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江苏强茂减速机有限公司

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QIANGMAO 强茂

- B/X摆线针轮减速机 B/X cycloidal pinwheel reducer
- RX/RB摆线齿轮减速机 RX/RB cycloidal gear reducer
- JXJ系列行星摆线减速机 JXJ series planetary cycloidal reducer
- 橡塑专用减速机 Rubber and plastic special reducer
- 化工搅拌反应釜专用机架 Special machine frame for chemical mixing reactor



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JIANGSU QIANGMAO REDUCER CO., LTD

COMPANY PROFILE

企业简介



江苏强茂减速机有限公司是一家专注于行星摆线针轮减速机的国家高新技术企业，公司宗旨秉承 " 强化品质，茂实创新 " 的核心理念，构建从铸造、精加工、装配到检测以及售后的一体化生产体系，国内在江苏常州、安徽宣城、广东佛山、四川成都、及东南亚越南等地区均设有智能制造基地，形成辐射全球的供应链网络。公司成立于 2010 年。

公司依托自主建设的全流程制造系统，率先引进行业内全自动铸造生产线，拥有精密加工中心、三坐标检测仪等先进设备 200 余台套。通过 ISO9001 质量体系认证，产品涵盖 X/B/J 三大行星摆针系列以及齿轮减速机，功率范围 0.18-155kW，适配塑料机械、矿山冶金、石油化工等 12 个工业领域。特别开发的 BJ 系列专用减速机，采用行星传动与摆线啮合技术，在塑机行业实现能效提升 15% 的突破性进展。

基于多基地协同制造模式，公司构建 300 公里服务响应圈，常规紧急订单可实现及时供应。技术团队配备 CAE 仿真系统，可为客户提供非标定制解决方案，特殊规格产品研发周期可控。海外越南基地的投产，使东南亚地区产品交付时效急速提升，质量合格率达到行业领先水平。

公司累计获得国家专利 32 项，参与制定 3 项行业标准，产品通过 CE、GOST 等国际认证。凭借扎实的制造功底和持续的技术创新，我们致力于为全球客户提供高性价比的传动解决方案，助推工业装备效能升级。

Jiangsu Qiangmao Reducer Co., Ltd. is a national high-tech enterprise specializing in planetary cycloidal pinwheel reducers. The company's mission adheres to the core concept of "strengthening quality, MAO Shi Innovation", and builds an integrated production system covering casting, precision processing, assembly, inspection and after-sales service. In China, there are intelligent manufacturing bases in regions such as Changzhou, Jiangsu Province, Xuancheng, Anhui Province, Foshan, Guangdong Province, Chengdu, Sichuan Province, and Vietnam in Southeast Asia, forming a global supply chain network. The company was founded in 2010.

Relying on its independently built full-process manufacturing system, the company was the first to introduce fully automatic casting production lines in the industry and possesses over 200 sets of advanced equipment such as precision machining centers and three-coordinate measuring machines. We have passed the ISO9001 quality system certification. Our products cover the three major planetary pendulum series of X/B/J and gear reducers, with a power range of 0.18-155kW, and are suitable for 12 industrial fields including plastic machinery, mining and metallurgy, petrochemicals, etc. The specially developed BJ series dedicated reducers, adopting planetary transmission and cycloidal meshing technology, have achieved a breakthrough of 15% energy efficiency improvement in the plastic machinery industry.

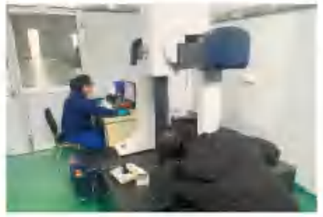
Based on the multi-base collaborative manufacturing model, the company has built a 300-kilometer service response circle, enabling timely supply for regular urgent orders. The technical team is equipped with a CAE simulation system and can provide customers with non-standard customized solutions. The R&D cycle of special specification products is controllable. The commissioning of the overseas base in Vietnam has rapidly improved the delivery efficiency of products in Southeast Asia, and the quality pass rate has reached the leading level in the industry.

The company has cumulatively obtained 32 national patents, participated in the formulation of 3 industry standards, and its products have passed international certifications such as CE and GOST. With solid manufacturing capabilities and continuous technological innovation, we are committed to providing global customers with cost-effective transmission solutions and promoting the efficiency upgrade of industrial equipment.













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一、B/X摆线针轮减速机
B/X Cycloidal Pinwheel Reducer

一、前言Preface

“强茂牌”摆线针轮减速机是采用 K-H-V 少齿差行星式传动原理及摆线针齿啮合的新颖传动机械，广泛应用于纺织印染、轻工食品、冶金矿山、石油化工、起重运输及工程机械等领域中的驱动和减速装置。

本厂生产的摆线针轮减速机质量优良、性能可靠、规格齐全、价格合理，荣获了机械工业部和江苏省优质产品称号。

“Qiangmao” cycloidal-pinwheel reducers are built on the innovative K-H-V planetary differential principle with minimal tooth difference and cycloidal-pin gear meshing. They are widely used as drive and speed-reduction units in textile dyeing, light-industry food processing, metallurgy and mining, petrochemicals, material handling, and construction machinery.

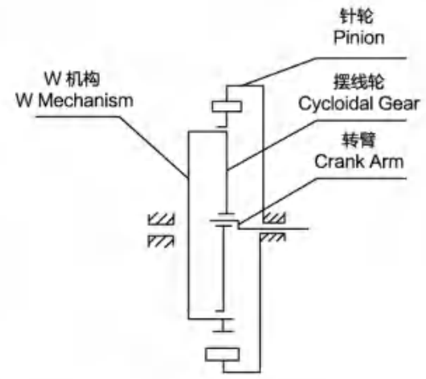
Manufactured in our plant, these reducers deliver superior quality, reliable performance, and a full range of specifications at competitive prices. They have been honored as “Top-Quality Products” by both the Ministry of Machinery Industry and Jiangsu Province.

二、结构原理 Structural Principle

行星摆线针轮减速机全部传动装置可分为三部分：输入部分、减速部分、输出部分。

在输入轴上装有一个错位 180° 的双偏心套，在偏心套上装有两个滚柱轴承，形成 H 机构，两个摆线轮的中心孔即为偏心套上转臂轴承的滚道，并由摆线轮与针齿轮上一组环形排列的针齿轮相啮哈，以组成少齿差内啮合减速机构。(为了减少摩擦，在速比小的减速机中，针齿上带有针齿套)。

当输入轴带着偏心套转动一周时，由于摆线轮上齿廓曲线的特点及其受针齿轮上针齿限制之故，摆线轮的运动成为即有公转又有自转的平面运动，在输入轴正转一周时，偏心套亦转动一周，摆线轮于相反方向上转过一个齿差从而得到减速，再借助 W 输出机构，将摆线轮的低速自转运动通过销轴，传递给输出轴，从而获得较低的输出转速。



The planetary cycloidal pinwheel reducer's entire transmission mechanism can be divided into three parts: the input section, the deceleration section, and the output section.

A double-eccentric sleeve with a 180 ° offset is mounted on the input shaft. Two cylindrical roller bearings are installed on the eccentric sleeve, forming an H mechanism. The center holes of the two cycloidal wheels serve as the raceways for the rotating arm bearings on the eccentric sleeve. The cycloidal wheels mesh with a set of circularly arranged pin teeth on the pin gear to form a small tooth difference internal meshing deceleration mechanism. (To reduce friction, pin tooth sleeves are installed on the pin teeth in reducers with a small speed ratio.)

When the input shaft rotates one revolution with the eccentric sleeve, due to the characteristics of the tooth profile curve of the cycloidal wheel and the constraint of the pin teeth on the pin gear, the movement of the cycloidal wheel becomes a planar motion that includes both revolution and rotation. When the input shaft rotates one revolution in the forward direction, the eccentric sleeve also rotates one revolution, and the cycloidal wheel rotates one tooth difference in the opposite direction, thereby achieving deceleration. Then, through the W output mechanism, the low-speed rotational motion of the cycloidal wheel is transmitted to the output shaft via the pin, resulting in a lower output speed.

三、特点Features

1. 高速比和高效率：单级传动就能拉到 1:87 的减速比，效率还稳在 90% 以上；再多加几级，减速比还能继续往上飙。
2. 结构紧凑体积小：行星结构把输入轴和输出轴直接摞到同一轴心，整机瞬间“瘦身”，占地更小。
3. 运转平稳噪声低：齿多、重叠大，自带“静音光环”，震动和噪音都被压得几乎听不见。
4. 使用可靠、寿命长：关键零件用轴承钢打造，靠滚动摩擦干活，皮实又耐用，用多久都不慌。
5. 过载能力强、耐冲击、惯性力矩小：过载、冲击随便来，惯量还小，频繁启停、正反转都顶得住。

1.High reduction ratio and efficiency: One stage gives you a 1:87 reduction right off the bat, with over 90 % efficiency. Add more stages and the ratio keeps climbing.
2.Compact, space-saving design: The planetary layout puts the input and output shafts on the same axis, so the unit stays slim and saves space.
3.Smooth and quiet operation: Plenty of teeth and a high contact ratio, plus built-in damping, keep vibration and noise to a whisper.
4.Reliable and long service life: Core parts are made from bearing-grade steel and run on rolling friction, so they’re tough and last for ages.
5.High overload capacity and low inertia: Handles overloads and shocks with ease, and its low inertia makes it perfect for constant start-stop or reversing duty.

1、机型号Model Number

一级 Single-stage	二级 two-stage	三级 three-stage
09	10	2009
0	20	310
1	31	420
2	41	531
3	42	631
4	52	742
5	53	852
6	63	953
7	74	
8	84	
9	85	
	95	

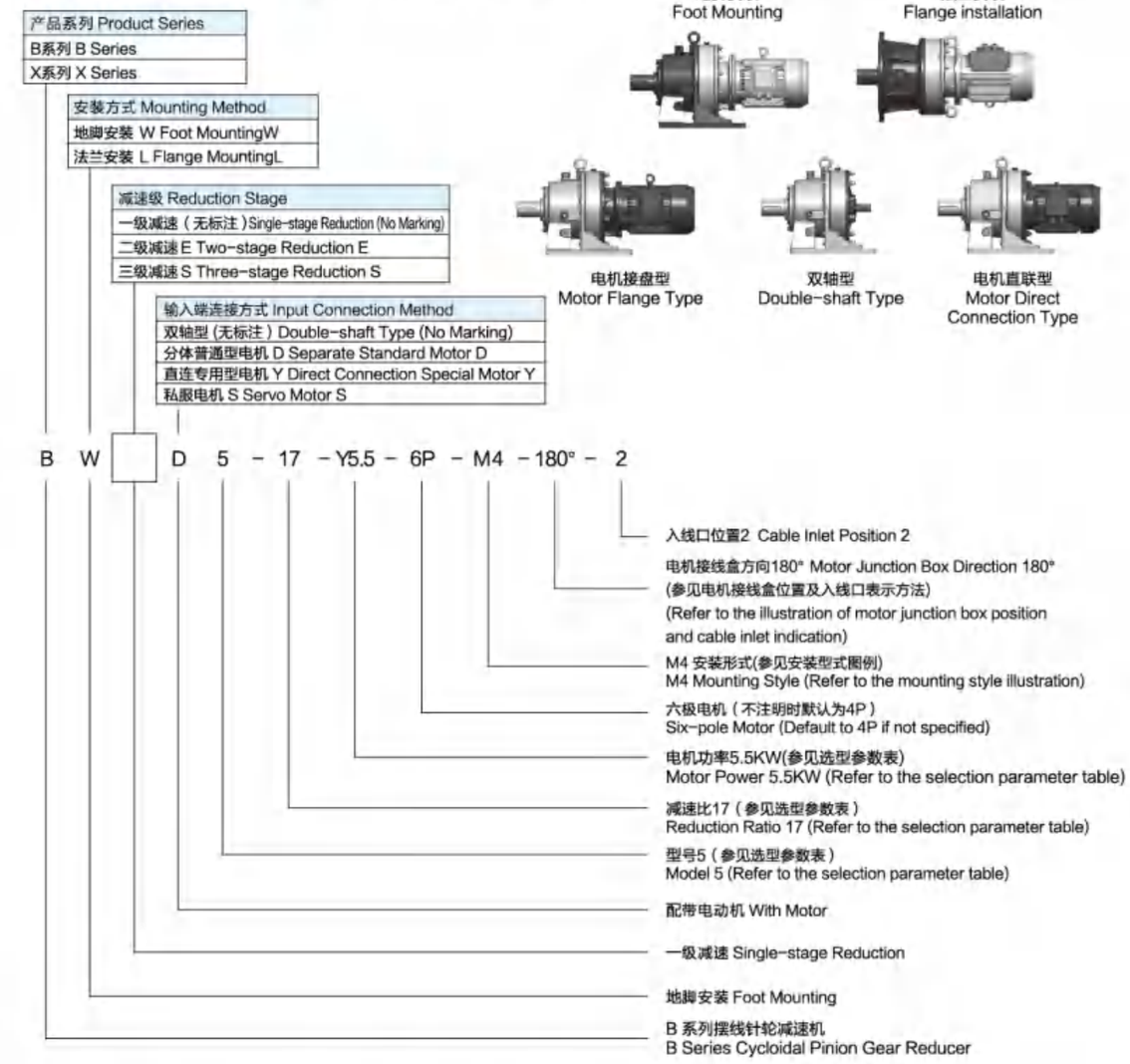
注：按结构型式分为：卧式、立式；按驱动器联接方式分为：双轴型、电机接盘型、电机直联型。
Note: It is classified into horizontal and vertical types according to the structural form; and into double-shaft type, motor flange type, and motor direct connection type according to the connection mode of the driver.

2、传动比Gear Ratio

一级 Single-stage	二级 two-stage		三级 three-stage
7	99 (9 x 11)	1505 (35 x 43)	见表7 refer to Table 7
9	121 (11 x 11)	1849 (43 x 43)	
11	187 (11 x 17)	2065 (35 x 59)	
17	289 (17 x 17)	2537 (43 x 59)	
23	391 (17 x 23)	3481 (59 x 59)	
29	493 (17 x 29)	4189 (59 x 71)	
35	595 (17 x 35)	5133 (59 x 87)	
43	731 (17 x 43)	7569 (87 x 87)	
59	841 (29 x 29)		
71	1003 (17 x 59)		
87	1225 (35 x 35)		

注：凡一级机型具有的传动比，二级、三级机型均可任意组合，如需其他传动比可与本公司技术部联系。
Note: The gear ratios of the single-stage models can be arbitrarily combined with two-stage and three-stage models. For other gear ratios, please contact our company's technical department.

3、型号表示方法 Method of Model Representation



4、摆线针轮减速机型号对照表 Model Comparison Table for Cycloidal Pinion Gear Reducer

减速机标准 Reducer Standard	一级Single-stage											
JB/T2982-94A	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12
JB/T2982-94B	B09	B0	B1	B2	B3	B4		B5	B6	B7	B8	B9
JB/T2982-81		B12	B15	B18	B22	B27		B33	B39	B45	B55	B65
减速机标准 Reducer Standard	二级two-stage											
JB/T2982-94A	X32	X42	X53	X63	X64	X74	X84	X85	X96	X106	X118	X128
JB/T2982-94B	B10	B20	B31	B41	B42		B52	B53	B63	B74	B85	B95
JB/T2982-81		B1812	B2215	B2715	B2718		B3318	B3322	B3922	B4527	B5533	B6533

注：不同标准相应机型号，性能指标基本相同，外形、安装和联接尺寸略有不同。用户尽量选用JB/T2982-94A、B标准。
Note: The corresponding machine models of different standards have basically the same performance indicators, with slight differences in appearance, installation and connection dimensions. Users are advised to choose the JB/T2982-94A, B standards.

5、承载能力Carrying capacity

单级传动减速机许用功率和许用转矩（负载系数K=1.00）Single-stage transmission reducer allowable power and allowable torque (load factor K=1.00)

机型号 Model number	许用输入功率 输出转矩 Allowable input power Output torque	传动比i Gear ratio i										许配功率范围 Allowable power range	
		9	11	17	23	29	35	43	59	71	87	Pmax	Pmin
输入转速n1 Input speed n1		1500（r/min）										电机极数4P	Motor poles 4P
B09	P(kW)	0.55	0.37	0.37	0.25	0.25	0.25	0.18				0.55	0.18
	T(N.m)	30	26	38	37	43	52	50					
B0	P(kW)	1.1	1.1	0.75	0.75	0.55	0.55	0.37	0.25			1.1	0.18
	T(N.m)	58	70	74	101	93	112	93	86				
B1	P(kW)	2.2	2.2	2.2	1.5	1.1	1.1	0.75	0.55	0.55		2.2	0.25
	T(N.m)	117	143	220	203	188	227	190	191	230			
B2	P(kW)	4	4	4	3	2.2	1.5	1.5	1.1	0.75	0.75	4	0.55
	T(N.m)	210	260	400	400	373	307	377	380	315	380		
B3	P(kW)	11	7.5	7.5	5.5	5.5	4	4	2.2	2.2	1.5	11	0.55
	T(N.m)	580	485	750	745	935	820	1010	765	915	765		
B4	P(kW)	11	11	11	11	7.5	7.5	5.5	4	4	3	11	2.2
	T(N.m)	580	713	1100	1485	1280	1540	1390	1390	1670	1530		
B5	P(kW)		18.5	18.5	18.5	15	15	11	7.5	7.5	5.5	18.5	2.2
	T(N.m)		1191	1842	2492	2547	3075	2770	2591	3119	2802		
B6	P(kW)								15	11	11	15	5.5
	T(N.m)								5183	4574	5605		
B7	P(kW)										15	15	11
	T(N.m)										7643		
输出转速n2（r/min） Output speed n2 (r/min)		167	136	88	65	52	43	35	25	21	17	与输入转速反向 Opposite to the input speed	
输入转速n1 Input speed n1		1 000（r/min）										电机极数6P	Motor poles6P
B09	P(kW)	0.37	0.25	0.25	0.18	0.18	0.18	0.12				0.37	0.12
	T(N.m)	30	25	37	37	45	55	45					
B0	P(kW)	0.75	0.75	0.55	0.55	0.37	0.37	0.25	0.18			0.75	0.12
	T(N.m)	59	72	80	110	94	112	93	93				
B1	P(kW)	1.5	1.5	1.5	1.1	1.1	0.75	0.55	0.37	0.37		1.5	0.18
	T(N.m)	118	145	224	220	275	230	205	190	225			
B2	P(kW)	3	3	3	2.2	1.5	1.1	1.1	0.75	0.55	0.55	3	0.37
	T(N.m)	235	290	448	445	385	340	415	388	343	420		
B3	P(kW)	7.5	5.5	5.5	4	4	3	3	1.5	1.5	1.1	7.5	0.37
	T(N.m)	593	531	820	810	1020	925	1135	775	935	840		
B4	P(kW)	7.5	7.5	7.5	7.5	5.5	5.5	4	3	3	2.2	7.5	1.5
	T(N.m)	593	735	1125	1520	1405	1700	1515	1560	1870	1680		
B5	P(kW)		11	11	11	11	11	7.5	5.5	5.5	4	11	1.5
	T(N.m)		1063	1642	2222	2802	3382	2833	2851	3430	3057		
B6	P(kW)		22	22	22	18.5	18.5	15	11	7.5	7.5	22	3
	T(N.m)		2126	3285	4445	4713	5688	5666	5702	4678	5732		
B7	P(kW)		37	37	37	37	30	22	18.5	18.5	15	37	11
	T(N.m)		3576	5526	7476	9427	9225	8311	9589	11540	11465		
B8	P(kW)		55	55	55	55	45	37	30	22	22	55	18.5
	T(N.m)		5315	8214	11114	14013	13838	13978	15551	13723	16816		
B9	P(kW)				75	75	55	55	45	37	30	75	30
	T(N.m)				15155	19109	16913	20778	23326	23080	22931		
输出转速n2（r/min） Output speed n2 (r/min)		111	91	59	43	34	29	23	17	14	11	与输入转速反向 Opposite to the input speed	

注：1、T=9550*P*i* η/n1（N.m）；P=T*n1/（9550*i* η）（kW），式中：一级传动效率 η取0.925

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转矩下使用。

Note: 1. T=9550 × P × η/n1（N · m）; P=T × n1/（9550 × η）（kW）. In the formula: the efficiency of single-stage transmission η is taken as 0.925

2. When selecting a motor-directly connected reducer, the actual motor power should comply with the allowable power range. If the configured motor power is greater than the allowable input power, the reducer is only allowed to be used under the specified allowable torque

二级传动减速机许用功率和许用转矩（负载系数K=1.00）

Two-stage transmission reducer allowable power and allowable torque (load factor K=1.00)

机型号 Model number	许用输入功率 输出转矩 Allowable input power Output torque	传动比i Gear ratio i										许配功率范围 Allowable power range	
		99	121	187	289	391	493	595	731	841	1003	Pmax	Pmin
		11x9	11x11	17x11	17x17	23x17	29x17	35x17	43x17	29x29	59x17		
输入转速n1 Input speed n1		1500(r/min)										电机极数4P	Motor poles 4P
B10	P(KW)	0.3	0.27	0.18	0.12	0.08	0.07	0.06	0.05	0.04	0.03	0.37	0.18
	T(N.m)	175	175	175	175	175	175	175	175	175	175		
B20	P(KW)	1.12	0.92	0.59	0.38	0.28	0.22	0.19	0.15	0.13	0.11	1.1	0.18
	T(N.m)	600	600	600	600	600	600	600	600	600	600		
B31	P(KW)	2.2	1.91	1.24	1.08	0.59	0.47	0.39	0.32	0.27	0.23	2.2	0.25
	T(N.m)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250		
B41	P(KW)	2.2	2.2	2.2	1.6	1.18	0.94	0.78	0.63	0.55	0.46	2.2	0.25
	T(N.m)	1179	1441	2226	2500	2500	2500	2500	2500	2500	2500		
B42	P(KW)	4	3.82	2.47	1.6	1.18	0.94	0.78	0.63	0.55	0.46	4	0.55
	T(N.m)	2143	2500	2500	2500	2500	2500	2500	2500	2500	2500		
B52	P(KW)	4.1	4	4	3.2	2.36	1.87	1.55	1.26	1.1	0.92	4	0.55
	T(N.m)	2143	2619	4048	5000	5000	5000	5000	5000	5000	5000		
B53	P(KW)	9.3	7.5	4.94	3.2	2.36	1.87	1.55	1.26	1.1	0.92	7.5	0.55
	T(N.m)	5000	4911	5000	5000	5000	5000	5000	5000	5000	5000		
B63	P(KW)	11	7.5	7.5	5.64	4.19	3.32	2.75	2.24	1.95	1.62	7.5	0.55
	T(N.m)	5893	4916	7590	8820	8820	8820	8820	8820	8820	8820		
B74	P(KW)			11	7.67	5.67	4.5	3.73	3.03	2.64	2.21	11	2.2
	T(N.m)			11132	12000	12000	12000	12000	12000	12000	12000		
B84	P(KW)			11	10.27	7.59	6	5	4	3.53	3	11	2.2
	T(N.m)			11132	16000	16000	16000	16000	16000	16000	16000		
B85	P(KW)			15	13.8	10.2	8.1	6.7	5.47	4.75	3.9	15	2.2
	T(N.m)			16430	21560	21560	21560	21560	21560	21560	21560		
B95	P(KW)					13.9	11	9.15	7.46	6.48	5.43	15	2.2
	T(N.m)					29400	29400	29400	29400	29400	29400		
输出转速n2（r/min） Output speed n2 (r/min)		14.5	11.9	8.02	5.19	3.84	3.04	2.52	2.05	1.78	1.5	与输入转速同向 Same direction as the input speed	

机型号 Model number	许用输入功率 输出转矩 Allowable input power Output torque	传动比i Gear ratio i										许配功率范围 Allowable power range	
		1225	1505	1849	2065	2537	3481	4189	5133	7569		Pmax	Pmin
		35x35	43x35	43x43	59x35	59x43	59x59	71x59	87x59	87x87			
输入转速n1 Input speed n1		1500(r/min)										电机极数4P	Motor poles 4P
B10	P(KW)	0.02	0.02	0.01	0.01	0.01	0.01	0.01				0.18	0.18
	T(N.m)	150	150	150	150	150	150	150					
B20	P(KW)	0.09	0.07	0.06	0.05	0.04	0.03	0.03	0.02			0.18	0.18
	T(N.m)	600	600	600	600	600	600	600	600				
B31	P(KW)	0.19	0.15	0.12	0.11	0.09	0.07	0.06	0.04			0.55	0.55
	T(N.m)	1250	1250	1250	1250	1250	1250	1250	1250				
B41	P(KW)	0.38	0.31	0.25	0.22	0.18	0.13	0.11	0.09			0.55	0.55
	T(N.m)	2500	2500	2500	2500	2500	2500	2500	2500				
B52	P(KW)	0.75	0.61	0.5	0.45	0.36	0.27	0.22	0.18	0.12		1.1	0.55
	T(N.m)	5000	5000	5000	5000	5000	5000	5000	5000	5000			
B63	P(KW)	1.33	1.08	0.88	0.79	0.64	0.47	0.39	0.31	0.21		1.1	1.1
	T(N.m)	8820	8820	8820	8820	8820	8820	8820	8820	8820			
B74	P(KW)	1.81	1.47	1.2	1.07	0.87	0.64	0.53	0.43	0.29		2.2	2.2
	T(N.m)	12000	12000	12000	12000	12000	12000	12000	12000	12000			
B84	P(KW)	2.42	1.97	1.6	1.43	1.17	0.85	0.7	0.57	0.39		3	2.2
	T(N.m)	16000	16000	16000	16000	16000	16000	16000	16000	16000			
B85	P(KW)	3.26	2.67	2.16	1.95	1.58	1.15	0.96	0.77	0.53		4	4
	T(N.m)	21560	21560	21560	21560	21560	21560	21560	21560	21560			
B95	P(KW)	4.45	3.62	2.95	2.64	2.15	1.56	1.3	1.06	0.71		5.5	4
	T(N.m)	29400	29400	29400	29400	29400	29400	29400	29400	29400			
输入转速n2（r/min） Intput speed n2 (r/min)		1.22	1	0.81	0.73	0.59	0.43	0.36	0.29	0.2		与输入转速同向 Same direction as the input speed	

注：1、T=9550Pi η/n1（N.m）；P=Tn1/（9550i η）（kW）。式中：二级传动效率 η取0.85

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转矩下使用。

3、输出轴许用径向力参照三级传动。

Note: 1. T=9550 × P × η/n1（N · m）; P=T × n1/（9550 × η）（kW）. In the formula: the efficiency of two-stage transmission η is taken as 0.85

2.When selecting a motor-directly connected reducer, the actual motor power should comply with the allowable power range. If the configured motor power is greater than the allowable input power, the reducer is only allowed to be used under the specified allowable torque

3.The allowable radial force of the output shaft refers to the three-stage transmission

三级传动 Three-stage transmission　　表7 Table7

机型号Model number	B2009	B310	B420	B531	B631	B742	B852	B953
输出轴许用径向力（N）Output shaft allowable radial force (N)	10000	12000	15000	40000	60000	70000	100000	180000
许用输出转矩（N.m）Allowable output torque (N · m)	600	1250	2500	5000	8820	12000	21560	29400
传动比 Gear ratio								
11 X 17 X 43=8041	9 X 43 X 43=16641		23 X 23 X 59=31211		11 X 59 X 87=56463		23 X 59 X 87=118059	
17 X 17 X 29=8381	17 X 23 X 43=16813		9 X 59 X 59=31329		23 X 35 X 71=57155		29 X 59 X 71=121401	
11 X 11 X 71=8591	17 X 17 X 59=17051		17 X 43 X 43=31433		23 X 29 X 87=58029		35 X 59 X 59=121835	
9 X 11 X 87=8613	17 X 29 X 35=17255		11 X 35 X 87=33495		23 X 43 X 59=58351		17 X 87 X 87=128673	
11 X 23 X 35=8855	11 X 23 X 71=17963		11 X 43 X 71=33583		17 X 59 X 59=59177		35 X 43 X 87=130935	
9 X 23 X 43=8901	9 X 23 X 87=18009		9 X 43 X 87=33669		29 X 29 X 71=59711		43 X 43 X 71=131279	
17 X 23 X 23=8993	23 X 23 X 35=18515		17 X 23 X 87=34017		29 X 35 X 59=59885		23 X 71 X 87=142071	
9 X 17 X 59=9027	9 X 29 X 71=18531		23 X 35 X 43=34615		17 X 43 X 87=63597		29 X 71 X 71=146189	
9 X 29 X 35=9135	9 X 35 X 59=18585		17 X 29 X 71=35003		35 X 43 X 43=64715		35 X 59 X 71=146615	
11 X 29 X 29=9251	11 X 29 X 59=18821		17 X 35 X 59=35105		11 X 71 X 87=67947		29 X 59 X 87=148857	
17 X 17 X 35=10115	23 X 29 X 29=19343		29 X 35 X 35=35525		9 X 87 X 87=68121		43 X 59 X 59=149683	
11 X 11 X 87=10527	11 X 43 X 43=20339		29 X 29 X 43=36163		23 X 35 X 87=70035		43 X 43 X 87=160863	
9 X 17 X 71=10863	17 X 17 X 71=20519		23 X 23 X 71=37559		23 X 43 X 71=70735		23 X 87 X 87=174087	
11 X 23 X 43=10879	17 X 35 X 35=20825		9 X 59 X 71=37701		17 X 59 X 71=71213		35 X 71 X 71=176435	
9 X 35 X 35=11025	17 X 29 X 43=21199		11 X 59 X 59=38291		29 X 35 X 71=72065		29 X 71 X 87=179133	
11 X 17 X 59=11033	11 X 23 X 87=22011		23 X 29 X 59=39353		35 X 35 X 59=72275		35 X 59 X 87=179655	
9 X 35 X 35=11027	9 X 35 X 71=22365		11 X 43 X 87=41151		29 X 29 X 87=73167		43 X 59 X 71=180127	
11 X 29 X 35=11165	11 X 29 X 71=22649		17 X 35 X 71=42245		29 X 43 X 59=73573		59 X 59 X 59=205379	
9 X 29 X 43=11223	9 X 29 X 87=22707		23 X 43 X 43=42527		43 X 43 X 43=79507		35 X 71 X 87=216195	
17 X 23 X 29=11339	11 X 35 X 59=22715		35 X 35 X 35=42875		23 X 59 X 59=80063		43 X 71 X 71=216763	
23 X 23 X 23=12167	23 X 23 X 43=22747		17 X 29 X 87=42891		11 X 87 X 87=83259		29 X 87 X 87=219501	
9 X 23 X 59=12213	9 X 43 X 59=22833		17 X 43 X 59=43129		17 X 71 X 71=85697		43 X 59 X 87=220719	
17 X 17 X 43=12427	17 X 23 X 59=23069		29 X 35 X 43=43645		23 X 43 X 87=86043		59 X 59 X 71=247151	
11 X 17 X 71=13277	23 X 29 X 35=23345		9 X 71 X 71=45369		35 X 35 X 71=86975		35 X 87 X 87=264915	
9 X 17 X 87=13311	29 X 29 X 29=24389		23 X 23 X 87=46023		17 X 59 X 87=87261		43 X 71 X 87=265611	
11 X 35 X 35=13475	17 X 17 X 87=25143		11 X 59 X 71=46079		29 X 35 X 87=88305		59 X 71 X 71=297419	
9 X 35 X 43=13545	17 X 35 X 43=25585		9 X 59 X 87=46179		29 X 43 X 71=88537		59 X 59 X 87=302847	
17 X 23 X 35=13685	11 X 35 X 71=27335		23 X 29 X 71=47357		35 X 43 X 59=88795		43 X 87 X 87=325467	
11 X 29 X 43=13717	9 X 35 X 87=27405		23 X 35 X 59=47495		23 X 59 X 71=96347		71 X 71 X 71=357911	
17 X 29 X 29=14297	9 X 43 X 71=27477		29 X 29 X 59=49619		29 X 59 X 59=100949		59 X 71 X 87=364443	
9 X 23 X 71=14697	11 X 29 X 87=27753		17 X 35 X 87=51765		17 X 71 X 87=105009		71 X 71 X 87=438567	
11 X 23 X 59=14927	17 X 23 X 71=27761		17 X 43 X 71=51901		35 X 35 X 87=106575		59 X 87 X 87=446571	
23 X 23 X 29=15341	11 X 43 X 59=27907		35 X 35 X 43=52675		35 X 43 X 71=106855		71 X 87 X 87=537399	
9 X 29 X 59=15399	23 X 35 X 35=28175		29 X 43 X 43=53621		29 X 43 X 87=108489		87 X 87 X 87=658503	
11 X 17 X 87=16269	17 X 29 X 59=29087		11 X 71 X 71=55451		43 X 43 X 59=109091			
11 X 35 X 43=16555	28 X 28 X 35=29435		9 X 71 X 87=55693		23 X 71 X 71=115943			

注：凡单级机型具有传动比，三级机型均可任意组合，如需其他传动比可与本公司技术部联系。
Note: Any gear ratio that a single-stage model has can be arbitrarily combined with three-stage models. If other gear ratios are needed, please contact our company's technical department.

一级传动输出轴许用径向力表 Single-stage transmission output shaft allowable radial force table

机型号 Model number	传动比 Gear ratio	11	17	23	29	35	43	59	71	87
B09	输出轴许用径向力(N) Output shaft allowable radial force (N)	700	800	800	1010	1010	1010			
B0		1660	1900	2040	2390	2390	2500	2500		
B1		2230	2550	2750	3210	3210	3620	4050	4360	
B2		3460	3960	4260	4980	4980	5630	6250	6770	6770
B3		4940	5660	6100	7130	7130	8050	8990	9690	9690
B4		6680	7650	8240	9630	9630	10870	12140	13080	13080
B5		12850	17460	18520	20900	22000	22000	23400	25200	27600
B6		27200	29100	33500	37300	39100	41300	41300	44100	44100
B7		34100	39800	39800	46800	49100	51800	55400	60400	60400
B8			50400	53700	59300	62100	65600	70100	76400	76400
B9				101000	101000	101000	125000	132000	132000	132000

6、选型说明 Selection instructions

1、选择减速机安装结构形式 Select the reducer installation structure form

a）选择标准安装结构形式；
b）可选择各种特殊安装结构形式并确定补充代号。
a) Select the standard installation structure form;
b) Various special installation structure forms can be selected and the supplementary code can be determined.

2、电机直联型减速机是否需要特殊动力源? Does the motor-directly connected reducer need a special power source?

可选择各种特殊动力源类型并确定补充代号。
Various types of special power sources can be selected and the supplementary code can be determined.

3、确定负载系数K = ? Determine the load factor K = ?

a）根据配套设备的用途，查表9 确定负载分类（载荷性质）；
b）根据负载分类、及工作条件（使用 - 小时/天），查表10确定负载系数K。
a) According to the purpose of the matching equipment, refer to Table 9 to determine the load classification (load nature);
b) According to the load classification and working conditions (usage - hours/day), refer to Table 10 to determine the load factor K.

4、确定减速机输入转速n1=? Determine the reducer input speed n1 = ?

a）减速机的最高输入转速为1500r/min
b）电机直联型标准配置为4极电机、同步转速1500r/min，6极电机、同步转速1000r/min；；
c）当采用调整电机或变速装置驱动时，如载荷是恒功率应取最低转速，恒转矩则取最高转速。
a) The maximum input speed of the reducer is 1500r/min;
b) The standard configuration of the motor-directly connected type is a 4-pole motor with a synchronous speed of 1500r/min, and a 6-pole motor with a synchronous speed of 1000r/min;
c) When using an adjustable motor or a speed-changing device to drive, if the load is constant power, the minimum speed should be taken, and if it is constant torque, the maximum speed should be taken.

5、确定减速机传动比i=? Determine the reducer gear ratio i = ?

a）根据配套设备的需要，确定减速机输出转速n2=? (r/min)；
b）计算传动比i=n1/n2并查表5或表6确定
a) According to the needs of the matching equipment, determine the reducer output speed n2 = ? (r/min);
b) Calculate the gear ratio i = n1/n2 and refer to Table 5 or Table 6 to determine.

6、确定减速机输入功率P1=?或需用输出转矩T2=? Determine the reducer input power P1 = ? Or the required output torque T2 = ?

方法一：P1=T2 n1/(9550 i η)(kW)；
方法二：T2=9550P1 i η/n1（N.m）
式中：一级传动的效率 η 取0.925，二级传动效率 η 取0.85。
Method one: P1 = T2n1/(9550 i η) (kW);
Method two: T2 = 9550P1(η/n1 (N · m)
In the formula: the efficiency of single-stage transmission η is taken as 0.925, and the efficiency of two-stage transmission η is taken as 0.85.

7、计算选型用当量输入功率Pd = ? 或当量输出转矩Td=? Calculate the equivalent input power Pd = ? Or the equivalent output torque Td = ? for selection

方法一：根据负载系数K，计算选型用当量输入功率Pd=KP1（kW）；
方法二：根据负载系数K，计算选型用当量输入转矩Td=KT2（N.m）；
Method one: According to the load factor K, calculate the equivalent input power Pd = KP1 (kW);
Method two: According to the load factor K, calculate the equivalent input torque Td = KT2 (N · m);

8、选定减速机的产品系列与机座号No=? Select the product series and frame number No = ? of the reducer

根据以上综合参数，查表5和查表6即可选定减速机的产品系列与机座号；
方法一：当量输入功率应小于或等于表中所列的许用输入功率，即Pd≤p；
方法二：当量输出转矩应小于或等于表中所列的许用输出转矩，即Td≤T；
According to the above comprehensive parameters, refer to Table 5 and Table 6 to select the product series and frame number of the reducer;
Method one: The equivalent input power should be less than or equal to the allowable input power listed in the table, that is, Pd ≤ p;
Method two: The equivalent output torque should be less than or equal to the allowable output torque listed in the table, that is, Td ≤ T.

示 例1 Example 1:

已知　送料不均匀的皮带运输机，每天工作12小时，输入功率P_1=0.75kW，输出转速n_2=35r/min选用脚板形卧式安装、电机直联型减速机、配4极电机。

Known: The belt conveyor with uneven feeding works 12 hours a day, with an input power P_1 = 0.75kW and an output speed n_2 = 35r/min. A footboard-type horizontal installation, motor-directly connected reducer, and a 4-pole motor are selected.

选型 Selection:

1.安装结构形式号为WD;
2.查表9负载分类为M, 查表10负载系数K=1.35;
3.输入转速n_1=1500r/min;
4.传动比i=1500/35=42.86,选43;
5.选配电机功率0.75kW;
6.当量输入功率Pd=1.35X1.75=1.01kW,查表5选用机座号为2,许用输入功率为P=1.5KW>Pd=1.01kW,减速机允许按电机配置功率全容量使用，选型通过

1.Installatio type: WD.
2.Load class M per table 9, load factor K = 1.35 per table 10.
3.Input speed n_1 = 1500 r/min.
4.Ratio i = 1500 / 35 = 42.86 → selected 43.
5.Matched motor power = 0.75 kW.
6.Equivalent input power Pd = 1.35 × 0.75 = 1.01 kW.
Per table 5, frame size 2 allows 1.5 kW > 1.01 kW, so the reducer can run at full motor power—selection approved.

减速机型号：BWD2-43-0.75　Reducer model: BWD2-43-0.75

示例2 Example 2:

已知　日用化妆品搅拌器，混合料，全天工作，需用输出转矩T_2=50N.m　输出转速n_2=60r/min　输入转速n_1=1000r/min 选用法兰形立式安装，双轴性减速机、自配电机。

For an all-day cosmetic mixer handling mixed materials, required output torque T_2 = 50 N · m and output speed n_2 = 60 r/min; input speed n_1 = 1000 r/min. Flange-mounted vertical (L-type), double-shaft reducer, motor not supplied.

选型Selection:

1.安装结构形式代号为L;
2.查表9负载分类为M, 查表10负载系数K=1.35;
3.输入转速n_1=1000r/min;
4.传动比i=1000/60=16.67，　选17;
5.不配电机
6.当量输出转矩Td=1.35×50=67.5N.m，　查表5选用机座号为0,许用输出转矩为T=74N.m>Td=67.5N.m　减速机允许按输出转矩使用，选型通过。

1.Installation code: L.
2.Load class M (Table 9), load factor K = 1.35 (Table 10).
3.Input speed n_1 = 1000 r/min.
4.Ratio i = 1000/60 = 16.67 → selected 17.
5.Motor not supplied.
6.Equivalent output torque Td = 1.35 × 50 = 67.5 N · m; per Table 5, frame size 0 allows T = 74 N · m > 67.5 N · m. The reducer is therefore approved for the required torque.

减速机型号：BL0-17 Reducer model: BL0-17

负载分类Load classification　　表9 Table9

用 途 Purpose		负载分类 Load classification	用 途 Purpose		负载分类 Load classification
搅拌器 Mixer	纯液体 Pure liquid	U	石油工业 Petroleum industry	石蜡压滤机 Paraffin press filter	M
	液体和固体 Liquid and solid	M		结晶品冷凝器\回转炉 Crystallizer condenser/Rotary furnace	M
	液体(密度可变) Liquid (variable density)	M	*塑料机械 *Plastic machinery	挤出机(颗粒\棒料管料) Extruder (pellet/rod/bar)	U
鼓风机 Blower	离心式\叶片式 Centrifugal/Bladed	U		吹塑机 Blow molding machine	M
	叶轮式 Impeller type	M	*橡胶机械 *Rubber machinery	破胶机\混炼机 Gum breaker/Kneader	H
压缩机 Compressor	离心式 Centrifugal	U		精练机压延机 Refining machine calender	M
	叶轮式\多缸往复式 Impeller type/Multi-cylinder reciprocating	M	纺织机械 Textile machinery	织布机梳棉机\轧布机 Loom/Comber/Roller	M
	单缸往复式 Single-cylinder reciprocating	H		纺纱机洗涤机\印染机 Spinning machine/Washing machine/Dyeing machine	M
运输机械 Conveyor machinery	送料均匀 Uniform feeding	U	食品机械 Food machinery	灌瓶机\包装机 Bottle filler/Packaging machine	U
	送料均匀 Uniform feeding	M		甘蔗粉碎机\切断机*压榨机 Sugarcane crusher/Cutter/*Press	M
	往复、振动式 Reciprocating, Vibrating	H		搅拌机\绞肉机 Mixer/Meat grinder	M
*卷扬机(绞车) *Hoist (winch)	重型的 Heavy-duty	H		酱状物吊桶 Sauce bucket	M
	中型的 Medium-duty	M		碾米机 Rice mill	U
*石料机械 *Stone machinery	球磨机\筒形磨机 Ball mill/Tubular mill	H		糖甜菜清洗机\切断机 Sugar beet washer/Cutter	M
	粉碎机\破碎机\转炉 Crusher/Breaker/Converter	H	其化机械 Other chemical machinery	连续单向运转、稳写载荷 Continuous unidirectional operation, stable load	U
一般陶瓷机械 General ceramic machinery		M		中等冲击载荷 Moderate impact load	M
医疗机械 Medical machinery		U		大的冲击载荷 High impact load	H

注：　1.负载分类：U表示稳定载荷，　M表示中等冲击载荷，　H表示大的冲击载荷；
　　2.*表示工况恶劣。因此载确定下有负载系数K时，应按每天使用24小时工作条件选择。

Note: 1. Load classification: U indicates stable load, M indicates moderate impact load, H indicates high impact load;
　　2.* indicates harsh working conditions. Therefore, when determining the load factor K, the selection should be based on a 24-hour working condition per day.

负载系数K Load factor K

工作条件 Working conditions (使用-小时/每天) (Usage ~ hours/day)	负载分类(载荷性质) Load classification (load nature)		
	U	M	H
	(稳定Stable)	(中等冲击Moderate impact)	(大的冲击A big impact)
断续≤3 Intermittent≤3	0.80	1.00	1.35
≤10	1.00	1.20	1.50
连续>10~24 Continuous>10~24	1.20	1.35	1.60

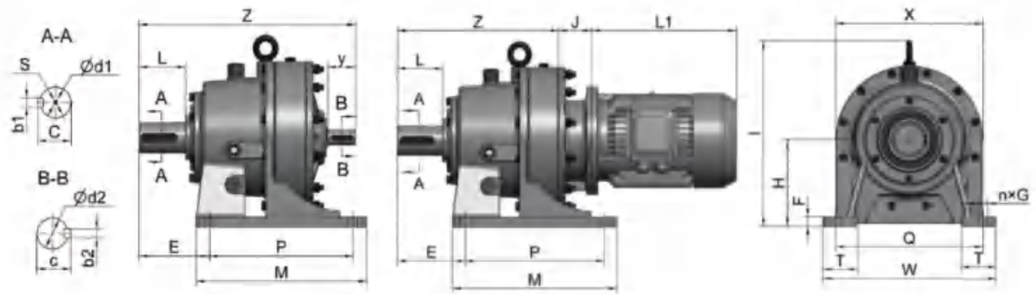
注：1.本公司减速机产品是按稳定载荷下每天使用10小时设计的，负载系数K=1.00；
　　2.由于配套设备的工况条件不同，因此在选型时，应按本表所列负载系数进行修正。

1. Our company's reducer products are designed for 10 hours of use per day under stable load conditions, with a load factor K = 1.00;
2. Due to the different working conditions of the matching equipment, the load factor listed in this table should be used for correction during the selection process.

四 外形及安装尺寸 Contour and installation dimensions

4.1 BW、BWD、XW、XWD型（单级）外形安装尺寸

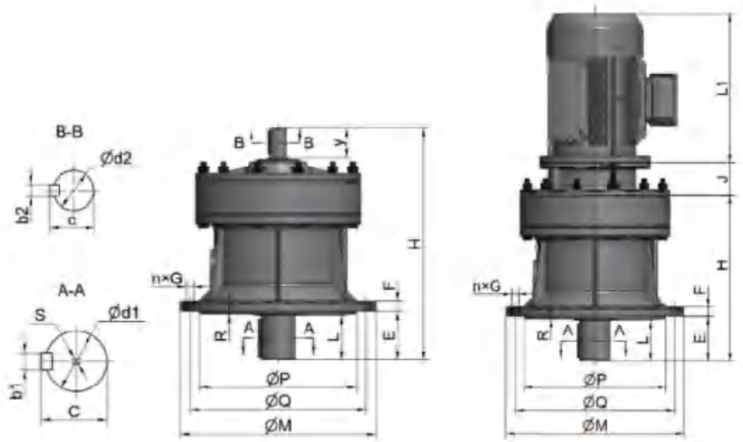
4.1 Contour and installation dimensions of BW, BWD, XW, XWD models (single-stage)



机型号 Model number	中心高 H Center height H	轴端尺寸Shaft end dimensions								安装尺寸Installation dimensions									外形尺寸 Contour dimensions				
		输出轴Output shaft				输入轴 Input shaft													Z				
		d1 (h6)	b1	C	L	d2 (h6)	b2	c	y	E	F	P	Q	S	T	N	ΦG	M	W	BW	BWD	I	X
BW.BWD09-9																							
B09	80	22	6	24.5	30	15	5	17	22	46.5	12	76	120	M5	30	4	11	100	144	192	142	155	140
B0	100	30	8	33	35	15	5	17	22	94	15	90	150	M8	35	4	11	120	185	214	165	190	168
B1	120	35	10	38	56	18	6	20.5	35	125	14	110	240	M10	55	4	13	160	280	263	194	250	200
B2	140	45	14	48.5	71	22	6	24.5	40	144	19	150	280	M10	60	4	13	200	320	320	246	296	240
B3	160	55	16	59	80	30	8	33	55	156	23	200	340	M12	75	4	17	250	390	390	294	355	300
B4	200	70	20	74.5	104	35	10	38	62	157	23	320	340	M12	80	4	22	380	400	481	370	430	340
B5	240	90	25	95	122	45	14	48.5	70	160	33	380	420	M16	80	4	22	440	470	564	438	513	400
B6	280	100	28	106	139	50	14	53.5	80	199	35	440	500	M20	90	4	26	520	560	670	528	605	500
B7	325	110	28	116	150	55	16	59	90	230	45	250×2	630	M24	105	6	30	600	690	775	578	706	575
B8	420	130	32	137	202	70	20	74.5	120	325	50	330×2	800	M30	140	6	32	810	880	1063	814	880	700
B9	540	180	45	190	327	90	25	95	150	481	58	420×2	1050	M42	200	6	45	1040	1160	1458	1151	1160	950
XW.XWD1-12																							
X1	100	25	8	28	35	15	5	17	22	61	12	90	150	M5	30	4	12	120	180	199	147	175	140
X2	100	25	8	28	33	15	5	17	22	101	15	90	180	M8	45	4	12	120	210	216	164	190	168
X3	140	35	10	38	56	18	6	20.5	35	152	18	100	250	M10	60	4	16	150	290	263	194	270	200
X4	150	45	14	48.5	73	22	6	24.5	40	168	19	145	290	M10	65	4	16	195	330	324	246	316	240
X5	160	55	16	59	91	30	8	33	55	204	23	150	370	M12	70	4	16	260	410	401	305	356	300
X6	200	65	18	69	89	35	10	38	62	125	27	275	380	M12	75	4	22	335	430	466	359	425	340
X7	220	80	22	85	107	40	12	43	65	143	27	320	420	M12	90	4	22	380	470	486	377	484	340
X8	250	90	25	95	122	45	14	48.5	70	157	35	380	480	M16	100	4	22	440	530	564	438	514	400
X9	290	100	28	106	141	50	14	53.5	80	186	40	480	560	M20	120	4	26	560	620	691	551	614	500
X10	325	110	28	116	150	55	16	59	90	230	45	250×2	630	M24	105	6	30	600	690	775	578	706	575
X11	420	130	32	137	202	70	20	74.5	120	325	50	330×2	800	M30	140	6	32	810	880	1063	814	880	700
X12	540	180	45	190	327	90	25	95	150	481	58	420×2	1050	M42	200	6	45	1040	1160	1458	1151	1160	950

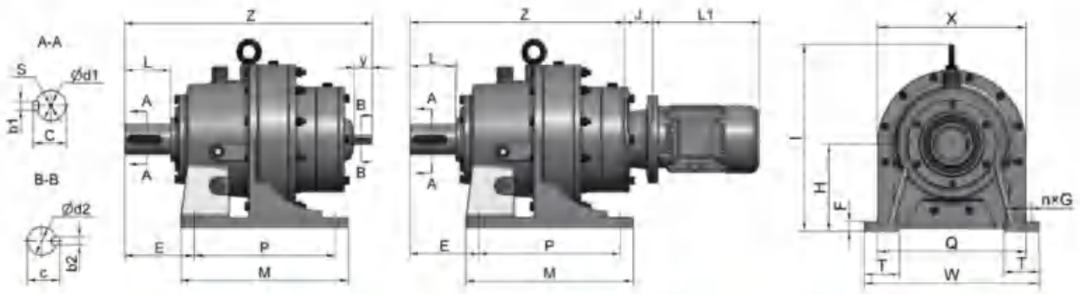
4.2 BL、BLD、XLW、XLD型（单级）外形安装尺寸

4.2 Contour and installation dimensions of BW, BWD, XW, XWD models (single-stage)



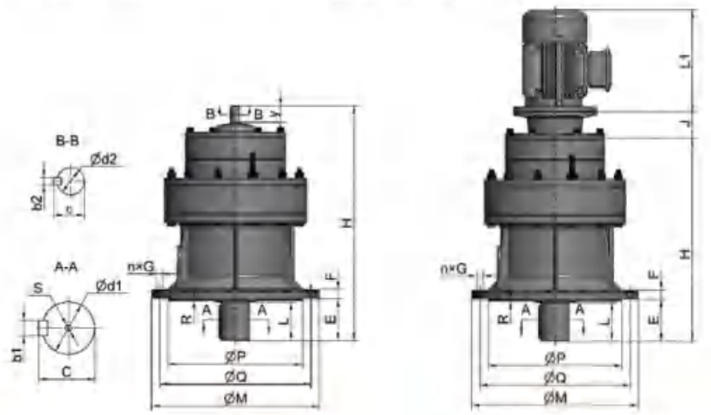
机型号 Model number	轴端尺寸Shaft end dimensions								安装尺寸Installation dimensions								外形尺寸 Contour dimensions		
	输出轴Output shaft				输入轴 Input shaft												H		
	d1 (h6)	b1	C	L	d2 (h6)	b2	c	y	E	F	ΦG	N	P (h9)	Q	R	S	BL	BLD	M
BL.BLD09-9																			
B09	22	6	24.5	30	15	5	17	22	35	10	11	4	110	134	3	M5	192	142	159
B0	30	8	33	35	15	5	17	22	39	14	11	4	140	160	3	M8	214	165	188
B1	35	10	38	47	18	6	20.5	35	61	15	11	6	170	200	4	M10	263	194	230
B2	45	14	48.5	61	22	6	24.5	40	70	16	11	6	200	230	4	M10	320	246	260
B3	55	16	59	74	30	8	33	55	79	20	13	6	270	310	4	M12	390	294	340
B4	70	20	74.5	92	35	10	38	62	100	22	15	8	320	360	5	M12	479	370	400
B5	90	25	95	110	45	14	48.5	70	118	30	18	12	400	450	5	M16	564	438	490
B6	100	28	106	130	50	14	53.5	80	138	35	22	12	460	520	8	M20	668	528	580
B7	110	28	116	142	55	16	59	90	182	40	22	12	520	590	10	M24	775	578	650
B8	130	32	137	202	70	20	74.5	120	211	50	38	12	680	800	10	M30	1061	814	880
B9	180	45	190	320	90	25	95	150	370	60	39	8	900	1020	10	M42	1459	1151	1160
XW.XWD1-12																			
X1	25	8	28	36	15	5	17	22	41	10	12	4	110	134	3	M5	201	147	159
X2	25	8	28	33	15	5	17	22	39	14	12	6	130	160	3	M8	216	164	180
X3	35	10	38	47	18	6	20.5	35	51	15	12	6	170	200	4	M10	263	194	230
X4	45	14	48.5	63	22	6	24.5	40	79	15	12	6	200	230	4	M10	324	250	260
X5	55	16	59	85	30	8	33	55	90	20	13	6	270	310	4	M12	401	305	340
X6	65	18	69	80	35	10	38	62	90	22	16	8	316	360	5	M12	466	359	400
X7	80	22	85	97	40	12	43	65	114	22	18	8	345	390	5	M12	486	377	430
X8	90	25	95	110	45	14	48.5	70	118	30	18	12	400	450	5	M16	564	438	490
X9	100	28	106	134	50	14	53.5	80	170	35	22	12	455	520	8	M20	694	551	580
X10	110	28	116	142	55	16	59	90	182	40	22	12	520	590	10	M24	775	578	650
X11	130	32	137	202	70	20	74.5	120	211	50	38	12	680	800	10	M30	1061	814	880
X12	180	45	190	320	90	25	95	150	370	60	39	8	900	1020	10	M42	1459	1151	1160

4.3 BWE、BWED、XWE、XWED型（双级）外形安装尺寸
4.3 Contour and installation dimensions of BWE, BWED, XWE, XWED models (two-stage)



机型号 Model number	中心高 H Center height H	轴端尺寸Shaft end dimensions								安装尺寸Installation dimensions								外形尺寸 Contour dimensions					
		输出轴Output shaft				输入轴 Input shaft														Z		I	X
		d1 (h6)	b1	C	L	d2 (h6)	b2	c	y	E	F	P	Q	S	T	N	ΦG	M	W	BWE	BWED		
BWE.BWED10-95																							
B10	120	35	10	38	56	15	5	17	22	125	14	110	240	M10	55	4	13	160	280	317	267	250	200
B20	140	45	14	48.5	71	15	5	17	22	144	19	150	280	M10	60	4	13	200	320	369	315	306	240
B31	160	55	16	59	80	18	6	20.5	35	156	23	200	340	M12	75	4	17	250	390	443	376	356	300
B41	200	70	20	74.5	104	18	6	20.5	35	157	23	320	340	M12	80	4	22	380	400	523	454	425	340
B42	200	70	20	74.5	104	22	6	24.5	40	157	23	320	340	M12	80	4	22	380	400	554	479	425	340
B52	240	90	25	95	122	22	6	24.5	40	160	33	380	420	M16	80	4	22	440	470	623	548	504	400
B53	240	90	25	95	122	30	8	33	55	160	33	380	420	M16	80	4	22	440	470	661	561	504	400
B63	280	100	28	106	139	30	8	33	55	199	35	440	500	M20	90	4	26	520	560	746	645	605	500
B64	280	100	28	106	139	35	10	38	62	199	35	440	500	M20	90	4	26	520	560	783	671	605	500
B74	325	110	28	116	150	35	10	38	62	230	45	250×2	630	M24	105	6	30	600	690	836	725	706	575
B84	420	130	32	137	202	35	10	38	62	325	50	330×2	800	M30	140	6	32	810	880	1074	962	880	700
B85	420	130	32	137	202	45	14	48.5	70	325	50	330×2	800	M30	140	6	32	810	880	1098	970	880	700
B95	540	180	45	190	327	45	14	48.5	70	481	58	420×2	1050	M42	200	6	45	1040	1160	1440	1320	1160	950
XWE.XWED32-128																							
X32	140	35	10	38	56	15	5	17	22	152	18	100	250	M10	60	4	16	150	290	317	264	270	200
X42	150	45	14	48.5	73	15	5	17	22	168	19	145	290	M10	65	4	16	195	330	370	315	316	240
X53	160	55	16	59	91	18	6	20.5	35	204	23	150	370	M12	70	4	16	260	410	457	387	356	300
X63	200	65	18	69	89	18	6	20.5	35	125	27	275	380	M12	75	4	22	335	430	510	441	425	340
X64	200	65	18	69	89	22	6	24.5	40	125	27	275	380	M12	75	4	22	335	430	541	466	425	340
X74	220	80	22	85	107	22	6	24.5	40	143	27	320	420	M12	90	4	22	380	470	561	486	484	340
X84	250	90	25	95	122	22	6	24.5	40	157	35	380	480	M16	100	4	22	440	530	626	548	514	400
X85	250	90	25	95	122	30	8	33	55	157	35	380	480	M16	100	4	22	440	530	662	586	514	400
X95	290	100	28	106	141	30	8	33	55	186	40	480	560	M20	120	4	26	560	620	768	667	614	500
X96	290	100	28	106	141	35	10	38	62	186	40	480	560	M20	120	4	26	560	620	805	695	614	500
X106	325	110	28	116	150	35	10	38	62	230	45	250×2	630	M24	105	6	30	600	690	836	725	706	575
X117	420	130	32	137	202	40	12	43	65	325	50	330×2	800	M30	140	6	32	810	880	1077	962	880	700
X118	420	130	32	137	202	45	14	48.5	70	325	50	330×2	800	M30	140	6	32	810	880	1098	970	880	700
X128	540	180	45	190	327	45	14	48.5	70	481	58	420×2	1050	M42	200	6	45	1040	1160	1440	1320	1160	950

4.4 BLE、BLED、XLE、XLED型（双级）外形安装尺寸
4.4 BLE、BLED、XLE、XLED models (two-stage) contour and installation dimensions



机型号 Model number	轴端尺寸Shaft end dimensions								安装尺寸Installation dimensions								外形尺寸 Contour dimensions		
	输出轴Output shaft				输入轴 Input shaft												H		
	d1 (h6)	b1	C	L	d2 (h6)	b2	c	y	E	F	ΦG	N	P (h9)	Q	R	S	BLE	BLED	M
BLE.BLED10-95																			
B10	35	10	38	47	15	5	17	22	61	15	11	6	170	200	4	M10	317	267	230
B20	45	14	48.5	61	15	5	17	22	70	16	11	6	200	230	4	M10	368	318	260
B31	55	16	59	74	18	6	20.5	35	79	20	13	6	270	310	4	M12	446	376	340
B41	70	20	74.5	92	18	6	20.5	35	100	22	15	8	320	360	5	M12	521	454	400
B42	70	20	74.5	92	22	6	24.5	40	100	22	15	8	320	360	5	M12	554	479	400
B52	90	25	95	110	22	6	24.5	40	118	30	18	12	400	450	5	M16	627	548	490
B53	90	25	95	110	30	8	33	55	118	30	18	12	400	450	5	M16	663	561	490
B63	100	28	106	130	30	8	33	55	138	35	22	12	460	520	8	M20	745	645	580
B64	100	28	106	130	35	10	38	62	138	35	22	12	460	520	8	M20	780	671	580
B74	110	28	116	142	35	10	38	62	182	40	22	12	520	590	10	M24	836	725	650
B84	130	32	137	202	35	10	38	62	211	50	38	12	680	800	10	M30	1074	962	880
B85	130	32	137	202	45	14	48.5	70	211	50	38	12	680	800	10	M30	1098	970	880
B95	180	45	190	320	45	14	48.5	70	370	60	39	8	900	1020	10	M42	1440	1320	1160
XLE.XLED32-128																			
X32	35	10	38	47	15	5	17	22	51	15	12	6	170	200	4	M10	317	264	230
X42	45	14	48.5	63	15	5	17	22	79	15	12	6	200	230	4	M10	370	320	260
X53	55	16	59	85	18	6	20.5	35	90	20	13	6	270	310	4	M12	457	389	340
X63	65	18	69	80	18	6	20.5	35	90	22	16	8	316	360	5	M12	510	441	400
X64	65	18	69	80	22	6	24.5	40	90	22	16	8	316	360	5	M12	546	466	400
X74	80	22	85	97	22	6	24.5	40	114	22	18	8	345	390	5	M12	561	486	430
X84	90	25	95	110	22	6	24.5	40	118	30	18	12	400	450	5	M16	627	548	490
X85	90	25	95	110	30	8	33	55	118	30	18	12	400	450	5	M16	663	588	490
X95	100	28	106	134	30	8	33	55	170	35	22	12	455	520	8	M20	770	667	580
X96	100	28	106	134	35	10	38	62	170	35	22	12	455	520	8	M20	807	694	580
X106	110	28	116	142	35	10	38	62	182	40	22	12	520	590	10	M24	836	725	650
X117	130	32	137	202	40	12	43	65	211	50	38	12	680	800	10	M30	1077	983	880
X118	130	32	137	202	45	14	48.5	70	211	50	38	12	680	800	10	M30	1098	970	880
X128	180	45	190	320	45	14	48.5	70	370	60	39	8	900	1020	10	M42	1440	1320	1160

配Y系列电机时联接法兰尺寸图表
Connection Flange Dimensions Chart When Matching with Y Series Motor

电机接盘型
Motor Flange Type

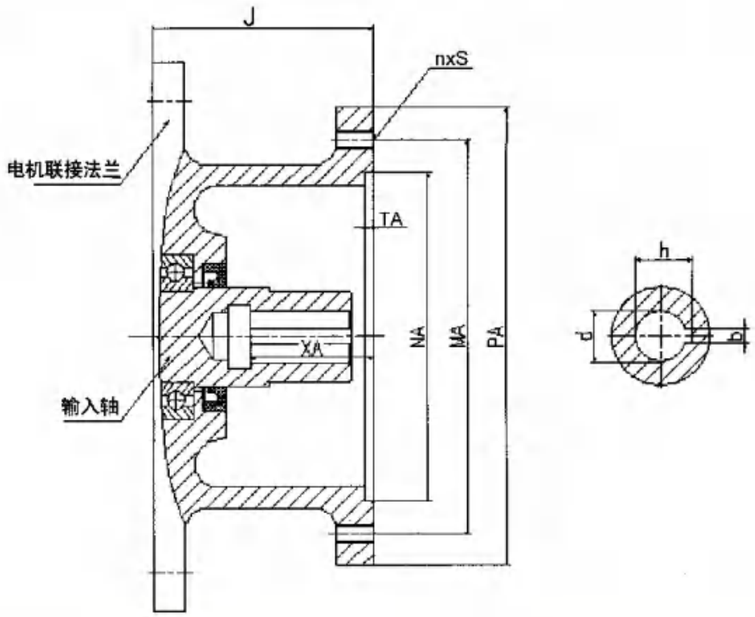


表11 Table11

机型号 Machine Model	电机Motor			尺寸Dimensions									
	Kw	机座号 Frame Number	极数 Pole Number	NA	MA	PA	J	TA	n X S	XA	d	b	h
B09	0.18	Y63	4P	95	115	140	57.5	4	4 X M8	23	11	4	12.8
	0.25、0.37	Y71		110	130	160	74.5	4	4 X M8	30	14	5	16.3
	0.55	Y801		130	165	200	74.5	4	4 X M10	40	19	6	21.8
B0 B10 B20	0.18	Y63		95	115	140	54.5	4	4 X M8	23	11	4	12.8
	0.25、0.37	Y71		110	130	160	74.5	4	4 X M8	30	14	5	16.3
	0.55、0.75	Y80		130	165	200	74.5	4	4 X M10	40	19	6	21.8
	1.1	Y90S		130	165	200	83.5	4	4 X M10	50	24	8	27.3
B1 B31 B41	0.25、0.37	Y71		110	130	160	83.5	4	4 X M8	30	14	5	16.3
	0.55、0.75	Y80		130	165	200	83.5	4	4 X M10	40	19	6	21.8
	1.1、1.5	Y90		130	165	200	83.5	4	4 X M10	50	24	8	27.3
	2.2	Y100L1		180	215	250	90.5	4.5	4 X M12	60	28	8	31.3
B2 B42 B52	0.55、0.75	Y80		130	165	200	93.5	5	4 X M10	40	19	6	21.8
	1.1、1.5	Y90		130	165	200	93.5	5	4 X M10	50	24	8	27.3
	2.2、3	Y100L		180	215	250	93.5	5	4 X M12	60	28	8	31.3
	4	Y112M		180	215	250	93.5	5	4 X M12	60	28	8	31.3

配Y系列电机时联接法兰尺寸图表
Connection Flange Dimensions Chart When Matching with Y Series Motor

电机接盘型 Motor Flange Type

表11 Table11

机型号 Machine Model	电机Motor			尺寸Dimensions									
	Kw	机座号 Frame Number	极数 Pole Number	NA	MA	PA	J	TA	n X S	XA	d	b	h
B3 B53 B63	0.55、0.75	Y80	4P	130	165	200	118	5	4 X M10	40	19	6	21.8
	1.1、1.5	Y90		130	165	200	118	5	4 X M10	50	24	8	27.3
	2.2、3	Y100L		180	215	250	118	5	4 X M12	60	28	8	31.3
	4	Y112M		180	215	250	118	5	4 X M12	60	28	8	31.3
	5.5、7.5	Y132		230	265	300	118	5	4 X M12	80	38	10	41.3
	11	Y160M		250	300	350	151	5	4 X M16	110	42	12	45.3
B4 B74 B84	2.2、3	Y100L		180	215	250	125	5	4 X M12	60	28	8	31.3
	4	Y112M		180	215	250	125	5	4 X M12	60	28	8	31.3
	5.5、7.5	Y132		230	265	300	125	5	4 X M12	80	38	10	41.3
	11	Y160M		250	300	350	151	5	4 X M16	110	42	12	45.3
B5 B85 B95	2.2、3	Y100L		180	215	250	142	6	4 X M12	60	28	8	31.3
	4	Y112M		180	215	250	142	6	4 X M12	60	28	8	31.3
	5.5、7.5	Y132		230	265	300	142	6	4 X M12	80	38	10	41.3
	11、15	Y160M		250	300	350	142	6	4 X M16	110	42	12	45.3
	18.5	Y180M		250	300	350	142	6	4 X M16	110	48	14	51.8
B6	5.5、7.5	Y132		230	265	300	144	6	4 X M12	80	38	10	41.3
	11、15	Y160		250	300	350	144	6	4 X M16	110	42	12	45.3
	18.5、22	Y200L	6P	300	350	400	144	6	4 X M16	110	55	16	59.3
B7	11、15	Y160	4P	250	300	350	129	7	4 X M16	110	42	12	45.3
	18.5、22	Y200L	6P	300	350	400	129	7	4 X M16	110	55	16	59.3
	30	Y225M		350	400	450	161	7	8 X M16	140	60	18	64.4
	37	Y250M		450	400	550	161	7	8 X M16	140	65	18	69.4
B8	18.5、22	Y200L		300	350	400	204	7	4 X M16	110	55	16	59.3
	30	Y225M		350	400	450	234	7	8 X M16	140	60	18	64.4
	37	Y250M		450	500	550	234	7	8 X M16	140	65	18	69.4
	45、55	Y280		450	500	550	234	7	8 X M16	140	75	20	79.9
B9	30	Y225M		350	400	450	236	7	8 X M16	140	60	18	64.4
	37	Y250M		450	500	550	236	7	8 X M16	140	65	18	69.4
	45、55	Y280		450	500	550	236	7	8 X M16	140	75	20	79.9
	75	Y315S		550	600	660	266	7	8 X M20	170	80	22	85.4

注：配置其他系列电机时尺寸可能有所变动。
Note: When matching with other series of motors, the dimensions may vary.

4.5 减速机及电机重量 Weight of Reducer and Motor

1)一级电机直联型减速机重量(单位：kg) Weight of Single-Stage Motor Direct-Connected Reducer (Unit: kg)

规格 Specification	BW09	BW0	BW1	BW2	BW3	BW4	BW5	XW1	XW2	XW3
重量 Weight	8	9	18	31	54	93	145	9	9	18
规格 Specification	XW4	XW5	XW6	XW7	XW8	BL09	BL0	BL1	BL2	BL3
重量 Weight	32	55	93	103	160	8	8	18	29	54
规格 Specification	BL4	BL5	XL1	XL2	XL3	XL4	XL5	XL6	XL7	XL8
重量 Weight	90	146	8	8	18	29	54	93	98	146

2)一级电机接盘型/双轴型减速机重量(单位：kg) Weight of Single-Stage Motor Flange Type / Dual-Shaft Reducer (Unit: kg)

规格 Specification	BW09	BW0	BW1	BW2	BW3	BW4	BW5	BW6	BW7	BW8	BW9	XW1
重量 Weight	12	15	25	42	71	119	181	347	500	1047	2347	13
规格 Specification	XW2	XW3	XW4	XW5	XW6	XW7	XW8	XW9	XW10	XW11	XW12	BL09
重量 Weight	16	23	40	70	100	120	197	348	500	1047	2347	12
规格 Specification	BL0	BL1	BL2	BL3	BL4	BL5	BL6	BL7	BL8	BL9	XL1	XL2
重量 Weight	16	23	40	70	100	200	344	512	1010	2416	12	14
规格 Specification	XL3	XL4	XL5	XL6	XL7	XL8	XL9	XL10	XL11	XL12		
重量 Weight	16	40	70	100	120	200	348	512	1010	2416		

3)二级电机直联型减速机重量(单位：kg) Weight of Two-Stage Motor Direct-Connected Reducer (Unit: kg)

规格 Specification	BWE10	BWE20	BWE31	BWD41	BWE42	BWE52	BWE53	BWE63	BWE64	BWE74	BWE84
重量 Weight	28	42	74	117	127	186	196	357	378	534	1024
规格 Specification	BWE85	BWE95	XWE32	XWE42	XWE53	XWE63	XWE64	XWE74	XWE84	XWE85	XWE95
重量 Weight	1054	2243	28	43	75	117	127	137	201	211	358
规格 Specification	XWE96	XWE106	XWE117	XWE118	XWE128	BLE10	BLE20	BLE31	BLE41	BLE42	BLE52
重量 Weight	378	534	1024	1054	2243	28	42	73	114	124	188
规格 Specification	BLE53	BLE63	BLE64	BLE74	BLE84	BLE85	BLE95	XLE32	XLE42	XLE53	XLE63
重量 Weight	198	354	373	544	987	1017	2174	28	42	73	117
规格 Specification	XLE64	XLE74	XLE84	XLE85	XLE95	XLE96	XLE106	XLE117	XLE118	XLE128	
重量 Weight	127	131	188	198	363	383	544	987	1017	2174	

4)二级电机接盘型/双轴型减速机重量(单位：kg) Weight of Two-Stage Motor Flange Type / Dual-Shaft Reducer (Unit: kg)

规格 Specification	BWE10	BWE20	BWE31	BWD41	BWE42	BWE52	BWE53	BWE63	BWE64	BWE74	BWE84
重量 Weight	34	49	81	124	138	197	213	374	421	557	1050
规格 Specification	BWE85	BWE95	XWE32	XWE42	XWE53	XWE63	XWE64	XWE74	XWE84	XWE85	XWE95
重量 Weight	1090	2210	34	50	82	124	138	148	212	228	380
规格 Specification	XWE96	XWE106	XWE117	XWE118	XWE128	BLE10	BLE20	BLE31	BLE41	BLE42	BLE52
重量 Weight	422	557	1050	1090	2210	34	47	81	121	135	199
规格 Specification	BLE53	BLE63	BLE64	BLE74	BLE84	BLE85	BLE95	XLE32	XLE42	XLE53	XLE63
重量 Weight	215	371	417	569	1013	1053	2279	34	48	81	124
规格 Specification	XLE64	XLE74	XLE84	XLE85	XLE95	XLE96	XLE106	XLE117	XLE118	XLE128	
重量 Weight	138	142	199	215	375	427	569	1013	1053	2279	

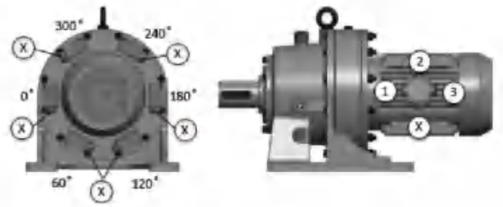
注：上述减速机重量为平均值，不包含电机重量，仅供参考。
Note: The above reducer weights are average values and do not include the weight of the motor. They are for reference only.

5)三相异步电动机-B5重量(单位：kg) Weight of Three-Phase Asynchronous Motor - B5 (Unit: kg)

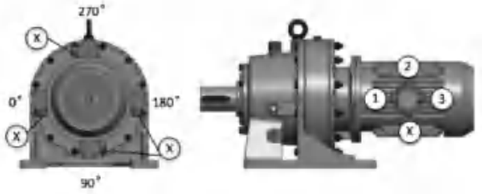
电机型号 Motor Model	63M1-4	71M1-4	71M2-4	80M1-4	80M2-4	90S-4	90L-4	100L1-4	100L2-4	112M-4	132S-4
额定功率 Rated Power (kW)	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5
重量 Weight (kg)	8	10	10.5	14	14.7	21	27.5	31	35	41	65
电机型号 Motor Model	132M-4	160M-4	160L-4	180M-4	180L-4	200L-4	225S-4	225M-4	250M-4	280S-4	
额定功率 Rated Power (kW)	7.5	11	15	18.5	22	30	37	45	55	75	
重量 Weight (kg)	71.5	110	132	164	190	245	285	325	400	553	
电机型号 Motor Model	180L-6	200L1-6	200L2-6	225M-6	250M-6	280S-6	280M-6	315S-6	315M-6	315L1-6	
额定功率 Rated Power (kW)	15	18.5	22	30	37	45	55	75	90	110	
重量 Weight (kg)	180	222	235	290	375	492	550	930	1030	1150	

注：1.不同厂家电机重量略有不同，上述电机重量仅供参考
Note: 1. The weight of motors from different manufacturers may vary slightly. The above motor weights are for reference only.

五、 配置电机接线盒位置及入线口表示方法
Method of Indicating the Position of Motor Junction Box and Cable Entry



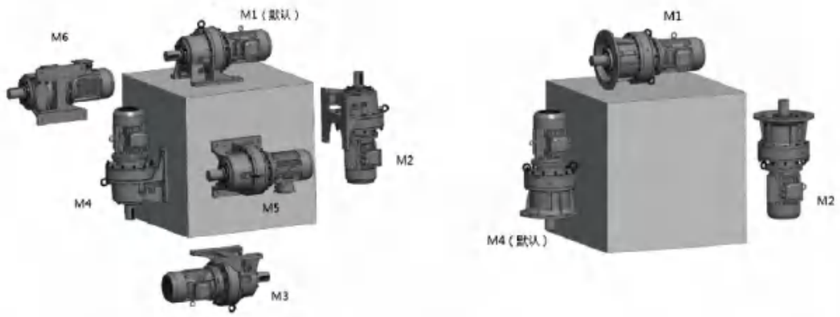
电机直联型
Motor Direct-Connected Type



电机接盘型
Motor Flange Type

注：1.不注明接线盒方向时，则默认为图示中的0° 位置；不注明入线口位置时，则默认为X 位置；
2.图示中接线盒方向为常用配置，请优先使用；
3. 上图也同样适用于二级、三级传动机型。
4. 如有其它特殊要求，请与我们公司技术部联系。
Note:
1.If wiring-box orientation is not specified, it will default to the 0° position shown; if cable-entry position is not stated, it will default to location X.
2.The orientation illustrated is the standard arrangement—please use it whenever possible.
3.This drawing works for two-stage and three-stage units too.
4.For any other special requirements, please contact our technical department.

六、安装型式图例 Installation Type Diagram



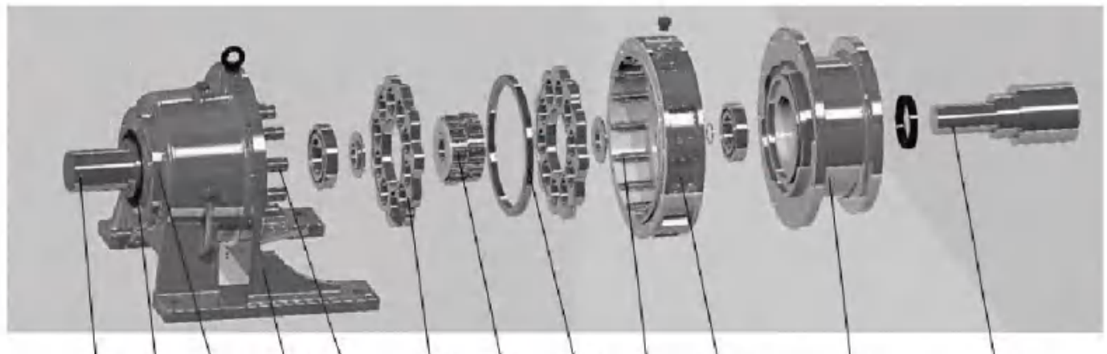
注：地脚式安装时，M1为默认安装型式；法兰式安装时，M4为默认安装型式。（书写型号时可忽略）请优先选用。
Note: When installing with foot bolts, M1 is the default installation type. When installing with a flange, M4 is the default installation type. (The model number can be omitted when writing.) Please give priority to these.

七、维修（拆卸与装配）Maintenance (Disassembly and Assembly)

我厂生产各种的类型摆线减速机内部结构相同，因此其拆卸与装配工艺顺序基本一样，拆前应首先放净润滑油，立式减速机须先拆除油泵。拆装顺序见图四。
1、拆卸：拆卸时首先松开联接螺栓，分解4、10,然后依次分解6、7、8等零件。装配时则顺序相反。
2、装配
装配时请注意以下各项：
1)装配前，将全部零件清洗干净。
2)对滚动及滑动表面涂润滑油，以形成初步润滑条件。
3)两片摆线轮的标记必须错开180。
4)注意调整橡胶油封中弹簧的松紧，并涂抹油脂。
5)装配结束后注入润滑油或润滑脂，卧式油位达到油标红线的高度。立式油位达到油标中线。
6)用后转动高速轴，经检查无故障即可空车运转，对立式减速机应检查油泵工作情况是否良好，若均正常。
7)对直联型进行分解时，严格按要求顺序进行，切禁先从电动机法兰处分解。方可使用。

All our cycloidal reducers share the same guts, so the take-apart and put-back steps are pretty much identical. Before you start, drain every last drop of oil—on the vertical models, pop the oil pump off first. See Figure 4 for the full rundown.
1.Tear-down
Loosen the joint bolts, split parts 4 and 10 apart, then pull 6, 7, 8··· in order. To reassemble, just run the same sequence in reverse.
2.Re-assembly quick tips
1) Wash every part until it’s squeaky clean.
2) Lightly oil any rolling or sliding surfaces for a head start on lubrication.

3) The two cycloidal discs must be set 180° apart—line up the marks.
4) Tweak the spring tension in the rubber oil seal and give it a dab of grease.
5) Fill ’ er up: horizontal units to the red mark, vertical ones to the center line.
6) Spin the high-speed shaft by hand—if it turns freely, fire it up unloaded. On vertical models, make sure the oil pump is behaving.
7) If it’s a direct-coupled unit, stick to the exact order when you’re taking it apart—never start by yanking the motor flange off first.



1.输出轴 2.紧固环 3.小端盖 4.机座 5.销轴、销套 6.摆线轮 7.偏心轴承 8.间隔环 9.针齿销、针齿套 10.针齿壳 11.电机接头 12.输入轴

1.Output Shaft 2.Locking Ring 3.End Cover 4.Frame 5.Pin, Pin Sleeve 6.Cycloidal Wheel 7.Eccentric Bearing 8.Spacer Ring 9.Pin, Pin Sleeve 10.Pin Wheel Housing 11.Motor Connector 12.Input Shaft

一级传动油封一览表Single-Stage Transmission Oil Seal List

机型号 Machine Model	输出端Output End			输入端Input End		
	规格 Specification	数量 Quantity		双轴型 Double-axis type	电机接盘型 Motor Flange Type	电机直联型 Motor Direct-Connected Type
		卧式 Horizontal	立式 Vertical	规格 Specification	规格 Specification	规格 Specification
B09	30 X 52 X 10	1	1	20 X 35 X 10	30 X 60 X 10(0.18kW)	15 X 35 X 10
					35 X 60 X 12	
B0	45 X 65 X 12	1	1	20 X 35 X 10	35 X 60 X 12	15 X 35 X 10
B1	50 X 72 X 12	1	2	35 X 50 X 12	45 X 62 X 12	30 X 50 X 10
B2	65 X 90 X 12	1	2	40 X 65 X 12	50 X 72 X 12	40 X 65 X 12
B3	80 X 105 X 12	1	2	50 X 72 X 12	55 X 80 X 12	40 X 65 X 12
B4	100 X 130 X 12	1	2	60 X 85 X 12	65 X 90 X 12	60 X 80 X 12
B5	115 X 140 X 14	1	2	80 X 105 X 12	80 X 105 X 12	70 X 95 X 12
B6	130 X 160 X 15	1	2	100 X 130 X 12	100 X 130X 12	无电机直联型 Non-Motor Direct-Connected Type
B7	150X 180 X 16	2	2	90 X 120 X 12	请垂询Please Inquire	
B8	170 X 200 X 18	2	2	130 X 160 X 15	130 X 160 X 15	
B9	220 X 260 X 18	2	2	160 X 190 X 16	140 X 170 X 15	

二级传动油封一览表Two-Stage Transmission Oil Seal List

机型号 Machine Model	输出端Output End			输入端Input End		
	规格 Specification	数量 Quantity		双轴型 Double-axis type	电机接盘型 Motor Flange Type	电机直联型 Motor Direct-Connected Type
		卧式 Horizontal	立式 Vertical	规格 Specification	规格 Specification	规格 Specification
B10	50 X 72 X 12	1	2	20 X 35 X 10	35 X 60 X 12	15 X 35 X 10
B20	65 X 90 X 12	1	2	20 X 35 X 10	35 X 60 X 12	15 X 35 X 10
B31	80 X 105 X 12	1	2	35 X 50 X 12	45 X 62 X 12	30 X 50 X 10
B41	100 X 130 X 12	1	2	35 X 50 X 12	45 X 62 X 12	30 X 50 X 10
B42	100 X 130 X 12	1	2	40 X 65 X 12	50 X 72 X 12	40 X 65 X 12
B52	115 X 140 X 14	1	2	40 X 65 X 12	50 X 72X 12	40 X 65 X 12
B53	115 X 140 X 14	1	2	50 X 72 X 12	55 X 80 X 12	40 X 65 X 12
B63	130 X 160 X 15	1	2	50 X 72 X 12	55 X 80 X 12	40 X 65 X 12
B74	150 X 180 X 16	2	2	60 X 85 X 12	65 X 90 X 12	60 X 80 X 12
B84	170 X 200 X 18	2	2	60 X 85 X 12	65 X 90 X 12	60 X 80 X 12
B85	170 X 200 X 18	2	2	80 X 105 X 12	80 X 105 X 12	70 X 95 X 12
B95	220 X 260 X 18	2	2	80 X 105 X 12	80 X 105 X 12	70 X 95 X 12

注：未注明数量的均为1。Note: The quantity is 1 if not specified.

一级传动轴承一览表Single-Stage Transmission Bearing List

机型号 Machine Model	输出端Output End		输入端Input End				偏心轴承 Bearing (X2)
	轴承 Bearing a	轴承 Bearing b	双轴型 Bearing		电机接盘型 Motor Flange Type	电机直联型 Motor Direct-Connected Type	
			轴承 Bearing c	轴承 Bearing d	轴承 Bearing e		
B09	6205	6205	6201	6302	6205	轴承 Bearing c	502205
B0	6207	6207	6201	6302	6205		502205
B1	6208N	6208	6302	6304	6207		502206
B2	6211N	6213	6403	6404	6209		502307
B3	6213N	6215	6405	6406	6210		502309
B4	6217N	6218	6406	6407	6212		502312
B5	6220N	6221	6407	6410	6215		502219
B6	23122	6224	6409	6413	6215	无电机直联型 Non-Motor Direct-Connected Type	502222
B7	23124	6226	NJ410	6415	请垂询 Please Inquire		502228
B8	23128	6232	NJ414	6420	6322		502328
B9	23136	6340	NJ419	6426	6324		502336

二级传动轴承一览表Two-Stage Transmission Bearing List

机型号 Machine Model	输出端Output End		输入端Input End				中间轴轴承 Intermediate Shaft Bearing		偏心轴承 Bearing (X2)	
	轴承 Bearing a	轴承 Bearing b	双轴型 Bearing		电机接盘型 Motor Flange Type	电机直联型 Motor Direct-Connected Type	轴承 Bearing f	轴承 Bearing g	低速端 Low-Speed End	高速端 High-Speed End
			轴承 Bearing c	轴承 Bearing d	轴承 Bearing e					
B10	6208N	6208	6201	6302	6205	轴承 Bearing c	6302	6207	502206	502205
B20	6211N	6213	6201	6302	6205		6403	6207	502307	502205
B31	6213N	6215	6302	6304	6207		6405	6208	502309	502206
B41	6217N	6218	6302	6304	6207		6406	6208	502312	502206
B42	6217N	6218	6403	6404	6209		6406	6212	502312	502307
B52	6220N	6221	6403	6404	6209		6407	6213	502219	502307
B53	6220N	6221	6405	6406	6210		6407	6215	502219	502309
B63	23122	6224	6405	6406	6210		6409	6215	502222	502309
B74	23124	6226	6406	6407	6212		NJ410	6218	502228	502312
B84	23128	6232	6406	6407	6212		NJ414	6218	502328	502312
B85	23128	6232	6407	6410	6215		NJ414	6218	502338	502219
B95	23136	6340	6407	6410	6215		NJ419	6222	502336	502219

注：未注明数量的均为1。Note: The quantity is 1 if not specified.

二、RX/RB摆线齿轮减速机
RX/RB Cycloidal Gear Reducer

1、型号（规格）的确定 Determination of Model (Specification)

必须满足条件$f_B > f_A$

1）电机与减速机直联或通过联轴器联接。

a.在选型参数表中找到相应的电机功率、极数。

b.在此功率和极数下，初步选用一个具有相近传动比的机型，并记录下其使用系数f_B。

c.比较，若满足条件$f_B > f_A$，则就是可用机型。否则，加大机型，直到满足条件。

2)电机与减速机之间具有前置减速联接

如电机与减速机之间通过齿轮、皮带、链轮等减速装置联接，由于输入转矩的增加,须把电机功率折算到减速机输入轴上，即把电机的功率乘以前置减速装置的传动比。用折算的功率，按前述(1)中的方法选取。此时,仍要注意电机极数不变。

It is necessary to meet the condition $f_B > f_A$

1)The motor is directly connected to the reducer or connected through a coupling.

a.Find the corresponding motor power and pole number in the selection parameter table.

b.Under this power and pole number, preliminarily select a model with a similar transmission ratio and record its usage factor fB.

c. Compare. If the condition $f_B > f_A$ is met, then it is the usable model. Otherwise, increase the model size until the condition is met.

2)There is a pre-reduction connection between the motor and the reducer

If the motor and reducer are connected through a gear, belt, sprocket or other reduction device, due to the increase in input torque, the motor power must be converted to the input shaft of the reducer, that is, multiply the motor power by the transmission ratio of the pre-reduction device. Select using the method mentioned in (1) above with the converted power. At this time, the pole number of the motor remains unchanged.

2、径向载荷检验Radial Load Inspection

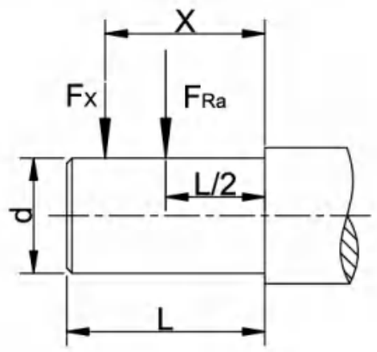
减速机轴头装有齿轮、皮带轮、链轮时，将产生较大的径向载荷。此时，必须进行径向载荷检当方法见选型参数释义中有关内容。若径向载荷超出许用值，可选用更大规格机型的。

When gears, pulleys, sprockets, etc. are mounted on the reducer shaft head, a large radial load will be generated. At this time, a radial load inspection must be carried out. The method can be seen in the relevant content of the selection parameter interpretation. If the radial load exceeds the allowable value, a larger model can be selected.

径向力校核Radial Force Verification

实际作用点不在输出轴轴伸中间时，需要下述公式对选型表中的许用径向力值进行计算。

When the actual point of action is not in the middle of the output shaft extension, the allowable radial force value in the selection table needs to be calculated using the following formula



当$0 \leq X < L/2$时 $F_x=[1.25-(X/2L)]*F_{Ra}$ [N]

当$X=L/2$时 $F_x=F_{Ra}$[N]

当$L/2<X \leq L$时 $F_x=[1.6-(1.2X/L)]*F_{Ra}$ [N]

F_{Ra}-- 选型表中给出的许用载荷(作用在X=L/2 处)

F_x-- 实际作用点的许用径向载荷

X--样本中轴肩到载荷实际作用点的距离

L-- 输出轴轴伸长度(本样本中给定的长度，参照外形安装尺寸图表)

工作元件的实际径向载荷F_r,与实际工况系数f_A的乘积不得大于实际作用点的许用径向载荷F_x

即:$f_A*F_r \leq F_x$。

F_{Ra} - the rated load in the catalog (assumes the force is slapped right in the middle, X = L/2).

F_x - the max radial load allowed at the exact spot where your load actually hits.

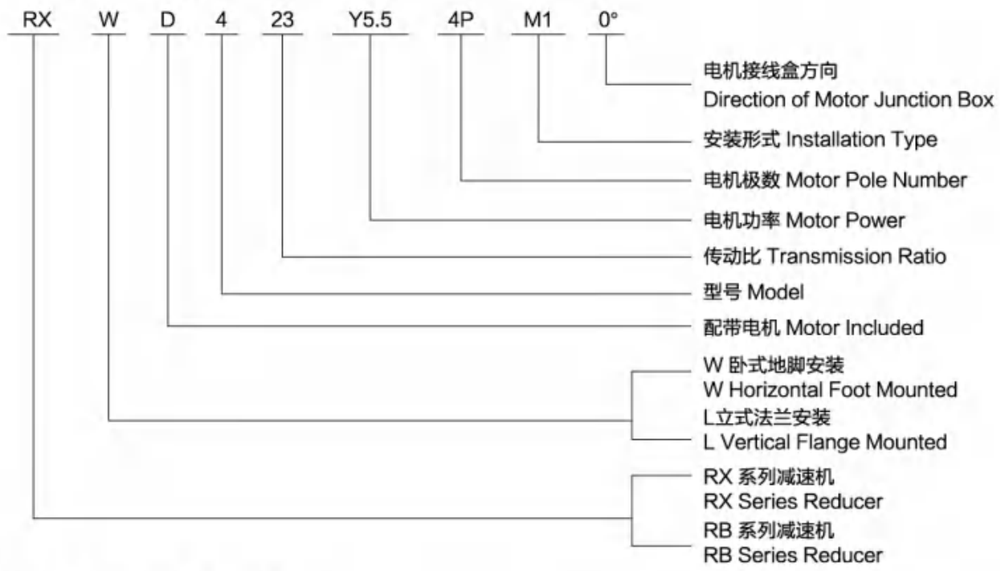
X - how far that spot is from the shaft shoulder, straight out of the brochure.

L - the exposed length of the output shaft (check the outline drawing).

Bottom line: take the real radial load F_r, multiply it by the service factor f_A, and don't let it top F_x.

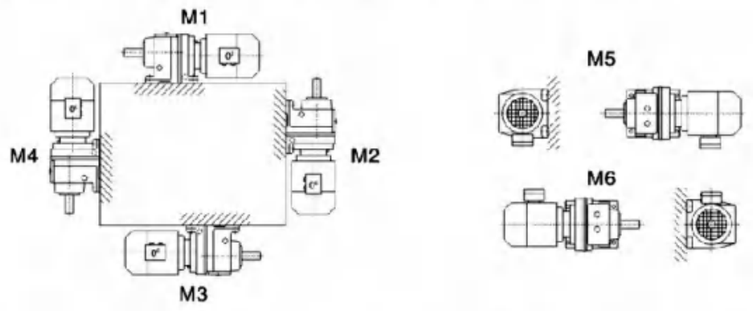
In short, $f_A \times F_r \leq F_x$.

型号表示方法 Model Representation Method



安装位置 Installation Position

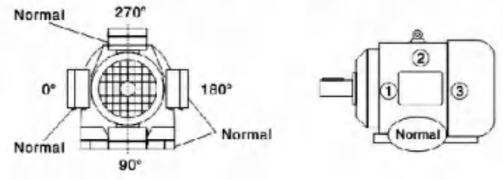
安装位置说明:减速电机有M1..M6共6种安装位置。下面的图表说明了减速器安装位置M1 ..M6的空间排列。
Installation Position Explanation: The reducer motor has 6 installation positions, M1 to M6.
The following chart illustrates the spatial arrangement of the reducer installation positions M1 to M6.



电机接线盒和出线嘴位置Position of Motor Junction Box and Cable Outlet

电机接线盒从电机风扇罩看(如图),位置分别表示为0° ,90° ,180° 或270°
出线嘴的位置也可以进行选择(如图),分别表示为“Normal”,“1”,“2”或“3”。

Looking at the motor from the fan cover side (see pic), the terminal box can sit at 0° , 90° , 180° or 270° .
The cable gland can also be rotated to four spots, labeled “Normal”, “1”, “2” or “3”.



选型参数表 Parameter Selection Table

输出转速 Output Speed n_R(r/min)	输出扭矩 Output Torque Ma(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{Ra}(kN)	使用系数 Service Factor f_B	机型号 Machine Model	电机极数 Motor Poles
0.25kW						
19.01	118	71	5.2	2.05	RB1 RX3	4P
22.88	98	59	4.8	2.5		
31.4	71	43	4.3	3.42		
38.6	58	35	3.8	4.2		
22.88	98	59	3	1.42	RB0 RX2	4P
31.4	71	43	3	1.96		
38.6	58	35	2.9	2.41		
46.5	48	29	2.9	2.95		
58.7	41	23	2.4	3.44		
79.4	28	17	2.3	4.8		
0.37kW						
19.01	175	71	5.2	1.41	RB1 RX3	4P
22.88	146	59	4.8	1.68		
31.4	106	43	4.3	2.29		
38.6	86	35	3.8	2.85		
46.5	72	29	3.2	3.41		
58.7	58	23	3.2	4.22		
22.88	146	59	3	0.96	RB0 RX2	4P
31.4	106	43	3	1.35		
38.6	86	35	2.9	1.68		
46.5	72	29	2.9	2.01		
58.7	58	23	2.4	2.45		
79.4	43	17	2.3	3.15		
122.7	28	11	1.9	4.2		
150	23	9	1.9	4.35		
0.55kW						
15.86	311	87	11.6	3.15	RB3 RX5	4P
19.44	254	71	11.6	3.85		
23.39	211	59	10.8	4.64		
15.86	311	87	8	1.58	RB2 RX4	4P
19.44	254	71	8	1.92		
23.39	211	59	7.4	2.32		
32.09	154	43	6.8	3.18		
39.43	125	35	6	3.92		
19.44	254	71	5.2	0.92	RB1 RX3	4P
23.39	211	59	4.8	1.16		
32.09	154	43	4.3	1.58		
39.43	125	35	3.8	1.96		
47.58	104	29	3.8	2.35		
60	83	23	3.2	2.95		
81.18	62	17	3	3.65		
125.45	40	11	2.6	4.91		
153.33	33	9	2.6	5.4		
32.09	154	43	3	0.94	RB0 RX2	4P
39.43	125	35	2.9	1.15		
47.58	104	29	2.9	1.38		
60	83	23	2.4	1.74		
81.18	62	17	2.3	2.23		
125.45	40	11	1.9	2.95		
153.33	33	9	1.9	3.05		

输出转速 Output Speed n_a(r/min)	输出扭矩 Output Torque M_a(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{ra}(kN)	使用系数 Service Factor f_s	机型号 Machine Model	电机极数 Motor Poles
0.75kW						
15.86	425	87	11.6	2.31	RB3 RX5	4P
19.44	346	71	11.6	2.83		
23.39	288	59	10.8	3.41		
32.09	210	43	9.6	4.66		
15.86	425	87	8	1.15	RB2 RX4	4P
19.44	346	71	8	1.41		
23.39	288	59	7.4	1.71		
32.09	210	43	6.7	2.33		
39.43	171	35	6	2.86		
47.58	142	29	6	3.45		
60	112	23	5	4.35		
23.39	288	59	4.8	0.85	RB1 RX3	4P
32.09	210	43	4.3	1.15		
39.43	171	35	3.8	1.42		
47.58	142	29	3.8	1.72		
60	112	23	3.2	2.18		
81.18	85	17	3	2.86		
125.45	55	11	2.6	3.56		
153.33	45	9	2.6	4.35		
47.58	142	29	2.9	1.02	RB0 RX2	4P
60	112	23	2.4	1.24		
81.18	85	17	2.3	1.68		
125.45	55	11	1.9	2.14		
153.33	45	9	1.9	2.18		
1.1kW						
16.09	614	87	11.6	1.59	RB3 RX5	4P
19.72	501	71	11.6	1.95		
23.73	443	59	10.8	2.21		
32.56	304	43	9.6	3.22		
40	263	35	8.5	3.72		
16.09	614	87	8	0.78	RB2 RX4	4P
19.72	501	71	8	0.97		
23.73	443	59	7.4	1.11		
32.56	304	43	6.7	1.59		
40	263	35	6	1.86		
48.27	205	29	6	2.39		
60.87	162	23	5	3.02		
82.35	122	17	4.8	4.01		
127.3	79	11	4.6	4.96		
32.56	304	43	4.3	0.78	RB1 RX3	4P
40	263	35	3.8	0.93		
48.27	205	29	3.8	1.17		
60.87	162	23	3.2	1.51		
82.35	122	17	3	1.96		
127.3	79	11	2.6	2.48		
155.5	65	9	2.6	3.01		
82.35	122	17	2.3	1.18	RB0 RX2	4P
127.3	79	11	1.9	1.49		
155.5	65	9	1.9	1.51		
1.5kW						
16.09	838	87	11.6	1.17	RB3	4P
19.72	684	71	11.6	1.43	RX5	

输出转速 Output Speed n_a(r/min)	输出扭矩 Output Torque M_a(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{ra}(kN)	使用系数 Service Factor f_s	机型号 Machine Model	电机极数 Motor Poles
1.5kW						
23.73	568	59	10.8	1.72	RB3 RX5	4P
32.56	414	43	9.6	2.36		
40	337	35	8.5	2.91		
48.27	279	29	8.5	3.51		
23.73	568	59	7.4	0.86	RB2 RX4	4P
32.56	414	43	6.7	1.18		
40	337	35	6	1.45		
48.27	279	29	6	1.75		
60.87	226	23	5	2.16		
82.35	167	17	4.8	2.93		
127.3	108	11	4.6	4.15		
155.5	88	9	4	4.45		
48.27	279	29	3.8	0.86	RB1 RX3	4P
60.87	226	23	3.2	1.08		
82.35	167	17	3	1.46		
127.3	108	11	2.6	1.81		
155.5	88	9	2.6	2.22		
2.2kW						
16.44	1203	87	33.1	3.65	RB5 RX8	4P
20.14	982	71	30.2	4.45		
24.24	816	59	28.1	5.35		
16.44	1203	87	13	1.63	RB4 RX6	4P
20.14	982	71	13	1.99		
24.24	816	59	12.1	2.39		
33.26	595	43	12.1	3.28		
40.86	484	35	11.5	4.05		
16.44	1206	87	11.6	0.81	RB3 RX5	4P
20.14	982	71	11.6	0.98		
24.24	816	59	10.8	1.21		
33.26	595	43	9.6	1.65		
40.86	484	35	8.5	2.02		
49.31	404	29	8.5	2.45		
62.17	325	23	7.3	3.02		
84.12	239	17	6.7	4.09		
130	155	11	5.9	5.06		
33.26	595	43	6.7	0.81	RB2 RX4	4P
40.86	484	35	6	0.98		
49.31	401	29	6	1.19		
62.17	324	23	5	1.48		
84.12	239	17	4.8	2.01		
130	155	11	4.6	3.09		
158.9	127	9	4	3.15		
84.12	239	17	3	1.02	RB1 RX3	4P
130	155	11	2.6	1.26		
158.9	127	9	2.6	1.54		
3.0kW						
16.44	1640	87	33.1	2.62	RB3 RX5	4P
20.14	1338	71	30.2	3.28		
24.24	1112	59	28.1	3.95		
33.26	810	43	26.4	5.35		
16.44	1640	87	13	1.19	RB4 RX6	4P
20.14	1338	71	13	1.46		

输出转速 Output Speed n_R(r/min)	输出扭矩 Output Torque M_R(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{rR}(kN)	使用系数 Service Factor f_R	机型号 Machine Model	电机极数 Motor Poles
3.0kW						
24.24	1112	59	12.1	1.76	RB4 RX6	4P
33.26	810	43	12.1	2.42		
40.86	656	35	11.5	2.98		
49.31	547	29	11.5	3.58		
62.17	442	23	9.8	4.43		
84.12	327	17	9.1	4.85		
24.24	1112	59	10.8	0.88	RB3 RX5	4P
33.26	810	43	9.6	1.21		
40.86	656	35	8.5	1.49		
49.31	547	29	8.5	1.79		
62.17	442	23	7.3	2.22		
84.12	327	17	6.7	2.99		
130	211	11	5.9	3.72		
158.9	173	9	5.5	4.53		
49.31	547	29	6	0.89	RB2 RX4	4P
62.17	442	23	5	1.11		
84.12	327	17	4.8	1.49		
130	211	11	4.6	2.32		
158.9	173	9	4	2.41		
130	211	11	2.6	0.93	RB1 RX3	4P
158.9	173	9	2.6	1.13		
4.0kW						
16.55	2172	87	33.1	2.02	RB5 RX8	4P
20.28	1772	71	30.2	2.48		
24.41	1473	59	28.1	2.98		
33.49	1073	43	26.4	4.08		
41.14	874	35	26.4	5.03		
16.55	2172	87	13	0.89	RB4 RX6	4P
20.28	1772	71	13	1.11		
24.41	1473	59	12.1	1.33		
33.49	1073	43	12.1	1.82		
41.14	874	35	11.5	2.24		
49.65	724	29	11.5	2.71		
62.61	586	23	9.8	3.34		
84.71	433	17	9.1	4.52		
33.49	1073	43	9.6	0.91	RB3 RX5	4P
41.14	874	35	8.5	1.12		
49.65	724	29	8.5	1.35		
62.61	586	23	7.3	1.67		
84.71	433	17	6.7	2.26		
130.9	281	11	5.9	2.79		
160	229	9	5.5	3.42		
62.61	586	23	5	0.84	RB2 RX4	4P
84.71	433	17	4.8	1.13		
130.9	281	11	4.6	1.74		
160	229	9	4	2.13		
5.5kW						
16.67	2965	87	33.1	1.45	RB5 RX8	4P
20.42	2420	71	30.2	1.78		
24.58	2011	59	28.1	2.18		
33.72	1557	43	26.4	2.82		
41.42	1268	35	26.4	3.45		

输出转速 Output Speed n_R(r/min)	输出扭矩 Output Torque M_R(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{rR}(kN)	使用系数 Service Factor f_R	机型号 Machine Model	电机极数 Motor Poles
5.5kW						
24.58	2011	59	12.1	0.97	RB4 RX6	4P
33.72	1557	43	12.1	1.26		
41.42	1268	35	11.5	1.54		
50	988	29	11.5	1.98		
63.04	798	23	9.8	2.45		
85.29	591	17	9.1	3.31		
41.42	1268	35	8.5	0.78	RB3 RX5	4P
50	988	29	8.5	1.01		
63.04	798	23	7.3	1.23		
85.29	591	17	6.7	1.65		
138.8	382	11	5.9	2.05		
161.1	313	9	5.5	2.51		
85.29	591	17	4.8	0.82	RB2 RX4	4P
138.8	382	11	4.6	1.06		
161.1	313	9	4	1.18		
7.5kW						
16.67	4044	87	52.9	1.94	RB6 RX9	4P
20.42	3301	71	52.9	2.35		
24.58	2742	59	49.6	3.21		
16.67	4044	87	33.1	1.05	RB5 RX8	4P
20.42	3301	71	30.2	1.31		
24.58	2742	59	28.1	1.58		
33.72	1998	43	26.4	2.18		
41.42	1627	35	26.4	2.69		
33.72	1998	43	12.1	0.95	RB4 RX6	4P
41.42	1627	35	11.5	1.21		
50	1348	29	11.5	1.45		
63.04	1069	23	9.8	1.82		
85.29	790	17	9.1	2.48		
138.8	511	11	8	3.06		
161.1	418	9	6.6	3.68		
63.04	1069	23	7.3	0.91	RB3 RX5	4P
85.29	790	17	6.7	1.24		
138.8	511	11	5.9	1.52		
161.1	418	9	55	1.86		
11kW						
16.78	5890	87	52.9	1.33	RB6 RX9	4P
20.56	4807	71	52.9	1.63		
24.74	3995	59	49.6	2.18		
33.95	2911	43	49.6	3.02		
41.71	2369	35	46.9	3.68		
24.74	3995	59	28.1	0.95	RB5 RX8	4P
33.95	2911	43	26.4	1.45		
41.71	2369	35	26.4	1.82		
50.34	1963	29	25.2	2.12		
63.48	1588	23	22.2	2.64		
41.71	2369	35	11.5	0.82	RB4 RX6	4P
50.34	1963	29	11.5	0.98		
63.48	1588	23	9.8	1.23		
85.88	1174	17	9.1	1.65		
132.7	759	11	8	2.06		
162.2	621	9	6.6	2.52		

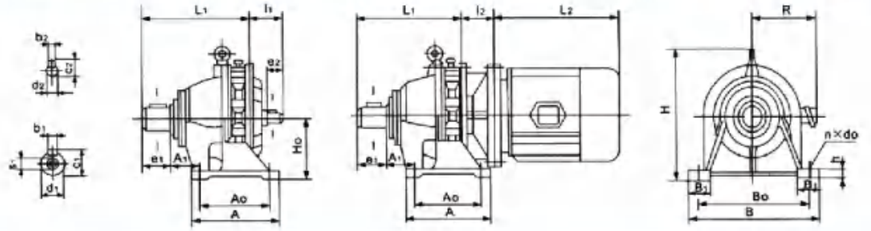
输出转速 Output Speed n_R(r/min)	输出扭矩 Output Torque M_R(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{rR}(kN)	使用系数 Service Factor f_R	机型号 Machine Model	电机极数 Motor Poles
15kW						
16.78	8032	87	72.5	1.41	RB7 RX10	4P
20.56	6555	71	72.5	1.72		
24.7	5448	59	66.5	2.01		
33.95	3970	43	62.2	2.62		
41.71	3231	35	58.9	3.34		
16.78	8032	87	52.9	0.96	RB6 RX9	4P
20.56	6555	71	52.9	1.19		
24.74	5448	59	49.6	1.45		
33.95	3970	43	49.6	1.96		
41.71	3231	35	46.9	2.48		
50.34	2678	29	44.8	2.95		
33.95	3970	43	26.4	1.05	RB5 RX8	4P
41.71	3231	35	26.4	1.35		
50.34	2678	29	25.2	1.64		
63.48	2166	23	22.2	2.02		
85.88	1601	17	20.9	2.74		
50.34	2678	29	12.9	0.96	RX7	4P
63.48	2166	23	12.9	1.18		
85.88	1601	17	10.2	1.5		
132.7	1036	11	8.9	1.95		
162.2	848	9	8.9	2.18		
18.5kW						
16.89	9839	87	72.5	1.18	RB7 RX10	4P
20.71	8030	71	72.5	1.44		
24.92	6672	59	66.5	1.74		
34.19	4863	43	62.2	2.38		
42	3958	35	58.9	2.93		
20.71	8030	71	52.9	0.96	RB6 RX9	4P
24.92	6672	59	49.6	1.16		
34.19	4863	43	49.6	1.81		
42	3958	35	46.9	2.22		
50.69	3279	29	44.8	2.39		
63.91	2653	23	40.2	2.62		
86.47	1961	17	34.9	2.95		
42	3958	35	26.4	1.05	RB5 RX8	4P
50.69	3279	29	25.2	1.31		
63.91	2653	23	22.2	1.62		
86.47	1961	17	20.9	2.19		
133.6	1269	11	15.4	2.85		
163.3	1038	9	12.8	3.41		
22kW						
16.89	11701	87	91.7	1.65	RB8 RX11	4P
20.71	9549	71	91.7	2.02		
24.92	7935	59	84.1	2.46		
16.89	11701	87	72.5	0.98	RB7 RX10	4P
20.71	9549	71	72.5	1.21		
24.92	7935	59	66.5	1.45		
34.19	5783	43	62.2	2.02		
42	4707	35	58.9	2.45		
50.69	3901	29	56.2	2.63		
63.91	3093	23	47.8	3.28		

输出转速 Output Speed n_R(r/min)	输出扭矩 Output Torque M_R(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F_{rR}(kN)	使用系数 Service Factor f_R	机型号 Machine Model	电机极数 Motor Poles
22kW						
34.19	5783	43	49.6	1.38	RB6 RX9	4P
42	4707	35	46.9	1.69		
50.69	3901	29	44.8	2.01		
63.91	3093	23	40.2	2.52		
86.47	2332	17	34.9	2.98		
63.91	3155	23	22.2	1.26	RB5 RX8	4P
86.47	2332	17	20.9	1.84		
133.6	1509	11	15.4	2.34		
163.3	1235	9	12.8	2.45		
30kW						
16.89	15956	87	91.7	1.22	RB8 RX11	4P
20.71	13021	71	91.7	1.48		
24.92	10821	59	84.1	1.81		
34.19	7886	43	78.7	2.35		
24.92	10821	59	66.5	0.95	RB7 RX11	4P
34.19	7886	43	62.2	1.31		
42	6419	35	58.9	1.61		
50.69	5318	29	56.2	1.93		
63.91	4303	23	47.8	2.39		
42	6419	35	46.9	0.95	RB6 RX9	4P
50.69	5318	29	44.8	1.35		
63.91	4303	23	40.2	1.76		
86.47	3180	17	34.9	2.18		
133.6	2058	11	32.6	2.81		
163.3	168	9	29.5	3.12		
37kW						
17.1	19546	87	158.4	1.45	RB9 RX12	4P
20.84	15951	71	158.4	1.78		
25.08	13255	59	158.4	2.12		
17.01	19546	87	91.7	0.95	RB8 RX11	4P
20.84	15951	71	91.7	1.16		
25.08	13255	59	84.1	1.39		
34.42	966	43	78.7	1.92		
42.28	7863	35	74.5	2.28		
34.42	9660	43	62.2	1.06	RB7 RX10	4P
42.28	7863	35	58.9	1.31		
51.03	6515	29	56.2	1.58		
64.35	5272	23	47.8	1.92		
87.06	3896	17	47.8	2.34		
134.5	2521	11	40.9	3.16		
164.4	2026	9	39.5	3.52		
45kW						
17.01	23772	87	158.4	1.17	RB9 RX12	4P
20.84	19399	71	158.4	1.44		
25.08	16121	59	158.4	1.72		
34.42	11749	43	150.1	2.28		
42.28	9563	35	121.2	2.62		
25.08	16121	59	84.1	1.16	RB8 RX11	4P
34.42	11749	43	78.7	1.59		
42.28	9563	35	74.5	1.95		
51.03	7924	29	71.2	2.35		

输出转速 Output Speed n₂(r/min)	输出扭矩 Output Torque M₂(N.M)	速比 Gear Ratio i	径向负荷 Radial Load F₂(kN)	使用系数 Service Factor fs	机型号 Machine Model	电机极数 Motor Poles
45kW						
64.35	6411	23	64.4	2.58	RB8 RX11	4P
87.06	4739	17	60.5	2.89		
51.03	7924	29	56.2	1.42	RB7 RX10	4P
64.35	6411	23	47.8	1.61		
87.06	4739	17	47.8	2.17		
134.5	3066	11	40.9	2.93		
164.4	2509	9	39.5	3.62		
55kW						
20.84	23711	71	158.4	1.21	RB9 RX12	4P
25.08	19704	59	158.4	1.45		
34.42	14361	43	150.1	1.85		
42.28	11689	35	121.2	2.32		
51.03	9685	29	121.2	2.78		
64.35	7836	23	121.2	2.95		
25.08	19704	59	84.1	0.95	RB8 RX11	4P
34.42	14361	43	78.7	1.29		
42.28	11689	35	74.5	1.59		
51.03	9685	29	71.2	1.92		
64.35	7836	23	64.4	2.13		
87.06	5792	17	60.5	2.37		
64.35	7836	23	47.8	1.23	RB7 RX10	4P
87.06	5792	17	47.8	1.59		
134.5	3748	11	40.9	2.45		
164.4	3066	9	39.5	2.82		
75kW						
34.42	19582	43	150.1	1.42	RB9 RX12	4P
42.28	15939	35	121.2	1.68		
51.03	13207	29	121.2	1.89		
64.35	10685	23	121.2	2.32		
87.06	7898	17	121.2	2.61		
51.03	13207	29	71.2	1.26	RB8 RX11	4P
64.35	10685	23	64.4	1.56		
87.06	7898	17	60.5	1.73		
134.5	5110	11	54.2	2.45		
164.4	4181	9	54.2	2.98		
90kW						
34.42	23498	43	150.1	1.13	RB9 RX12	4P
42.28	19127	35	121.2	1.37		
51.03	15848	29	121.2	1.65		
64.35	12823	23	121.2	1.95		
87.06	9478	17	121.2	2.17		
134.5	6132	11	100.1	3.32		
164.4	5018	9	100.1	3.95		

三、JXJ系列行星摆线减速机
JXJ Series Planetary Cycloidal Reducer

一、XJ、JXJ型卧式单级摆线减速机外型及安装尺寸
External Dimensions and Installation Dimensions of XJ and JXJ Type Horizontal Single-Stage Cycloidal Reducer

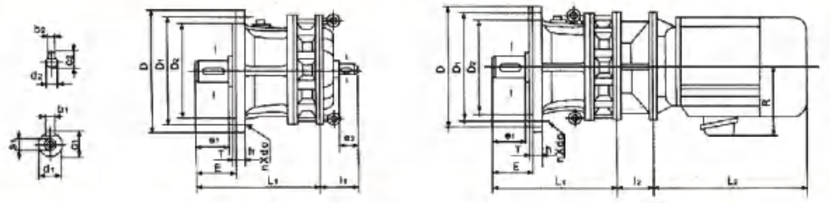


机型 Machine Type	中心高 Center Height	安装尺寸 Installation Dimensions					输出轴 Output Shaft					输入轴 Input Shaft				外形尺寸 External Dimensions								重量(kg) Weight	
	H0	A1	A0	B0	n	d0	d1	b1	c1	e1	s1	d2	b2	c2	e2	l1	A	h	B	H	B1	L1	l1	L2	R	带D With D	不带D Without D
JXJ0	100	67	90	180	4	11	25	8	28	34	M8	15	5	17	25	54	120	15	210	175	32	159					14
JXJ1	140	95	100	250	4	15	35	10	38.5	57	M10	18	5	20.5	35	73	150	20	290	240	55	192					29
JXJ2	140	65	180	285	4	15	50	16	53.5	70	M10	22	6	24.5	40	80	230	25	335	265	65	236					46
JXJ3	160	70	220	350	4	20	65	18	70	110	M12	30	8	33	58	105	280	25	410	355	75	330					93
JXJ4	190	93	270	400	4	25	80	24	85	120	M14	35	10	38.5	78	125	350	35	460	415	75	400					135
JXJ5	250	35	380	480	4	22	90	25	95	120	M16	45	14	48.5	94	169	440	35	530	529	80	447					245
JXJ6	290	46	480	560	4	26	100	28	106	140	M20	50	16	54	107	171	560	40	620	619	100	552					390
JXJ7	325	80	500	630	4	30	110	28	116	150	M20	55	16	59	100	201	600	40	690	706	100	612					570
JXJ8	420	122	660	800	4	32	130	32	137	202	M30	70	20	74.5	160	257	810	50	880	883	140	808					723

按所带电机尺寸决定 Decided by the Size of the Motor Included

按电机重量决定 Decided by the Weight of the Motor

二、XJL、JXJL型立式单级摆线减速机外型及安装尺寸
External Dimensions and Installation Dimensions of XJL and JXJL Type Vertical Single-Stage Cycloidal Reducer



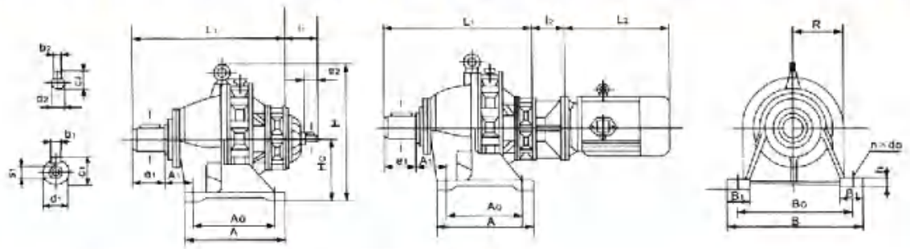
机型 Machine Type	安装尺寸 Installation Dimensions						输出轴 Output Shaft					输入轴 Input Shaft				外形尺寸 External Dimensions								重量(kg) Weight	
	D1	D2	E	T	n	d0	d1	b1	c1	e1	s1	d2	b2	c2	e2	l1	D	h	L1	l2	L2	R			带D With D	不带D Without D
JXJ(L)0	160	130	42	3	6	9	25	8	28	34	M8	15	5	17	25	53	180	12	159							13
JXJ(L)1	200	170	52	4	6	11	35	10	38.5	44	M10	18	5	20.5	35	75	230	15	192							26
JXJ(L)2	230	200	85	4	6	11	50	16	53.5	57	M10	22	6	24.5	40	84	260	18	235							38
JXJ(L)3	310	270	105	4	6	13	65	18	70.5	96	M10	30	8	33	58	105	340	22	325							95
JXJ(L)4	360	316	114	5	8	13	80	24	87	105	M12	35	10	38.5	78	125	400	22	370							142
JXJ(L)5	450	400	114	6	8	18	90	25	95	110	M16	45	14	48.5	94	155	490	30	447							240
JXJ(L)6	520	455	169	8	12	22	100	28	106	135	M20	50	16	54	107	171	580	35	552							370
JXJ(L)7	590	520	174	10	12	22	110	28	116	140	M20	55	16	59	100	202	650	40	612							570
JXJ(L)8	800	680	210	10	12	37	130	32	137	184	M30	70	20	74.5	160	257	880	45	808							723

按所带电机尺寸决定 Decided by the Size of the Motor Included

按电机重量决定 Decided by the Weight of the Motor

三、XJE、JXJ型卧式双级摆线减速机外型及安装尺寸

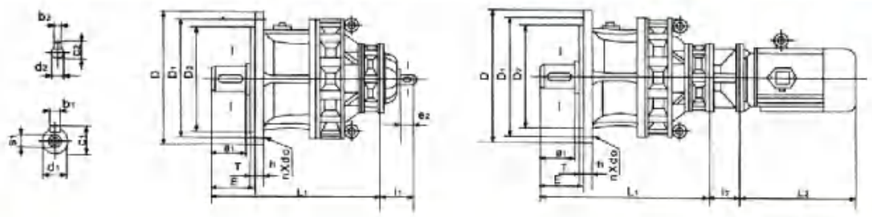
External Dimensions and Installation Dimensions of XJE and JXJ Type Horizontal Two-Stage Cycloidal Reducer



机型 Machine Type	中心高 Center Height	安装尺寸 Installation Dimensions					输出轴 Output Shaft					输入轴 Input Shaft				外形尺寸 External Dimensions									重量(kg) Weight	
	H0	A1	A0	B0	n	d0	d1	b1	c1	e1	s1	d2	b2	c2	e2	l1	A	h	B	H	B1	L1	l1	L2	R	带D With D	不带D Without D
JXJE10	140	95	100	250	4	15	35	10	38.5	55	M10	15	5	17	25	54	150	20	290	240	55	270	按所带电机尺寸决定 Decided by the Size of the Motor Included			减速机重量决定 Decided by the Weight of the Motor	45
JXJE20	140	65	180	280	4	15	50	16	53.5	70	M10	15	5	17	25	54	230	25	335	265	65	314					55
JXJE31	160	70	220	350	4	20	65	18	70	110	M12	18	5	20.5	35	73	280	25	410	355	75	418					95
JXJE41	190	93	270	400	4	25	80	24	85	130	M14	18	5	20.5	35	73	350	35	460	415	75	477					140
JXJE42	190	93	270	400	4	25	80	24	85	130	M14	22	6	24.5	40	80	350	35	460	415	75	505					155
JXJE52	250	35	380	480	4	22	90	25	95	120	M16	22	6	24.5	40	80	440	35	530	529	80	560					270
JXJE53	250	35	380	480	4	22	90	25	95	120	M16	30	8	33	58	105	440	35	530	529	80	582					339
JXJE63	290	46	480	560	4	26	100	28	106	140	M20	30	8	33	58	105	560	40	620	619	100	684					461
JXJE74	325	80	500	630	4	30	110	28	116	150	M20	35	10	38.5	54	125	600	40	690	706	100	760					663
JXJE85	420	122	660	800	4	32	130	32	137	202	M30	45	14	48.5	95	169	810	50	880	883	140	978					880

四、XJLE、JXJLE型立式双级摆线减速机外型及安装尺寸

External Dimensions and Installation Dimensions of XJLE and JXJLE Type Vertical Two-Stage Cycloidal Reducer



机型 Machine Type	安装尺寸 Installation Dimensions					输出轴 Output Shaft						输入轴 Input Shaft				外形尺寸 External Dimensions							重量(kg) Weight	
	D1	D2	E	T	n	d0	d1	b1	c1	e1	s1	d2	b2	c2	e2	l1	D	h	L1	l2	L2	R	带D With D	不带D Without D
JXJE (L) 10	200	170	52	4	6	11	35	10	38	44	M10	15	5	17	25	54	230	15	270	按所带电机尺寸决定 Decided by the Size of the Motor Included			减速机重量决定 Decided by the Weight of the Motor	45
JXJE (L) 20	230	200	81	4	6	11	45	14	48.5	63	M10	15	5	17	25	54	260	15	318					56
JXJE (L) 31	310	270	105	4	6	13	65	18	70.5	94	M10	18	5	20.5	35	75	340	22	418					97
JXJE (L) 41	360	316	114	5	8	16	80	24	87	110	M12	18	5	20.5	35	75	400	22	477					145
JXJE (L) 42	360	316	114	5	8	16	80	24	87	110	M12	22	6	24.5	40	84	400	22	505					160
JXJE (L) 52	450	400	114	6	12	18	90	25	95	110	M16	22	6	24.5	40	80	490	30	560					270
JXJE (L) 53	450	400	114	6	12	18	90	25	95	110	M16	30	8	33	58	105	490	30	582					340
JXJE (L) 63	520	455	169	8	12	22	100	28	106	130	M20	30	8	33	58	105	580	35	684					461
JXJE (L) 74	590	520	174	10	12	22	110	28	116	140	M20	35	10	38.5	78	125	650	40	760					633
JXJE (L) 85	800	680	210	10	12	37	130	32	137	184	M30	45	14	48.5	95	169	880	45	978					880

四、ZLYJ系列单螺杆挤出机齿轮箱
ZLYJ Series Single Screw Extruder Gearbox

一、概述Overview

ZLYJ 系列单螺杆挤出机齿轮箱是我公司引进世界上最先进的硬齿面技术研制的挤出机专用齿轮箱。十年来广泛配套于高中档塑料、橡胶、化纤挤出机，出口国外，行销国内，在业内有较高的知名度，该系列齿轮箱具有如下特点：

1. 整机外形美观大方，立卧两用，适应多种安装要求。
2. 齿轮参数、箱体结构经计算机优化设计：齿轮采用优质低碳合金钢，经渗碳、粹火、磨齿、齿部精度 6 级，齿面硬度在 54~62HRC 之间；齿轮副运转平稳，噪声低，传动效率高。
3. 安装接口的径跳、端跳精度达到国际水平，可十分方便地和机筒螺杆联接。
4. 输出轴的支承结构独树一帜，可有效地延长所用轴承的寿命。
5. 轴承、油封、润滑油泵等标准件均选用国内知名厂家的优质产品，也可以按用户需要，选用进口产品。

ZLYJ Gearboxes for Single-Screw Extruders

We took the toughest hard-tooth-surface tech on the planet and packed it into a gearbox built just for extruders. Over the past decade these boxes have powered high-end plastic, rubber and fiber machines at home and abroad, earning a solid rep on the shop floor. Here's why people love them:

1.Sleek looks, stands up or lies flat—install it any way you want.

2.Gears and housing are CAD-tuned: top-grade low-carbon alloy steel, carburized, quenched, ground to grade-6, 54 - 62 HRC teeth—runs smooth, quiet, and efficient.

3.Mounting interface meets global run-out specs, so it slides right onto the barrel screw—no fuss.

4.Unique output-shaft support gives the bearings a longer lease on life.

5.Bearings, seals, oil pumps—all from China's top makers, or swap in imports if you'd rather.

二、适用范围Scope of Application

1.本系列产品可用于螺杆直径30~250mm 单螺杆挤出机的减速传动。

2. 齿轮箱的输入转速一般不大于1500r/min。

3.传动比在6.3~20之间，优先选用表中所列传动比，也可按用户需要调整传动比。

4. 工作环境温度为-10℃~45℃。环境温度低于0℃时，启动前润滑油应预热。

1.Fits single-screw extruders with screw diameters from 30 mm up to 250 mm.

2.Keep input speed ≤ 1500 rpm.

3.Standard ratios sit between 6.3 and 20; pick one from the chart or tell us what you need.

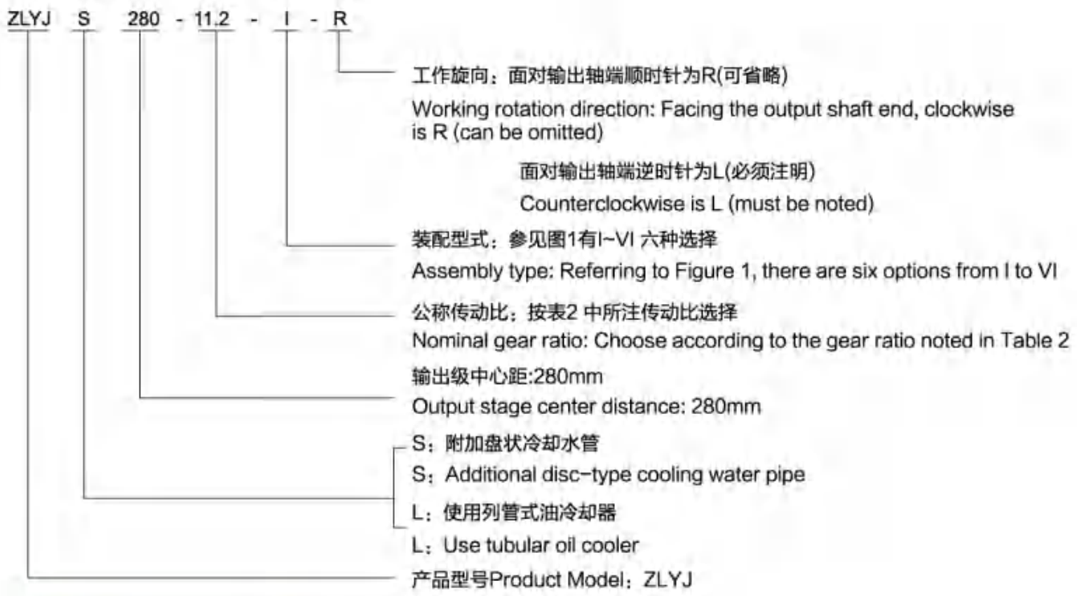
4.Runs happily from - 10℃ to 45℃. If it's below freezing, warm the oil before you fire it up.

三、齿轮箱的型号及标志Gearbox Model and Marking

齿轮箱的代号中，包括型号、输出级中心距、公称传动比、装配型式以及输出轴工作旋向。

The code of the gearbox includes the model, output stage center distance, nominal gear ratio, assembly type, and the working rotation direction of the output shaft.

标记示例Marking Example



四、齿轮箱的承载能力见表2
The load-carrying capacity of the gearbox is shown in Table 2.

ZLYJ 系列齿轮箱的承载能力见表 2。

The load-carrying capacity of the ZLYJ series gearbox is shown in Table 2.

五、齿轮箱的外形及安装型式
Appearance and Installation Types of the Gearbox

ZLYJ 系列齿轮箱的外形、安装尺寸见图 1、表 1。

The appearance and installation dimensions of the ZLYJ series gearbox are shown in Figure 1 and Table 1.

六、齿轮箱的润滑与冷却
Lubrication and Cooling of the Gearbox

1. 齿轮和轴承的润滑根据需要采用浸油润滑、飞溅润滑或强制润滑。ZLYJ200 及以上规格配轴端泵；ZLYJ315 及以上规格可以选配电机油泵。
2. 所有规格产品均可以附加盘状冷却水管；ZLYJ200 及以上规格可以选配列管式油冷却器。
3. 如需附加循环油润滑装置或采用特殊冷却方式，请与我公司联系。

1.Lubrication of the gears and bearings is carried out by oil bath lubrication, splash lubrication or forced lubrication as required.The ZLYJ200 and above models are equipped with an end-of-shaft pump;The ZLYJ315 and above models can be optionally equipped with a motor-driven oil pump.
2.All models can be fitted with a disc-type cooling water pipe;The ZLYJ200 and above models can be optionally fitted with a tubular oil cooler.
3.For additional circulating oil lubrication equipment or special cooling methods, please contact our company.

七、齿轮箱的选用Selection of the Gearbox

1. 校核传递功率。ZLYJ 系列表列输入功率和输出扭矩已考虑工况系数，可直接按表 2 选用，表列输出扭矩是主要选型依据。如果表中所列的公称传动比不能满足要求，请与我公司联系。
2. 校核热功率。ZLYJ 系列按表 2 及附注选用。
3. 校核安装联接尺寸。如果您所需要的尺寸与表中所列的不同，请与我公司联系。
4. 校核轴伸径向力。如输入轴采用皮带轮等引起附加径向力的联接方式时，须确认输入轴伸中点处径向力是否小于 125 T1，T1 为输入扭矩。如不够，请与我公司联系。

1.Check the transmitted power.The input power and output torque listed in the ZLYJ series have taken into account the working condition factor and can be selected directly according to Table 2. The listed output torque is the main basis for selection.If the nominal gear ratio listed in the table cannot meet the requirements, please contact our company.
2.Check the thermal power.The ZLYJ series is selected according to Table 2 and the notes.
3.Check the installation connection dimensions.If the dimensions you need are different from those listed in the table, please contact our company.
4.Check the radial force on the shaft extension.When the input shaft uses a pulley or other connection method that causes additional radial force, it is necessary to confirm whether the radial force at the midpoint of the input shaft extension is less than 125 T1, where T1 is the input torque.If it is not sufficient, please contact our company.

八、安装使用和维护Installation, Use and Maintenance

1. 起吊齿轮箱时，应使用吊环螺钉。
2. 齿轮箱运输、存放时应注意防潮。到货后如半年内不安装，应对外露的加工面重新涂防锈油。
3. 齿轮箱安装的底座要平整，并有足够的强度和刚性，在地脚螺栓均匀紧固的情况下，应保证插入输出轴中的螺杆能无卡滞地均匀回转。联轴器的安装误差应不超过其允许的偏差值，以免引起附加力，缩短轴承寿命。
4. 齿轮箱在交货前均经过严格的试运转检验，各项指标符合要求，交货后可以直接投入使用。使用前应注入中极压齿轮油 N220 至油标上限（采用循环油润滑用 N150）。如齿轮箱附带列管式油冷却器则须在加油后，空车运转一段时间后，再次加油至油标上限。
5. 带有电机油泵的齿轮箱，在加载前，应先开启电机油泵，空车运转一段时间，以利各润滑点的充分润滑。
6. 齿轮箱在首次运行 300 小时后换油，以后每运行 3000~4000~ 小时换油一次，每次换油的间隔时间最长不应超过 18 个月。换油时应先清洗箱体、滤油器、空气滤清器、放油螺塞。

1.When lifting the gearbox, just use the eyebolts—don't get creative.
2.Keep it dry while shipping or sitting in storage. If it's going to sit for more than six months after arrival, slap a fresh coat of rust-proof oil on any exposed machined surfaces.
3.Plant the gearbox on a flat, rock-solid base. Once the anchor bolts are snug, the screw that slides into the output shaft should spin smooth and easy. Keep the coupling misalignment within its limits; otherwise you'll add extra loads and the bearings will cry sooner.
4.Every box is test-run at the factory, so it's ready to rock straight out of the crate. Top it up with EP gear oil N220 to the upper mark (use N150 if it's a circulating-oil setup). Got a built-in oil cooler? After the first fill, run it dry for a bit, then top it off again.
5.If your unit has a motor-driven oil pump, fire up the pump first and let the box idle for a while before you add any load—makes sure oil gets everywhere it should.
6.First oil change is at 300 hours. After that, swap it every 3 000 - 4 000 hours or 18 months max, whichever comes first. When you change it, give the housing, filter, breather and drain plug a good clean before the fresh oil goes in.

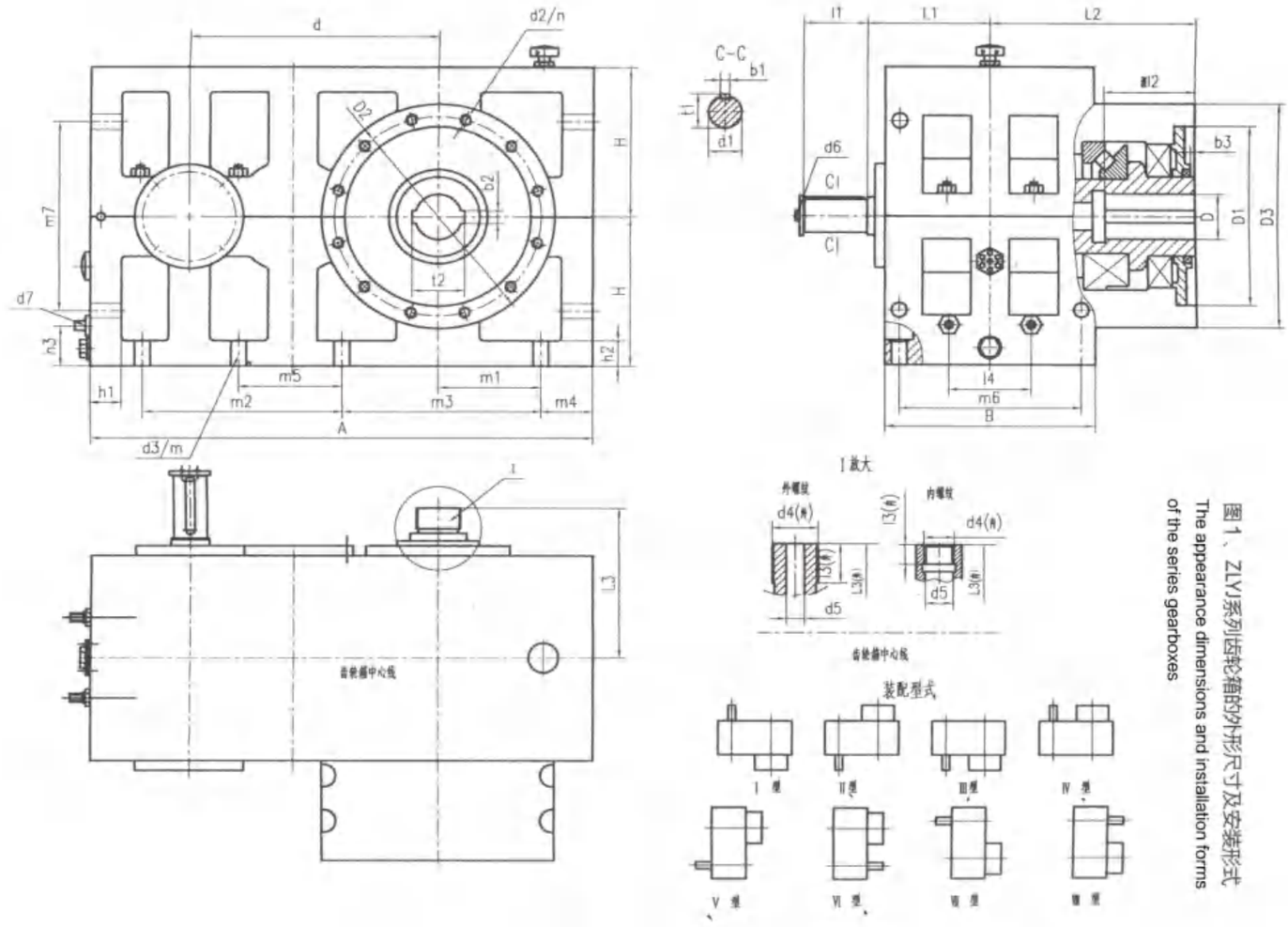


图1、ZLYJ系列齿轮箱的外形尺寸及安装形式

The appearance dimensions and installation forms of the series gearboxes

ZLYJ系列安装尺寸

ZLYJ installation dimensions of the series

型号Model	A	a	B	b1	b2(F9)	b3	D(F8)	D1(F7)	D2	D3	d1(m6)	d2/n	d3/m	d4(内)	d5	d6	d7	H	h1
ZLYJ112	426	184	170	8	8	8	25	160	185	210	28	M10/6	14/4	M16	18	M8	ZG1/2 ·	130	18
ZLYJ133	478	218	215	8	10	8	38	180	205	230	28	M12/8	16/6	M18	20	M8	ZG1/2 ·	140	20
ZLYJ146	560	256	250	10	14	8	45	200	230	260	32	M12/8	16/6	M18	20	M8	ZG1/2 ·	160	24
ZLYJ173	576	285	256	10	2-14	8	50	230	260	300	38	M16/8	18/6	M20	25	M10	ZG1/2 ·	170	24
ZLYJ180	645	320	298	12	2-14	8	50	230	260	320	40	M16/8	18/6	M20	25	M10	ZG1/2 ·	180	25
ZLYJ200	750	340	340	14	2-18	8	60	270	300	350	45	M16/12	18/6	M60X4	40	2-M10	ZG1/2 ·	240	36
ZLYJ225	800	385	360	16	2-20	8	70	330	370	420	55	M20/12	26/6	M60X4	55	2-M12	ZG1/2 ·	250	38
ZLYJ250	930	430	380	18	2-22	8	80	330	370	420	60	M20/12	26/6	M65X4	55	2-M12	ZG1/2 ·	280	45
ZLYJ280	970	480	410	18	2-25	8	90	360	400	450	65	M24/12	30/6	M70X4	55	2-M12	ZG1/2 ·	300	45
ZLYJ315	1160	539	450	20	2-28	8	100	365	405	450	75	M24/12	30/6	M65X4	55	2-M12	ZG1/2 ·	350	50
ZLYJ330	1160	575	450	22	2-28	10	110	400	450	500	85	M24/12	30/6	M65X4	55	2-M12	ZG1/2 ·	350	50
ZLYJ375	1280	625	466	22	2-28	10	110	400	450	500	85	M24/12	32/8	M80X4	60	2-M12	ZG1/2 ·	400	55
ZLYJ420	1420	695	550	25	2-32	10	120	500	580	660	95	M30/12	32/8	M80X4	60	2-M16	ZG1/2 ·	460	60
ZLYJ450	1550	765	600	28	2-36	15	140	500	610	700	100	M30/12	32/8	M90X4	60	2-M16	ZG1/2 ·	500	60
ZLYJ500	1700	855	640	28	2-40	15	160	580	680	780	110	M36/12	40/8	M90X4	60	2-M16	ZG1/2 ·	540	70
ZLYJ560	1860	960	640	32	2-40	20	160	620	720	805	120	M36/12	48/8	M90X4	60	2-M16	ZG1/2 ·	580	70
ZLYJ630	2000	1070	770	32	2-45	20	180	650	720	805	120	M36/12	48/8	M125X4	60	2-M16	ZG1/2 ·	630	80

型号Model	h2	h3	L1	L2	L3	l1	l2	l3(内)	l4	m1	m2	m3	m4	m5	m6	m7	t1	t2
ZLYJ112	18	--	106	203	125	60	52	35	--	96	--	326	50	--	136	170	31	28.3
ZLYJ133	20	38	125	205	137	60	80	40	60	104	185	185	61	-	180	184	31	41.3
ZLYJ146	22	45	148	245	167	70	120	36	70	118	190	235	72	--	210	210	35	48.8
ZLYJ173	22	40	148	250	167	80	140	30	85	113.5	220	220	68	--	225	214	41	57.6
ZLYJ180	25	40	168	290	171	90	150	30	100	140	135	390	60	--	250	214	44	57.6
ZLYJ200	32	40	200	330	250	80	170	40	120	150	275	275	100	--	290	310	48.5	68.8
ZLYJ225	34	55	205	355	265	110	170	40	130	165	310	310	90	--	315	330	59	79.8
ZLYJ250	45	50	220	380	285	110	180	40	160	205	360	360	105	--	330	340	64	90.8
ZLYJ280	45	50	240	405	300	125	180	40	160	200	385	385	100	--	355	380	69	100.8
ZLYJ315	50	55	275	440	323	140	200	40	160	260	450	450	130	--	390	460	79.5	112.8
ZLYJ330	50	55	260	445	350	170	220	40	160	225	450	450	130	--	390	425	90	122.8
ZLYJ375	55	55	265	445	355	170	255	40	160	250	475	500	165	265	400	500	90	122.8
ZLYJ420	60	60	310	535	370	170	270	40	200	305	580	540	150	328	480	600	100	134.8
ZLYJ450	60	60	350	600	425	170	270	50	200	300	600	600	190	300	520	600	106	156.8
ZLYJ500	70	60	370	650	430	170	270	50	200	345	670	660	190	360	550	760	116	178.8
ZLYJ560	70	60	370	670	435	180	300	50	200	390	750	760	180	390	550	800	127	178.8
ZLYJ630	80	80	430	760	520	180	300	60	300	400	850	800	200	450	670	840	127	200.8

表1 Table 1

ZLYJ系列承载能力
ZLYJ Series load-carrying capacity

表2 Table 2

型 号 Model	ZLYJ																
规格 Sixes	△ 112 -8	△ 133 -8	△ 146 -10	△ 173 -10	△ 180 -10	△ 200 -12.5	△ 225 -12.5	△ 250 -16	※ 280 -16	※ 315 -16	※ 330 -16	※ 375 -16	※ 420 -16	※ 450 -20	※ 500 -20	※ 560 -20	※ 630 -20
	公称输入功率Nominal input power (KW)n 入= 1500r/min																
一般可靠 Nor mally Reliable	11	17	23	30	36	40	58	62	90	124	160	190	280	330	450	600	825
高可靠 Highly Reliability	7	12	16	24	29	32	46	50	72	100	128	155	220	265	360	500	688
	许用输出扭矩Allowable output torque (N.m)																
一般可靠 Nor mally Reliable	560	866	1464	1910	2292	3183	4616	6316	9168	12632	16300	19355	28523	42180	57300	76400	105050
高可靠 Highly Reliability	357	611	1019	1528	1846	2547	3660	5093	7334	10187	13040	15790	22411	33745	45840	63667	87605
	许用输出轴轴向推力Allowable axial thrust of the output shaft (KN)																
轴向推力 Axial Thrust	35	39	54	80	110	130	155	170	197	245	324	324	415	540	756	830	880
	推荐配置Recommended configuration																
螺杆直径 Diameter of Screw Rod(mm)	35	45 / 50	55	65	65	75	90	100	105 / 110	120	130 / 150	150 / 160	165	170	180	190	200
输入功率 Input Power (KW)	5.5	8	12	16	22	26	38	45	50	65	90	120	160	212	288	400	550
n 入 n Inpot	800	800	900	900	1000	1000	1000	1120	960	960	960	960	960	1200	1200	1200	1200
n 出 n Out	100	100	90	90	100	80	80	70	60	60	60	60	60	60	60	60	60

注：

1.△一带冷却，※一带冷却和强制油循环。112、133、146、173按高可靠预选用时不需带冷却。

2.表列输入功率和输出扭矩已考虑工况系数，可直接选用。

3.表列输出扭矩是主要选型依据。传动比可按用户需要调整。ZLYJ 的指数为6.3-20;ZSYJ 的指数为22.4-100。

4. 当取轴承负荷系数fd=1.5 时，按表列许用轴向推力和输出轴给定转速计算，推力轴承的理论计算寿命，除133、146两型为1.2万小时左右，其余各 型皆在2.5万小时左右。

5.以下几种情况、应对齿轮箱的冷却设计参数校核：

5.1按高可靠数据选用，但输出转速超过表(2)n 出时(即加大了输入功率)。

5.2按一般可靠选用，输入功率加大时。

5.3当内冷却方式散热面积不足时，采用带油泵的外置式油冷却器。采用冷却器需在订货时另外说明。

6.用户按表列数据作初步选型。在订货时，我厂将对每一例选型作详细校核、以提高选用的可靠性。

Notes (plain & simple):

1.△ = with cooling, ※ = with cooling + forced oil loop. Models 112, 133, 146, 173 don't need cooling if you pick the "high-reliability" line.

2.The power and torque in the sheet already include the service factor—grab them straight off.

3.Go by the torque column first. Ratios can be tweaked: ZLYJ 6.3-20, ZSYJ 22.4-100.

4.With bearing load factor fd = 1.5, thrust-bearing life is ~12 k hrs for 133/146 and ~25 k hrs for the rest (at the listed thrust and rpm).

5.You'll need to double-check cooling if:

5.1 You use the high-reliability pick but push rpm above table n-out (bigger input power).

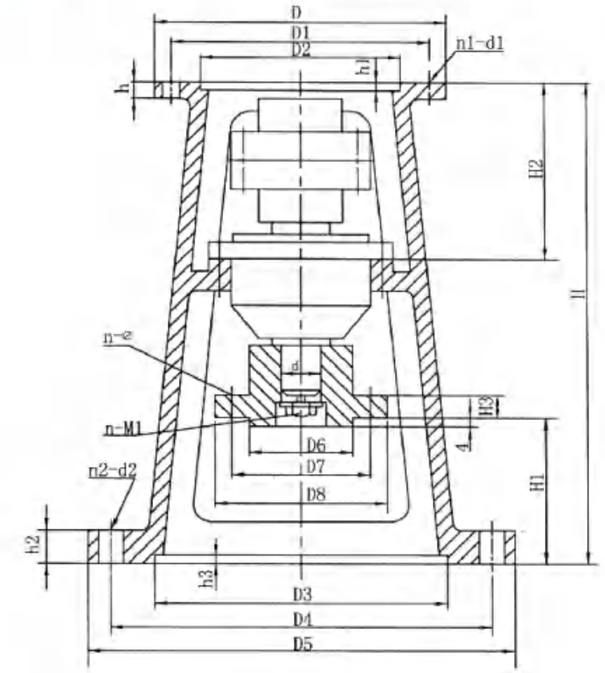
5.2 You run the standard pick with extra input power.

5.3 Built-in cooling isn't enough—then we'll bolt on an external oil cooler with pump. Mention it when you order.

6.Use the table for a quick pick; we'll still run a detailed check on every order to keep things bullet-proof.

五、化工搅拌反应釜专用机架
Special machine frame for chemical mixing reactor

一、TJ型机架TJ type frame



JAI（69 标）无支点机架主要参数及尺寸

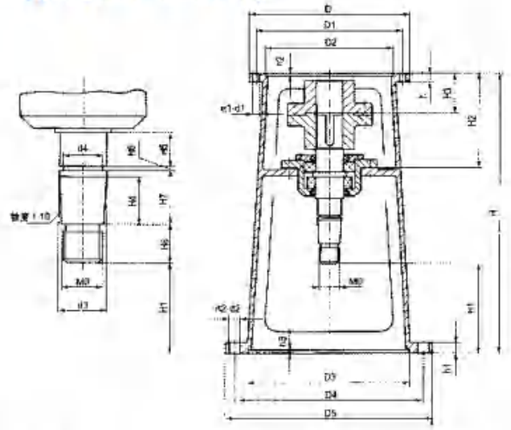
Main parameters and dimensions of JAI(69 standard) non-supported frame

机架型号 Frame model	输入端接口Input end interface						输出端接口Output end interface						H	H1	H2	H3	d	D6	D7	D8	n- ¢	n-M1
	D	D1	D2	h	h1	n1-d1	D3	D4	D5	h2	h3	n2-d2										
TJ1-B1(X3)	230	200	170	20	6	6-12	220	270	305	22	7	4-24	514	201	185	15	35	60	110	140	4-13.5	1-10
TJ2-B1(X3)	230	200	170	20	6	6-12	250	300	335	22	7	4-24	517	197	190	15	35	60	110	140	4-13.5	1-10
TJ2-B2(X4)	260	230	200	20	7	6-13	250	300	335	25	7	4-24	530	176	210	20	45	85	120	160	4-13.5	1-12
TJ3-B2(X4)	260	230	200	20	7	6-13	295	350	392	26	7	4-26	590	206	210	20	45	85	120	160	4-13.5	1-12
TJ3-B3(X5)	340	310	270	20	7	6-13	295	350	392	26	7	4-26	590	191	210	20	45	85	120	160	4-13.5	1-12
TJ4-B3(X5)	340	310	270	20	7	6-13	345	400	442	26	7	4-26	635	245	215	22	55	100	150	180	4-18	1-16
TJ5-B3(X5)	340	310	270	22	7	6-13	390	450	498	26	7	4-30	635	250	215	22	55	100	150	180	4-18	1-16
TJ6-B4(X6)	400	360	320 (316)	22	7	8-16	435	500	548	30	7	8-30	736	276	250	28	70	110	165	200	4-18	1-16
TJ7-B5(X8)	490	450	400	26	10	12-18	440	550	600	30	10	12-22	805	241	296	36	90	150	190	230	6-18	1-16
TJ8-B6(X9)	580	520	460 (455)	28	10	12-22	550	550	600	32	10	12-22	820	192	362	36	100	140	200	240	6-18	1-16
TJ9-B7(X10)	650	590	520	30	12	12-22	560	650	700	35	10	16-27	1100	365	455	36	110	150	250	290	6-27	1-16
TJ10-B8(X11)	880	800	680	45	12	12-38	720	810	800	45	10	20-27	1200	304	550	40	130	180	290	350	6-27	1-16

注：TJ6、TJ7可配X7减速机，订货时须说明。

Note: TJ6 and TJ7 can be equipped with X7 reducer, which needs to be specified when ordering.

二、JBT型（79标）JBT Type (79 Standard)



JBT型（79标）机架主要参数及尺寸Main parameters and dimensions of JBT type (79 standard) frame

机架型号 Frame model	减速机型号 Reducer model	输入端接口 Input end interface						输出端接口Output end interface						尺寸Dimensions		
		D	D1	D2	h	h2	n1-d1	D3	D4	D5	h3	h1	n2-d2	H	H1	H2
JBT1	B1	230	200	170	18	5	6-12	220	270	305	7	20	4-24	514	157	175
JBT2	B1	230	200	170	18	5	6-12	250	300	335	7	20	4-24	517	150	175
JBT2	B2	260	230	200	18	5	6-12	250	300	335	7	20	4-24	530	134	209
JBT3	B2	260	230	200	20	5	6-12	295	350	392	7	23	4-24	560	164	209
JBT3	B3	340	310	270	20	6	6-13.5	295	350	392	7	23	4-24	560	165	210
JBT4	B3	340	310	270	20	6	6-13.5	345	400	442	7	24	4-24	635	203	215
JBT5	B3	340	310	270	22	6	6-13.5	390	450	498	7	25	4-30	680	193	239
JBT5	B4	400	360	316 320	22	6	8-16	390	450	498	7	25	4-30	680	193	239
JBT6	B4	400	360	316 320	22	6	8-16	435	500	548	7	26	8-30	736	215	253
JBT7	B5	490	450	400	26	7	12-18	440	550	600	10	28	12-22	805	180	296
JBT8	B6	580	520	455 460	30	10	12-22	500	550	600	10	30	12-22	820	170	358
JBT9	B7	650	590	520	30	12	12-22	560	650	700	10	35	16-27	1100	326	455
JBT10	B8	880	800	680	38	12	12-37	720	810	880	10	40	20-27	1200	409	460

机架型号 Frame model	减速机型号 Reducer model	反应罐容积(升) Reactor volume (liters)	尺寸Dimensions								
			H3	H4	H5	H6	H7	H8	d3	d4	M0
JBT1	B1	50-100	77	33	52	4	39	34	30	24	M24×3
JBT2	B1	200	77	44	52	5	50	32	39	32	M33×3.5
JBT2	B2	200	93	44	43	5	50	32	39	32	M33×3.5
JBT3	B2	300-500	93	47	38	5	53	34	39	32	M33×3.5
JBT3	B3	300-500	92	47	36	5	53	34	39	32	M33×3.5
JBT4	B3	1000-2000	92	53	43	5	61	44	50	41.5	M42×4.5
JBT5	B3	3000	92	58	68	5	66	45	60	51.5	M52×5
JBT5	B4	3000	119	58	68	5	66	45	60	51.5	M52×5
JBT6/JBT6-B	B4	5000	117	58	67	9	66	50 45	70 60	61.5 51.5	M64×6 M52×5
JBT7/JBT7-B	B5		140	80	94	8	88	50	90	79	M80×6 M80×2
JBT8/JBT8-B	B6		183	90	44	9	98	50	100	89	M90×6 M90×2
JBT9/JBT9-B	B7		204	100	50	10	110	50	110	99	M98×6 M98×2
JBT10/JBT10-B	B8		219	100	50	10	110	50	130	119	M118×6 M118×2

注：JBT6,JBT7,JBT8,JBT9,JBT10,五种机架，螺纹M0各有二种规格，订货时请注明，未加注明按标准架供货，标准机架型号后不标注-B.
Note: For the five types of frames JBT6, JBT7, JBT8, JBT9, and JBT10, there are two specifications each for the thread MO. Please specify when ordering. If not specified, the standard frame will be supplied. The standard frame model does not have the "-B" annotation.

三、DJ、LDJ型机架 DJ and LDJ Type Frames

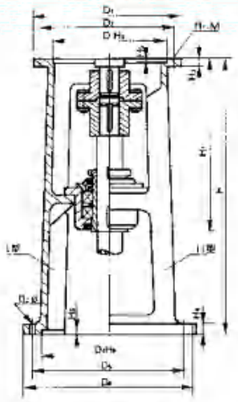
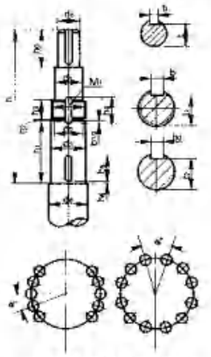


图5-11 DJ、LDJ型机架
Figure 5-11 DJ and LDJ Type Frames



Ⅰ型底面螺孔布置图
Ⅱ型底面螺孔布置图
Type Ⅰ、Ⅱ Bottom Surface Bolt Hole Layout

DJ、LDJ 型单支点机架主要参数及尺寸Main Parameters and Dimensions of DJ and LDJ Type Single-Support Frames

型号 Model		H1	H2	H4	H5	H6	输入端接口Input end interface D1	D2	D3	n1-M	输出端接口Output end interface D4	D5	D6	α[1]	n2-Φ
DJ，LDJ30	A	320	15	20	4	6	140	160	190	4-M10	240	285	315	20	10-Φ14
	B						200	230	260	6-M12				30	12-Φ14
DJ，LDJ35A		334	17	20	5	6	170	200	230	6-M10 (6-M12)	260	320	360	20 30	10-Φ14 12-Φ14
DJ，LDJ40	A	334	17	20	4	6	200	230	260	6-M10	260	320	360	20	10-Φ14
	B						230	260	290	6-M12				30	12-Φ14
DJ，LDJ45A		338	20	20	5	6	200	230	260	6-M10 (6-M12)	260	320	360	20 30	10-Φ14 12-Φ14
DJ，LDJ55	A	372	22	24	6 5	6	270	310	340	8-M10	325	400	435	30	12-Φ14
	B							305		8-M16					
DJ，LDJ65A		447	22	24	6	6	316 (320)	360	400	8-M12 (8-M16)	350	420	460	30	12-Φ18
DJ，LDJ70	A	447	22	24	6 5	6	316 (320)	360	400	8-M12	350	420	460	30	12-Φ18
	B						320			(8-M16)					
DJ，LDJ80	A	495	22	28	6 5	8	345	390	430	8-M16	380	455	495	30	12-Φ18
	B						360	410	460	(8-M20)					
DJ，LDJ90A		519	22	28	7	8	400	450	490	12-M16 (12-M20)	430	510	555	30	12-Φ23
DJ，LDJ100	A	535	25	28	9 5	10	455 (460)	520	580	12-M20	480	560	600	22.5	16-Φ23
	B						470								
DJ，LDJ110	A	660	30	28	11 6	10	520	590	650	12-M20	560	650	700	22.5	16-Φ27
	B														
DJ，LDJ120A		660	30	38	11	10	520	590	650	12-M20	560	650	700	22.5	16-Φ27
DJ，LDJ130	A	790	45	40	12 9	10	680	800	880	12-M30	720	810	880	18	20-Φ27
	B														
DJ，LDJ140A		790	45	40	12 9	12	680	800	880	12-M30	720	810	880	18	20-Φ27
DJ，LDJ150		790	45	45	14 10	12	820	940	1020	16-M30	840	940	1020	22.5	16-Φ33
DJ，LDJ160		810	50	50	14 10	12	820	940	1020	16-M30	840	940	1020	22.5	16-Φ33
DJ，LDJ180		910	55	50	14 10	12	960	1080	1160	20-M30	970	1080	1160	18	20-Φ33

型号 Model	搅拌轴轴端尺寸Stirring Shaft End Dimensions																			DJ型 typeDJ		LDJ型 typeLDJ	
	h (A/B)	h0	h1	h2	h3	h4	h5	h6	d0	d1	d2	M1	d3(h9)	d4	b	b1	b2	t	t1	t2	H	重量 weight	H	重量 weight
DJ，LDJ30	250/254	53	103	3	13	22	30	3	30	32	32.8	M35×1.5	35	40	8	6	6	26	31	31.5	550	46(kg)	700	54(kg)
DJ，LDJ35A	253	53	113	3	15	24	40	3	35	42	42.8	M45×1.5	45	50	10	6	6	30	41	41.5	600	79	750	89
DJ，LDJ40	242/249	69	113	3	15	24	40	3	40	42	42.8	M45×1.5	45	50	12	6	6	35	41	41.5	600	79	750	89
DJ，LDJ45A	246	69	113	3	15	28	40	3	45	47	47.8	M50×1.5	50	65	14	8	8	39.5	46	46	600	84	750	94
DJ，LDJ55	274/272	80	118	4	15	27	40	3	55	57	57	M60×2	60	65	16	8	8	49	56	56	680	151	760	157
DJ，LDJ65A	333	87	143	4	18	32	50	3	65	71	72	M75×2	75	80	18	10	10	58	69	70	720	171	870	181
DJ，LDJ70	333/327	87	143	4	18	32	50	3	70	71	72	M75×2	75	80	20	10	10	62.5	69	70	720	171	870	181
DJ，LDJ80	371/340	91	163	4	18	32	60	3	80	81	82	M85×2	85	90	22	10	10	71	79	80	785	209	935	219
DJ，LDJ90A	375	125	168	4	20	36	60	3	90	91	92	M95×2	95	110	25	12	12	81	89	90	805	266	955	276
DJ，LDJ100	386/360	134	178	4	24	42	60	3	100	111	112	M115×2	115	125	28	14	14	90	109	109.5	820	347	1020	362
DJ，LDJ110A	456	155	178	4	24	42	60	3	110	112	112	M115×2	115	125	28	14	14	100	109	109.5	1100	533	1150	537
DJ，LDJ120A	456	155	178	4	24	42	60	3	120	122	122	M125×2	125	140	32	14	14	109	119	119.5	1100	553	1150	557
DJ，LDJ130	570/570	197	208	4	28	46	70	3	130	135	137	M140×2	140	150	32	14	14	119	132	134.5	1200	723	1400	754
DJ，LDJ140A	570	197	208	4	28	48	70	3	140	145	147	M150×2	150	160	36	16	16	128	142	144	1200	743	1400	774
DJ，LDJ150	根据减速机型号而定 Determined by the reducer model	210	208	4	32	52	70	3	150	155	156	M160×3	160	170	36	16	16	138	152	154	1200	765	1400	798
DJ，LDJ160		210	227	4	32	52	80	3	160	165	166	M170×3	170	180	40	16	16	147	162	164	1200	780	1400	820
DJ，LDJ180		235	242	4	36	58	90	3	180	185	186	M190×3	190	200	45	18	18	165	180	182	1280	887	1400	933

注：图示所注“h”仅与本样本BLD、系列减速机相配，如选用其他型号或其他厂家减速机，“h”需另行计算。增高后的LDJ型机架其下部空间高度可容纳205、206或207双端面机械密封。
Note: The dimension "h" shown in the figure is only applicable to the BLD series reducers in this catalog. If other models or reducers from other manufacturers are selected, "h" needs to be recalculated.The increased height of the LDJ type frame allows its lower space to accommodate double-end face mechanical seals of models 205, 206, or 207.

四、JXLD型、JXLD、JBLD新标型机架
JXLD Type, JXLD, JBLD New Standard Frames

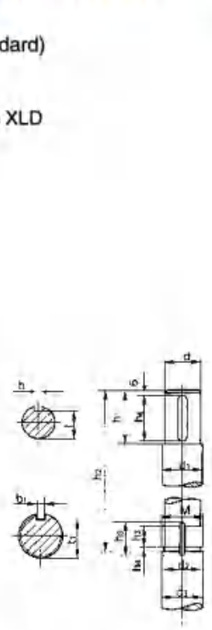
1、 JXLD型机架（74标）JXLD Type Frame (74 Standard)

本机架可直接与我厂的XLD型减速机10种机型联接。
This frame can be directly connected to 10 models of the XLD type reducers from our factory.

型号标定方法示例：
Example of Model Numbering Method:

JXLD X XX X

- 机架高度代号
  Ⅰ型：普通型 Ⅱ型：增高型
  Frame height code Type
  I: Standard Type
  Ⅱ: Increased height
- 减速机输出轴轴径（mm）
  Reducer output shaft diameter (mm)
- 减速机型号（3#–12#）
  Reducer model (3#–12#)
- 机架代号
  Frame code



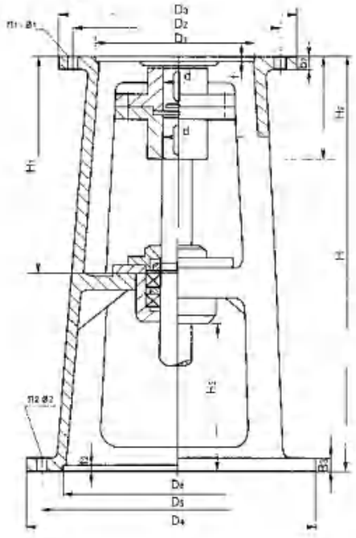


图5–14 JXLD型机架
Figure 5–14 JXLD Type Frame

JXLD 型机架主要参数及尺寸Main Parameters and Dimensions of JXLD Type Frame

机架代号 Frame code	减速机出轴轴径d Reducer output shaft diameter d	d1	搅拌轴轴端尺寸Stirring shaft end dimensions												外形及联接尺寸 Outline and connection dimensions												Ⅰ型 TypeⅠ		Ⅱ型 TypeⅡ	
			M	d2	d3 (K6)	h1	h2	h3	h4	h5	h6	b	b1	t	t1	H1	H2	D3	D2	D1	n1–Φ1	D4	D5	D6 (H9)	t2	h2	N2–Φ2	H	重量 Weight (kg)	H3	重量 Weight (kg)
JXLD3	35	40	M45×1.5	42.8	45	60	215	10	3	16	50	10	6	30	41	291	136	230	200	170	6–12	410	360	300	6	18	6–18	520	170	55	610	260	80
JXLD4	45	50	M55×2	52	55	75	235	14	4	22	69	14	8	39.5	51	335	175	260	230	200	6–12	450	400	335	6	18	6–18	570	155	80	670	255	86
JXLD5	55	60	M65×2	62	65	75	301	14	4	22	70	16	8	49	61	404	178	340	310	270	6–13	500	450	385	6	22	6–18	650	157	110	750	257	120
JXLD6	65	70	M75×2	72	75	90	277	16	4	25	85	18	10	58	70	402	215	400	360	316	8–16	530	480	410	8	22	12–18	660	168	130	760	268	145
JXLD7	80	85	M90×2	87	90	105	316	20	4	30	100	22	12	71	84	441	230	430	390	345	8–18	565	510	430	8	24	12–22	740	194	160	860	314	178
JXLD8	90	95	M100×2	97	100	125	320	20	4	30	120	25	12	81	94	471	276	490	450	400	12–18	565	510	430	8	28	12–22	800	212	208	920	332	230
JXLD9	100	105	M110×2	107	110	125	308	20	4	31	120	28	14	90	104	496	313	580	520	455	12–22	580	520	455	10	30	12–22	810	191	235	920	301	262
JXLD10	110	115	M120×2	117	120	155	267	24	4	35	150	28	14	100	114	475	363	650	590	520	12–22	650	590	520	12	30	12–22	830	221	300	950	341	345
JXLD11	130	135	M140×2	137	140	155	301	28	4	39	150	32	14	119	132	521	375	880	800	680	12–38	880	800	680	12	30	12–37	850	185	480	970	305	538
JXLD12	180	190	M200×3	196	200	284	377	36	4	48	280	45	16	165	190	757	664	1160	1020	900	8–39	1160	1020	900	12	45	8–39	1200	235		350	385	

注：图示所注“h2”仅与本样本XLD系列减速机相配，如选用其他型号或其他厂家减速机，“H2”需另行计算。Ⅰ型这为普通型，Ⅱ型为增高型、除H、H3尺寸加大外，其余尺寸与Ⅰ型相同。
Note: The dimension “h2” shown in the figure is only applicable to the XLD series reducers in this catalog. If other models or reducers from other manufacturers are selected, “H2” needs to be recalculated.Type I is the standard type, and Type Ⅱ is the increased height type. Except for the enlarged dimensions of H and H3, the other dimensions are the same as Type I.

五、DXJ型机架
DXJ Type Frame

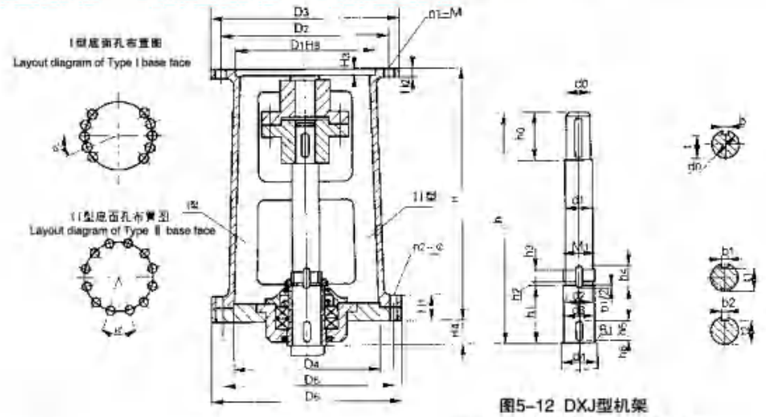


图5–12 DXJ型机架
Figure 5–12 DXJ Type Frame

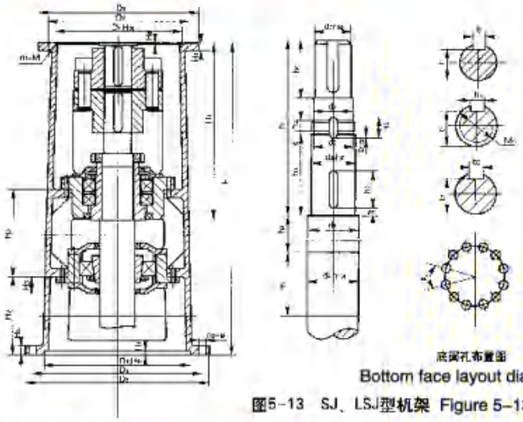
DXJ 型单支点机架主要参数及尺寸 Main Parameters and Dimensions of DXJ Type Single–Support Frame

机架型号 Frame model		H	H1	H2	H3	H4	输入端接口Input end interface D1	D2	D3	n1–M	输出端接口Output end interface D4	D5	D6	α°	n2–Φ
DXJ30	A	470	40	15	4	45	140	160	190	4–M10	240	285	315	20	10–Φ14
	B						200	230	260	6–M12				30	12–Φ14
DXJ35A		524	48	15	5	47	170	200	230	6–M10 6–M12	260	320	360	20 30	10–Φ14 12–Φ14
DXJ40	A	524	48	15	4	47	200	230	260	6–M10	260	320	360	20	10–Φ14
	B						230	260	290	6–M12				30	12–Φ14
DXJ45A		524	48	15	5	49	200	230	260	6–M10 6–M12	260	320	360	20 30	10–Φ14 12–Φ14
DXJ55	A	570	60	20	6	47	270	310	340	6–M10	325	400	435	30	12–Φ14
	B				8			305		6–M12					
DXJ65A		634	68	20	8	58	316	360	400	8–M12 8–M16	350	420	460	30	12–Φ18
DXJ70	A	634	68	20	6	58	316 (320)	360	400	8–M12	350	420	460	30	12–Φ18
	B						320			8–M16					
DXJ80	A	678	76	25	8	70	345	390	430	8–M12	380	455	495	30	12–Φ18
	B						380	410	460	8–M16					
DXJ90A		700	80	25	7	72	400	450	490	12–M16 12–M20	430	510	555	30	12–Φ23
DXJ100	A	740	80	25	9	76	456 (460)	520	580	12–M20	480	560	600	22.5	16–Φ23
	B				5		470								
DXJ110A		840	80	30	11	76	520	590	650	12–M20	560	650	700	22.5	16–Φ27
DXJ120A		840	80	30	11	76	520	590	650	12–M20	560	650	700	22.5	16–Φ27
DXJ130	A	950	94	30	11	85	680	800	880	12–M30	720	810	880	18	20–Φ27
DXJ140A		950	94	30	11	85	680	800	880	12–M30	720	810	880	18	20–Φ27
DXJ150	A	950	94	35	14	85	820	940	1020	16–M30	840	940	1020	22.5	16–Φ33
DXJ160	A	950	100	35	14	95	820	940	1020	16–M30	840	940	1020	22.5	16–Φ33
DXJ180	A	1050	100	40	14	115	960	1080	1160	20–M30	970	1080	1160	18	20–Φ33

机架型号 Frame model	h(A/B)	搅拌轴轴端尺寸Stirring shaft end dimensions h0	h1	h2	h3	h4	h5	h6	d0	d1	d2	M1	d3(H9)	d4	b	t	t1	b1	t2	b2	重量Weight (kg)
DXJ30 A/B	431/445	53	103	3	13	22	30	3	30	32	32.8	M35x1.5	35	40	8	26	31	6	31.5	6	48
DXJ35A	490	53	113	3	15	24	40	3	35	42	42.8	M45x1.5	45	50	10	30	41	6	41.5	6	62
DXJ40 A/B	479/482	69	113	3	15	24	40	3	40	42	42.8	M45x1.5	45	50	12	35	41	6	41.5	6	62
DXJ45A	481	69	113	3	15	28	40	3	45	47	47.8	M50x1.5	50	65	14	39.5	46	8	46	8	67
DXJ55 A/B	530	80	118	4	15	27	40	3	55	57	57	M60x2	60	65	16	49	56	8	56	8	107
DXJ65A	590	87	143	4	18	32	50	3	65	71	72	M75x2	75	80	18	58	69	10	70	10	150
DXJ70 A/B	590/580	87	143	4	18	32	50	3	70	71	72	M75x2	75	80	20	62.5	69	10	70	10	150
DXJ80 A/B	630/590	91	163	4	18	32	60	3	80	81	82	M85x2	85	90	22	71	79	10	80	10	213
DXJ90A	636	125	168	4	20	36	60	3	90	91	92	M95x2	95	110	25	81	89	12	90	12	276
DXJ100 A/B	667/641	134	178	4	24	42	60	3	100	111	112	M115x2	115	125	28	90	109	14	109.5	14	326
DXJ110A	712	155	178	4	24	42	60	3	110	112	112	M115x2	115	125	28	100	109	14	109.5	14	505
DXJ120A	712	155	178	4	24	42	60	3	120	122	122	M125x2	125	140	32	109	119	14	119.5	14	510
DXJ130 A/B	815/815	197	208	4	28	46	70	3	130	135	137	M140x2	140	150	32	119	132	14	134.5	14	689
DXJ140A	815	197	208	4	32	52	70	3	140	145	147	M150x2	150	160	36	128	142	16	144	16	696
DXJ150 A/B	根据减速机型号而定 Determined by the reducer model	210	208	4	32	52	70	3	150	155	156	M160x3	160	170	36	138	152	16	154	16	708
DXJ160 A/B		210	227	4	32	52	80	3	160	165	166	M170x3	170	180	40	147	162	16	164	16	930
DXJ180 A/B		290	242	4	36	58	90	3	180	185	186	M190x3	190	200	45	165	180	18	182	18	1240

注：图示所注“h”仅与本样本BLD系列减速机相配，如选用其他型号或其他厂家减速机，“h”需另行计算。
Note: The dimension "h" shown in the figure is only applicable to the BLD series reducers in this catalog. If other models or reducers from other manufacturers are selected, "h" needs to be recalculated.

六、SJ、LSJ型机架SJ and LSJ Type Frames



底脚孔布置图
Bottom face layout diagram

图5-13 SJ、LSJ型机架 Figure 5-13 SJ、LSJ Type Frame

SJ、LSJ 型双支点机架主要参数及尺寸Main Parameters and Dimensions of SJ and LSJ Type Twin-Support Frames

机架代号 Frame Code		H0	H1	H2	H4	H5	H6	H7	D1	D2	D3	n1-M	D4	D5	D6	α°	n2-Φ
SJ、LSJ55	A/B	450	402	58	22	24	6	6	270	310/305	340	6-M10/6-M16	325	400	435	30	12-Φ14
SJ、LSJ65	A/B	450	487	58	22	24	8/8	6	316	360	400	8-M12/(8-M16)	350	420	460	30	12-Φ18
SJ、LSJ70	A/B	450	487	58	22	24	8/8	6	316 (320)/326	360	400	8-M12/8-M16	350	420	460	30	12-Φ18
SJ、LSJ80	A/B	450	545	60	25	28	8/8	8	345/360	390/410	430/460	8-M16/8-M20	380	455	495	30	12-Φ23
SJ、LSJ90A		600	569	69	25	40	7	8	400	450	490	12-M16/(12-M20)	430	510	555	30	12-Φ23
SJ、LSJ100	A/B	600	685	61	30	40	9/8	10	455 (460)/470	520	580	12-M20	480	560	600	22.5	16-Φ23
SJ、LSJ110A		600	685	61	38	40	11	10	520	590	650	12-M20	560	650	700	22.5	16-Φ27
SJ、LSJ120A		600	685	61	38	40	11	10	520	590	650	12-M20	560	650	700	22.5	16-Φ27
SJ、LSJ130	A/B	650	761	85	40	45	11/9	10	680	800	880	12-M30	720	810	880	18	20-Φ27
SJ、LSJ140A		650	761	85	40	45	11/9	12	680	800	880	12-M30	720	810	880	18	20-Φ27
SJ、LSJ150	A/B	650	761	76	50	50	14/10	12	820	940	1020	16-M30	840	940	1020	22.5	16-Φ33
SJ、LSJ160	A/B	650	780	81	50	50	14/10	12	820	940	1020	16-M30	840	940	1020	22.5	16-Φ33
SJ、LSJ180	A/B	650	910	83	50	50	14/10	12	960	1080	1160	20-M30	970	1080	1160	18	20-Φ33

型号 Model		搅拌轴轴端尺寸Stirring shaft end dimensions																			SJ型 typeSJ			LSJ型typeLSJ		
	h (A/B)	h0	h1	H2	h3	h4	h5	h6	h2	d0	d1	d2	M0	d3(h9)	d4	b	b1	b2	t	t1	t2	H	H2		H	H2	
SJ、LSJ55	A/B 307/302	60	118	15	24	300	120	40	3	55	57	57	M60×2	60	65	16	8	8	49	56	56	1070	312	170	1220	462	186
SJ、LSJ65	A/B 373	95	143	18	32	275	135	50	3	65	72	72	M75×2	75	80	16	10	10	58	69	70	1140	307	261	1290	457	277
SJ、LSJ70	A/B 373/367	95	143	18	32	275	135	50	3	70	72	72	M75×2	75	80	20	10	10	62.5	69	70	1140	307	261	1290	457	277
SJ、LSJ80	A/B 422/385	95	163	18	32	250	139	60	3	80	81	82	M85×2	85	90	22	10	10	71	79	80	1230	354	372	1380	504	388
SJ、LSJ90A	436	115	168	20	36	380	162	60	3	90	91	92	M95×2	95	110	25	12	12	81	89	90	1400	363	427	1550	513	447
SJ、LSJ100	A/B 532/510	135	178	24	42	360	182	60	3	100	110	112	M115×2	115	125	28	14	14	90	109	109.51510	350	515	1710	550	542
SJ、LSJ110A	489	145	178	24	42	380	182	60	3	110	111	112	M115×2	115	125	28	14	14	100	109	109.51510	350	621	1710	550	642
SJ、LSJ120A	489	145	178	24	42	380	182	60	3	120	122	122	M125×2	125	140	32	14	14	109	119	119.51510	350	641	1710	550	662
SJ、LSJ130	A/B 537/545	205	208	28	46	370	200	70	3	130	135	137	M140×2	140	150	32	14	14	119	132	134.51610	374	994	1810	574	1021
SJ、LSJ140A	537	205	208	28	48	370	200	70	3	140	145	147	M150×2	150	160	36	16	16	128	142	144	1610	374	1020	1810	574	1047
SJ、LSJ150	A/B 根据减速机型号而定 Determined by the reducer model	220	208	32	52	370	200	70	3	150	155	156	M160×3	160	170	36	16	16	138	152	154	1660	410	1050	1860	610	1110
SJ、LSJ160	A/B	220	227	32	52	340	215	80	3	160	165	166	M170×3	170	180	40	16	16	147	162	164	1660	410	1060	1860	610	1120
SJ、LSJ180	A/B	290	242	36	58	310	230	90	3	180	185	186	M190×3	190	200	45	18	18	165	180	182	1710	402	1220	1920	602	1260

注：图示所注“h”仅与本样本BLD系列减速机相配，如选用其他型号或其他厂家减速机，“h”需另行计算。增高后的LSJ型机架其下部空间高度可容纳205、206或207型双端面机械密封。

Note: The dimension "h" marked in the figure is only applicable to the BLD series reducers in this sample. If other models or reducers from other manufacturers are selected, "h" needs to be recalculated. The increased height of the LSJ type frame allows its lower space to accommodate double-end mechanical seals of type 205, 206, or 207.

质量保证Quality Assurance

保证期限 Warranty Period

产品出厂后，在12个月以内
Within 12 months after the product leaves the factory

保证内容 Warranty Content

产品在保证期限内，用户按随机所附的使用说明书中要求进行安装，并在正确运转条件下使用时所发生的故障，经我厂质管部门判定，进行无偿修理或调换。在实施修理或调换时，减速机与用户的配套装置需卸下和重新安装的费用，以及运输费用、生产损失与其它间接损失，本厂不予提供补偿。

Within the warranty period, if the product is installed in accordance with the requirements specified in the user manual provided with the product and used under correct operating conditions, any faults that occur will be assessed by our factory's quality management department and repaired or replaced without charge. However, our factory will not provide compensation for the costs associated with dismantling and reinstalling the reducer and the user's associated equipment, transportation costs, production losses, and other indirect losses during the repair or replacement process.

不属于保证内容 Not Covered by Warranty

1、本产品的安装，及与其它装置的联接不当所引起的故障。
2、未按使用说明书中要求进行保养，以及操作管理不当所引起的故障。
3、未按本厂推荐的润滑脂或润滑油使用而引起的故障。
4、因非规范使用或超负荷运转所引起的故障。
5、因产品自行订购错误，而在使用时所引起的故障。
6、因用户自行改制本产品，或变更结构所引起的故障。
7、因用户自配电机不符合规定所引起的故障。
8、因地震、水灾、雷击等自然灾害，以及水灾，煤气泄漏等不可抗拒的灾害所引起的故障。
9、属标准易损件的轴承和油封等消耗品的正常磨损或老化。
10、其他不属于本厂责任范围的事项。

1、Faults caused by improper installation of this product or incorrect connection with other devices.
2、Faults caused by failure to maintain the product as required in the user manual or improper operation and management.
3、Faults caused by failure to use the lubricating grease or oil recommended by our factory.
4、Faults caused by non-standard use or overload operation.
5、Faults caused by incorrect ordering of the product and subsequent use.
6、Faults caused by the user's unauthorized modification or alteration of the product's structure.
7、Faults caused by the user's provision of a motor that does not meet the specifications.
8、Faults caused by natural disasters such as earthquakes, floods, and lightning strikes, as well as irresistible disasters like gas leaks.
9、Normal wear and tear or aging of standard consumable parts such as bearings and oil seals.
10、Other matters not within the scope of our factory's responsibility.

订货须知Ordering Instructions

订货时请写明下列内容Please Specify the Following When Ordering

配套设备名称 Name of Matching Equipment		减速机的用途 Purpose of the Reducer	
每天运转时间 Daily Operating Time	小时（h）	使用环境温度 Ambient Temperature	（℃）
电动机类型 Type of Motor		电动机功率 Motor Power	千瓦（kW）
电动机极数 Number of Motor Poles	极（P）	电源频率 Power Supply Frequency	赫兹（HZ）
电源电压 Power Supply Voltage	伏（V）	输入转速 Input Speed	转/分（r/min）
输出转速 Output Speed	转/分（r/mi）	传动比 Gear Ratio	
输出转矩 Output Torque	牛顿.米（N.m）	安装机构形式 Type of Installation Structure	
减速机与电机联接方法 Connection Method Between Reducer and Motor			
减速机与设备联接要求 Connection Requirements Between Reducer and Equipment			
其他特殊要求 Other Special Requirements			
减速机型号 Reducer Model		订购数量 Order Quantity	台
要求供货时间 Required Delivery Time	年 月 日		

特别提示：由于技术不断进步，本厂产品的结构性调整在所难免，有关数据也会作出相应更改，为此请您经常光顾我们的网站进行查询，谢谢您的关照！

Special Note: Due to continuous technological advancements, structural adjustments to our products are inevitable, and relevant data will be correspondingly updated. We kindly ask you to regularly visit our website for inquiries. Thank you for your attention!

六、使用及润滑须知
Usage and Lubrication Instructions

一、使用Usage

1、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相反，双级减速机的输出轴转向与输入轴转向相同。

3、减速机无自锁作用。

4、减速机的输出轴不能承受轴向力。

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、十分坚固的水平基础上，在必须倾斜安装的使用场合，减速机轴心线的倾斜度不行大于 ±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，机座与基础除用底脚螺栓进行联接之外，还需要用定位销（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形式为圆柱形，采用普通平键联接。轴径尺寸公差 h6. 普通平键尺寸按 GB1096-79《普通平键型式尺寸》的规定。连续法兰止口按 GB1801-79 的 (h9) 配合。

13、当采用联轴器把摆线针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，两者轴心线的同轴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。

17、在把联轴器、齿轮、链轮等联接件联接摆线针减速机的输出轴时，不得采用直接锤击的方法，应利用轴伸端螺孔璇入螺栓，通过压板压入。

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 gearbox is built for 24/7 duty and can run in either direction.

2.Single-stage: output spins the opposite way from input. Two-stage: output spins the same way.

3.It doesn't self-lock, so don't rely on it as a brake.

4.The output shaft can't take any axial load—keep thrust off it.

5.If you might overload it, fit an overload protector.

6.Foot-mounted units need a rock-solid, level base. If you have to tilt it, keep the shaft angle within ±15° .

7.Flange-mounted vertical types must have the output shaft pointing straight down.

8.Need some funky mount angle? Cool, but you'll need extra lube and seals—call our tech guys first.

9.Grease-lubed units can be mounted any way you like.

10.Shim it level with up to three flat shims, or use wedges—then swap wedges for flat shims once it's true.

11.Heavy shocks, vibes, or lots of starts? Pin the base with dowels (you supply) after bolting it down.

12.Standard shafts are cylindrical with a plain key (key size per GB1096-79, shaft tolerance h6; pilot diameter h9 per GB1801-79).

13.When you couple it up, use a flexible coupling if you can.

14.Keep shafts lined up within the coupling's allowed misalignment.

15.If you bolt on gears or sprockets, make sure the shafts are parallel.

16.Running a chain? Keep it snug—too loose and the start-up jolt will bite you.

17.Never hammer couplings, gears, or sprockets on; use the tapped hole in the shaft end and a press plate to pull them on.

18.After install, spin it empty first—only start loading once everything runs smooth.

二、润滑Lubrication

1、润滑方法Lubrication Methods：

标准安装形式的摆线针减速机润滑方法表：

Table of Lubrication Methods for Standard Mounted Cycloidal Pinwheel Reducers：

润滑方式 Lubrication method									润滑方式 Lubrication method		
单级 Single-Stage			双级 Two-Stage			三级 Three-Stage			环境度 Ambient Temperature ℃	极压轮油 EP Gear Oil	ISO极压齿轮油 ISO EP Gear Oil
机型号 Machine Model	卧式安装 Horizontal Installation	立式安装 Vertical Installation	机型号 Machine Model	卧式安装 Horizontal Installation	立式安装 Vertical Installation	机型号 Machine Model	卧式安装 Horizontal Installation	立式安装 Vertical Installation	-5~10	L-CKC68	EP68
B09~2	润滑脂 Grease		B10~20	润滑脂 Grease		B310	润滑脂 Grease		0~35	L-CKC100 L-CHC150	EP150
B3~9	油浴式 Oil Bath	润滑泵 Lubrication Pump	B31~95	油浴式 Oil Bath	润滑泵 Lubrication Pump	B420~953	油浴式 Oil Bath	润滑泵 Lubrication Pump	30~50	L-CKC220 L-CKC320 L-CKC460	EP220~460

注：当减速机采用润滑脂进行润滑时，推荐使用2#锂基脂、2#极压锂基脂或00#减速机脂。

Note: When the reducer is lubricated with grease, it is recommended to use 2# lithium-based grease, 2# EP lithium-based grease, or 00# reducer grease。

2、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，一般都不装润滑油。

3、采用油脂润滑的减速机在出厂前已注入润滑脂。

4、当摆线针轮减速机在工作条件恶劣，起动—停止频繁和高温或低温的场合里工作时，应重新考虑润滑油。

5、加注润滑油时，油位高度不应超过油标上限，也不低于油标下限。在运转过程中，应经常观察油位高度，及时补充相同牌号的润滑油。

2、Lubricating oil must be added to the reducer before use. Generally, reducers are not filled with lubricating oil when they are shipped from the factory for the convenience of loading, unloading, and transportation。

3、Reducers using grease lubrication are pre-filled with grease before leaving the factory。

4、When the cycloidal pinwheel reducer is used in harsh working conditions, with frequent start-stop cycles, and in high or low-temperature environments, the lubricating oil should be reconsidered。

5、When adding lubricating oil, the oil level should not exceed the upper limit of the oil gauge and should not be lower than the lower limit. During operation, the oil level should be frequently checked, and the same grade of lubricating oil should be added in time。

标准安装形式的摆线针轮减速机加油、脂量：

The amount of oil and grease for standard mounted cycloidal pinwheel reducers：

机型号（卧、立） Machine Model (Horizontal, Vertical)		B09	B0	B1	B2	B10	B20			
注润滑脂量 Grease Quantity		0.14	0.16	0.37	0.75	0.43	0.85			
机型号 Machine Model		B3	B4	B5	B6	B7	B8	B9	B31	
注润滑油量 Oil Quantity（L）	卧 Horizontal	1.4	2.2	4.5	7	14	30	56	1.5	
	立 Vertical	2.5	3.8	6	11	14	30	60	3	
机型号 Machine Model		B42	B52	B53	B63	B74	B84	B85	B95	B41
注润滑油量 Oil Quantity（L）	卧 Horizontal	3.3	6	6.3	10	16	35	36	70	2.2
	立 Vertical	4	6	6.5	11	16	35	36	70	4

6、润滑油更换制度：第一次更换，减速机初次运转 300 小时后作第一次更换，更换时，应去除残存污油。以后每次更换，每天连续工作 10 小时以上者，每隔 3 个月更换一次；每天间断工作 10 小时以下者，每隔 6 个月更换一次。

7、油脂更换制度：每隔 6 个月更换一次。

8、已经长期没有使用的减速机重新开动前，必须更换润滑油或润滑脂。

9、不允许注入不清洁或带腐蚀性的润滑油。

6、Lubricating Oil Change Schedule：The first change should be made after the reducer has been initially operated for 300 hours, and any residual contaminated oil should be removed. Subsequent changes should be made every 3 months for reducers that operate continuously for more than 10 hours a day, and every 6 months for those that operate intermittently for less than 10 hours a day。

7、Grease Change Schedule: Every 6 months。

8、Before restarting a reducer that has not been used for a long time, the lubricating oil or grease must be changed。

9、It is not allowed to inject unclean or corrosive lubricating oil。