	145	60	290	22	4	M16	45	14	48.5	82	22	6	24.5	36	318	330	240	195	352	276				M10	45
22	0 160-0.5	113	150	75	370	25	4	M16	55	16	59	82	30	8	33	58	360	410	300	238	422	316				M10	95
27	0 200-0.5	35	275	80	380	30	4	M20	70	20	74.5	105	35	10	38	58	435	430	360	335	490	383				M12	150
33	0 250-0.5	35	380	85	480	35	4	M24	90	25	95	130	45	14	48.5	82	542	530	435	440	629	464				M16	250
39	0 290-0.5	45	480	90	560	40	4	M24	100	28	106	165	50	14	53.5	82	619	620	510	560	736	556				M20	400
45	0 325-0.5	80	500	105	630	45	4	M24	110	28	116	165	55	16	59	82	706	690	580	600	783	594				M24	570
55	0 420-0.5	122	330x2	140	800	50	6	M33	130	32	137	200	70	20	74.5	105	880	880	705	810	966	733				M30	1200
65	0 490-1	114	375x2	170	920	55	6	M36	160	40	169	240	80	22	85	130	1008	1030	820	900	1120	852				M36	2410

TAILONG MACHINERY

BL(Y)单级摆线针轮减速机的外形及安装尺寸

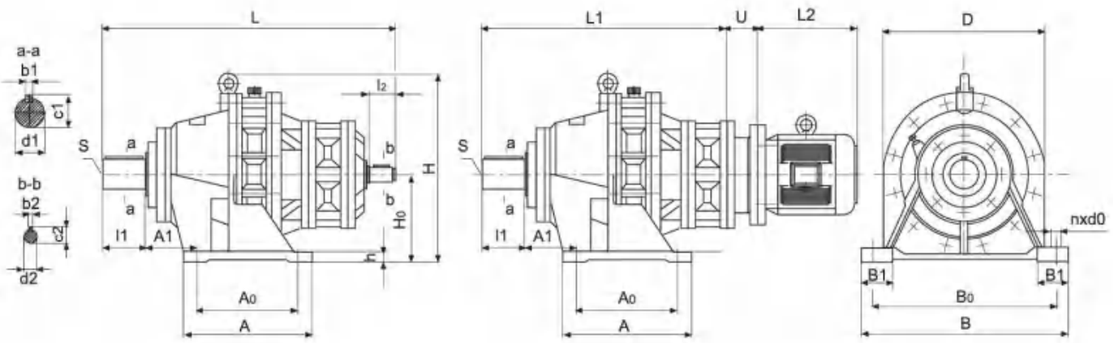
Contour And Installment Size Of BL(Y) Single-stage Cycloidal Pin Wheel Decelerators



机型号 type	安装尺寸 installation size							轴伸联接尺寸 size of coupling shaft end								外形尺寸 contour size								出轴中心孔 centre hole diameter	双轴型重量 double shaft weight (kg)
	D_1	D_2	E	h	R	安装螺钉 screw instaciment		输出轴 output shaft				输入轴 inport shaft				D	双轴型 double shaft type	直联型 direct coupling type							
						n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2		L	L_1	L_2	B_2	u	S	
12	160	140h9	39	11	4	4	M10	30	8	33	35	15	5	17	22	190	213	164	按电动机长 according to electric machine	见附表 P27～P28页 see att.		M8	14
15	200	170h9	69	16	4	6	M10	35	10	38	58	18	6	20.5	36	230	278	208				M8	28
18	230	200h9	89	20	4	6	M12	45	14	48.5	82	22	6	24.5	36	260	352	276				M10	40
22	310	270h9	89	22	4	6	M12	55	16	59	82	30	8	33	58	340	422	316				M10	95
27	360	316h9	114	26	5	8	M16	70	20	74.5	105	35	10	38	58	400	490	383				M12	140
33	450	400h9	140	30	6	12	M20	90	25	95	130	45	14	48.5	82	490	629	464				M16	240
39	520	455h9	177	35	8	12	M20	100	28	106	165	50	14	53.5	82	580	736	556				M20	380
45	590	520h9	180	40	10	12	M24	110	28	116	165	55	16	59	82	650	783	594				M24	570
55	800	680h9	215	45	10	12	M30	130	32	137	200	70	20	74.5	105	880	966	733				M30	1200
65	920	760h9	255	45	10	12	M30	160	40	169	240	80	22	85	130	1000	1121	852				M36	2410

BW(Y)双级摆线针轮减速机的外形及安装尺寸

Contour And Installment Size Of BW(Y) Double-stage Cycloidal Pin Wheel Reducer.

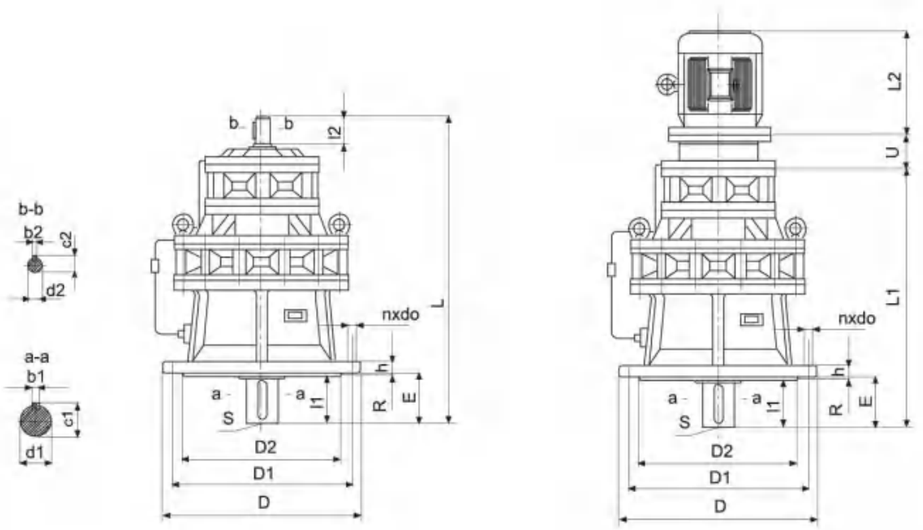


机型号 type	中心高 H_0 center height	安装尺寸 installation size							轴伸联接尺寸 size of coupling shaft end								外形尺寸 contour size								出轴中心孔 centre hole diameter	双轴型重量 double shaft weight (kg)
		A_1	A_0	B_1	B_0	h	地脚螺栓 foundation screw		输出轴 output shaft				输入轴 input shaft				H	B	D	A	双轴型 double shaft type	直联型 direct coupling type				
							n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2					L	L_1	L_2	B	u	S	
1512	0 120-0.5	80	110	55	240	20	4	M12	35	10	38	58	15	5	17	22	270	280	200	160	336	286			M8	40
1812	0 150-0.5	95	145	60	290	22	4	M16	45	14	48.5	82	15	5	17	22	318	330	240	195	414	364			M10	50
1815	0 150-0.5	95	145	60	290	22	4	M16	45	14	48.5	82	18	6	20.5	36	318	330	240	195	434	364			M10	60
2215	0 160-0.5	113	150	75	370	25	4	M16	55	16	59	82	18	6	20.5	36	360	410	300	238	473	407			M10	105
2218	0 160-0.5	113	150	75	370	25	4	M16	55	16	59	82	22	6	24.5	36	360	410	300	238	506	430			M10	138
2715	0 200-0.5	35	275	80	380	30	4	M20	70	20	74.5	105	18	6	20.5	36	435	430	360	335	540	474			M12	165
2718	0 200-0.5	35	275	80	380	30	4	M20	70	20	74.5	105	22	6	24.5	36	435	430	360	335	573	497			M12	180
3318	0 250-0.5	35	380	85	480	35	4	M24	90	25	95	130	22	6	24.5	36	542	530	435	440	658	582			M16	270
3322	0 250-0.5	35	380	85	480	35	4	M24	90	25	95	130	30	8	33	58	542	530	435	440	706	601			M16	290
3922	0 290-0.5	45	480	90	560	40	4	M24	100	28	106	165	30	8	33	58	619	620	510	560	796	691			M20	420
3927	0 290-0.5	45	480	90	560	40	4	M24	100	28	106	165	35	10	38	58	619	620	510	560	813	706			M20	520
4527	0 325-0.5	80	500	105	630	45	4	M24	110	28	116	165	35	10	38	58	706	690	580	600	856	749			M24	620
5527	0 420-1	122	330x2	140	800	50	6	M33	130	32	137	200	35	10	38	58	880	880	705	810	998	891			M30	1250
5533	0 420-1	122	330x2	140	800	50	6	M33	130	32	137	200	45	14	48.5	82	880	880	705	810	1079	914			M30	1400
6533	0 490-1	114	375x2	170	920	55	6	M36	160	40	169	240	45	14	48.5	82	1008	1030	820	900	1205	1040			M36	2510

按电动机长 according to electric machine 见附表 P27-P28 页 see tab.

BL(Y)双级摆线针轮减速机的外形及安装尺寸

Contour and Installment Size of BL(Y) Double-Cyclo Pin Wheel Decelerators

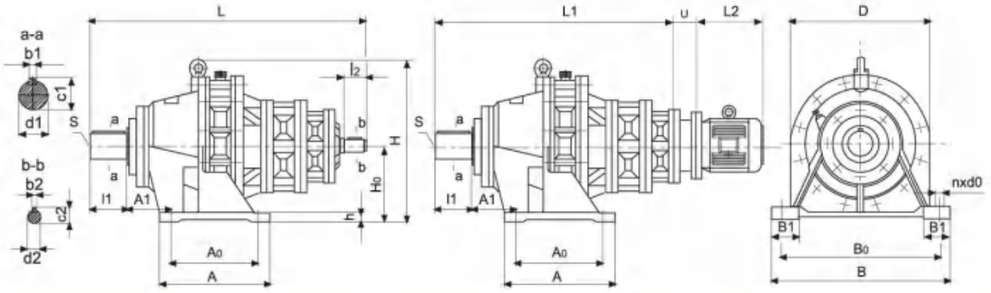


机型号 type	安装尺寸 installation size							轴伸联接尺寸 size of coupling shaft end								外形尺寸 contour size							出轴中心孔 centre hole diameter	双轴型重量 double shaft weight (kg)
	D_1	D_2	E	h	R	安装螺钉 screw instalcment		输出轴 output shaft				输入轴 inport shaft				D	双轴型 double shaft type	直联型 direct coupling type						
						n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2		L	L_1	L_2	B_2	u	S	
1512	200	170h9	69	16	4	6	M10	35	10	38	58	15	5	17	22	230	336	286				M8	40
1812	230	200h9	89	20	4	6	M12	45	14	48.5	82	15	5	17	22	260	414	364				M10	49
1815	230	200h9	89	20	4	6	M12	45	14	48.5	82	18	6	20.5	36	260	434	364				M10	60
2215	310	270h9	89	22	4	6	M12	55	16	59	82	18	6	20.5	36	340	473	407				M10	105
2218	310	270h9	89	22	4	6	M12	55	16	59	82	22	6	24.5	36	340	506	430				M10	138
2715	360	316h9	114	26	5	8	M16	70	20	74.5	105	18	6	20.5	36	400	540	474				M12	165
2718	360	316h9	114	26	5	8	M16	70	20	74.5	105	22	6	24.5	36	400	573	497				M12	180
3318	450	400h9	140	30	6	12	M20	90	25	95	130	22	6	24.5	36	490	658	582				M16	270
3322	450	400h9	140	30	6	12	M20	90	25	95	130	30	8	33	58	490	706	601				M16	290
3922	520	455h9	177	35	8	12	M20	100	28	106	165	30	8	33	58	580	796	691				M20	420
3927	520	455h9	177	35	8	12	M20	100	28	106	165	35	10	38	58	580	813	706				M20	520
4527	590	520h9	180	40	10	12	M24	110	28	116	165	35	10	38	58	650	856	749				M24	600
5527	800	680h9	215	45	10	12	M30	130	32	137	200	35	10	38	58	880	998	891				M30	1200
5533	800	680h9	215	45	10	12	M30	130	32	137	200	45	14	48.5	82	880	1079	914				M30	1380
6533	920	760h9	255	45	10	12	M30	160	40	169	240	45	14	48.5	82	1000	1205	1040				M36	2510

按电动机长 according to electric machine 见附表 P27-P28 页 see tab.

BW(Y)三级摆线针轮减速机的外形及安装尺寸

Contour and Installment Size of BW(Y) 3-stage Cycloidal Pin Wheel Reducer

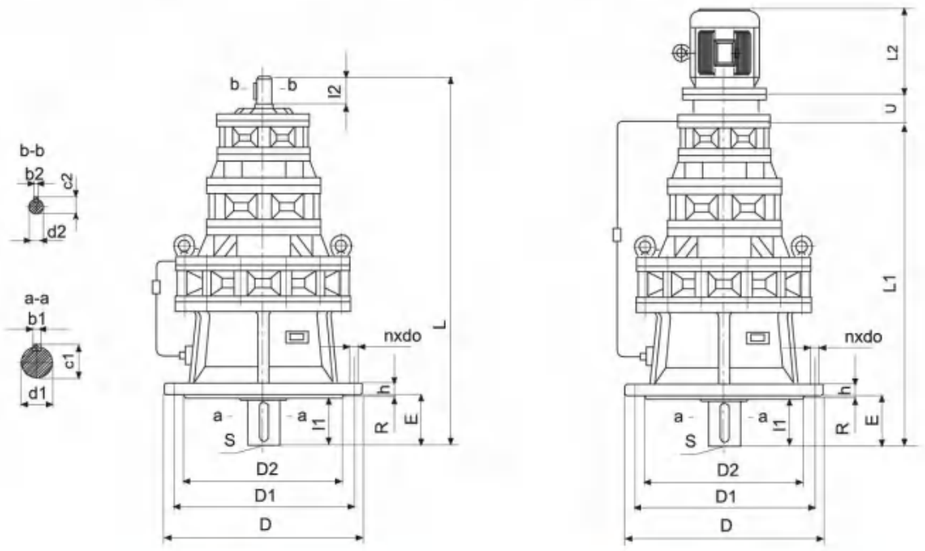


机型号 type	中心高 H_0 center height	安装尺寸 installation size A_1	A_0	B_1	B_0	h	地脚螺钉 foundation screw n	d_0	轴伸联接尺寸 size of coupling shaft end 输出轴 output shaft d_1(h6)	b_1	c_1	l_1	输入轴 input shaft d_2(h6)	b_2	c_2	l_2	外形尺寸 contour size H	B	D	A	双轴型 double shaft type L	直联型 direct coupling type L_1	L_2	U	出轴中心孔 center hole diameter S	双轴型重量(kg) double shaft weigh
181512	0 150-0.5	95	145	60	290	22	4	M16	45	14	48.5	82	15	5	17	22	318	330	240	195	455	410			M10	59
271812	0 200-0.5	35	275	80	380	30	4	M20	70	20	74.5	105	15	5	17	22	435	430	360	335	634	584	按电动机长 according to electric machine	见附表 P27 - P28 页 tables	M12	201
331812	0 250-0.5	35	380	85	480	35	4	M24	90	25	95	130	15	5	17	22	542	530	435	440	719	669			M16	278
332215	0 250-0.5	35	380	85	480	35	4	M24	90	25	95	130	18	6	20.5	36	542	530	435	440	762	692			M16	352
392215	0 290-0.5	45	480	90	560	40	4	M24	100	28	106	165	18	6	20.5	36	619	620	510	560	852	782			M20	478
452715	0 325-0.5	80	500	105	630	45	4	M24	110	28	116	165	18	6	20.5	36	708	690	580	600	907	837			M24	667
552718	0 420-1	122	330X2	140	800	50	6	M33	130	32	137	200	22	6	24.5	36	880	880	705	810	1082	1006			M30	1315
653322	0 490-1	114	375X2	170	920	55	6	M36	160	40	169	240	30	8	33	58	1008	1030	820	900	1281	1177			M36	2805

TAILONG MACHINERY

BL(Y)三级摆线针轮减速机的外形及安装尺寸

Contour and Installment Size of BL(Y) 3-stage Cycloidal Pin Wheel Reducer



机型号 type	D_1	D_2	E	h	R	安装螺钉 screw instaclment n	d_0	轴伸联接尺寸 size of coupling shaft end 输出轴 output shaft d_1(h6)	b_1	c_1	l_1	输入轴 input shaft d_2(h6)	b_2	c_2	l_2	外形尺寸 contour size D	双轴型 double shaft type L	直联型 direct coupling type L_1	L_2	B_2	U	出轴中心孔 center hole diameter S	双轴型重量 double shaft weight (kg)
181512	230	200h9	89	20	4	6	M12	45	14	48.5	82	15	5	17	22	260	455	410				M10	54
271812	360	316h9	114	26	5	8	M16	70	20	74.5	105	15	5	17	22	400	634	584			按电动机长 according to electric machine	见附表 P27 - P28 页 tables	M12	201
331812	450	400h9	140	30	6	12	M20	90	25	95	130	15	5	17	22	495	719	669					M16	278
332215	450	400h9	140	30	6	12	M20	90	25	95	130	18	6	20.5	36	495	762	692					M16	352
392215	520	455h9	177	35	8	12	M20	100	28	106	165	18	6	20.5	36	580	852	782					M20	478
452715	590	520h9	180	40	10	12	M24	110	28	116	165	18	6	20.5	36	650	907	837					M24	667
552718	800	680h9	215	45	10	12	M30	130	32	137	200	22	6	24.5	36	880	1082	1006					M30	1315
653322	920	760h9	255	45	10	12	M30	160	40	169	240	30	8	33	58	1000	1281	1177					M36	2805

BWY、BLY、XWD、XLD 型摆线针轮减速机专用电机尺寸（附表一）

Dimension of special motor for BWY、BLY、XWD、XLD cycloid pin wheel decelerator(att.table)

机号 Type		尺寸 Dimension	输入功率(kW) Input power												
B系列 B series	X系列 X series		0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11
			输入转速(r/min) Input rotate speed 1500												
12、1512 1812	2、42	U		0	0	0	0								
		L2		220	220	220	230								
		电机重量 (kg) Weight		10	10	10	11								
15、1815 2215、2715	3、53 63	U			0	0	0	0	0	0					
		L2			230	245	245	260	285	320					
		电机重量 (kg) Weight			17	19	20	25	28	37					
18、2218 2718、3318	4、74 84	U					0	0	0	0	0				
		L2					250	265	290	325	325				
		电机重量 (kg) Weight					21	26	29	38	40				
22、3322 3922	5、85 95	U						0	0	0	0	0	0	0	
		L2						265	290	325	325	345	400	400	
		电机重量 (kg) Weight						26	29	38	40	47	74	86	
27、3927	6、7	U								0	0	0	0	0	0
		L2								345	345	345	400	445	505
		电机重量 (kg) Weight								45	45	51	80	96	138

注：上表仅供参考，L2=U+J

Note:The above is just for reference.L2=U+J

BWY、BLY、XWD、XLD 型摆线针轮减速机普通电动机尺寸（附表二）

Dimension of common motor for BWY、BLY、XWD、XLD cycloid pin wheel decelerator (att.table 2)

机号 Type		尺寸 Dimension	输入功率(kW) Input power																								
B系列 B series	X系列 X series		0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75
			输入转速(r/min) Input rotate speed 1500												1000												
12、1512 1812	2、42	U	57	57	81	81																					
		L2	245	245	260	285																					
		电机重量 (kg) Motor weight	19	20	25	28																					
15、1815 2215、2715	3、53 63	U	60	60	70	70	104																				
		L2	245	245	260	285	320																				
		电机重量 (kg) Motor weight	19	20	25	28	37																				
18、2218 2718、3318	4、74 84	U	55	55	65	65	75	75	75																		
		L2	245	245	260	285	320	320	340																		
		电机重量 (kg) Motor weight	19	20	25	28	37	39	45																		
22、3322 3922	5、85 95	U	67	67	67	67	77	77	77	96	96	159															
		L2	245	245	260	285	320	320	340	395	435	490															
		电机重量 (kg) Motor weight	19	20	25	28	37	39	45	72	84	130															
27、3927、 4527、5527、	6、106 7、117	U	77	77	77	77	77	77	77	96	96	130															
		L2	245	245	260	285	320	320	340	395	435	490															
		电机重量 (kg) Motor weight	19	20	25	28	37	39	45	72	84	130															
33、5533 6533、	8、128	U					76	76	76	101	101	129	129	129													
		L2					320	320	340	395	435	490	535	560													
		电机重量 (kg) Motor weight					37	39	45	72	84	130	145	180													
39	9	U													98	98	134	134	134	144	144	175					
		L2													435	435	490	535	600	665	665	705					
		电机重量 (kg) Motor weight													80	90	130	160	195	220	250	292					
45	10	U																196	196	196	196	226	226	226			
		L2																535	600	665	665	705	895	980			
		电机重量 (kg) Motor weight																160	195	220	250	292	408	538			
55	11	U																	142	142	142	172	172	172			
		L2																	600	665	665	705	895	980			
		电机重量 (kg) Motor weight																	195	220	250	292	408	538			
65	12	U																		136	136	166	166	166	166	195.5	
		L2																		665	665	705	895	980		1170	
		电机重量 (kg) Motor weight																		220	250	292	408	538	595	990	

注：上表仅供参考，L2=U+J

Note:The above is just for reference.L2=U+J

TAILONG MACHINERY

八、摆线针轮减速机各种系列标准相应机型对照表

The check list of type and series of cycloidal pin wheel reducer

B系列(泰隆标) B series (Tailong normal)	12	15	18	22	27	--	33	39	45	55	65	
X系列(天津标) X series (Tianjin normal)	2	3	4	5	6	7	8	9	10	11		12
B系列(上海标) B series (Shanghai normal)	B10	B11A B11	B12B B12	B13B B13	B14	B14A	B15	B16B B16	B17	B18		B19
B系列(化工部标) B series (Chemical normal)	B0	B1	B2	B3	B4	--	B5	B6	B7	B8	B9	
Z系列(机械部标) JB/T2982-94 Z seeries (Machinery normal)	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A		12A

B系列(泰隆标) B series (Tailong normal)	1512	1812	1815	2215	2218	2715	2718	3318	3322	3922	3927	4527	5527	5533	6533
X系列(天津标) X series (Tianjin normal)	00	42	-	53	-	63	74	84	85	95	-	106	117	-	128
B系列(上海标) B series (Shanghai normal)	-	B120A	-	B131A	-	B141A	B142A	B152	B153	B163	-	B174	B184A	-	B195
B系列(化工部标) B series (Chemical normal)		20	-	31	-	41	42	52	53	63	-	74	84	-	95
Z系列(机械部标) JB/T2982-94 Z seeries (Machinery normal)		42A		53A		63A	74A	84A	85A	95A		106A	117A		128A

B系列(机械部标) B series (Machinery normal)	181512	271812	331812	332215	392215
X系列(天津标) X series (Tianjin normal)	420	742	842	853	953

B系列(机械部标) B series (Machinery normal)	452715	552718	653322	
X系列(天津标) X series (Tianjin normal)	1063	1174		1285

注：上表四大系列摆线针轮减速机本公司均可生产，其传动原理和结构特点都是一样，只是输出轴尺寸和安装尺寸略有差异。

Note: The above four series of cycloidal pin wheel decelerators can all be produced in our company with the same driving mechanism and structure. The difference lies in the output shaft size and installing size.

TAILONG MACHINERY

特殊摆线针轮减速机系列

Special series of cycloidal pin wheel decelerator

我公司根据各行业要求，设计了多种特殊用途的减速机，其内部参数等同于同规格的摆线针轮减速机，性能、指标达到 JB/T53324-1997 的要求，欢迎各行业厂家来公司合作，本公司为您提供各种非标产品的设计、制造。

Besides we can design special decelerator under standard of JB/T53324-1997 with the same specs with other normal reducers. Any industrial works are welcomed.

(一)、TSW 型减速机 TSW decelerator

TSW 型摆线针轮减速机是为水泥成球盘机械配套设计制造的，性能、指标符合该行业使用要求，其输入部分为 C 型三角带轮。性能参数如下表：

The TSW cycloidal pin wheel decelerator is designed for cement ball-plater. The tech dates conform to national standard. The input part applies C triangle belt wheel. The parameters are as follows.

机 型 Type	许用转矩 Nm Allowed torque	减速机中心高 Center height	输出轴轴径 D (h6) Output shaft diameter	传动比 Transmission ratio
TSW27	1600	200	70	11, 17, 23, 29 35, 43, 59, 71, 87
TSW33	3000	240	90	
TSW39	5000	280	100	
TSW45	10000	325	110	

(四)立式摆线针轮减速机配套机架

The Accessory Frame of Vertical Cycloid Pin Wheel Reducer

机架系列及选用原则　The Series Frames and Selection Principle.

1.机架的选用，原则上是根据减速机输出轴径的大小来确定机架型号，只要接口形式及安装尺寸相符，减速机的输出轴大小在一定范围内可以对机架型号上下浮动。若选用带接板机架，减速机的安装尺寸与机架不符，在一定范围内我厂也可以对接板进行调整与减速机联接，满足用户要求。

2.无支点机架。机架本身无轴的支承点，搅拌轴是以减速机输出轴的两个支承轴为受力支点，可用于传递小功率、不受或只受较小轴向负荷、搅拌不太强烈的搅拌装置。搅拌轴与减速机联接必须用刚性联轴器，特别是以JQ型夹壳联轴器为最佳。

3.单支点机架。具备下列条件之一者，选用单支点机架为最佳。

(1)搅拌容器设置底轴承，作为一个受力支点；

(2)轴封本体设有轴承（包括刚性衬套），作为一个受力支点（受力程度按轴封要求规定）；

(3)搅拌容器内，轴中部设有导向轴承，作为一受力支点（即中间轴承）。

当具备上述条件的搅拌轴，在选用单支点机架时，搅拌轴与减速机之间的联轴器须选用HL型弹性柱销联轴器。

在实际应用中常用刚性联轴器代替弹性柱销联轴器联接搅拌轴与减速机出轴、取消底轴承或中间轴承等支点。这样使用，简化了单支点支架的应用条件，但只适宜于搅拌不强烈、功率较小、对轴承负荷较小的场合。这时联轴器应选用GT型刚性凸缘联轴器，以利轴向尺寸方面的微量调整；原则上不能用JQ型夹壳联轴器，若采用夹壳联轴器，则必须对支点的轴承结构进行变动，采用带紧定套的锥孔调心滚子轴承，或者取掉夹壳联轴器中的悬吊环，使搅拌轴的轴向位置有适当调整的余地。

4.双支点机架。不宜于选用无支点、单支点机架时，应选用双支点机架。但选用的双支点机架下支点轴承结构带紧定套的锥孔调心滚子轴承便利于安装维修，且搅拌轴与减速机之间的联接必须选用HL型弹性柱销联轴器。

1. The principle of selection frame. In principle we could choose the frame type of output shaft diameter according to the interface mode and the installation dimensions. The output shaft could float according to the frame type. In order to meet the customers' requirement we could adjust the joining of the panel and the reducer at some range if the installation size is not matched with the frame when select the frame with Plug-board.

2. The frame without support. There is no supporting points of the reducer's own frame. The mixer axle which is supported by the two supporting bearings of the reducer's output shaft could be used in transmitting the small power, not accepted or minor accepted the with axial load.

3. Single-support frame. You'd better select the single-support frame when the condition is as following:

(1). The agitator tank is set up a bearing as a supporting point.

(2). The reality gland seal (including the rigidity shell) is set up a bearing as a force supporting. (the forcing degree is sized according to the gland seal requirement).

(3). There is setting a lower shoe bearing at the center axial as a forcing support (namely center bearing).

The mixer shaft and the reducers' coupling should select the HL type elastic pin coupling when we use the single point frame which meet the above conditions' mixer shaft.

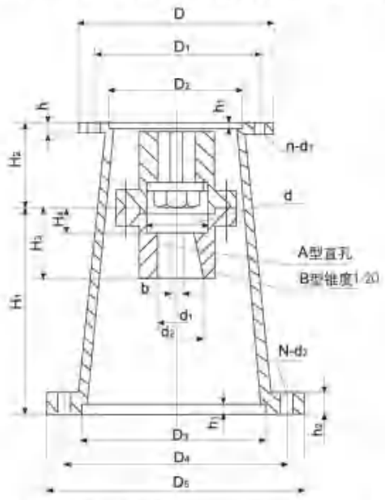
In practical application, the rigid coupling is usually used to connect mixing shaft to output shaft instead of elastic pin coupling, cancel support such as down bearing or middle 's. So that,it simplify the application undition of single support frame,but limitted to moderate mix,small power and small bearing load and so. Here it should adopt GT type of rigid coupling,which benifit for the micw-adjustmet of axial direction size, In principle,don't adopt JQ type of split coupling, if select this type, it has to change bearing structure of support, adopt tapered are self-aligning roller bearing added adapter sleeve or take off suspending ring of split coupling ,in order to enable adjustment leeway fagitator axle in axial direction.

4.Double-support frame,when the frame without support and single-support frame is not suitable, should select double-support frame,But the down bearing of the double-support frame should be tapered core self-aligning roller bearing added adapter sleeve which vail for assembly and main tenance, and also select HL type of elastic pin coupling to connect mixing shaft and decelerator.

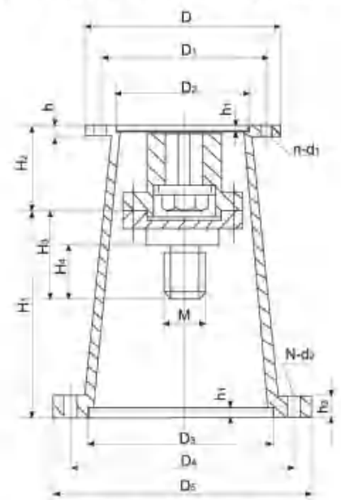
TAILONG MACHINERY

(一)JA型通用机架　General stand type frame JA

JA大法兰机架<厂标>　JA type frame　　JA II <69标>机架　JA II type 69 standard frame



JA型<大法兰>机架　JA type frame



JA II型69标机架　JA II type 69 standard frame

JA(厂标)无支点机架主要参数及尺寸　Primary meters and sizes of JA frame without suppert

机架型号 frame type	减速机型号 reducer type	输入端接口 inlet edge						输出端接口 outlet edge						H_1	H_2	H_3	H_4	c	A型直孔 A type straight hole		B型锥孔 B type cone-socket 1:20	
		D	D_1	D_2	h	h_1	n-d	D_3	D_4	D_5	h_2	n-d_2							d_1	b	d_2	b
JA0	B12	190	160	140	16	5	4-12	165	210	250	16	6-12		205	55	55	18	45	30	8		
JA1	B15	230	200	170	16	5	6-12	215	260	290	16	8-12		200	101	75	25	50	35	10	35	10
JA2	B18	260	230	200	20	6	6-14	290	350	380	20	8-14		250	116	90	30	70	45	14	50	14
JA3	B22	340	310	270	22	6	6-14	360	440	480	22	8-18		300	134	110	30	80	55	16	60	18
JA4	B27	400	360	316	25	7	8-18	440	535	580	25	8-22		380	138	130	40	90	70	20	70	20
JA5	B33	490	450	400	25	7	12-22	500	560	620	25	8-24		486	149	150	48	110	90	25	95	25
JA6	B39	580	520	455	25	9	12-22	480	560	600	30	16-23		455	195	170	45	120	100	28	100	28
JA7	B45	650	590	520	30	11	12-27	560	650	700	30	16-27		503	221	185	45	130	110	28	110	28
JA8	B55	880	800	680	30	11	12-37	720	810	880	37	20-27		569	249	245	45	150	130	32	130	3

本机架适用于摆线针轮减速机的联接，配刚性联轴器，上联轴器装A型直孔或B型锥孔，锥度为1:20的联轴器。该机架无支承适用于反应器传来的轴向力不大时使用。

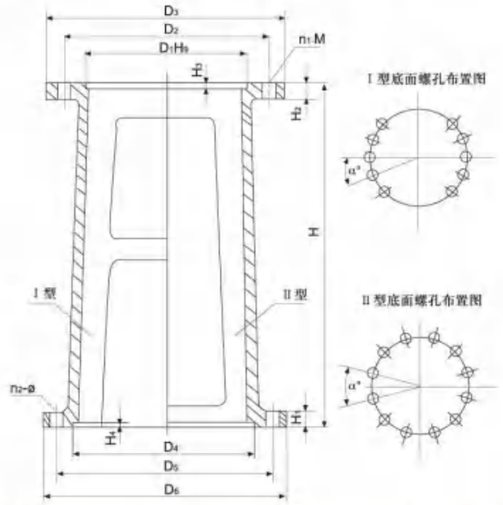
The frame is applied in connecting cycloid pin wheel decelerator with rigidity coupling upper coupling is joined with A type straight hole or B type cone-socket, subulate degree is 1:20. The frame without support is the same with less axial force be from reactor.

JA II (69标）无支点机架，配螺纹联轴器主要参数及尺寸

Primary meters and sizes of JA II (69 standard) frame without support

机架型号 frame type	减速机型号 reducer type	输入端接口 inlet edge						输出端接口 outlet edge						H_1	H_2	H_3	H_4	M	反应器容积 Volume (升)
		D	D_1	D_2	h	h_1	n-d	D_3	D_4	D_5	h_2	n-d_2							
JA II1	B15	230	200	170	16	5	6-12	215	260	290	16	4-12		226	84	93	50	M33x2	50-100
																120	60	M42x3	200
JA II2	B18	260	230	200	20	6	6-14	230	300	345	20	3-18		243	107	120	60	M42x3	200-300
																120	60	M48x3	500
																120	80	M60x4	1000
JA II3	B22	340	310	270	22	6	6-14	320	400	460	22	4-20		323	117	120	80	M68x4	1500
																120	80	M78x4	2000
JA II4	B27	400	360	316	22	7	8-18	440	530	580	25	8-22		392	129	130	80	M78x4	3000
JA II5	B33	490	450	400	25	7	12-22	450	550	600	28	8-22		385	155	130	80	M78x4	5000

(二)WJ、LWJ 型无支点机架尺寸
Dimension of WJ, LWJ type frame without support



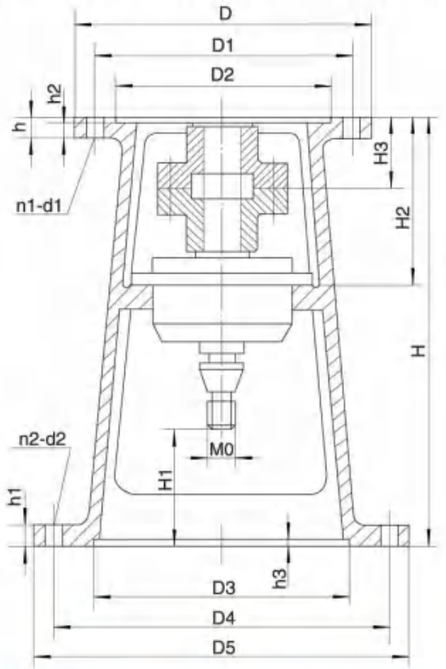
WJ、LWJ 型无支点机架　WJ, LWJ type frame without support

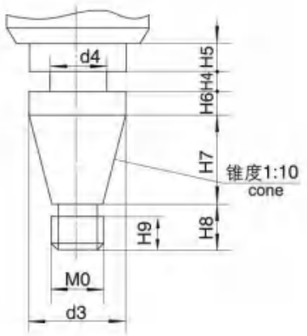
机架型号 frame type		H_1	H_2	H_3	H_4	输入端接口 inlet edge				输出端接口 outlet edge					WJ型 WJ type		LWJ型 LWJ type	
						D_1	D_2	D_3	n_1-M	D_4	D_5	D_6	α°	n2-∅	H	重量(kg) weight	H	重量(kg) weight
WJ LWJ	30	A				20	15	4 4	6	140 170	160 200	190 230	4-M10 6-M10	240	285	315	I20 II30	10-∅14 12-∅14	450	34	600	43
WJ LWJ	35	A				24	15	5	6	170	200	230	6-M10	260	320	360	I20 II30	10-∅14 12-∅14	500	46	650	54
WJ LWJ	40	A				24	15	4	6	200	230	260	6-M12	260	320	360	I20 II30	10-∅14 12-∅14	500	46	650	54
WJ LWJ	45	A				24	15	5	6	200	230	260	6-M12	260	320	360	I20 II30	10-∅14 12-∅14	500	49	650	57
WJ LWJ	55	A B				30	20	6	6	270	310	340	6-M12	325	400	435	30	12-∅14	540	75	690	83
WJ LWJ	65	A				34	20	6	6	316	360	400	8-M16	350	420	460	30	12-∅18	600	96	750	107
WJ LWJ	70	A B				34	20	6	6	316	360	400	8-M16	350	420	460	30	12-∅18	600	96	750	107
WJ LWJ	80	A B				38	25	6	8	345	390	430	8-M16	380	455	495	30	12-∅18	640	130	790	139
WJ LWJ	90	A B				40	25	7	8	400	450	490	12-M20	430	510	555	30	12-∅23	660	168	860	183
WJ LWJ	100	A B	120	A		40	25	9	10	455	520	580	12-M20	480	560	600	22.5	16-∅23	700	205	900	224
WJ LWJ	110	A B	120	A		40	30	11 6	10	520	590	650	12-M24	560	650	700	22.5	16-∅27	800	257	1000	274
WJ LWJ	130	A B	140	A		44	30	11 9	10	680	800	880	12-M30	720	810	880	18	20-∅27	900	318	1200	365
WJ LWJ	150	A B	160	A	B	50	35	14 10	12	760	920	1020	12-M30	840	940	1020	22.5	16-∅33	1000	420	1300	480
WJ LWJ	180	A B				55	40	14 10	12	900	1020	1160	8-M36	970	1080	1160	18	20-∅33	1100	560	1400	630

注：增高后的 LWJ 型机架，其内部中间高度可同时容纳 207 型双端面机械封及 SF 型三分式联轴器。

Note: After LWJ type frame is heightened, it can float 207 type double-face mechanical seal and SF type trichotomy coupling in middle height at one time.

(三)JB型 (79标) 机架尺寸　Frame size of JB type (79 standard)

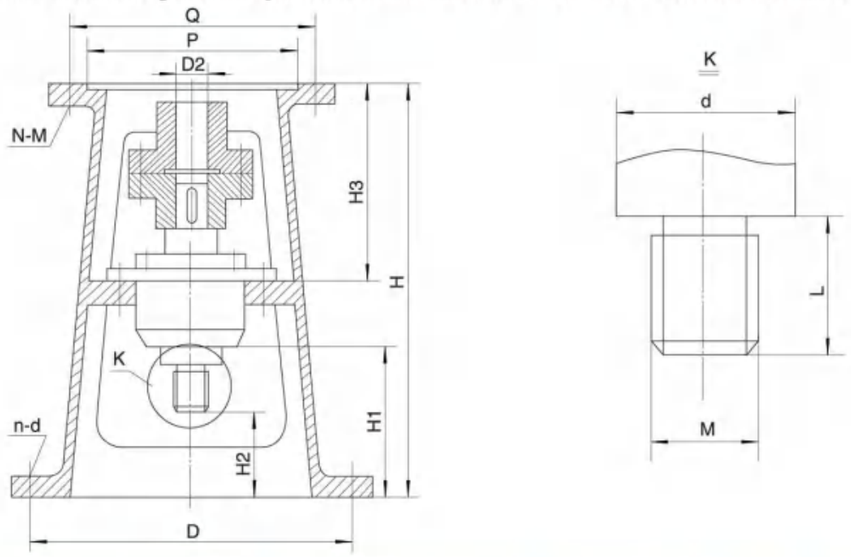




机架型号 frame work type	减速机 (BLY)	输入端接口 Inlet edge						输出端接口 Outlet edge						尺寸 dimension												皮带罐容积(升) volume (L)
		D	D_1	D_2	h	h_2	n_1-d_1	D_3 (H_9)	D_4	D_5	h_3	h_1	n_2-d_2	H	H_1	H_2	H_3	H_4	H_5	H_6	H_7	H_8	H_9	d_3	d_4	M_0	
JBT_1	15	230	200	170	18	5	6-ø12	220	270	305	7	20	4-ø24	514	157	175	77	4	40	6	33	34	28	30	24	M24X3	50-100
JBT_2	15	230	200	170	18	5	6-ø12	250	300	335	7	20	4-ø24	517	150	175	77	5	40	6	44	32	26	39	32	M33X3.5	200
JBT_2-2#	18	260	230	200	18	5	6-ø14	250	300	335	7	20	4-ø24	530	134	209	93	5	40	6	44	32	26	39	32	M33X3.5	200
JBT_3-2#	18	260	230	200	20	5	6-ø14	295	350	392	7	23	4-ø24	560	164	209	93	5	45	6	47	34	28	39	32	M33X3.5	300-500
JBT_3	22	340	310	270	20	6	6-ø14	295	350	392	7	23	4-ø24	560	165	209	97	5	45	6	47	34	26	39	32	M33X3.5	300-500
JBT_4	22	340	310	270	20	6	6-ø14	345	400	442	7	24	4-ø24	635	203	215	97	5	50	8	53	44	36	50	41.5	M42X4.5	1000-2000
JBT_5	22	340	310	270	22	6	6-ø14	390	450	498	7	25	4-ø24	680	193	239	97	5	55	8	58	45	37	60	51.5	M52X5	3000
JBT_5-4#	27	400	360	316	22	6	8-ø18	390	450	498	7	25	4-ø30	680	193	239	120	5	55	8	58	45	37	60	51.5	M52X5	3000
JBT_6	27	400	360	316	22	6	8-ø18	435	500	548	7	26	8-ø30	736	215	253	120	9	51	8	65	50	42	70	61.5	M64X6	5000
JBT_7	33	490	450	400	26	7	12-ø22	440	550	600	10	28	12-ø22	805	180	341	156	8	44	8	80	50	42	90	79	M80X6	
JBT_8	39	580	520	455	30	10	12-ø22	500	550	600	10	30	12-ø22	820	170	358	182	9	34	8	90	50	42	100	89	M90X6	
JBT_9	45	650	590	520	30	12	12-ø27	560	650	700	10	35	16-ø27	1100	326	455	199	10	50	10	100	50	42	110	99	M98X6	
JBT_{10}	55	880	800	680	38	12	12-ø37	720	810	880	10	40	20-ø27	1200	409	460	219	10	50	10	100	50	42	130	119	M118X6	

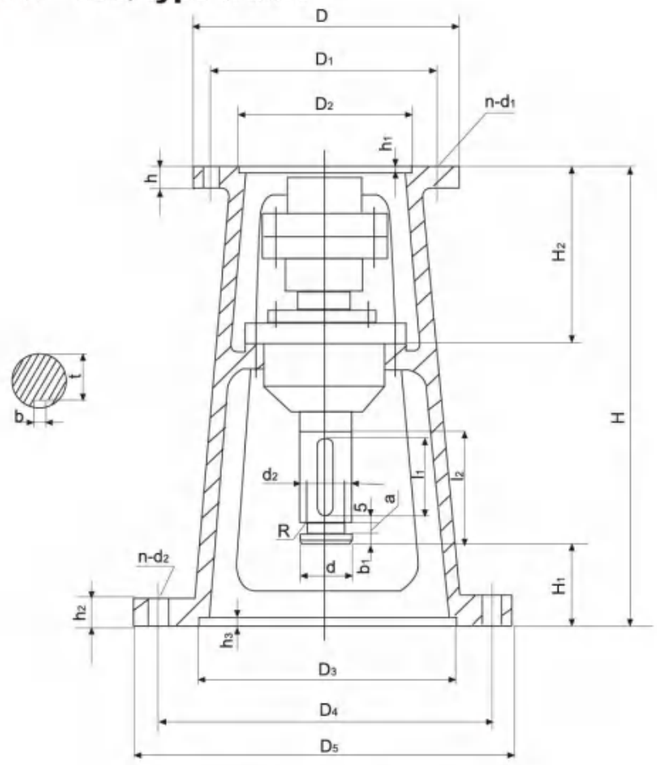
(四)HG5-251-69 标准反应罐配套摆线针轮减速机传动机架尺寸

Frame size of cycloidal pin wheel decelerator for HG5-251-69 standard reactor



机架型号 frame work type	反应罐（立升）reactor (l)	减速机 reducer (BLY)	反应罐连接处 reactor connection		H	H_2	H_1	H_3	搅拌轴连接处 stiring shaft connection			减速机连接处 reducer connection			
			D	n-d					M	L	d	p	N-M	D_2	Q
TB_1	50 100	15	220	3-ø14	514	110	268	175	M33X2	50	45	170	6-ø12	35	200
TB_2	200	15	280	3-ø14	514	140	268	175	M42X3	60	55	170	6-ø12	35	200
TB_3	300	18	300	3-ø18	530	190	264	209	M42X3	65	50	200	6-ø14	45	230
TB_3	500	18	300	3-ø18	530	190	264	209	M48X3	65	55	200	6-ø14	45	230
TB_4	1000	22	400	4-ø26	675	200	356	215	M60X4	80	70	270	6-ø14	55	310
TB_4	1500	22	400	4-ø26	675	200	356	215	M65X4	85	75	270	6-ø14	55	310
TB_4	2000	22	400	4-ø26	675	200	356	215	M78X4	90	89	270	6-ø14	55	310
TB_5	3000	22	400	4-ø26	675	200	356	215	M78X4	90	89	270	6-ø14	55	310
TB_5	3000	27	400	4-ø26	720	200	398	253	M78X4	90	89	316	8-ø18	70	360
TB_6	5000	27	500	4-ø30	736	200	393	253	M78X4	100	89	316	8-ø18	70	360

(五)TJQ 型机架 TJQ type frame



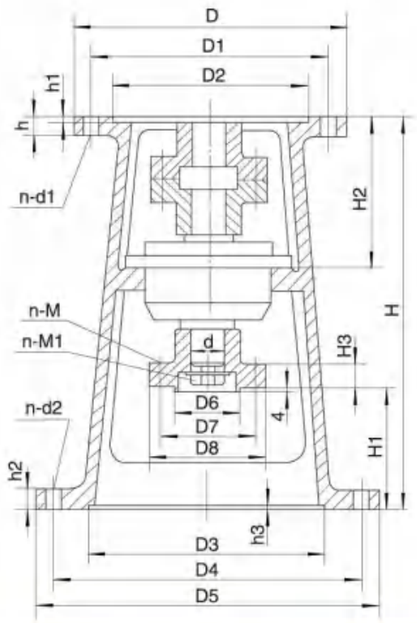
TJQ型机架 TJQ type frame

TJQ 型机架下装 JQ、JJQ 型夹壳式联轴器主要参数及尺寸

Primary parameter and dimension of installed down JQ, JJQ type split coupling for TJQ type frame

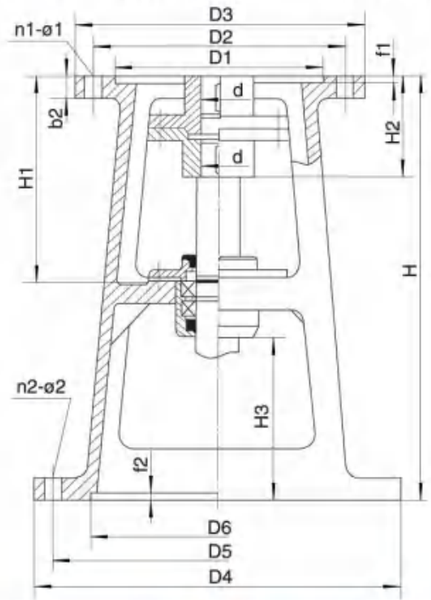
机架型号 frame type	减速机型号 reducer type	输出轴d output shaft (h7)	输入端接口 inlet edge						输出端接口 outlet edge						H	H_1	H_2	l_1	l_2	a (H_{11})	b_1	d_2 (h_{11})	b	t
			D	D_1	D_2	h	h_1	n-d_1	D_3	D_4	D_5	h_2	h_3	n-d_2										
TJQ2	B15	35	230	200	170	18	5	6-12	250	300	335	20	7	4-24	517	173	175	55	85	5	4	30	10	30
TJQ3	B18	45	260	230	200	20	6	6-14	295	350	392	23	7	4-24	560	196	209	70	100	6	5	37	14	39.5
TJQ4	B22	55	340	310	270	20	6	6-14	345	400	442	24	7	4-24	635	246	215	70	100	6	5	47	16	49
TJQ5	B22	55	340	310	270	20	6	6-14	390	450	498	25	7	4-30	680	271	250	70	100	6	5	47	16	49
TJQ6	B27	70	400	360	316	22	6	8-18	435	500	548	26	7	8-30	736	253	253	100	130	8	6	60	20	62.5
TJQ7	B33	90	490	450	400	25	7	12-22	440	550	600	28	10	12-22	805	195	341	140	170	10	8	80	25	81
TJQ8	B39	100	580	520	455	26	10	12-22	500	550	600	30	10	12-22	820	186	358	140	170	10	8	90	28	90
TJQ9	B45	110	650	590	520	30	12	12-27	560	650	700	35	10	16-27	1100	326	455	160	200	12	10	100	28	100
TJQ10	B55	130	880	800	680	38	12	12-37	720	810	880	40	10	20-27	1200	384	460	180	225	14	12	118	32	119

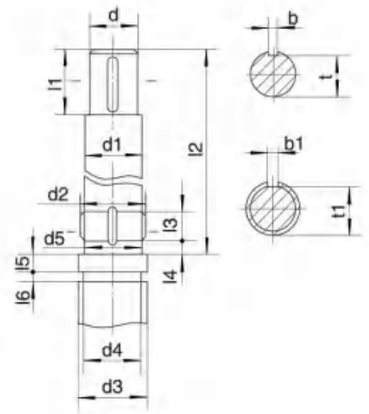
(六)TJ 型机架下装 JA 型联轴器主要参数及尺寸
JA connector para meters and size of TJ frame



机架型号 frame wrok type	减速机 reducer (BLY)	输入端接口 inlet edge						输出端接口 outlet edge						H	H_1	H_2	H_3	d	D_6	D_7	D_8	n-M	n-M_1
		D	D_1	D_2	h	h_1	n-d_1	D_3	D_4	D_5	h_2	h_3	n-d_2										
TJ1	15	230	200	170	20	6	6-ø12	220	270	305	22	7	4-ø24	514	201	175	15	35	60	115	140	4-M12	1-M10
TJ2	15	230	200	170	18	5	6-ø12	250	300	335	20	7	4-ø24	517	197	175	15	35	60	115	140	4-M12	1-M10
TJ2	18	260	230	200	22	6	6-ø14	250	300	335	25	7	4-ø25	530	176	209	20	45	85	120	160	4-M12	1-M12
TJ3	18	260	230	200	20	6	6-ø14	295	350	392	23	7	4-ø24	560	206	209	20	45	85	120	160	4-M12	1-M12
TJ3	22	340	310	270	20	6	6-ø14	295	350	392	23	7	4-ø24	560	191	210	20	45	85	120	160	4-M12	1-M12
TJ4	22	340	310	270	20	6	6-ø14	345	400	442	23	7	4-ø24	635	245	215	22	55	100	150	180	4-M16	1-M16
TJ5	22	340	310	270	22	6	6-ø14	390	450	498	26	7	4-ø24	680	250	250	22	55	100	150	180	4-M16	1-M16
TJ6	27	400	360	316	22	6	8-ø18	435	500	548	24	7	8-ø30	736	276	253	28	70	110	165	200	4-M16	1-M16
TJ7	33	490	450	400	25	7	12-ø22	440	550	600	26	10	12-ø22	805	261	341	36	90	150	190	230	4-M16	2-M12
TJ8	39	580	520	455	26	10	12-ø22	500	550	600	28	10	12-ø22	820	209	358	36	100	160	230	280	6-M16	2-M16
TJ9	45	650	590	520	30	12	12-ø27	560	650	700	35	10	16-ø27	1100	355	455	36	110	170	245	290	8-M18	3-M16
TJ10	55	880	800	680	38	12	12-ø37	720	810	880	40	12	20-ø27	1200	378	460	38	130	180	275	330	8-M18	3-M16

(七)JXLD 型机架尺寸 Frame size of JXLD type decelerator





机架型号 frame work type	减速机输入端接口 reducer inlet edge						输出端接口 outlet edge						Ⅰ型 type			Ⅱ型 type		
	$D_1(H_8)$	D_2	D_3	f_1	b_2	n_1-ø	D_4	D_5	$D_6(H_8)$	f_2	b_3	n_2-ø	H	H_3	重量kg weight	H	H_3	重量kg weight
JXLD3-35	170	200	230	6	15	6-ø12	410	360	300	6	18	6-ø18	520	163	55	610	253	60
JXLD4-45	200	230	260	6	15	6-ø12	450	400	335	6	18	6-ø18	570	168	80	670	268	86
JXLD5-55	270	310	340	6	20	6-ø15	500	450	385	6	22	8-ø18	650	163	110	750	263	120
JXLD6-65	316	360	400	6	22	8-ø19	530	480	410	8	24	12-ø18	660	192	130	760	292	145
JXLD7-80	345	390	430	8	22	8-ø19	565	510	430	8	24	12-ø22	740	201	160	860	321	178
JXLD8-90	400	450	490	8	25	12-ø24	565	510	430	8	28	12-ø22	800	206	208	920	326	230
JXLD9-100	455	520	580	10	28	12-ø24	580	520	455	10	30	12-ø22	810	210	235	920	320	262
JXLD10-110	520	590	650	12	30	12-ø28	650	590	520	12	30	12-ø22	830	218	300	950	338	345
JXLD11-130	680	800	880	12	30	12-ø37	880	800	680	12	35	12-ø37	850	184	480	970	304	538
JXLD12-180	900	1020	1160	12	40	8-ø39	1160	1020	900	12	46	12-ø39	1200	235	857	1350	385	913

机架型号 frame work type	搅拌轴轴端尺寸 stirring shaft edge size																		
	d	d_1	d_2	$d_3(k_6)$	d_4	d_5	l_1	l_2	l_3	l_4	l_5	l_6	b	t	b_1	t_1	H_1	H_2
JXLD3-35	35k6	40	M45X1.5	45	42.5 $^{0}_{-0.25}$	42.8	60	215	12	3	18	1.7 $^{+0.14}_{0}$	10	30	6	41	294	139
JXLD4-45	45k6	50	M55X2	55	52 $^{0}_{-0.30}$	52	75	235	14	4	19	2.2 $^{+0.14}_{0}$	14	39.5	8	51	331	171
JXLD5-55	55m6	60	M65X2	65	62 $^{0}_{-0.30}$	62	75	302	14	4	21	2.7 $^{+0.14}_{0}$	16	49	8	61	405	178
JXLD6-65	65m6	70	M75X2	75	72 $^{0}_{-0.30}$	72	90	277	16	4	23	2.7 $^{+0.14}_{0}$	18	58	10	70	384	197
JXLD7-80	80m6	85	M90X2	90	86.5 $^{0}_{-0.35}$	87	105	316	24	4	28	2.7 $^{+0.14}_{0}$	22	71	12	84	442	231
JXLD8-90	90m6	95	M100X2	100	96.5 $^{0}_{-0.35}$	97	125	320	24	4	32	2.7 $^{+0.14}_{0}$	25	81	12	94	486	291
JXLD9-100	100m6	105	M110X2	110	106 $^{0}_{-0.54}$	107	125	308	24	4	36	3.2 $^{+0.14}_{0}$	28	90	14	104	488	305
JXLD10-110	110m6	115	M120X2	120	116 $^{0}_{-0.54}$	117	155	267	28	4	38	3.2 $^{+0.14}_{0}$	28	100	14	114	488	376
JXLD11-130	130m6	135	M140X2	140	136 $^{0}_{-0.63}$	137	155	296	30	4	40	3.2 $^{+0.14}_{0}$	32	119	14	132	530	389
JXLD12-180	180m6	185	M190X3	190	185 $^{0}_{-0.60}$	187	310	412	38	4	55	3.2 $^{+0.16}_{0}$	45	165	16	179	792	690

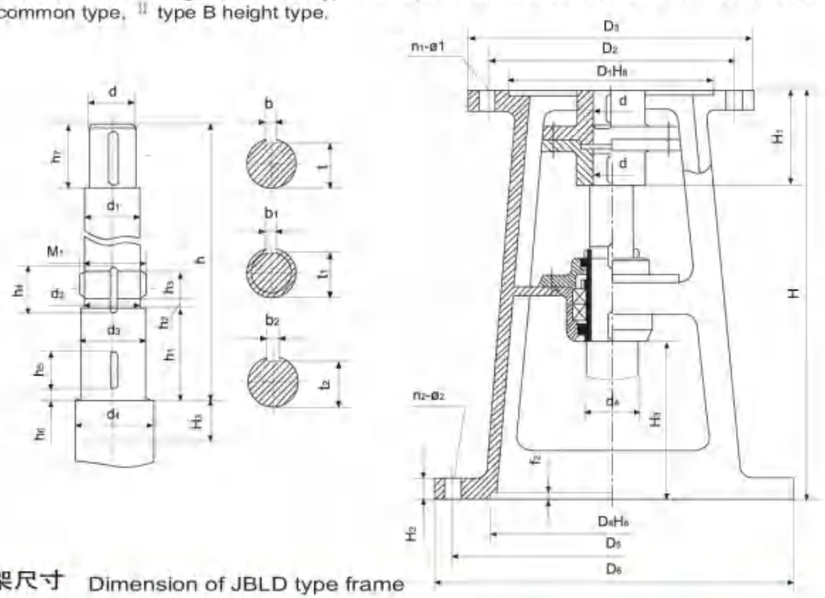
注：本机架适用于与 XLD 型摆线针轮行星减速机联接，Ⅰ为普通型，Ⅱ为增高型。

Note: The frame is used to connect with XLD type cycloidal pin wheel decelerator. Ⅰ is common type, Ⅱ is height type.

(八)JBLD 型机架尺寸 Dimension of JBLD type frame

该支架适用于与BLY型摆线减速机连接，为使搅拌轴与轴承室装配、维修方便，对JB型机架的轴承室结构进行改进设计，将轴承室加大，使之与较粗的搅拌轴相一致。其中Ⅰ型为普通型，Ⅱ型为增高型。

The frame is used to connect with BLY type cyclodial reducer, for be prone to install and service for mixed shaft and bearing house, we increase bearing house of JB type frame, so that make coherence with thick mixed shaft, there into type Ⅰ is common type, Ⅱ type B height type.

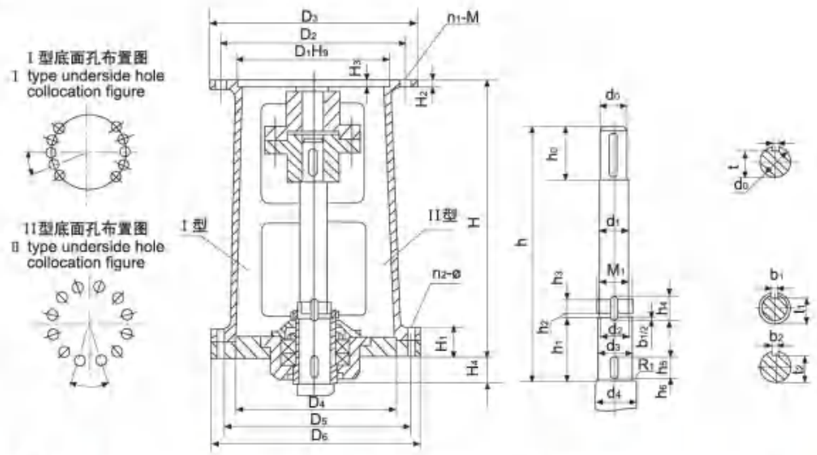


JBLD 型机架尺寸 Dimension of JBLD type frame

机架型号 frame type	减速机型号 reducer type	输入端接口 inlet edge				输出端接口 outlet edge				Ⅰ型 Ⅰ type				Ⅱ型 Ⅱ type		
		D_1 (H8)	D_2	D_3	n_1-M_1	D_4 (H8)	D_5	D_6	n_2-Ø2	H_1	H_2	l_2	H	H_3	重量kg weight	H	H_3	重量kg weight
JBLDJ1	B15	170	200	230	6-ø12	300	360	410	6-ø18	138	18	6	520	158	55	610	248	60
JBLDJ2	B18	200	230	260	6-ø14	335	400	450	6-ø18	182	18	6	570	167	84	670	267	90
JBLDJ3	B22	270	310	340	6-ø14	385	450	500	8-ø18	220	24	8	650	167	115	750	267	125
JBLDJ4	B27	316	360	400	8-ø18	410	480	530	12-ø18	257	24	8	660	161	138	760	262	158
JBLDJ5	B33	400	450	490	12-ø22	430	510	565	12-ø22	306	28	8	800	199	208	920	319	230
JBLDJ6	B39	455	520	580	12-ø22	455	520	580	12-ø22	332	30	10	810	203	235	920	313	262
JBLDJ7	B45	520	590	650	12-ø27	520	590	650	12-ø22	350	30	12	830	252	300	950	372	345
JBLDJ8	B55	680	800	880	12-ø37	680	800	880	12-ø37	400	45	12	860	200	480	980	320	538

机架型号 frame type	被动轴轴端尺寸 extra bridge dimension of linked axis																		配联轴器型号 coupling type
	d	d_1	M_1	d_2	d_3 (k6)	d_4	R_1	b	t	b_1	t_1	b_2	t_2	h_1	h_2	h_3	h_4	h_5	h_6	h_7	h	
JBLDJ1	35	42	M45X1.5	42.8	45	50	1	12	35	6	41	6	41.5	113	3	15	22	40	3	58	282	GT35X65
JBLDJ2	45	57	M60X2	57	60	65	1	14	44.5	8	56	8	56	118	4	15	28	40	3	74	295	GT45X87
JBLDJ3	55	71	M75X2	72	75	80	1	16	58	10	69	10	70	143	4	18	32	50	3	92	355	GT55X102
JBLDJ4	70	81	M85X2	82	85	90	1.5	22	71	10	79	10	80	163	4	18	32	60	3	115	357	GT70X125
JBLDJ5	90	91	M95X2	92	95	110	1.5	25	81	12	89	12	90	168	4	20	36	60	3	145	440	GT90X150
JBLDJ6	100	112	M115X2	112	115	125	2	28	90	14	109	14	109.5	178	4	24	42	60	3	165	425	GT100X170
JBLDJ7	110	112	M115X2	112	115	125	2	28	100	14	109	14	109.5	178	4	24	42	60	3	165	393	GT110X170
JBLDJ8	130	135	M140X2	137	140	150	2	32	119	14	132	14	134.5	208	4	28	46	70	3	180	440	GT130X210

(九)DXJ 型机架 DXJ type frame



DXJ 型单支点机架主要参数及尺寸 Primary parameter and dimension of DXJ type single-support frame

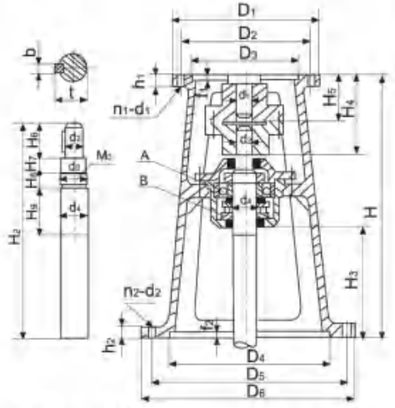
机架代号 frame code		H	H_3	H_4	H_5	H_6	输入端接口 inlet edge D_1	D_2	D_3	n_1-M	输出轴接口 outlet edge D_4	D_5	D_6	d *	n_2-Ø
DXJ30	A	470	40	15	4	45	140	160	190	4-M10	240	285	315	I20	10-Ø14
	B						200	230	260	6-M12				II30	12-Ø14
DXJ35	A	524	48	15	5	47	170	200	230	6-M10	260	320	360	I20	10-Ø14
														II30	12-Ø14
DXJ40	A	524	48	15	4	47	200	230	260	6-M12	260	320	360	I20	10-Ø14
														II30	12-Ø14
DXJ45	A	524	48	15	5	49	200	230	260	6-M12	260	320	360	I20	10-Ø14
														II30	12-Ø14
DXJ55	A	570	60	20	6	47	270	310	340	6-M12	325	400	435	30	12-Ø14
DXJ65	A	634	68	20	6	58	316	360	400	8-M16	350	420	460	30	12-Ø18
DXJ70	A	634	68	20	6	58	316	360	400	8-M16	350	420	460	30	12-Ø18
DXJ80	A	678	76	25	6	70	345	390	430	8-M16	380	455	495	30	12-Ø18
DXJ90	A	700	80	25	7	72	400	450	490	12-M20	430	510	555	30	12-Ø23
DXJ100	A	740	80	25	9	76	455	520	580	12-M20	480	560	600	22.5	16-Ø23
DXJ110	A	840	80	30	11	76	520	590	650	12-M20	560	650	700	22.5	16-Ø27
DXJ120	A	840	80	30	11	76	520	590	650	12-M24	560	650	700	22.5	16-Ø27
DXJ130	A	950	94	30	11	85	680	800	880	12-M30	720	810	880	18	20-Ø27
DXJ140	A	950	94	30	11	85	680	800	880	12-M30	720	810	880	18	20-Ø27
DXJ150	A	950	94	35	14	85	760	920	1020	12-M30	840	940	1020	22.5	16-Ø33
DXJ160	A	950	100	35	14	95	760	920	1020	12-M30	840	940	1020	22.5	16-Ø33
DXJ180	A	1050	100	40	14	115	900	1020	1160	8-M36	970	1080	1160	18	20-Ø33

机架代号 frame code		h(A/B)	h_0	h_1	h_2	h_3	h_4	h_5	h_6	d_0	d_1	d_2	M_1	d_3 (h9)	d_4	b	t	b_1	t_1	b_2	t_2	重量kg weight
DXJ30	A	435/443	53	103	3	13	22	30	3	30	32	32.8	M35x1.5	35	40	8	26	6	31	6	31.5	48
	B																					
DXJ35	A	490	53	113	3	15	24	40	3	35	42	42.8	M45x1.5	45	50	10	30	6	41	6	41.5	62
DXJ40	A	479	69	113	3	15	24	40	3	40	42	42.8	M45x1.5	45	50	12	35	6	41	6	41.5	62
	B																					
DXJ45	A	465	69	113	3	15	28	40	3	45	47	47.8	M50x1.5	50	65	14	39.5	8	46	8	46	67
DXJ55	A	489	80	118	4	15	28	40	3	55	57	57	M60x2	60	65	16	49	8	56	8	56	107
	B																					
DXJ65	A	530	87	143	4	18	32	50	3	65	71	72	M75x2	75	80	18	58	10	69	10	70	150
DXJ70	A	536	87	143	4	18	32	50	3	70	71	72	M75x2	75	80	20	62.5	10	69	10	70	150
	B																					
DXJ80	A	532	91	163	4	18	32	60	3	80	81	82	M85x2	85	90	22	71	10	79	10	80	213
	B																					
DXJ90	A	537	125	168	4	20	36	60	3	90	91	92	M95x2	95	110	25	81	12	89	12	90	276
DXJ100	A	570	134	178	4	24	42	60	3	100	111	112	M115x2	115	125	28	90	14	109	14	109.5	326
	B																					
DXJ110	A	619	155	178	4	24	42	60	3	110	112	112	M115x2	115	125	28	100	14	109	14	109.5	505
DXJ120	A	637	155	178	4	24	42	60	3	120	122	122	M125x2	125	140	32	109	14	119	14	119.5	510
DXJ130	A	770	197	208	4	28	46	70	3	130	135	137	M140x2	140	150	32	119	14	132	14	134.5	689
	B																					
DXJ140	A	761	197	208	4	32	46	70	3	140	145	147	M150x2	150	160	36	128	16	142	16	144	696
DXJ150	A	根据减	210	208	4	32	46	70	3	150	155	156	M160x3	160	170	36	138	16	152	16	154	708
	B																					
DXJ160	A	速机型	210	227	4	32	50	80	3	160	165	166	M170x3	170	180	40	147	16	162	16	164	930
	B																					
DXJ180	A	号而定	290	242	4	36	56	90	3	180	185	186	M190x3	190	200	45	165	18	180	18	182	1240
	B																					

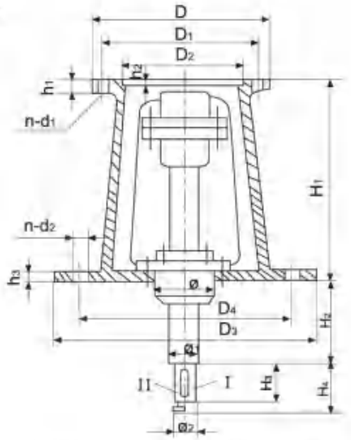
注：图示所注“h”仅与本样本BLY系列减速机相配，如选用其他型号减速机，“h”需另行计算。

Note: “h” noted in the figure is used only for BLY series reducer of this catalogue, “h” must be calculate aside if selecting other type reducers.

(十)J 型单支点机架、DXJA 型机架
J type single-support frame, DXJA type frame



J型单支点机架 J type single-support frame



DXJA机架 DXJA type frame

J 型单支点机架主要参数与尺寸 Primary parameter and dimension of J type single-support frame

机架型号 frame type	减速机型号 reducer type	D	D1	D2(H9)	D3(H9)	D4	D5	n1-d1	n2-d2	H	H1	H2	H3	H4	H5	H6	H7	H8
J2	B18	260	230	200	295	350	392	6-14	4-24	568	301	159	89	74	20	17	70	483
J3	B22	340	310	270	345	400	442	6-14	4-24	675	358	178	101	81	37	20	82	578
J4-A	B27	400	360	316	350	420	460	8-18	6-20	720	384	211	123	92	19	22	83	601
J4	B27	400	360	316	435	500	548	8-18	8-30	736	384	215	123	92	25	28	120	613
J5	B33	490	450	400	440	550	600	12-22	12-22	835	363	280	150	130	44	40	142	685
J6	B39	580	520	455	500	550	600	12-22	12-22	928	380	350	187	163	46	40	156	739

机架型号 frame type	减速机型号 reducer type	d1	d2	d3	M0	m (kg)	b	t	t1	t2	h1	h2
J2	B18	45	45	43	M50x2	50	14	48.5	6	5	20	23
J3	B22	55	55	63	M65x2	65	16	59	6	5	20	24
J4-A	B27	70	65	68	M70x2	70	20	74.5	7	5	22	24
J4	B27	70	70	72	M75x2	75	20	74.5	7	5	22	26
J5	B33	90	90	95	M100x2	100	25	95	8	7	26	28
J6	B39	100	100	105	M100x2	110	28	106	10	7	28	30

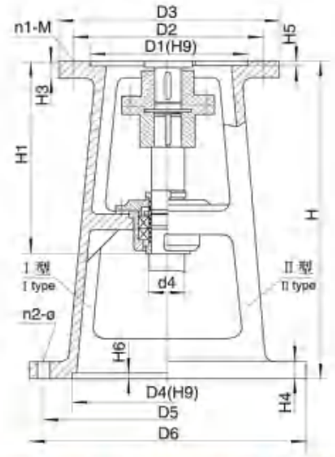
DXJA型单支点机架主要参数与尺寸 Primary parameter and dimension of DXJA type single-support frame

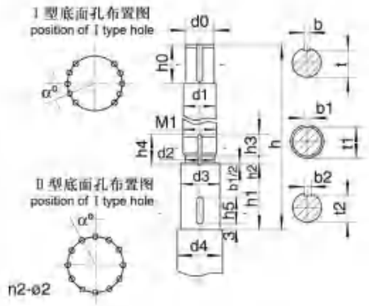
机架型号 frame type	减速机型号 reducer type	输入端接口 input end						输出端接口 output end				Ø	Ø1	Ø2	H1	H2	H3	H4	A
		D	D1	D2(H9)	h1	h2	n-d1	D3	D4	n-d2	h3								
DXJA0	B12	190	160	140	16	5	4-12	250	210	3-12	16	105	45	30	260	200	34	70	38
DXJA1	B15	230	200	170	16	5	6-12	290	260	4-12	16	105	45	35	310	200	47	85	38
DXJA2	B18	260	230	200	20	6	6-14	345	300	3-18	20	116	50	45	350	200	57	100	39
DXJA3	B22	340	310	270	22	6	6-14	440	400	4-20	22	134	60	55	440	250	77	100	43
DXJA4	B27	400	360	316	22	7	8-18	440	400	6-20	22	160	75	70	521	250	87	130	46
DXJA5	B33	490	450	400	25	7	12-22	600	550	8-22	28	236	100	90	540	300	107	170	62
DXJA6	B39	580	520	455	28	10	12-22	600	560	12-22	30	250	110	100	624	350	130	170	
DXJA7	B45	650	590	520	30	12	12-27	700	650	12-22	30	275	120	110	724	400	142	200	
DXJA8	B55	880	800	680	30	12	12-37	880	810	20-27	37	310	140	130	818	450	202	225	

注：1. Ⅰ型为 JA 型联轴器联接 Ⅰ type is JA type coupling connection
2. Ⅱ型为夹壳式联轴器联接 Ⅱ type is split coupling connection
3. 如用户对输出轴长度有特殊要求，请在订货时说明 Please show in order if you have special request to output shaft length

TAILONG MACHINERY

(十一)DJ、LDJ 型机架尺寸 Frame size of DJ、LDJ type decelerator



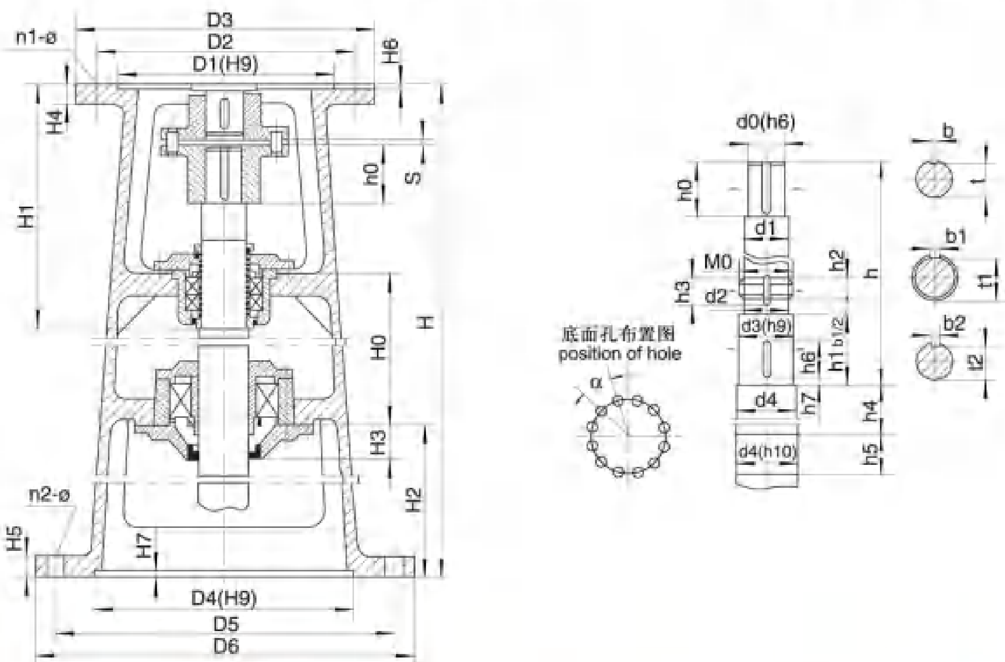


机架型号 frame work type	减速机型号 reducer type	输入端接口 reducer interface				输出端接口 output end					H1	H3	H5	H4	H6
		D1	D2	D3	n1-M	D4	D5	D6	a	n-ø					
DJ(LDJ)30 A/B	B12 B15	140 170	160 200	190 230	4-M10 6-M10	240	285	315	Ⅰ 20 Ⅱ 30	10-ø14 12-ø14	320	15	20	6	6
DJ(LDJ)35A	B15	170	200	230	6-M10	260	320	360	Ⅰ 20 Ⅱ 30	10-ø14 12-ø14	334	15	20	6	6
DJ(LDJ)40A	B18	200	230	260	6-M12	260	320	360	Ⅰ 20 Ⅱ 30	10-ø14 12-ø14	334	15	20	6	6
DJ(LDJ)45A	B18	200	230	260	6-M12	260	320	360	Ⅰ 20 Ⅱ 30	10-ø14 12-ø14	338	15	20	6	6
DJ(LDJ)55A	B22	270	310	340	6-M12	325	400	435	30	12-ø14	372	20	24	7	6
DJ(LDJ)65A	B27	316	360	400	8-M16	350	420	460	30	12-ø18	447	22	24	7	6
DJ(LDJ)70A	B27	316	360	400	8-M16	350	420	460	30	12-ø18	447	22	24	7	8
DJ(LDJ)80 A/B	B27 B33	316 400	360 450	400 490	8-M16 12-M20	380	455	495	30	12-ø18	495	22	28	7	8
DJ(LDJ)90A	B33	400	450	490	12-M20	430	510	555	30	12-ø23	519	25	28	7	8
DJ(LDJ)100A	B39	455	520	580	12-M20	480	560	600	22.5	16-ø23	535	25	28	10	10
DJ(LDJ)110A 120A	B45	520	590	650	12-M24	560	650	700	22.5	16-ø27	660	30	35	12	10
DJ(LDJ)130A 140A	B55	680	800	880	12-M30	720	810	880	18	20-ø27	790	38	40	12	12
DJ(LDJ)150	B65	760	920	1000	12-M30	840	940	1020	22.5	16-ø33	790	45	45	14	12
DJ(LDJ)160	B65	760	920	1000	12-M30	840	940	1020	22.5	16-ø33	810	50	50	14	12
DJ(LDJ)180	X12	900	1020	1160	8-M36	970	1080	1160	18	20-ø33	910	50	50	14	12

机架型号 frame work type	输入端接口 primary shaft extension end										输出端接口 output shaft extension end									DJ型 DJ type		LDJ型 LDJ type	
	h	h0	h1	h2	h3	h4	h5	d0(h9)	α	d2	M	d3(h9)	d4	b	t	b1	t1	b2	t2	H	重量 weight	H	重量 weight
DJ(LDJ)30 A/B	258 254	58	103	3	13	22	30	30	32	32.8	M35X1.5	35	40	8	26	6	31	6	31.5	550	46	700	54
DJ(LDJ)35A	260	58	113	3	15	24	40	35	42	42.8	M45X1.5	45	50	10	30	6	41	6	41.5	600	79	750	89
DJ(LDJ)40A	241	74	113	3	15	24	40	40	42	42.8	M45X1.5	45	50	12	35	6	41	6	41.5	600	79	750	89
DJ(LDJ)45A	245	74	113	3	15	28	40	45	47	47.8	M50X1.5	50	65	14	39.5	8	46	8	46	600	84	750	94
DJ(LDJ)55A	280	81	118	4	15	28	40	55	57	57	M60X2	60	65	16	49	8	56	8	56	660	151	760	157
DJ(LDJ)65A	327	92	143	4	18	32	50	65	71	72	M75X2	75	80	18	58	10	69	10	70	720	171	870	181
DJ(LDJ)70A	327	92	143	4	18	32	50	70	72	72	M75X2	75	80	20	62.5	10	69	10	70	720	171	870	181
DJ(LDJ)80 A/B	374 349	96	163	4	18	32	60	80	82	82	M85X2	85	90	22	71	10	79	10	80	785	209	935	219
DJ(LDJ)90A	373	129	168	4	20	36	60	90	92	92	M95X2	95	110	25	81	12	89	12	90	805	266	955	276
DJ(LDJ)100A	354	126	178	4	24	42	60	100	112	112	M115X2	115	125	28	90	14	109	14	109.5	820	347	1020	362
DJ(LDJ)110A	462	159	178	4	24	42	60	110	112	112	M115X2	115	125	28	100	14	109	14	109.5	1100	533	1150	537
DJ(LDJ)120A	462	159	178	4	24	42	60	120	122	122	M125X2	125	140	32	109	14	119	14	119.5	1100	553	1150	557
DJ(LDJ)130A	577	202	208	4	28	46	70	130	135	137	M140X2	140	150	32	119	14	132	14	134.5	1200	723	1400	754
DJ(LDJ)140A	577	202	208	4	28	46	70	140	145	147	M150X2	150	160	36	128	16	142	16	144	1200	743	1400	774
DJ(LDJ)150	525	210	208	4	32	46	70	150	155	156	M160X2	160	170	36	138	16	152	16	154	1200	765	1400	798
DJ(LDJ)160	545	210	227	4	32	50	80	160	165	166	M170X2	170	180	40	147	16	162	16	164	1200	780	1400	820
DJ(LDJ)180	530	235	242	4	36	56	90	180	185	186	M190X2	190	200	45	165	18	180	18	182	1280	887	1400	933

TAILONG MACHINERY

(十二) SJ、LSJ 型机架尺寸 Frame size of SJ、LSJ type decelerator



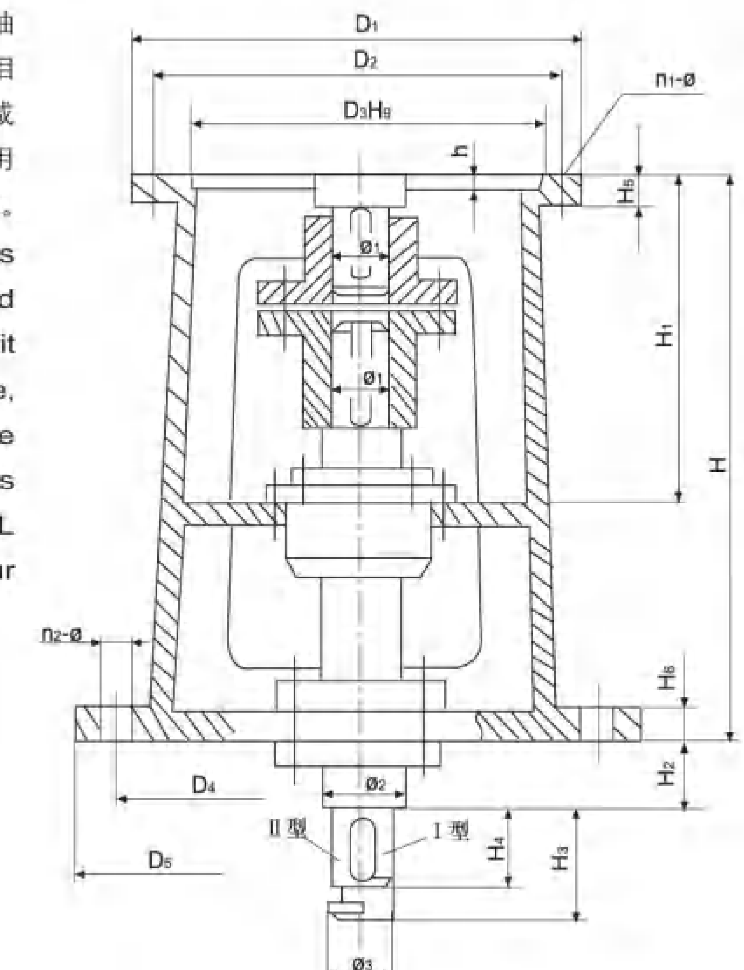
frame work type	type	D1	D2	D3	n1-ø	D4	D5	D6	α°	n2-ø	s	H0	H1	H3	H4	H5	H6	H7	d0(h1)	d1	d2
		reducer inlet flange				stand edge															
SJ(LSJ)35	B15	170	200	230	6-M10	260	320	360	30	12-ø14	2	388	335	43	18	22	18	6	35	42	42.8
SJ(LSJ)45	B18	200	230	260	6-M12	260	320	360	30	12-ø14	2	388	338	56	18	22	18	6	45	47	47.8
SJ(LSJ)55A	B22	270	310	340	6-M12	325	400	435	30	12-ø14	2	425	402	58	20	24	6	6	55	57	57
SJ(LSJ)65A	B27	316	360	400	8-M16	350	420	460	30	12-ø18	3	428	487	58	22	24	6	6	65	72	72
SJ(LSJ)70A	B27	316	360	400	8-M16	350	420	460	30	12-ø18	3	428	487	58	22	24	6	6	70	72	72
SJ(LSJ)80 A B	B27 B33	316 400	360 450	400 490	8-M16 12-M20	380	455	495	30	12-ø23	3	428	545	60	25	28	7	8	80	81	82
SJ(LSJ)90A	B33	400	450	490	12-M20	430	510	555	30	12-ø23	3	567	569	69	25	35	7	8	90	91	92
SJ(LSJ)100A	B39	455	520	580	12-M20	480	560	600	22.5	16-ø23	3	563	685	78	30	40	10	10	100	111	112
SJ(LSJ)110A	B45	520	590	650	12-M24	560	650	700	22.5	16-ø27	4	557	685	78	36	42	11	10	110	111	112
SJ(LSJ)120A	B45	520	590	650	12-M24	560	650	700	22.5	16-ø27	4	557	685	84	36	42	11	10	120	122	122
SJ(LSJ)130A	B55	680	800	880	12-M30	720	810	880	18	20-ø27	4	596	761	81	40	43	11	10	130	135	137
SJ(LSJ)140A	B55	680	800	880	12-M30	720	810	880	18	20-ø27	4	596	761	90	40	43	11	10	140	145	147
SJ(LSJ)150A	B65	760	920	1000	12-M30	840	940	1020	22.5	16-ø33	4	650	761	66	45	45	14	10	150	155	156
SJ(LSJ)160A	B65	760	920	1000	12-M30	840	940	1020	22.5	16-ø33	4	650	780	71	50	50	14	12	160	165	166
SJ(LSJ)180	X12	900	1020	1160	8-M36	970	1080	1160	18	20-ø33	4	650	910	71	50	50	14	12	180	185	186

frame work type	d3	d4	h	h0	h1	h2	h3	h4	h5	h6	h7	M0	t	b	t1	b1	t2	b2	SJ type H	SJ type H2	SJ type weight (kg)	LSJ type H	LSJ type H2	LSJ type weight (kg)
SJ(LSJ)35	45	50	261	58	113	15	24	291	85	40	3	M45X1.5	30	10	41	6	41.5	8	970	316	130	1120	466	150
SJ(LSJ)45	50	65	245	74	113	15	28	288	100	40	3	M50X1.5	39.5	14	46	8	46	8	970	316	150	1120	466	170
SJ(LSJ)55A	60	65	303	80	118	15	24	296	130	40	3	M60X2	49	16	56	8	56	8	1070	312	170	1220	462	186
SJ(LSJ)65A	75	80	370	95	143	18	32	284	135	50	3	M75X2	58	18	69	10	70	10	1140	307	261	1290	457	277
SJ(LSJ)70A	75	80	370	95	143	18	32	284	135	50	3	M75X2	62.5	20	69	10	70	10	1140	307	261	1290	457	277
SJ(LSJ)80 A B	85	90	428 402	95	163	18	32	260	145	60	3	M85X2	71	22	79	10	80	10	1230	354	372	1380	504	388
SJ(LSJ)90A	95	110	426	115	168	20	36	390	162	60	3	M95X2	81	25	89	12	90	12	1400	363	427	1550	513	447
SJ(LSJ)100A	115	125	500	135	178	24	42	370	182	60	3	M115X2	91	28	109	14	109.5	14	1510	367	515	1710	567	542
SJ(LSJ)110A	115	125	497	145	178	24	42	366	182	60	3	M115X2	100	28	109	14	109.5	14	1510	373	621	1710	573	642
SJ(LSJ)120A	125	140	497	145	178	24	42	354	192	60	3	M125X2	109	32	119	14	119.5	14	1510	373	641	1710	573	662
SJ(LSJ)130A	140	150	531	205	208	28	46	364	205	70	3	M140X2	119	32	132	14	134.5	14	1610	374	994	1810	574	1021
SJ(LSJ)140A	150	160	531	205	208	28	46	370	205	70	3	M150X2	128	36	142	16	144	16	1610	374	1020	1810	574	1047
SJ(LSJ)150	160	170	496	210	208	32	46	370	205	70	3	M160X3	138	36	152	16	154	16	1660	400	1050	1860	600	1110
SJ(LSJ)160	170	180	515	210	227	32	50	340	215	80	3	M170X3	147	40	162	16	164	16	1660	400	1060	1860	600	1120
SJ(LSJ)180	190	200	530	235	242	36	56	310	230	90	3	M190X3	165	45	180	18	182	18	1710	400	1220	1920	600	1260

(十三)ST 型双支点机架 ST type double-support frame

本系列机架适用于常压容器，双支点轴承，搅拌轴旋转平稳可靠与其它双支点相比，结构紧凑外形尺寸小，标定型号以减速机输出轴直径为主参数，上联轴器采用 HL 型弹性柱销联轴器，由我厂配套供应。

The series frame is used for normal press case, double-support bearing. Mixed shaft works smoothly and triedly, when it compare with other double-support frame, it has well-knitted structure, small shape dimension. Primary parameter of type is output shaft diameter. Up coupling is HL type spring cylinder pin coupling of our factory.



ST 型双支点机架技术参数及尺寸

Technical parameter and dimension of ST type double-support frame

frame type	reducer type	D1	D2	D3	n1-Ø	D4	D5	n2-Ø	Ø1	Ø2	Ø3	h	H	H1	H2	H3	H4	H5	H6	H8
ST35	B1	230	200	170	6-12	300	335	4-18	35	45	35	5	517	175	200	85	47	47	18	20
ST45	B2	260	230	200	6-12	350	392	4-18	45	50	45	5	560	209	200	100	57	57	20	22
ST55	B3	340	310	270	6-13.5	400	442	4-20	55	60	55	6	635	215	250	100	77	77	20	24
ST70	B4	400	360	320 316	8-16	500	548	8-22	70	75	70	6	736	253	250	130	87	87	22	26
ST90	B5	490	450	400	12-18	550	600	12-22	90	100	90	7	805	341	300	170	107	107	26	28
ST100	B6	580	520	455 460	12-22	550	600	12-22	100	110	100	10	820	358	300	170	112	112	30	30
ST110	B7	650	590	520	12-22	650	700	16-27	110	120	110	12	1100	455	400	200	142	142	30	35
ST130	B8	880	800	680	12-37	810	880	20-27	130	140	130	12	1200	460	450	225	202	202	38	40

注：①Ⅰ型为 JA 型联轴器联接　Ⅰ type is JA type coupling connection

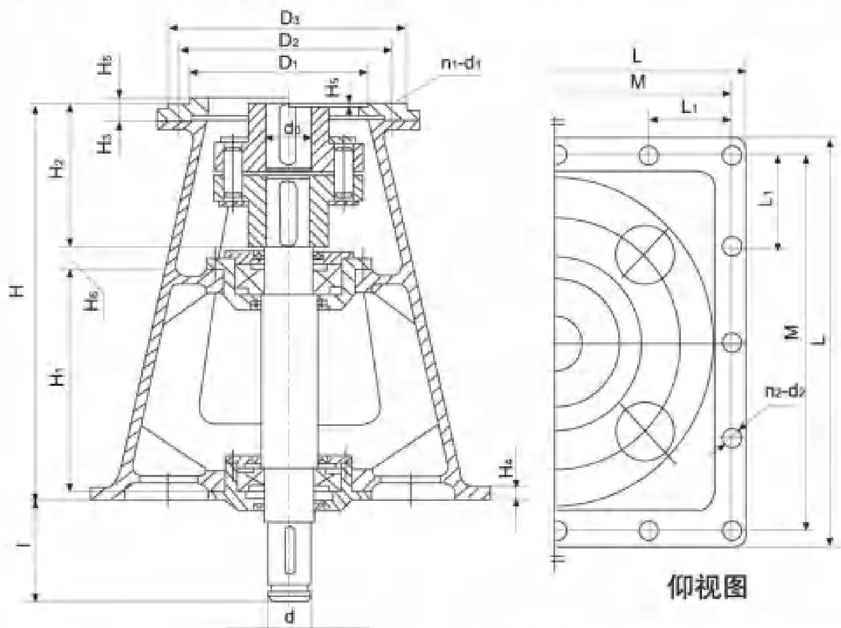
②Ⅱ型为夹壳式联轴器联接　Ⅱ type is split coupling connection

③如用户对输出轴有特殊要求请在订货时说明　Please show in order if you have special request to output shaft

(十四)FZ 型双支点方底板机架 FZ type double-support quadrate frame

本系列机架适用于常压容器，轴出端接口为方形底板，尺寸较大安装坚固、平稳。标定型号以减速机输出轴直径为主参数，A 表示与摆线针轮减速机相配，B 表示与齿轮减速机相配。机座供货时含短轴和联轴器。

The series frame is used for normal press case. Outlet edge is quadrate, big dimension firm and balanced installation. Primary parameter of type is output shaft diameter. A is for cycloidal pin wheel decelerator, B is for gear reducer supplied frame includes short shaft and coupling.



FZ 型双支点底板机架主要参数及尺寸 Primary parameter and dimension

type	norm dimension						inlet edge					outlet edge										
	H_2	H_3	H_4	H_5	H_8	I	D_1	D_2	D_3	d_0	n_1-d_1	L	L_1	M	d	n_2-d_2	H	H_1	weight	H	H_1	weight
FZ25A				4			130	160	180	25	6-M8				30							
FZ30A/B	130	20	25	5 / 4	80	100	140 / 200	160 / 230	190 / 260	30	4-M10 / 6-M12	400	170	340	35	8-□14	630	380	167 kg	800	550	198 kg
FZ35A	180			5	30		170	200	230	35	6-M10				40							
FZ40B				4			230	260	290	40	6-M12				45							
FZ45A				5			200	230	260	45	6-M10				50							
FZ50B				5			270	305	340	50	8-M16	585	175	525	55	12-□18	750	440	383	950	640	460
FZ55A/B	220	20	30	6 / 5	45	130	270	310 / 305	340	55	6-M10 / 8-M16				60							
FZ65A				6			316	360	400	65	8-M12				70							
FZ70A/B	280	25	30	6 / 5	50	200	316 / 320	360	400	70	8-M12 / 8-M16	800	240	720	75	12-□22	900	520	547	1100	720	656
FZ80A/B	340			6 / 5	95		345 / 360	390 / 410	430 / 460	80	8-M16 / 8-M20				85							
FZ90A				7			400	450	490	90	12-M16	1060	250	1000	95	16-□22	1060	600	980	1360	900	1100
FZ95A	400	30	40	9	35	250	455	520	580	95					100							
FZ100A/B				9 / 5			455 / 470	520	580	100	12-M20				110							
FZ110A				11			520	590	650	110	12-M20				120							
FZ130A/B	450	40	45	11 / 9	45	300	680	800	880	130	12-M30	1260	300	1200	140	16-□22	1200	668	1600	1600	1068	1896
FZ140				11 / 9			680	800	880	140	12-M30				150							
FZ150	520	45	50	14 / 10	50	340									160							
FZ160				14 / 10								1470	350	1400	180	20-□27	1400	780	2000	1800	980	2395
FZ180	580	50	55	14 / 10	60	370						1670	400	1600	200	20-□33	1600	900	2500	2000	1100	2800

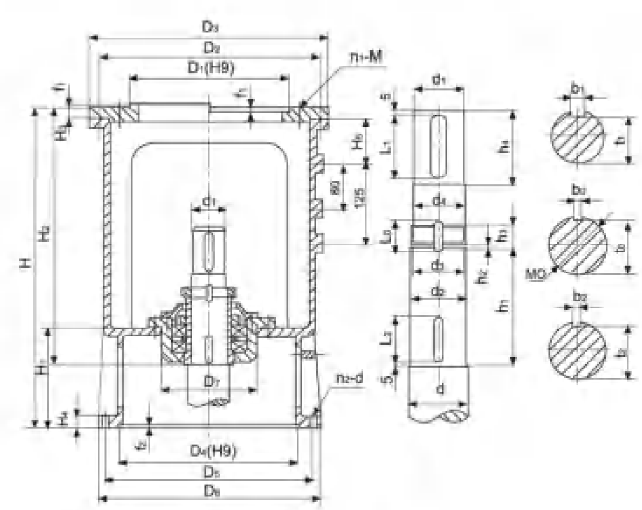
TAILONG MACHINERY

(十五)XD、XS 型机架（HG21566、21567-95）

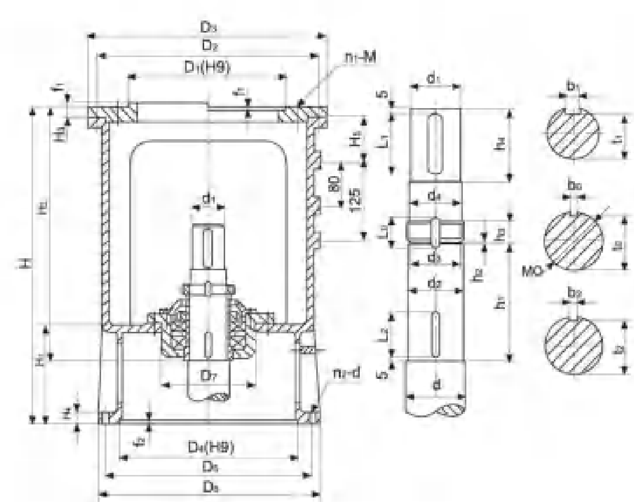
XD, XS type frame (HG21566, 21567-95)

本系列机架是化工行业最新标准机架，是为搅拌传动装置（HG21563-95）配套的机架，XD 型为单支点机架，减速机出轴用 DF 型联轴器与搅拌轴联接。XS 型为双支点机架，减速机出轴用 HL 型联轴器联接，两支点间用 DF 型联轴器联接，机架分 A 型（轴封采用 2001、2003、2004、2006 型机械密封）和 B 型（轴封采用 2002、2005、2007 型机械密封或 506、516、606、616 型填料箱）。机架输出端接口可与第 I 部分（二）节所列的安装底盖及釜口法兰联接。本系列机架通用性强，由于选用 DF 型联轴器及安装底盖的搁轴装置，所以在不拆除减速机和机架的条件下，在机架的侧面窗口中就可以拆出带短节联轴器、轴承室及机械密封或填料箱。

This series frame which matched with the mixers device (HG21563-94) is the latest standard of chemical lines. The XD type is a single support frame and the extend shaft of decelerator is coupling with mixer. The XS type is a double supporter shelf and the decelerator's shaft end is coupling with HL type and the two support point is coupling with DF. The shelves have A type (the shaft is sealed in 2001, 2003, 2004, 2006 or 2008 type machinery sealing) and B type (the shaft is sealed in 2002, 2005, 2007 type machinery sealing or 506, 516, 606, 616 type add-material machine). The output frame junction point could be coupling mounted and the cauldron flange. This series frames have strong common used. We selected DF coupling and the shaft mounted low head. So we could take out the short coupling without removing reducers and shelf bearing housing.



XD 型单支点机架
公称直径为 200、250、300mm 的 A 型和 B 型
A and B type of XD type single-support frame
Nominal diameter is 200, 250, 300mm



XD 型单支点机架
公称直径为 400、500、700、900mm 的 A 型和 B 型
A and B type of XD type single-support frame
Nominal diameter is 400, 500, 700, 900mm

型号标注方法及示例： Method and example of earmark

例 1 XD3 - 60 A 40 C
例 2 XS4 - 90 B 65 Z

- 减速机类型（见后备注） — the reducer type
- 减速机输出轴径 d0 — the output shaft diameter
- 机架型式（A 型、B 型） — frame type
- 传动轴轴径 — the transmission shaft diameter
- 机架型号 — the frame size

XD 型单支点机架主要参数及尺寸（公径直径 200、250、300）

Primary parameter and dimension of XD type single-support frame (nominal diameter 200, 250, 300)

机架型号 frame type	机架公称直径 nominal diameter	传动轴轴径 d shaft diameter	传动轴上端轴径 d_1 ascending shaft diameter	减速机输出轴径 d_0 output shaft diameter	输入端接口 inlet edge	输出端接口 outlet edge					外形及其它尺寸 shape and other dimension										轴承型号 bearing type	重量 weight	
						D_4 H_9	D_5	D_6	n_2-d	f_2	A 型			B 型			H_3	H_4	H_5	D_7		A 型	B 型
											H	H_1	H_2	H	H_1	H_2							
XD1	200	30	20	12	见后表 see next list	245	295	340	8-22	6	575	220	415	730	295	495	17	24	85	180	46209	57	61
				14																			
				18																			
		40	30	25									415			495					46209	57	61
				30																			
XD2	250	50	40	30		290	350	395	12-22	6	750	268	556	995	388	681	20	30	100	245	46214	106	116
				35																			
				40																			
		60	45	35									556			681					46214	107	117
				40																			
				45																			
				45																			
		70	55	50									565			690					46216	104	114
				55																			
XD3	300	60	45	35		320	400	445	12-22	6	795	279	595	1040	399	720	20	30	100	280	46216	150	161
				40																			
				45																			
		70	55	45									595			720					46217	153	164
				50																			
				55																			
		80	65	55									606			731					46216	149	160
				60																			
				65																			

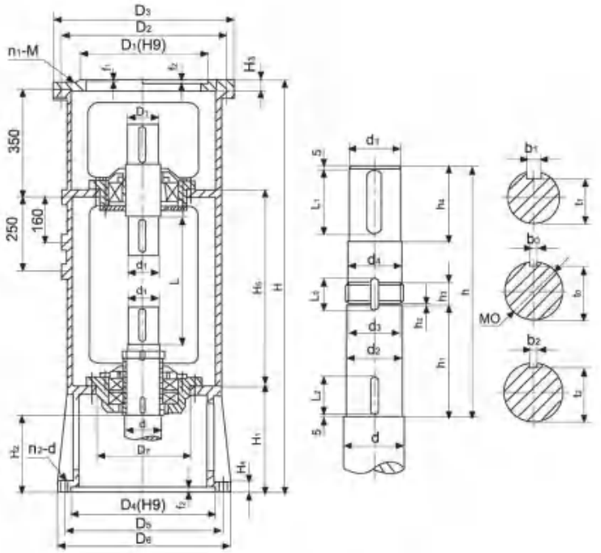
机架型号 frame type	机架公称直径 nominal diameter	传动轴轴径 d shaft diameter	传动轴上端轴径 d_1 ascending shaft diameter	传动轴轴端尺寸 shaft end dimension of drive shaft																	
				M_0	$d_2(h_9)$	d_3	d_4	h_1	h_2	h_3	h_4	L_1	L_0	L_2	$b_2(N_9)$	b_0	$b_2(N_9)$	t_1	t_0	t_2
XD1	200	30	20k6	M25x1.5	25	22.8	22	97	3	15	48	40	23	30	6	5	5	16.5	21	22
		40	30k6	M35x1.5	35	32.8	32	97	3	15	48	40	24	30	8	6	6	26	31	31.5
		50	40k6	M45x1.5	45	42.8	42	105	3	15	58	50	24	30	12	6	6	35	41	41.5
XD2	250	60	45k6	M55x2	55	52	50	115	4	18	68	60	30	40	14	8	8	39.5	51	51
		70	55m6	M65x2	65	62	60	125	4	18	83	75	30	40	16	8	8	49	61	61
		60	45k6	M55x2	55	52	50	125	4	18	68	60	30	40	14	8	8	39.5	51	51
XD3	300	70	55m6	M65x2	65	62	60	125	4	18	83	75	30	40	16	8	8	49	61	61
		80	65m6	M75x2	75	72	70	139	4	18	98	90	32	50	18	10	10	58	69	70

XD 型单支点机架主要参数及尺寸（公称直径 400、500、700、900）

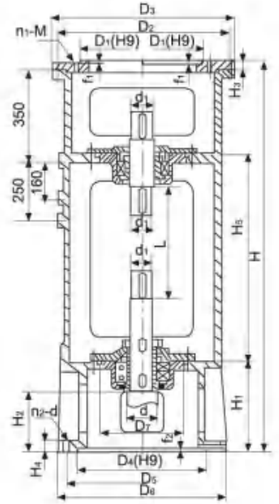
Primary parameter and dimension of XD type single-support frame (nominal diameter 400, 500, 700, 900)

机架型号 frame type	机架公称直径 nominal diameter	传动轴轴径 d shaft diameter	传动轴上端轴径 d_1 ascending shaft diameter	减速机输出轴径 d_0 output shaft diameter	输入端接口 inlet edge	输出端接口 outlet edge					外形及其它尺寸 shape and other dimension										轴承型号 bearing type	重量 weight	
						D_4 H_9	D_5	D_6	n_2-d	f_2	A 型			B 型			H_3	H_4	H_5	D_7		A 型	B 型
											H	H_1	H_2	H	H_1	H_2							
				55																			
		90	75	65									691			806					46222	251	265
				70																			
XD4	400			65		415	515	565	16-26	6	890	310		1105	420		25	35	100	310			
		100	85	70									691			806					46222	256	270
				80																			
				65																			
		100	85	70									821			946					46224	409	435
				80																			
				70																			
		110	90	80									821			946					46224	405	431
XD5	500			90		520	620	670	20-26	6	1075	369		1325	494		30	40	140	335			
				90																			
		120	100	95									829			954					46228	401	427
				100																			
				95																			
		130	110	100									829			954					46228	395	421
				110																			
				90																			
		120	100	95									909			1024					46228	729	766
				100																			
				95																			
XD6	700	130	110	100	见后表 see next list								909			1024					46228	721	758
				110																			
				100		670	780	830	28-26	6	1185	399		1415	514		35	45	100	400			
		140	120	110									927			1042					46232	729	766
				120																			
				120																			
		160	140	130									943			1058					46234	697	734
				140																			
				100																			
		140	120	110									1021			1141					46232	985	874
				120																			
				120																			
		160	140	130									1037			1157					46234	1000	889
XD7	900			140		940	1070	1124	40-30	6.4	1320	440		1560	570		40	50	140	520			
				140																			
		180	160	150									1050			1170					46240	1010	899
				160																			
				160																			
		200	180	170									1070			1190					46244	1032	921
				180																			

机架型号 frame type	机架公称直径 nominal diameter	传动轴轴径 d shaft diameter	传动轴上端轴径 d1 ascending shaft diameter	传动轴轴端尺寸 shaft end dimension of drive shaft																
				M_0	$d_2(h_2)$	d_3	d_4	h_1	h_2	h_3	h_4	L_1	L_0	L_2	$b_1(N_2)$	b_0	$b_2(Ng)$	t_1	t_0	t_2
XD4	400	90	75m6	M85x2	85	82	80	162	4	18	108	100	32	50	20	10	10	67.5	79	80
		100	85m6	M95x2	95	92	90	166	4	22	118	110	38	50	22	12	12	76	89	90
XD5	500	100	85m6	M95x2	95	92	90	166	4	22	118	110	38	50	22	12	12	76	89	90
		110	90m6	M100x2	100	97	95	166	4	22	118	110	38	50	25	12	12	81	94	95
		120	100m6	M110x2	110	107	105	177	4	22	128	120	40	60	28	14	14	90	104	104.5
		130	110m6	M120x2	120	117	115	177	4	26	138	130	44	70	28	14	14	100	114	114.5
XD6	700	120	100m6	M110x2	110	107	105	177	4	22	128	120	40	60	28	14	14	90	104	104.5
		130	110m6	M120x2	120	117	115	177	4	26	138	130	44	70	28	14	14	100	114	114.5
		140	120m6	M130x2	130	127	125	197	4	26	153	145	44	70	32	14	14	109	122	124.5
		160	140m6	M150x2	150	147	145	207	4	30	168	160	50	70	36	16	16	128	142	144
XD7	900	140	120m6	M130x2	130	127	125	197	4	26	153	145	44	70	32	14	14	109	122	124.5
		160	140m6	M150x2	150	147	145	207	4	30	168	160	50	70	36	16	16	128	142	144
		180	160m6	M170x3	170	166	165	227	4	32	198	190	52	80	40	16	16	157	162	164
		200	180m6	M190x3	190	186	185	242	4	32	230	230	54	90	45	18	18	175	180	182



XS 型双支点机架
公称直径为 300mm 的 A 型和 B 型
XS type double-support frame
A and B type of 300mm nominal diameter



XS 型双支点机架
公称直径为 400、500、700、900mm 的 A 型和 B 型
XS type double-support frame
A and B type of 400, 500, 700, 900mm nominal diameter

XS 型双支点机架 XS type double-support frame

主要参数及尺寸（公称直径 300、400、500、700、900）

Primary parameter and dimension (Nominal diameter 300, 400, 500, 700, 900)

机架型号 frame type	机架公称直径 nominal diameter	传动轴轴径 d shaft diameter	传动轴上端轴径 d_1 ascending shaft diameter	减速机输出轴径 d_0 output shaft diameter	输入端要口 inlet edge	输出端要口 outlet edge				输出端要口尺寸 shape and other dimension												轴承型号 bearing type		重量 weight	
						D_4 H_9	D_5	D_6	n_2-d	f_2	A型					B型					H_3	H_4	D_7	上部	下部	A型	B型
											H	H_1	H_2	H_5	L	H	H_1	H_2	H_5	L						
XS3	300	60	45	30,40,50	见后表	320	400	445	12-22	6	1155	279	204	620	339	1400	399	324	745	429	20	32	280	153513	46216	196	207
		70	55	45,50,55									197	383	306			317	508	538				153516	46216	198	209
		80	65	55,60,65									186	413										153518	46218	203	214
XS4	400	90	75	55,65,70		415	515	565	16-26	6	1310	310	206	695	451	1535	420	316	810	566	25	34	310	153520	46222	343	357
		100	85	60,70,80									195	471				305		586				153524	46222	356	370
		100	85	65,70,80									255	471				380		586				153524	46224	546	572
XS5	500	110	90	70,80,90		520	620	670	20-26	6	1620	369	251	865	501	1870	494	376	990	646	30	36	335	153524	46226	561	587
		120	100	90,95,100									247	521				372		666				153528	46228	566	592
		130	110	90,100,110									234	569				359		694				153532	46230	578	604
		120	100	90,95,100									277	521				392		666				153528	46228	981	1018
XS6	700	130	110	95,100,100		670	780	830	28-26	6	1830	399	264	970	569	2060	514	379	1085	694	35	40	400	153532	46230	991	1028
		140	120	100,110,120									251	599				366		724				153534	46232	998	1035
		160	140	120,130,140									243	647				358		762				153538	46234	990	1027
		140	120	100,110,120									283	599				407		724				153534	46232		
XS7	900	160	140	120,130,140		940	1020	1124	40-30	6.4	2150	426	267	1180	647	2350	550	393	1250	762	40	50	490	153538	46234	1500	1600
		180	160	140,150,160									254	711				378		826				153540	46240		
		200	180	160,170,180									240	830				364		930				153544	46244		

机架型号 frame type	机架公称直径 nominal diameter	传动轴轴径 d shaft diameter	传动轴上端轴径 d_1 ascending shaft diameter	传动轴轴端尺寸 shaft end dimension of drive shaft																		
				M_0	$d_2(h_2)$	d3	d4	h	h1	h2	h4	h3	L1	L0	L2	b_1N_2	b0	b_2N_3	t1	t_0	t_2
XS3	300	60	45m6	M55x2	55	52	50	322	125	4	68	15	60	27	40	14	8	8	39.5	51	51
		70	55m6	M65x2	65	62	60	278	125	4	83	15	75	27	40	16	8	8	49	61	61
		80	65m6	M75x2	75	72	70	264	139	4	98	18	90	32	50	18	10	10	58	69	70
XS4	400	90	75m6	M85x2	85	82	80	322	162	4	108	18	100	32	50	20	10	10	67.5	79	80
		100	85m6	M95x2	95	92	90	317	166	4	118	22	110	38	50	22	12	12	76	89	90
		100	85m6	M95x2	95	92	90	490	166	4	118	22	110	38	50	22	12	12	76	89	90
XS5	500	110	90m6	M100x2	100	97	95	420	166	4	118	22	110	38	50	25	12	12	81	94	95
		120	100m6	M110x2	110	107	105	413	177	4	128	22	120	40	60	28	14	14	90	104	104.5
		130	110m6	M120x2	120	117	115	370	177	4	138	26	130	44	70	28	14	14	100	114	114.5
		120	100m6	M110x2	110	107	105	508	177	4	128	22	120	40	60	28	14	14	90	104	104.5
XS6	700	130	110m6	M120x2	120	117	115	465	177	4	138	26	130	44	70	28	14	14	100	114	114.5
		140	120m6	M130x2	130	127	125	468	197	4	153	26	145	44	70	32	14	14	109	122	124.5
		160	140m6	M150x2	150	147	145	441	207	4	168	30	160	50	70	36	16	16	128	142	144
		140	120m6	M130x2	130	127	125	468	197	4	153	26	145	44	70	32	14	14	109	122	124.5
XS7	900	160	140m6	M150x2	150	147	145	411	207	4	168	30	160	50	70	36	16	16	128	142	144
		180	160m6	M170x3	170	166	165	496	227	4	198	32	190	52	80	40	16	14	157	162	164
		200	180m6	M190x3	190	186	185	536	242	4	238	32	230	54	90	45	18	18	175	180	182

XD、XS 型机架输入端接口尺寸

Inlet edge dimension of XD, XS type frame

减速机输出轴径 d_0 Output shaft diameter	减速机类别代号 Reducer type	D1	D2	D3	n1-M	f1
12	Z	65	100	120	4-M6	3
14	Z	85	120	140	4-M8	3
18	Z	100	134	160	4-M8	4
25	Z	130	160	180	6-M8	4
	C	170	200	230	6-M10	3
30	C	200	230	260	6-M12	4
35	Z	170	200	230	6-M10	5
	C	230	260	290	6-M12	4
40	Z	170	200	230	6-M10	5
	C	230	260	290	6-M12	4
45	Z	200	230	260	6-M10	5
	C	230	260	290	6-M12	4
50	Z	200	230	260	6-M10	5
	C	270	305	340	8-M16	5
55	Z	270	310	340	6-M10	5
	C	270	305	340	8-M16	5
60	C	320	360	400	8-M16	5
65	Z	316	360	400	8-M12	6
	Z1	270	310	340	6-M10	5
	C	320	360	400	8-M16	5
70	Z	316	360	400	8-M16	6
	C	320/316	360	400	8-M16	5
80	Z	345	390	430	8-M16	6
	Z1	316	360	400	8-M12	6
	C	360	410	460	8-M20	6
90	Z	400	450	490	12-M16	8
	C	360	410	460	8-M20	6
95	Z	400	450	490	12-M16	8
	Z1	455	520	580	12-M20	10
100	Z	455	520	580	12-M20	10
	C	470	520	580	12-M20	6
110	Z	520	590	650	12-M20	12
	C	470	520	580	12-M20	6
120	Z	520	590	650	12-M20	12
	C	550	600	660	12-M20	6
130	Z	680	800	880	12-M30	12
	C	680	800	880	12-M30	8
140	Z	680	800	880	12-M30	12

注：1.减速机类别代号 Z 为 X 系列、B 系列的摆线针轮减速机及 CFL 型行星齿轮减速机;C 为 LC 型、DC 型齿轮减速机。
2.其它类型减速机由我公司对接口加以调整后也可配套。

Note: 1. The code name Z is X series reducers. B series cycloid gear reducer. The C series are LC type, DC type gear reducer.
2. Another reducer could also be assembled after adjusting the connection.

五、搅拌装置部件

Parts of chum-dasher

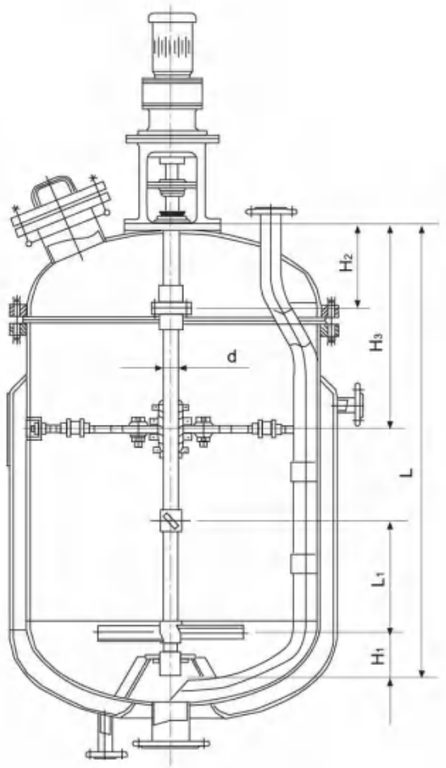
为方便设计和安装调试，在选用减速机、机架、联轴器、机械密封或填料箱、搅拌器后，可根据搅拌轴主参数d和L来选择搅拌轴，机架安装底平面以上的搅拌轴尺寸由我公司根据所选机架来协调，无须设计单位出图。

For be prone to design and install and debug decelerator, you can select milling shaft according to its primary parameter d and L, after selecting decelerator, frame, coupling, mechanical seals or packing box, agitators. The dimension of milling shaft over the installation bottom plane is harmonized by us according to the selected frame. It needn't design drawing by design department.

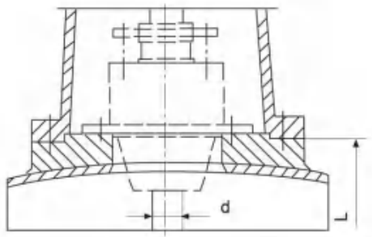
标注示例 Example of earmark

S□□d-L/L1/L2-H_1/H_2/H_3 □

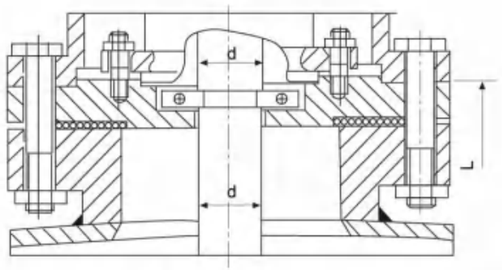
- 搅拌轴材质代号(见下表)
  Material code of milling shaft (see list)
- 中间轴承中点至机架安装平面距离(无中间轴承。则省略)
  Distance from middle of middle bearing to installation plane of frame. (no note, without middle bearing)
- 带釜内联轴器分界面至机架安装平面距离(无釜内联轴器，则省略)
  Distance from interface of coupling within the kettle to installation plane of frame. (no note without coupling within the kettle)
- 搅拌轴末端至最下层搅拌器中点距离
  Distance from the end of milling shaft to the middle of undermost agitators.
- L 为机架底平面至搅拌轴末端总长，LI、L2 为搅拌器之间距离(只有一层 L1，L2 省略二层的 L2 省略)
  L is the total length from the frame bottom plane to the end of milling shaft, L1, L2 is the distance of agitators. (L1 for only one layer, omit L2 without two layer)
- 搅拌轴直径
  Milling shaft diameter
- 搅拌轴釜内部分的联接形式(C：配 DT 型刚性凸缘联轴器；D：配 JQ 或 JJQ 型夹壳联轴器；E：带焊接法兰式联轴器；F：带整体法兰式联轴器；G：整体轴，无釜内联轴器)
  Joint form of milling shaft within the kettle (C: joint rigid flange coupling DT, D: joint split coupling JQ, JJQ E: joint welding flange coupling G: holistic shaft, without coupling)
- 搅拌轴型式(A：不带搁圈；B：带搁圈，上装式；C：带搁圈，下装式)
  Milling shaft form (A: without loop, B: with loop, installing uphill, C: with loop, installing adown)
- 搅拌轴代号
  Milling shaft code



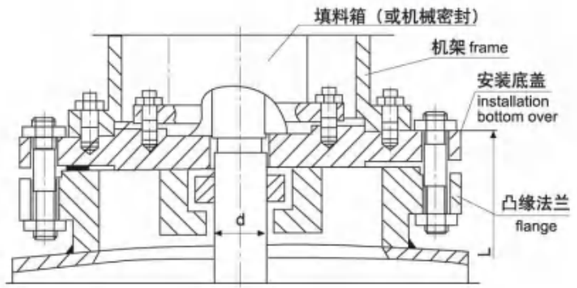
搅拌装置及SA型搅拌轴
Chum-dasher and SA type milling shaft



SA型搅拌轴
SA type milling shaft

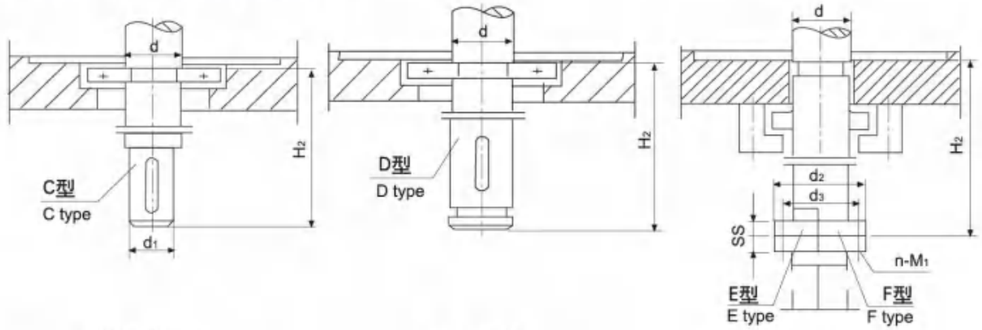


SB型搅拌轴
SB type milling shaft



SC型搅拌轴
SC type milling shaft

一、搅拌轴 Milling shaft



C型釜内轴头
C type shaft end within kettle

D型釜内轴头
D type shaft end within kettle

E、F型釜内轴头
E,F type shaft end within kettle

釜内轴头尺寸表肯 The list of shaft end within kettle

d	30	35	40	45	50	55	60	65	70	80	90	95	100	110	120	125	130	140	160
d1	25	30	35	04	45	50	55	60	65	75	85	90	90	100	110	115	120	125	140
d2	105	105	110	120	130	140	145	150	170	185	195	200	220	240	280	285	290	310	340
d3	70	70	755	85	95	105	110	115	125	140	150	155	170	190	210	215	220	235	265
S	25	25	25	25	25	30	30	30	35	35	35	35	40	40	45	45	45	50	60
n-M1	6-M12					6-M16			6-M20		8-M20		8-M24		8-M30			8-M36	
H2	250	250	250	250	350	350	480	480	480	550	580	580	650	700	750	800	800	900	1000

材料牌号表 The list of materical sign

代号 code	S1	S2	S3	S4
材料牌号 material sign	0Cr18Ni11Ti(321)(1Cr18Ni9Ti)	0Cr17Ni10Mo2(316)	0Cr19Ni9(304)	00Cr19Ni11(304L)
代号 code	S5	S6	S7	S8
材料牌号 material sign	00Cr17Ni14Mo2(316L)	0Cr18Ni12Mo2Ti(316Ti)	0Cr18Ni14Mo2Cul(316Cu)	0Cr19Ni13Mo3(317)
代号 code	T1	T2	T3	T4
材料牌号 material sign	Q235-A	20-35	20R 20g	45(c.s)
代号 code	T5	T6	T7	T8
材料牌号 material sign	16Mng 16ZMnR	15MnVg 15MnVR	20Cr	40Cr
代号 code	T9	T10	-	-
材料牌号 material sign	HT200	ZG35	-	-
代号 code	LP	LR	LF	LG
材料牌号 material sign	喷 PO	衬橡胶	衬聚四氟乙稀	衬玻璃钢
代号 code	LF	TA	-	-
材料牌号 material sign	搪玻璃	Ti(钛材)	-	-
代号 code	F4	R	CF	BF
材料牌号 material sign	聚四氟乙稀	柔性有墨	碳纤维	芳纶纤维
代号 code	AE	AF	-	-
材料牌号 material sign	油浸石棉	石棉浸渍四氟	-	-

二、安装底盖与凸缘法兰 Installation bottom cover and male flange

本系列安装底盖可与XD型、XS型机架及2000系列机械密封或506、516、606、616型填料箱相配套，底盖下面与R型、LR型、M型、LM型凸缘法兰相配套，用户可根据XD型、XS型机架及凸缘法兰的规格选择相应的安装底盖，若配用其他型号机架、机械密封、填料箱，只须将以下标记中序号换成外径 d_2，注上相应机架型号即可。

The series of installation bottom covers have been collocated with frame XD, XS and 2000 series machanical seal or packing box 506, 516, 606, 616, collocated with male flange R, LR, M, LM under it. User can select relevant cover according to the size of frame XD, XS and male flange. It must only be changing outer diameter d2 from the serial number next earmark, and note the relevant type of frame, if collocated other frame.

安装底盖标记示例:

Example of earmark installation bottom cover

□-□-□-□-□/□

- 衬里材料代号 / Material code of lining
- 底盖材料代号 / Material code of bottom cover
- 搅拌轴轴径 / Milling shaft diameter
- 机架型号 / Frame code
- 序号(1—7号，或d2) / Serial number (1st to 7st, or d2)
- 底盖型式(RS、LRS、RX、LRX、MS、LMS、MX或LMX) / Mode of bottom cover (RS, LRS, RX, LRX, MS, LMS, MX or LMX)

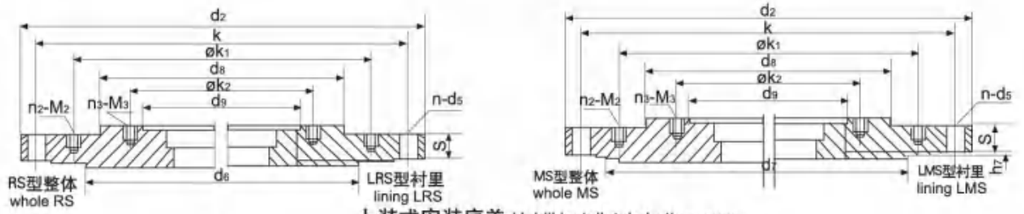
凸缘法兰标记示例:

Example of earmark male flange

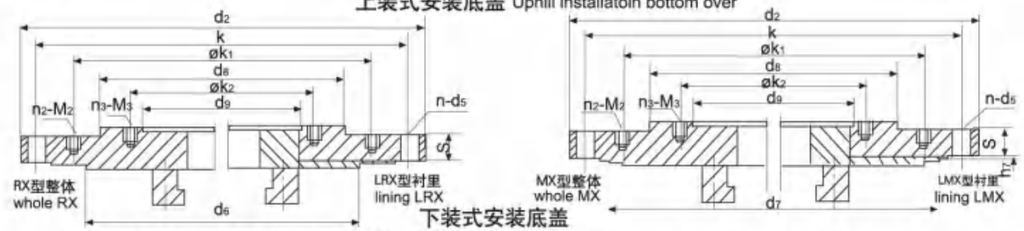
□-□-□/□

- 衬里材料代号 / Material code of lining
- 法兰材料代号 / Material code of flange
- 序号(1—7号，或d2) / Serial number (1st to 7st, or d2)
- 法兰型式(R、LR、M、LM) / Mode of flange (R, LR, M, LM)

TAILONG MACHINERY



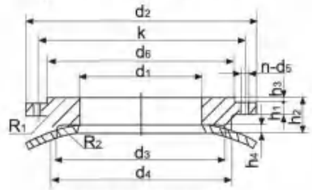
上装式安装底盖 Uphill installatoin bottom over



下装式安装底盖 Downhill installatoin bottom over

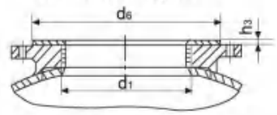
（与R、LR型凸缘法兰相配） join male flange R, LR

（与M、LM型凸缘法兰相配） join male flange M, LM

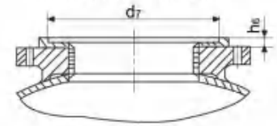


R型凸面缘法兰 Male surface flange R

M型凹面凸缘法兰 Female surface flange M



LR型凸面衬里凸缘法兰 Male surface lining flange LR



LM型凹面衬里凸缘法兰 Female surface lining flange LM

凸缘底盖厚度表(S) List of flange bottom cover ply

序号 No.	d_1	d_2	K	d_3	d_4	h_1	h_2	h_4	n-d_5	d_6	d_7	h_3	h_5	S	h_6	h_7	□K_1	n_2-M_2	d_8	机架型号 frame type	搅拌轴直径 d milling shaft diameter	d_9	□K_2	n_3-M_3
1	200	340	295	220	245	34	65	2	8-□22	266	250	4	4.5	40	10	5.5	-	-	245	XD1 XS1	30,35,40	110	145	4-M16
2	245	395	350	280	300	36	65	2	12-□22	320	304	4	4.5	40	10	5.5	-	-	290	XD2 XS2	45,50,55,60,65,70	176	210	8-M16
3	280	445	400	325	350	36	65	2	12-□22	370	354	4	5	50	10	6	-	-	320	XD3 XS3	70,80,85	204	240	8-M20
																	350	12-M20	290	XD2 XS2	90,95,100	234	270	8-M20
4	410	565	515	430	455	42	85	2	16-□27	481	462	4	5	50	12	6	400	12-M20	320	XD3 XS3	110,120,125,130	260	295	8-M20
																	-	-	415	XD4 XS4	140,150,160	313	350	12-M20
																	400	12-M20	320	XD3 XS3				
5	430	670	620	520	560	46	90	5	20-□27	585	566	4	5	65	12	12	515	16-M24	415	XD4 XS4				
																	-	-	520	XD5 XS5				
																	400	12-M20	320	XD3 XS3				
6	530	830	780	670	720	60	100	8	28-□27	745	725	4	5.5	82	12	6.5	515	16-M24	415	XD4 XS4				
																	620	20-M24	520	XD5 XS5				
																	-	-	670	XD6 XS6				
																	515	16-M24	415	XD4 XS4				
7	720	1045	990	800	920	68	110	15	36-□30	945	925	4	5.5	100	12	6.5	620	20-M24	520	XD5 XS5				
																	780	28-M24	670	XD6 XS6				

注：若配用其他型号机架及机械密封或填料箱，与其连接的相关尺寸：□K1、d8、□K2、d9、n2-M2、n3-M3，由我公司调整配套。 Note: The relevant joint dimension □K1, d8, □K2, d9, n2-M2, n3-M3 is adjusted by us, if selecting other frame mode and mechnical seal or packing box.

(三)U 系列及 V 系列凸缘底盖 Flange bottom cover U and V

凸缘底盖将通常的凸缘法兰和安装底盖合二为一，直接作为容器与搅拌装置的接口，结构简单紧凑，节约材料，减轻重量，特别是分体凸缘底盖，内外凸缘可分别用不同材质、在大型设备中，明显节约了投资，实际中应用广泛，另外凸缘下面开有排液孔，有利于机封等部件的清洗和维护。凸缘底盖还可以根据搅拌轴搁轴的需要，制成上装式和下装式。

Flange bottom cover is united by usual flange and installation bottom cover, as interface of case with chum-dasher. Simple achieve structure, retrench material, lighten weight, especially fissile flange bottom cover and inside and outside flange can be selected different material apart. It is obvious to retrench investment about large equipments. It has broad application in practice. Otherwise hole letted liquid under the male edge is make for cleanouting and maintenance seal etc. Flange bottom cover can be made into installation [uphill and downhill] as required of milling shaft, too.

凸缘底盖标记方法 Earmark procedure

□ □ X □ □ □/□

- 材料代号(若用两种材料，用斜杆隔开)
- Material code (use "/" if two materials)
- 搅拌轴直径
- Diameter of milling shaft
- 凸缘底盖厚度(见下表)
- Ply of flange bottom cover (see next list)
- 凸缘底盖外径(根据机架底法兰外圆直径而定)
- Outer diameter of flange bottom cover (confirm as circle diameter of frame bottom flange)

凸缘底盖分类代号：整体平底(UA)，整体凹底(UB)，衬里整体平底(UC)，衬里整体凹底(UD)，分体平底(VA)，分体凹底(VB) 若制成上装式，则各成：UAS,UBS,UCS,UDS,VAS,VBS。若制成下装则各成：UAX,UBX,UCX,UDX，VAX,VBX。

Code of flange bottom cover:
holistic even bottom (UA), holistic female bottom (UB), holistic even bottom with lining (UC), holistic female bottom with lining (UD), fissile even bottom (VA), fissile female bottom (VB). If be made into uphill installation, it is UAS, UBS, UCS, UDS, VAS, VBS. If be made into downhill installation, it is UAX, UBX, UCX, UDX, VAX, VBX.

选用说明 Instruction for selection

1、若配套本公司减速机、机械密封，只须按标记方法表示，及提供工艺操作的条件与容器封头的尺寸规格。也可以提供如图各尺寸数据及要求，委托我方加工生产。

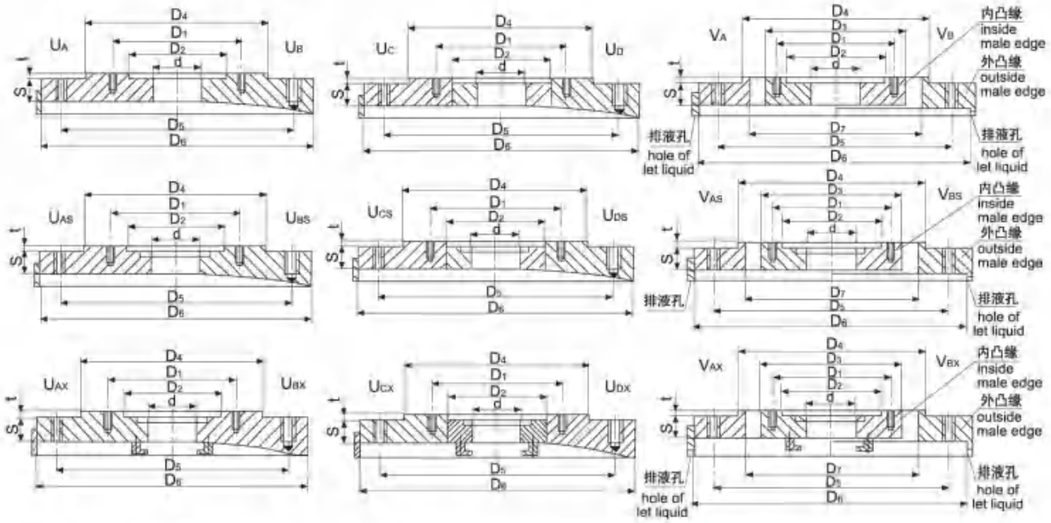
2、在容器上焊接凸缘底盖时须保证其安装面和容器轴心线的垂直度，采用分体凸缘时先校正好外凸缘位置精度再焊接，待安装上支架等整体搅拌装置后，校正内凸缘位置，点焊固定后运转无误再按工艺要求焊接。

1. If joint with our decelerator and mechanical seal, it only is clenoted as earmark procedure, supply condition of technics working and size of case seal, or supply diameter data and request as figure to leave us producing.

2. It must assure plumb degree of installation surface and axes line of case when welding flange bottom cover in case. First proofreading place precision of male edge then welding. After frame and whole chum-dasher is installed, we proofread male edge place. We weld as technics request without error working after welding for fixation.

凸缘底盖厚度表(S) List of flange bottom cover ply

公称压力 nominal pressure / 凸缘底盖外径 outside diameter of flange	>300~400	>400~600	>600~800	>800~900	>900~1200	>1200~1500
-1~0.1MPa	30	30	40	50	60	80
<0.6MPa	35	40	50	65	80	100
<0.16MPa	40	50	60	82	100	120

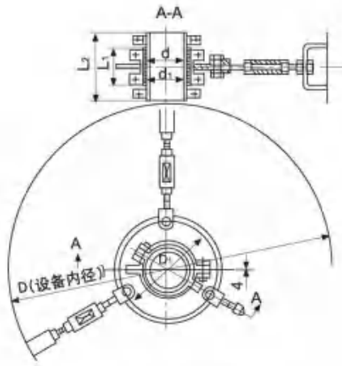


(四)中间轴承 Middel bearing

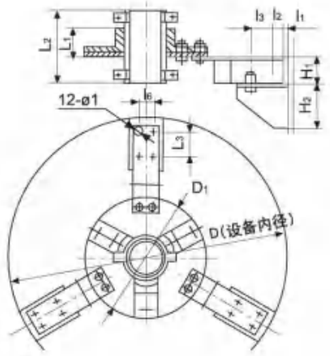
SL、SC、JC、SD 型主要尺寸 Primary dimension of SL, SC, JC, SD type

B	d1	L1	L2	L3	D1	H1	H2	l1	l2	l3	l4	l5	l6	l7	n1	n2	n3	重量 kg SL	SC	JC	SD
40	60	92	200	60	260	50	100	10	16	50	30	270	40	90	12	14	14	36	82	183	60
50	70	92	200	60	260	50	100	10	16	50	30	270	40	90	12	14	14	38	85	186	62
60	80	92	200	60	260	60	120	12	16	60	40	290	40	96	12	14	14	39	87	189	64
65	85	92	200	60	260	60	120	12	16	60	40	290	40	96	12	14	14	40	90	194	66
70	90	92	200	60	260	60	120	12	16	60	40	290	40	96	12	14	14	42	93	197	68
75	95	92	200	60	260	60	120	12	16	60	40	290	40	96	12	14	14	43	95	199	70
80	100	112	220	80	300	80	160	15	20	80	50	350	50	116	14	18	18	46	146	303	90
90	110	112	220	80	300	80	160	15	20	80	50	350	50	116	14	18	18	48	153	310	95
95	115	112	220	80	300	80	160	15	20	80	50	350	50	116	14	18	18	52	160	316	100
100	120	112	220	80	300	80	160	15	20	80	50	350	50	116	14	18	18	55	163.	323	108
110	140	142	250	100	350	100	200	20	25	90	60	360	60	120	18	22	22	63	178	365	115
120	150	142	250	100	350	100	200	20	25	90	60	360	60	120	18	22	22	65	189	370	120
125	155	142	250	100	350	100	200	20	25	90	60	360	60	120	18	22	22	66	196	375	130
140	170	160	280	120	380	120	200	20	25	120	80	430	80	216	18	22	22	73	232	452	140
150	180	160	280	120	380	120	200	20	25	120	80	430	80	216	18	22	22	76	238	458	150
160	190	160	280	120	380	120	200	20	25	120	80	430	80	216	18	22	22	80	243	464	160
180	215	180	300	130	400	160	240	25	30	140	100	430	100	250	22	22	22	101	307	587	190
200	235	200	320	140	420	160	240	25	30	140	100	500	100	250	22	22	22	128	359	634	230

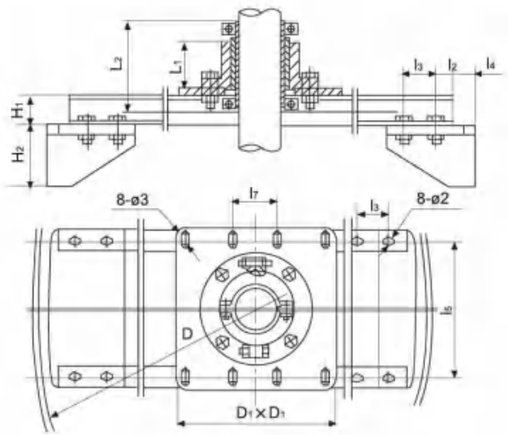
注：重量仅供参考，与设备内径 D 有关，SD 适合于中间轴承位置高度在上封头范围的情况，用户提供高度位置及封头图形，本公司可以供应定位拉杆构件。 Note: The weight have relation to inside diameter D of equipment only for reference. SD type is fit for that high of middle bearing place belong to the upper seal confine. We can supply orientation pole member after user supplied high place and seal drawing.



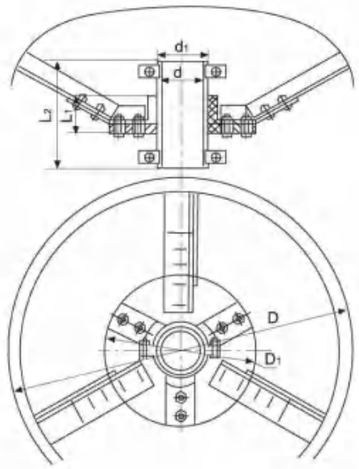
SL型三拉杆式中间轴承
Three-pole middle bearing SL



SC型三槽钢中间轴承三轴瓦式
Three channel steel middle bearing SC, three axial tile



JC型#字槽钢式中间轴承
character channel steel middle bearing JC



SD型三拉杆式吊挂中间轴承
Three-pole pensile middle bearing SD

(五)底轴承 Bottom bearing

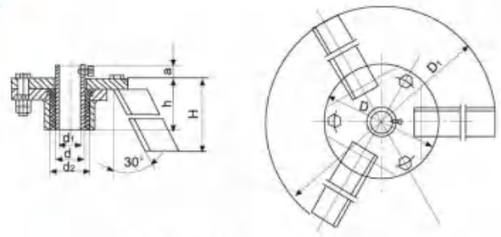
底轴承分三足式(SZ 型)、底部法兰式(DL)型、迷宫三足式(MSZ)型、迷宫底法兰式(MDL 型)四种、标定型号如下:

Bottom bearing includes three-foot (SZ), bottom flange (DL), maze three-foot (MSZ), maze flange (MDL) four types, mode of earmark as follows:

□ □ □
- 主体材料代号 Primary material code
- 搅拌轴直径 d Diameter of milling shaft d
- 型号(分 SZ、DL、MSZ、MDL 四种) Type (SZ, DL, MSZ, MDL)

SZ 型主要尺寸 Primary dimension of SZ type

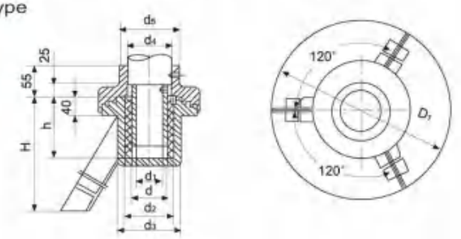
公称轴径 d nominal axes diameter	d_1	d_2	D	D_1	a	h	H	重量(kg) weight
30	22	45	140	363	20	50	160	4.33
40	32	55	160	412	20	60	180	5.49
50	40	65	180	455	20	70	200	6.9
65	50	85	200	498	20	90	230	14
80	65	100	230	563	30	105	250	18
95	75	115	250	617	45	120	280	22
110	90	130	270	683	45	135	300	26.5
125	105	145	310	790	45	155	350	34
140	115	165	360	893	45	165	390	49
165	140	190	400	1040	45	165	430	67
190	165	215	440	1040	50	220	450	90



SZ型底轴承 Bottom bearing SZ

DL、MDL 型主要尺寸 Primary dimension of DL, MDL type

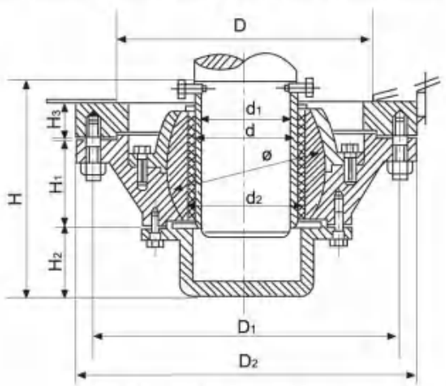
公称轴径 d nominal axes diameter	d_1	d_2	D	D_1	h	H	重量(kg) weight
30	22	45	135	157	35	105	5.1
40	32	55	145	178	45	125	7.1
50	40	65	156	211	55	145	9.6
65	50	85	180	265	70	175	16
80	65	100	195	309	85	195	22
95	75	115	210	359	100	225	30
110	90	130	225	397	115	245	39
125	105	145	245	430	130	260	53
140	115	165	265	500	155	300	69
165	140	190	295	542	165	310	88
190	165	215	320	600	190	340	120



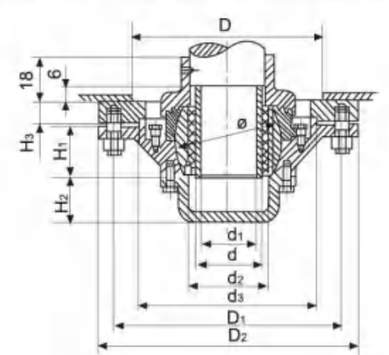
MSZ型底轴承 Bottom bearing MSZ

MSZ 型主要尺寸 Primary dimension of MSZ type

公称轴径 d nominal axes diameter	D	D1	D2	d1	d2	d3	□	H1	H2	H3	~H	螺柱 stnew 数量 No.	螺柱 stnew 直径 x 长度 diameter x length	重量(kg) weight
65	220	265	310	50	80	225	120	50	56	32	174	8	M16 x 50	43.8
80	240	285	330	65	100	245	140	54	66	32	193	8	M16 x 50	53
95	260	330	375	80	115	255	155	72	74	32	224	12	M16 x 65	78
110	295	385	430	95	130	300	188	82	84	40	249	12	M20 x 85	108
125	315	395	440	105	145	363	210	90	90	40	280	12	M20 x 85	155
140	350	445	490	115	165	413	238	100	95	45	300	12	M20 x 95	189
165	385	495	540	140	190	463	270	110	100	45	320	16	M20 x 100	227
190	405	495	540	165	215	463	296	120	105	50	340	16	M20 x 110	270



DL型底轴承 Bottom bearing DL

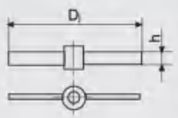
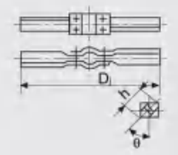
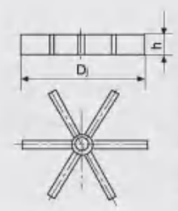
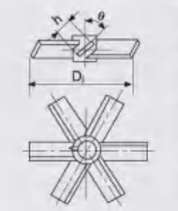
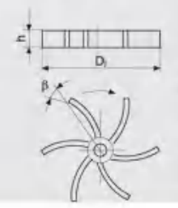


MDL型底轴承 Bottom bearing MDL

(六)搅拌器 Agitators

本公司生产近30类计140多种搅拌器，从最常见的(包括已有的HB5标准，SB90标准各种搅拌器)到各种复杂形状或特殊用途的搅拌器。可按H／T2123-91标准的各种规格尺寸系列制造：也可根据用户生产工艺需求，代为设计制造各种特殊要求、特殊规格或特殊用途的搅拌器。

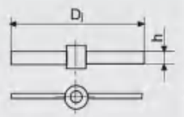
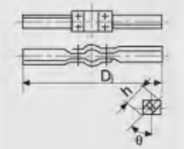
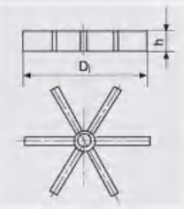
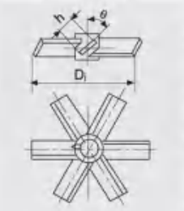
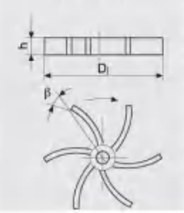
1.搅拌器的形式、主要尺寸特性参数

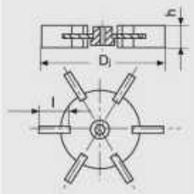
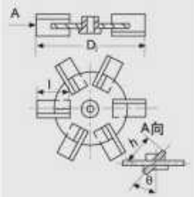
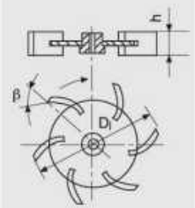
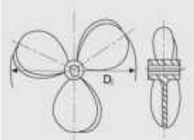
搅拌器类型		搅拌器简图	主要尺寸	特性参数			备注
				常用运转条件	常用介质粘度范围(□)	液体流动状态	
桨型	直叶		Dj/Di=0.35～0.80 b/Dj=0.1～0.25 桨叶数Zj=2; 斜叶的斜角=45°(标准值)，30°	n=l～100rpm v=1.0～5.0 m/s	□<2000 mpa·S	低速时主要为水平环向流；高速时为径型；有挡板时为上下循环流 有轴向分流，径向分流和环向分流多在层流，过度流状态下操作	当Dj/Di>0.9并设多层桨式叶轮时，可用予高粘度液体的低速搅拌。 在层流区操作时，其适用介质粘度可达到10^5mPa·s， 桨叶端的线速度 v=1.0～3.0m/s
	斜叶						
开启涡轮式	直叶		Dj/Di=0.2~0.5(标准值为0.33) b/Dj=0.15~0.3(标准值为0.2); 桨叶数Zj=3、4、6、8(常用桨叶数Zj=6) 斜桨叶的斜角=30°、45°、60°(标准值□=45°) 后弯桨叶弯角□=30°、50°、60°。80°(常用□=50°、60°)	n=10~300rpm v=4~10m/s; 斜桨叶的V=2~6m/s	对直桨叶□<5x 10^4mpa·S 对斜桨叶、后弯桨叶 □<10^4mpa·S	直叶。弯叶为径向流。有挡板时，自桨叶为界形成上，下两个循环流；斜叶为兼有径向流和轴向流，但近于轴流型	最高转速可达600rpm; 斜叶斜角66°的叶轮用予3叶开启涡轮，其搅拌效果类似3叶推进式; 用于高粘度的液体时，后弯叶的弯角□宜取大值，以降低功率消耗。
	斜叶						
	后弯叶						

TAILONG MACHINERY

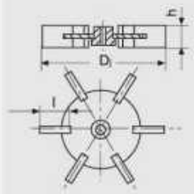
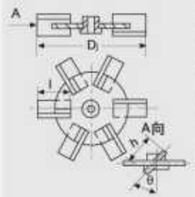
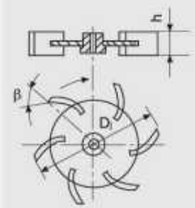
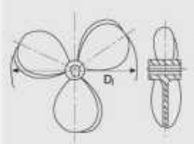
We have made about 30 kinds of agitators, namely 140 categories. We can make according to every size series of H/T2123-91 from familiar furthest (include existing every agitators of HB5, SB90 standard) to every complicated figure or especial use. We can also design and made all kinds of agitators with especial request or especial size or especial use, according to the technics request of user.

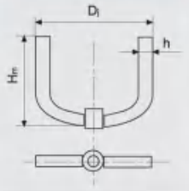
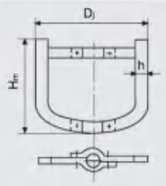
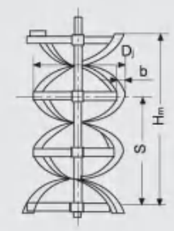
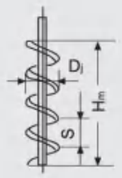
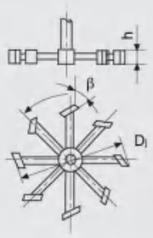
1. Form primary dimension and characteristic parameter of agitators

type		simple drawing	primary dimension	characteristic parameter			note
				common work condition	common medium viscosity extension(□)	liquid flow state	
oar	straight leaf		Dj/Di=0.35～0.80 b/Dj=0.1～0.25 number of oar leaf Zj=2; bevel of skew leaf =45°(normal value)，30°	n=l～100rpm v=1.0～5.0m/s	□<2000 mpa·S	Level round flow as low speed; radial form as high speed; flow round up and down with baffle. Distributary along axes, radial, round has been done in the condition of floor flow or transition flow.	It can be used to mill high viscosity liquid with low speed when Dj/Di>0.9, and many floor oar impellers have been used. Medium viscosity in point has achieved 10^5mPa·s. When done in floor flow area. Line speed at the end of oar leaf v=1.0～3.0m/s
	skew leaf						
opening turbine	straight leaf		Dj/Di=0.2~0.5(normal value 0.33); b/Dj=0.15~0.3(normal value 0.2); number of oar leaf Zj=3、4、6、8 (number of normal oar leaf Zj=6); bevel of skew oar leaf =30°、45°、60°(normal value □=45°); degree of retral curly oar leaf □=30°、50°、60°。80°(normal □=50°、60°)	n=10~300rpm v=4~10m/s; skew oar leaf V=2~6m/s	to straight oar leaf □<5 x 10^4mpa·S to skew oar leaf, retral cruly oar leaf □<10^4mpa·S	Flow along radial for straight leaf and cruly leaf; two flows round up and down had been formed with baffle; both flow along radial and flow along axes has been formed for skew leaf, but it seems flow along axes.	Up most rotate speed can achieve 600rpm. Impeller with bevel of skew leaf 66° has been used for three-leaf opening turbine, its effect seems three-leaf advance form. Degree of retral curly oar leaf should choose big value to reduce power wastage for high viscosity liquid.
	skew leaf						
	retral curly leaf						

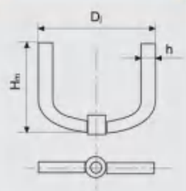
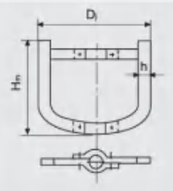
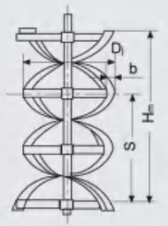
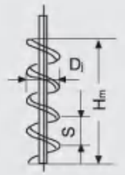
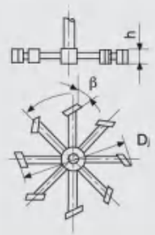
搅拌器类型		搅拌器简图	主要尺寸	特性参数			备注
				常用运转条件	常用介质粘度范围(□)	液体流动状态	
圆盘涡轮式	直叶		Dj/Di=0.2~0.5(标准值为0.33); Dj:l:b=20:5:4 叶片数量 Zj = 4、6、8(常用Z=6) 斜桨叶斜角 □=45°、30° 后弯叶弯角 □=45°	n=l0~300rpm v=4~10m/s 斜叶式的 v=2~6m/s	对直叶为：□ <5x10⁴mPa·s 对斜叶、弯叶为：□ <10⁴mPa·s	直叶、弯叶为径向流：有挡板时，自桨叶为界形上、下两个循环流； 斜叶为兼有径向流和轴向流；圆盘涡轮叶轮在其圆盘上下的液体混合不如开启涡轮	最高转速 n=600rpm；
	斜叶						
	后弯叶						
推进式	螺旋叶		Dj/Di=0.2~0.5(标准值为0.33); S/Dj=1、2 叶片数量 Zj=2、3、4(常用Z=3); Pt-螺距	n=l00~500rpm v=3~15m/s	□<2000mpa·s	轴流型，循环速率高，剪切力小。 装有挡板或导流筒时，轴向流更强	最高转速 n=1750rpm； 叶端高线速 v=25m/s； 在n<500rpm时，适用介质粘度□≤5X10⁴mPa·S

TAILONG MACHINERY

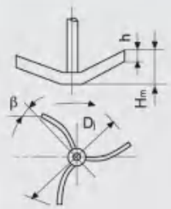
type		simple drawing	primary dimension	characteristic parameter			note
				common work condition	common medium viscosity extension(□)	liquid flow state	
disk turbine form	straight leaf		Dj/Di=0.2~0.5(normal value is 0.33); Dj:l:b=20:5:4 number leaf Zj=4、6、8(normal Z=6)	n=l0~300rpm v=4~10m/s skew leaf v=2~6m/s	to straight leaf: □<5x10⁴mPa·s to skew leaf, curly leaf: □<10⁴mPa·s	Flow along radial for straight leaf and curly leaf; two flows round up and down has been formed with baffle; both flow along radial and flow along axes has been formed for skew leaf; liquid is mixed better up and down the disk using opening turbine than using disk turbine.	upmost rotate speed n=600rpm；
	skew leaf		bevel skew oar leaf □=45°、30°degree of retral curly leaf □=45°				
	retral curly leaf						
advance form	helix leaf		Dj/Di=0.2~0.5(normal value is 0.33); S/Dj=1、2 number of leaf Zj=2、3、4(normal Z=3); Pt-pitch	n=l00~500rpm v=3~15m/s	□<2000mpa·s	Flow along axes, high round speed, little cut power, strong flow along axes for baffle or canister leading flow.	upmost ratate speed n=1750rpm； high line speed at the end of leaf v=25m/s； Medium viscosity is point □≤5X10⁴mPa·S as n<500rpm

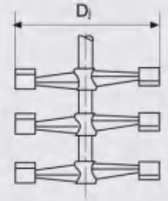
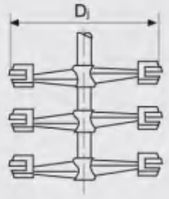
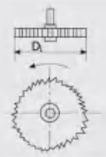
搅拌器类型	搅拌器简图	主要尺寸	特性参数			备注
			常用运转条件	常用介质粘度范围(□)	液体流动状态	
锚式		D1/Di=0.9~0.98; b/D1=0.1; Hm/Di=0.48~1.0	n=l~100rpm v=1~5m/s	□<10⁵mPa·s	在桨叶不同高度上均为水平环向流; 采用斜叶或角钢型叶时，可增加桨叶附近的涡流; 锚式，框式叶轮均在层流状态下操作	为了增大搅拌范围，可根据需要在桨叶上增设立叶和横梁
框式						
螺带搅拌器		Di/Di=0.9~0.98; S/Di=0.5、1、1.5; b/Di=0.1 Hm/Dj=1~3 (可根据液层高度增大) 螺带条数：1、2	n=0.5~50rpm v=2m/s	□<10⁵mPa·s	轴流型: 一般是液体沿容器内壁螺旋上升后再沿轴下降; 桨叶在层流状态下操作	
螺杆搅拌器		Dj/Di=0.4~0.5; S/Dj=1、1.5; Hm/Dj=1~3	n=0.5~50rpm v=2m/s	□<10⁵mPa·s	轴向流。带导流筒时，一般液体在导流筒内向下流，在导流筒外的环形空间向上流：桨叶在层流状态下操作	螺杆叶轮可偏心放入搅拌容器内，这时桨叶与容器内壁的间距<$\frac{1}{20}$ Dj，容器壁能起到挡板的作用
布尔马金式搅拌器		Dj/Di=0.2~0.5; b/Di=0.1 b=70 桨叶数量 Zj=6、8	n=10~300rpm	□<5x10⁴mpa·s	径流型	桨叶端部加宽并有后弯角；排出液体性能好，动力消耗小，剪切力小

TAILONG MACHINERY

type	simple drawing	primary dimension	characteristic parameter			note
			common work condition	common medium viscosity extension(□)	liquid flow state	
anchor form		D1/Di= 0.9~0.98; b/D1=0.1; Hm/Di= 0.48~1.0	n=l~100rpm v=1~5m/s	□<10⁵mPa·s	It all is level round flow on the different height of oar leaf. It can add whirlpool near leaf when using skew leaf or angle iron leaf; impeller of anchor and frame forms has been worked in the condition of floor flow.	Horrent leaf and beam can be added as needed for extending milling area.
frame form						
helix cincture form agitator		Di/Di=0.9~0.98; S/Di=0.5, 1, 1.5; b/Di=0.1 Hm/Dj=1~3 (augment according to liquid height); number of helix cincture 1、2	n=0.5~50rpm v=2m/s	□<10⁵mPa·s	Flow along axes Liquid raises helix along inner case wall, then drops along shaft; oar leaf is worked in the condition of floor flow.	
helix pole form agitator		Dj/Di=0.4~0.5; S/Dj=1, 1.5; Hm/Dj=1~3	n=0.5~50rpm v=2m/s	□<10⁵mPa·s	Flow along axes Normal liquid has flowed down within canister leading flow, flowed up in round room outside canister leading flow. Oar leaf has been worked in the condition of floor flow.	Impeller of helix pole can be putted into milling case, distance of oar leaf and inner case wall less than $\frac{1}{20}$ Dj, case wall can exert action as baffle.
buermajin form agitator		Dj/Di=0.2~0.5; b/Di=0.1 b=70 number of oar leaf Zj=6、8	n=10~300rpm	□<5x10⁴mpa·s	Flow along radial	The end of oar leaf is widened and retral curly degree exist. It has good capability of venting liquid, small power wastage, little cut power.

搅拌器类型	搅拌器简图	主要尺寸	特性参数			备注
			常用运转条件	常用介质粘度范围(□)	液体流动状态	

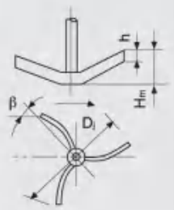
三叶后掠式搅拌器		Dj/Di=0.5;
		b/H_m=2/5;
		h/D_j=0.05;
		□=30°、50°;
		叶片上翘角:
		15°~20°;
		叶片数 Z_j=3
			n=80~150rpm
			□ ≤ 10m/s
				□<10^4mPa · S	径流型:
					搅拌容器内装配指形挡板时可获得上下循环流，循环量大
					在档板的配合下，剪切作用也大
						最高叶端线速度 v=15m/s

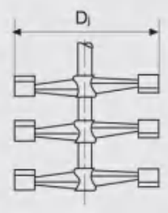
MIG式(多层双倾斜桨叶)搅拌器		Dj/Di=0.5~0.95(标准值为0.7); 每个叶轮的桨叶数Zj=2 搅拌器容量Z=2~3个(标准为3个); 叶轮间距Sp=028Di(标准值); 搅拌容器内设挡板的条件: Dj/Di<0.7，2~4挡板; Dj/Di>0.7：无挡板	v=1~12m/s	□<10^4mPa · S	低速时水平环向流和轴向流：高速时为径向流轴向流: 桨叶前端有较强的涡流。可在层流区和湍流区操作	MIG式叶轮属于斜桨叶的改型，在每个斜桨叶外端增设一个与主桨叶反向倾斜的小桨叶; 每个搅拌器为二个桨叶；搅拌轴上一般装2~3个搅拌器(互成90°)
INTERMIG式MIG改型多层桨叶(搅拌器)					流体的流动状态同MIG式搅拌器，桨叶外端的涡流更强，混合效果更好	INTERMIG式搅拌器属子MIG式搅拌器的改型，在斜主桨叶外端的小桨叶改为双斜叶小桨叶; 搅拌轴上的搅拌器数一般为2~3个(互成90°)
锯式圆盘式搅拌器		Dj/Di=0.2~0.5;	v=5~20m/s	□<2000mpa · s	径流型。 在湍流状态下操作	

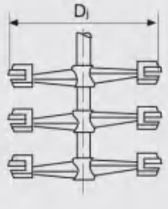
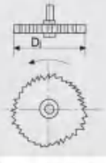
注：表中通用符号的命名：n-搅拌器转数rpm；v-搅拌器桨叶部的线速m/s；Di-搅拌容器内径；Dj-搅拌器直径；S-螺旋形桨叶的螺距；□-后弯桨叶的后弯角(°)。

TAILONG MACHINERY

type	simple drawing	primary dimension	characteristic parameter			note
			common work condition	common medium viscosity extension(□)	liquid flow state	

three-leaves retral curly form agitator		Dj/Di=0.5;
		b/H_m=2/5;
		h/D_j=0.05;
		□=30°、50°;
		uphill turnup angle of leaf;
		15°~20°;
		number of leaf Z_j=3
			n=80~150rpm
			□ ≤ 10m/s
				□<10^4mPa · S	Radial flow form
					Flow round up and down can be formed when baffle as finger form is assembled within agitator, large circulation capacity, cut action is also large with baffle.
						Upmost line speed at the end of leaf v=15m/s

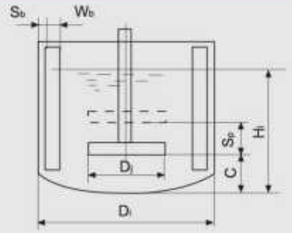
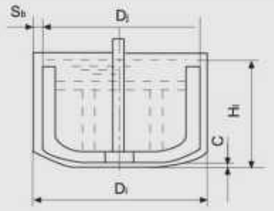
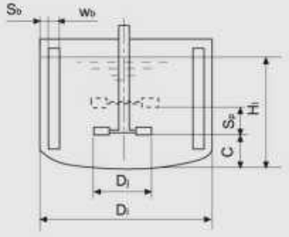
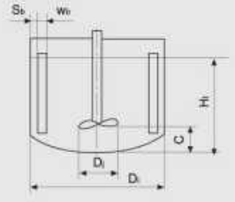
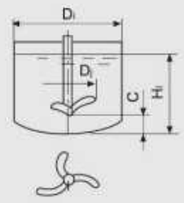
Many floor double slantwise oar MIG agitator leaves		Dj/Di=0.5~0.95 (normal value is 0.7);
		number of oar leaf in every impeller Zj=2
		capability of agitator Z=2~3 (normal value is 3);
		distance of impeller Sp=028Di (normal value);
		condition of setting up baffle within agitator;
		Dj/Di<0.7，2~4 baffles;
		Dj/Di>0.7;
		without baffle
			v=1~12m/s	□<10^4mPa · S	Level round flow and axes flow as low speed; radial flow and axes flow as high speed. It has strong whirlpool in oar leaf front, it can work in floor flow area and onflow area.	MIG impeller belongs to skew oar leaf remodel, little oar leaf, contrary major oar leaf incline orientation, is setted up.
						There is two oar leaves in every agitator; there is usual 2-3 agitators on milling axes. (become 90° each other)

INTERMIG form MIG remodeled					Flow state of liquid is same to MIG agitator. Whirlpool outside oar leaf is still strong, mixing effect is still good.	INTERMIG agitator belongs to MIG agitator remodel. Little oar leaf outside skew major oar leaf is changed into double skew little oar leaf. There is usual 2-3 agitators on milling axes. (become 90° each other)
Toothed disk agitator		Dj/Di=0.2~0.5;	v=5~20m/s	□<2000mpa · s	Radial flow form It is worked in the condition of onflow	

Note: Call of universal symbol in list: n — rotate speed of agitator, rpm; v — line speed of agitator leaf, m/s; Di — inside diameter of agitator; Dj — diameter of agitator; S — pitch of helix oar leaf; □ — degree of retral curly oar leaf (°)

2、搅拌器在搅拌容器中的位置尺寸关系

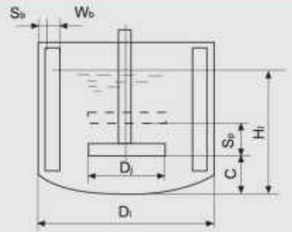
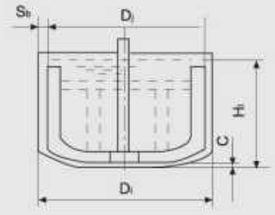
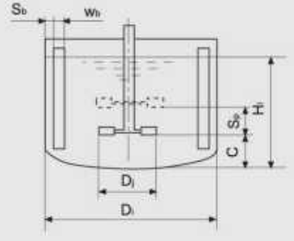
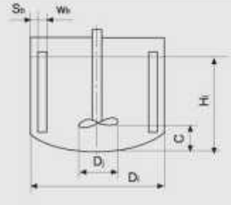
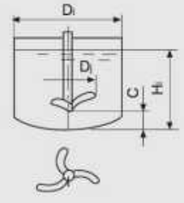
搅拌器在搅拌容器中的位置尺寸关系

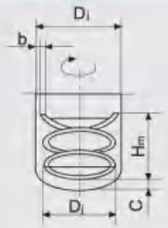
搅拌器类型	搅拌容器和搅拌器简图	位置尺寸比例
桨式		$C=(0.15\sim0.25)D_j$ $Sp=(0.3\sim0.4)D_j$ $W_b=(\frac{1}{12}-\frac{1}{10})D_j$(标准值: $\frac{1}{12}D_j$) $S_b=(0.2\sim0.5)W_b$(标准值: $0.2W_b$) $H_j=D_j$(标准值) 当 H_j 远大于 Di 时，应采用多层搅拌器
锚式框式		$C=(0.03\sim0.06)D_j$ $S_b=0.0275Di$(用于平底桨叶的锚式、框式搅拌器) $S_b=0.06Di$(用于圆弧形底桨叶的锚式、框式搅拌器) $H_j=D_j$（标准值）
开启涡轮式 圆盘涡轮式		$C=(0.5\sim1)D_j$(用于开启涡轮式搅拌器) $C\approx D_j$(用于圆盘涡轮式搅拌器) $Sp=(1\sim1.5)Dj$ $W_b=(\frac{1}{12}-\frac{1}{10})D_j$(标准值: 1/12$D_j$) $S_b=(0.2\sim0.5)W_b$(标准值: $0.2W_b$) $H_j=D_j$(标准值) 当 H_j 远大于 D_j 时，应采用多层搅拌器
推进式		$C=(1\sim1.5)D_j$(标准值: $C=D_j$) $W_b=0.1D_j$ $S_b=0$（无间隙） $H_j=D_j$（标准值）
三叶后掠式		$C=(0.1\sim0.3)D_j$ $H_j=D_j$(标准值)

TAILONG MACHINERY

2. Relation of place dimension for agitator within case

Relation of place dimension

Type	Simple drawing of case and agitator	Scale of place dimension
oar form		$C=(0.15\sim0.25)D_j$ $Sp=(0.3\sim0.4)D_j$ $W_b=(\frac{1}{12}-\frac{1}{10})D_j$ (normal value: $\frac{1}{12}D_j$) $S_b=(0.2\sim0.5)W_b$(normal value: $0.2W_b$) $H_j=D_j$ (normal value) Many floor agitator should be used when H_j bigger than D_j
anchor and frame form		$C=(0.03\sim0.06)D_j$ $S_b=0.0275Di$ (for auchor and frame form agitator with level bottom oar leaf) $S_b=0.06Di$ (for auchor and frame form agitator with fox bottom oar leaf) $H_j=D_j$ (normal value)
opening turbine form disk turbine form		$C=(0.5\sim1)D_j$ (for opening turbine form agitator) $C\approx D_j$ (for disk turbine form agitator) $Sp=(1\sim1.5)Dj$ $W_b=(\frac{1}{12}-\frac{1}{10})D_j$ (normal value: 1/12D_j) $S_b=(0.2\sim0.5)W_b$ (normal value: $0.2W_b$) $H_j=D_j$ (normal value) Many floor agitator should be used when H_j bigger than D_j
advance form		$C=(1\sim1.5)D_j$ (normal value: $C=D_j$) $W_b=0.1D_j$ $S_b=0$ $H_j=D_j$ (normal value)
three-leaves retral curly form		$C=(0.1\sim0.3)D_j$ $H_j=D_j$ (normal value)

搅拌器类型 Type	搅拌容器和搅拌器简图 Simple drawing of case and agitator	位置尺寸比例 Scale of place dimension
螺带式 helix cincture form agitator		C=(0.01~0.05)Dj

3、搅拌器选形 Form selection of agitator

(1)最适宜的搅拌器端部的圆周速度 Optimum circle speed at the end of agitator

搅拌器类型 type	被搅拌介质的粘度 medium viscosity mPa·s	适宜的搅拌器端部圆周速度,m/s circle speed	最高转速 rpm upmost rotate speed
桨式、框式、锚式 oar, frame and auchor form	1~4000	3.0~2.0	
	4000~8000	2.5~1.5	< 80
	8000~15000	1.5~1.0	
涡轮式 turbine form	1~5000	7~4.2	
	5000~15000	4.2~3.4	< 540
	15000~25000	3.4~2.3	
推进式 advance form	1~2000	4.8~16	< 800

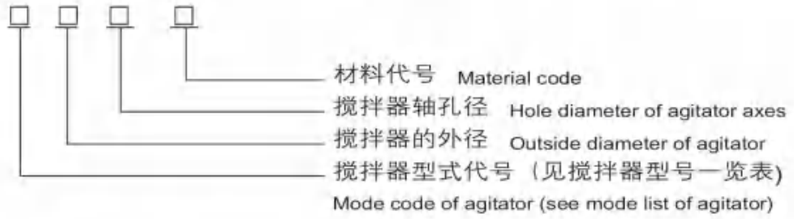
(2)搅拌器形式选择 Form selection of agitator

搅拌器形式选用表 selection list

工艺过程类别 type of technics process	控制因素 control factor	适用搅拌器形式 form in point	Di/Dj	Hl/Di
调和 congruity (低粘度均相液体混合) low viscosity symmetrical phasic liquid mixxed	容积循环速率 cubage round speed	推进式 advance form 涡轮式 turbine form	推进式 advance form:4:1~3:1 涡轮式 turbine form:6:1~3:1	不限
分散 decentralization (非均相液体混合) asymmetrical phasic liquid mixxed	液滴大小（分散度）、liquid drib bulk decentraliza-tion degree	涡轮式 turbine form	3.5:1~3:1	1:1~1:2
固体悬浮 solid suspended	容积循环速率 cubage round speed 容积循环速率，湍流强度 cubage round speed onflow strong	按固体粘度、含量及比重选用下列三种：桨式、推进式或涡轮式 select next three types ac-cording to solid viscosity	推进式 advance form: 2.5:1~3.5:1 桨式或涡轮式 oar or turbine form: 2.0:1~3.2:1	1:2~1:1
气体吸收 gas absorbed	剪切作用，容积循环速率，高速度 cut action, cubage round speed, high speed	涡轮式 turbine form	2.5:1~4.0:1	4:1~1:1
传热 transmit heat energy	容积循环速率，流经传热面的湍流速度 cubage round speed, onflow speed of flowing across trans-mit heat energy surface	桨式 oar form 推进式 advance form 涡轮式 turbine form	桨式 oar form:1.25:1~2:1 推进式 advance form:3:1~4:1 涡轮式 turbine form:3:1~4:1	1:2~2:1

TAILONG MACHINERY

4、搅拌器型号标注方法 Earmark procedure of agitator mode



5、搅拌器型号一览表 Mode list of agitator

序号 No.	搅拌器型式名称 mode name	代号 code
001	平直叶整体桨式（HG5-220-65) even straight leaf holistic oar form	PJ
002	平直叶可拆桨式（HG5-220-65) even straight leaf knock-down oar form	PCJ
003	斜叶整体桨式 SB90-278 skew leaf holistic oar form	XJ
004	斜叶可拆桨式 SB90-279 skew leaf knock-down oar form	ZJ
005	E 型折叶桨式 E type two-double leaf oar form	EJ
006	E 型折叶可拆桨式 E type two-double leaf knock-down oar form	ECJ
007	G 型折叶桨式 G type two-double leaf oar form	GJ
008	G 型折叶可拆桨式 G type two-double leaf knock-down oar form	GCJ
009	S 型双折叶桨式 S type bidirectional two-double leaf oar form	SJ
010	S 型双折叶可拆桨式 S type bidirectional two-double leaf knock-down oar form	SCJ
011	C 型双折叶桨式 C type bidirectional two-double oar form	CJ
012	C 型双折叶可拆桨式 C type bidirectional two-double knock-down oar form	CCJ
013	曲边斜叶整体桨式 curly edge skew leaf holistic oar form	QJ
014	曲边斜叶可拆桨式 curly edge skew leaf knock-down oar form	QCJ
015	菱臂弧叶整体桨式 rhombic arm fox leaf holistic oar form	BJ
016	菱臂弧叶可拆桨式 rhombic arm fox leaf knock-down oar form	BCJ
017	花板孔整体桨式 motley board-hole holistic oar form	FJ
018	花板孔可拆桨式 motley board-hole knock-down oar form	FCJ
019	六直叶整体开启涡轮式 SB90-282 six straight leaves holistic opening turbine form	PK
020	六直叶可拆开启涡轮式 SB90-283 six straight leaves knock-down opening turbine form	PCK
021	六直叶稳定环开启涡轮式 six straight leaves steady ring opening turbine form	PKW
022	六窄叶整体开启涡轮式 SB90-286 six confined leaves holistic opening turbine form	PZK
023	六窄叶可拆开启涡轮式 SB90-287 six confined leaves knock-down opening turbine form	PKZ
024	六窄叶稳定环开启涡轮式 six confined leaves steady ring opening turbine form	PZW
025	六弯叶开启涡轮式 six curly leaves opening turbine form	WK
026	六弯窄叶开启涡轮式 six curly confined leaves opening turbine form	WZK
027	六弯叶稳定环开启涡轮式 six curly leaves steady ring opening turbine form	WKW
028	六斜窄叶稳定环开启涡轮式 six skew confined leaves steady ring opening turbine form	WWK
029	六斜叶整体开启涡轮式 SB90-284 six skew leaves holistic opening turbine form	XK
030	六斜叶可拆开启涡轮式 SB90-285 six skew leaves knock-down opening turbine form	XKK
031	六斜叶稳定环开启涡轮式 six skew leaves steady ring opening turbine form	XKW
032	六斜窄叶整体开启涡轮式 six skew confined holistic opening turbine form	XZK
033	六斜窄叶可拆开启涡轮式 six skew confined knock-down opening turbine form	XKZ
034	六斜窄叶稳定环开启涡轮式 six skew confined steady ring opening turbine form	XZW
035	四斜叶整体开启涡轮式 four skew leaves holistic opening turbine form	MK
036	四斜叶可拆开启涡轮式 four skew leaves knock-down opening turbine form	XCK
037	四斜叶整体稳定器开启涡轮式 four skew leaves holistic stabilizator opening turbine form	MKW
038	四斜叶可拆稳定器开启涡轮式 four skew leaves knock-down stabilizator opening turbine form	XCW

序号 No.	搅拌器型式名称 mode name	代号 code
039	四斜窄叶整体开启涡轮式 four skew confined leaves holistic opening turbine form	NK
040	四斜窄叶可拆开启涡轮式 four skew confined leaves knock-down opening turbine form	NCK
041	四斜窄叶整体稳定器开启涡轮式 four skew confined leaves holistic stabilizator opening turbine form	NKW
042	四斜窄叶可拆稳定器开启涡轮式 four skew confined leaves knock-down stabilizator opening turbine form	NCW
043	四叶T型开启涡轮式 four leaves T type opening turbine form	TCK
044	三斜窄叶整体开启涡轮式 three skew confined leaves holistic opening turbine form	YK
045	三斜窄叶可拆开启涡轮式 three skew confined leaves knock-down opening turbine form	YCK
046	三斜叶整体稳定器开启涡轮式 three skew leaves holistic stabilizator opening turbine form	YKW
047	三斜叶可拆稳定器开启涡轮式 three skew leaves knock-down stabilizator opening turbine form	YCW
048	三斜窄叶整体开启涡轮式 three skew confined leaves holistic opening turbine form	ZK
049	三斜窄叶可拆开启涡轮式 three skew confined leaves knock-down opening turbine form	ZCK
050	三斜窄叶整体稳定器开启涡轮式 three skew confined leaves holistic stabilizator opening turbine form	ZKW
051	三斜窄叶可拆稳定器开启涡轮式 three skew confined leaves knock-down stabilizator opening turbine form	ZCW
052	平直叶圆盘涡轮式 HG5-221-65 even straight leaf disk turbine form	PY
053	平直叶对开圆盘涡轮式 SB90-280 even straight leaf folio disk turbine form	PDY
054	斜叶圆盘涡轮式 SB90-281 skew leaf disk turbine form	ZY
055	斜叶对开圆盘涡轮式 skew leaf folio disk turbine form	ZDY
056	弯叶圆盘涡轮式 curly leaf disk turbine form	WY
057	弯叶可拆圆盘涡轮式 curly leaf knock-down disk turbine form	WCY
058	弯叶对开圆盘涡轮式 curly leaf folio disk turbine form	XDY
059	弯叶可拆对开圆盘涡轮式 curly leaf knock-down folio disk turbine form	WKY
060	螺距叶圆盘涡轮式 pitch leaf disk turbine form	LY
061	螺距叶可拆圆盘涡轮式 pitch leaf knock-down disk turbine form	LCY
062	螺距叶对开圆盘涡轮式 pitch leaf folio disk turbine form	LDY
063	螺距叶可拆对开圆盘涡轮式 pitch leaf knock-down folio disk turbine form	LKY
064	半圆弧圆盘涡轮式 half fox disk turbine form	HY
065	半圆弧可拆圆盘涡轮式 half fox knock-down disk turbine form	HCY
066	半圆弧对开圆盘涡轮式 half fox folio disk turbine form	HDY
067	半圆弧可拆对开圆盘涡轮式 half fox knock-down folio disk turbine form	HKY
068	箭叶圆盘涡轮式 arrow leaf disk turbine form	JY
069	箭叶可拆圆盘涡轮式 arrow leaf knock-down disk turbine form	JCY
070	箭叶对开圆盘涡轮式 arrow folio disk turbine form	JDY
071	箭叶可拆对开圆盘涡轮式 arrow knock-down disk turbine form	JKY
072	平齿形圆盘涡轮式 even tooth disk turbine form	CY
073	翻齿形圆盘涡轮式 turnover tooth disk turbine form	FY
074	贴齿形圆盘涡轮式 adnate tooth disk turbine form	TY
075	三叶左旋推进式 SB90-290 SB90-291 three revolved left leaves advance form	TXL
076	三叶右旋推进式 HG-222-65 three revolved right leaves advance form	TXR
077	三叶左旋稳定环推进式 three revolved left leaves steady ring advance form	TWL
078	三叶右旋稳定环推进式 three revolved right leaves steady ring advance form	TWR
079	三叶左旋导流筒推进式 three revolved left leaves leading flow canister advance form	TVL
080	三叶右旋导流筒推进式 three revolved right leaves leading flow canister advance form	TVR
081	三叶焊接左旋推进式 three welding revolved left leaves advance form	HXL
082	三叶焊接右旋推进式 three welding revolved right leaves advance form	HXR
083	三叶焊接左旋稳定环推进式 three welding revolved left leaves steady ring advance form	HWL
084	三叶焊接右旋稳定环推进式 three welding revolved right leaves steady ring advance form	HWR
085	三叶焊接左旋导流筒推进式 three welding revolved left leaves leading flow canister advance form	HVL
086	三叶焊接右旋导流筒推进式 three welding revolved right leaves leading flow canister advance form	HVR
087	三叶可调左旋推进式 three adjustable revolved left leaves advance form	TTL
088	三叶可调右旋推进式 three adjustable revolved right leaves advance form	TTR
089	三叶可拆左旋推进式 three knock-down revolved left leaves advance form	TCL
090	三叶可拆右旋推进式 three knock-down revolved right leaves advance form	TCR
091	高效轴流旋桨左旋式 high efficiency flow revolving oar revolved left	GXL
092	高效轴流旋桨右旋式 high efficiency flow revolving oar revolved right	GXR
093	四叶左旋推进式 four revolved left advance form	SXL
094	四叶右旋推进式 four revolved right advance form	SXR
095	四叶左旋稳定环推进式 four revolved left leaves steady ring advance form	SWL
096	四叶右旋稳定环推进式 four revolved right leaves steady ring advance form	SWR
097	四叶左旋导流筒推进式 four revolved left leaves leading flow canister	SVL
098	四叶右旋导流筒推进式 four revolved right leaves leading flow canister	SVR
099	三宽叶整体旋桨式 three wide leaves holistic revolving oar form	KHX
100	三宽叶可拆旋桨式 three wide leaves knock-down revolving oar form	KCX

TAILONG MACHINERY

序号 No.	搅拌器型式名称 mode name	代号 code
101	三宽叶稳定环旋桨式 three wide leaves steady ring revolving oar form	KWY
102	三窄叶整体旋桨式 three confined holistic revolving oar form	ZHX
103	三窄叶可拆旋桨式 three confined knock-down revolving oar form	ZCX
104	三窄叶稳定环旋桨式 three confined steady ring revolving oar form	ZWX
105	四宽叶可拆旋桨式 four wide leaves knock-down revolving oar form	KSX
106	四窄叶可拆旋桨式 four confined leaves knock-down revolving oar form	ZSX
107	三叶后齿左旋式 three back tooth leaves revolved left form	CL
108	三叶后齿右旋式 three back tooth leaves revolved right form	CR
109	三叶后齿可拆左旋式 three back tooth leaves knock-down revolved left form	CCL
110	三叶后齿可拆右旋式 three back tooth leaves knock-down revolved right form	CCR
111	三叶翘曲左旋式 three warp leaves revolved left form	QL
112	三叶翘曲右旋式 three warp leaves revolved right form	QR
113	三叶翘曲可折左旋式 three warp leaves knock-down revolved left form	QCL
114	三叶翘曲可拆右旋式 three warp leaves knock-down revolved right form	QCR
115	三框叶刮板式 three frame leaves scraping board	KG
116	三叶后掠整体式 three retral curly leaves holistic form	HQ
117	三叶后掠可拆式 three retral curly leaves knock-down form	HCQ
118	四叶后掠整体式 four retral curly leaves holistic form	SQ
119	四叶后掠可拆式 four retral curly leaves knock-down form	SCQ
120	三叶锥底平桨式 three leaves fastigiate bottom even oar form	SZP
121	布尔马金式 buermajin form	BM
122	螺杆式 helix pole form	LG
123	带导流筒螺杆式 helix pole with leading flow canister	LGH
124	螺带式 helix cincture form	LD
125	螺带螺杆式 helix cincture and helix pole form	LDG
126	锥底螺带式 fastigiate bottom helix	ZLD
127	锥底螺带螺杆式 fastigiate bottom helix cincture and helix pole form	ZLG
128	椭圆底框 HG5-757-78 elliptical bottom pane form	KS
129	直角锥底框式 square fastigiate bottom pane form	KSA
130	钝角锥底框式 an obtuse angle fastigiate bottom pane form	KSB
131	锚式 anchor form	MS
132	搪玻璃专用锚式 anchor for spreading over glass	TS
133	锚框式 anchor pane form	MKS
134	锚带式 anchor cincture form	MDS
135	方框式 pane form	FKS
136	方栅式 quadrate pale form	FSS
137	板框式 board pane form	BKS
138	消泡叶轮 banish froth impeller	XPJ
139	消泡桨 banish froth oar	XPJ
140	泵型曝气机 pump leak gas machine	BAY
141	伞型曝气机 umbrella leak gas machine	BDY
142	翼盘型曝气机 aerofoil leak gas machine	BQY
143	整体式稳定圈 holistic steady ring	WH
144	对开式稳定圈 folio steady ring	WF

双级摆线针轮减速器
double stage cyloidal pin wheel decelerator

单级立式摆线针轮减速器(带 JA 支架)
single stage vertical cycloidal pin wheel decelerator (with JA frame)

TAILONG MACHINERY

JXLD 型新型机架
JXLD type new frame

JA 型机架
JA type frame

FZ 型双支点方底板机架
FZ type double-support quadrate frame

XDJ 型机架 (HG21566)
XDJ type frame

JXLD 型机架
JXLD type frame

DJ 型机架
DJ type frame

SJ130 双支点机架
带 □150mm 搅拌轴
SJ130 double-support frame
with □150mm mixer axle

螺带式搅拌器
Helix cincture type beater

SZ 型底轴承
SZ type bottom bearing

非标搅拌器
Nonstandard beater

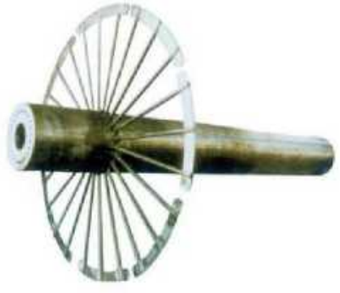
移动可调高速搅拌机
Floating adjustable high-speed blender

高速搅拌机
high-speed blender

KJ 系列可移式搅拌机
KJ series floating blender

高速搅拌机
High-speed blender

底入式搅拌机
bottom-entrance blender



搅拌器
Beater

TAILONG MACHINERY