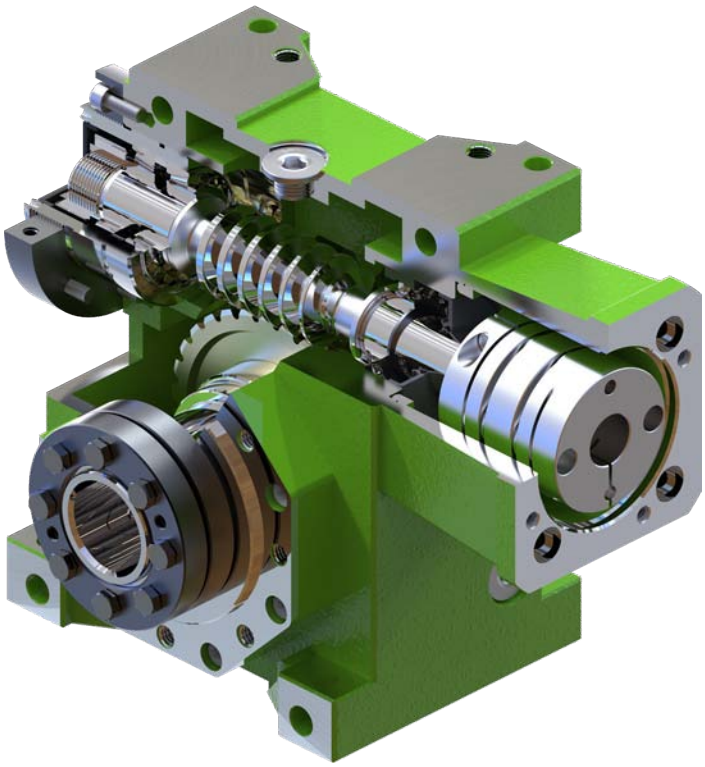
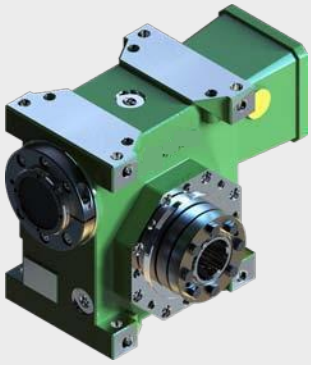
JDLB 减速器是精密行星减速器的理想替代产品，设备厂商可以大幅减少使用精密行星齿轮减速器的应用成本

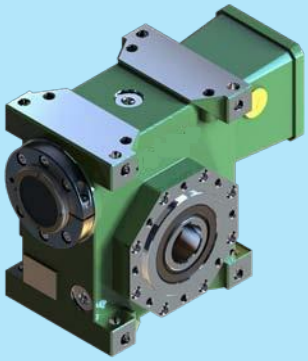
JDLB series high precision worm gear is an ideal substitute for precision planetary gearbox,the equipment manufacturer can substantially reduce the cost of using precision planetary gearbox





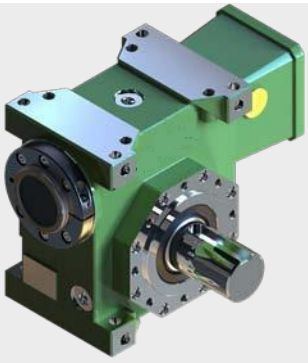
具有收缩盘的空心轴输出，精度高，容易整合

Hollow output with shrink disc, high precision , for easy integration



带键孔输出，安装方便，容易整合

Output with keyway, convenient installation, easy integration

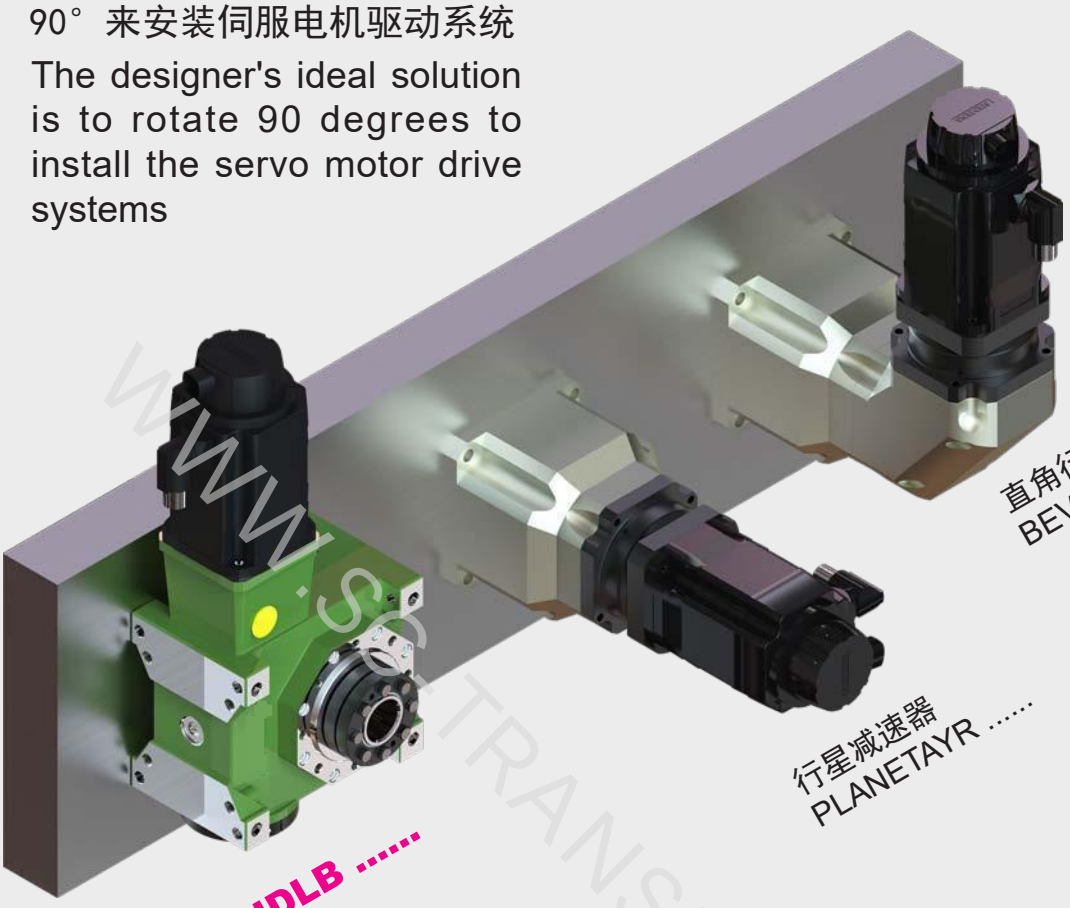


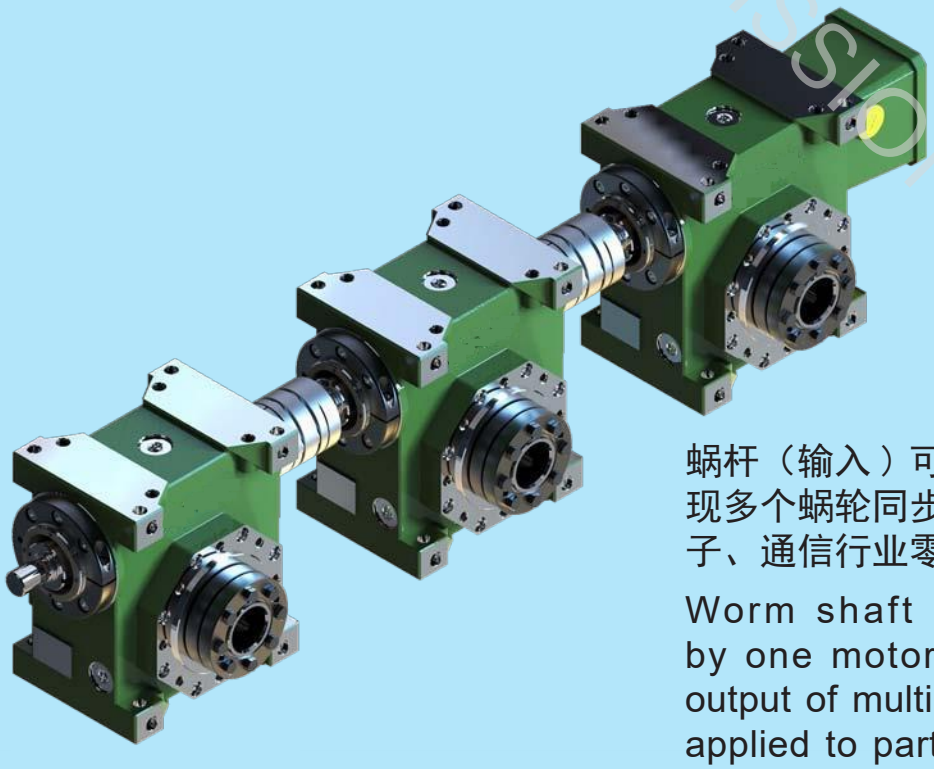
实心轴输出（单、双出轴），刚性好，传统方式

Solid shaft output (single, double), high stiffness, traditional solution

设计者的理想解决方案是旋转90°来安装伺服电机驱动系统

The designer's ideal solution is to rotate 90 degrees to install the servo motor drive systems





蜗杆（输入）可以串联由一个电机驱动，实现多个蜗轮同步输出。可配套使用于各种电子、通信行业零部件的加工设备

Worm shaft in series can be driven by one motor to achieve synchronous output of multiple worm wheels. It can be applied to parts processing equipment in the electronics industry ,communication industry and ect..

JDLB 系列精密蜗轮蜗杆减速器
JDLB series high precision worm gear units

优化的接触面
* 先进的加工技术加上精密的组装，确保齿部的正确啮合，减小齿面的接触应力
* 特殊研发的蜗轮铜合金，使齿部具有高强度及很好的耐磨性
* 加上大比率齿面接触，蜗轮不易磨损，能长期保持锁定的侧隙

Optimized contact pattern
* Advanced processing technology and precision assembly to ensure the correct meshing of the tooth and reduce contact stress of the tooth surface
* Special worm wheel bronze alloy makes the teeth have high strength and good wear resistance.
* With a large ratio of tooth surface contact, worm wheel is not easy to wear , it can maintain the locked backlash .

免维护
* 加装高性能全合成润滑油
* 全封闭结构，无需更换润滑油

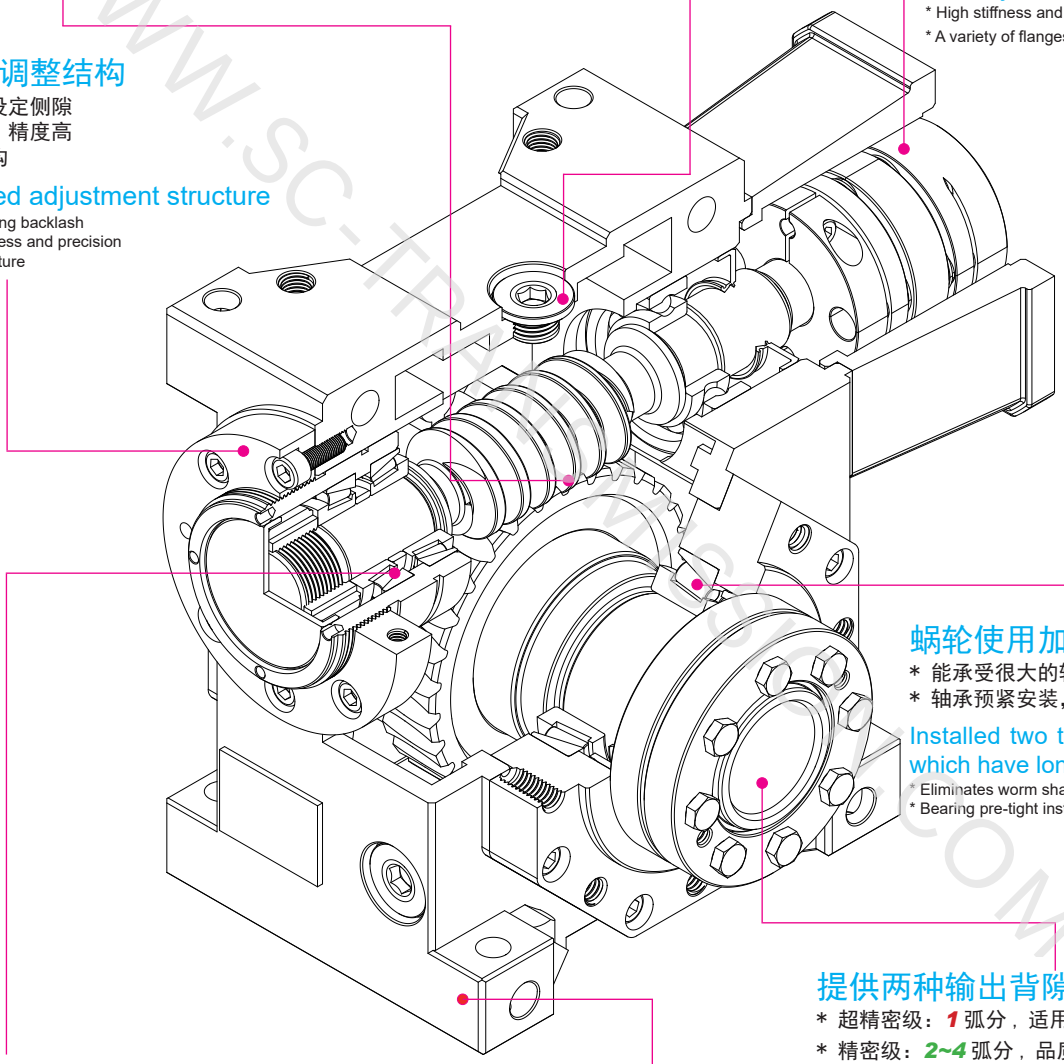
Maintenance free
* High performance synthetic lubricant
* Closed structure, no need to replace lubricant oil.

能快速安装伺服电机
* 伺服电机专用高刚性、低惯量联轴器
* 可提供各种和伺服电机相配的法兰

Quickly install servo motor
* High stiffness and low inertia coupling for servo motor
* A variety of flanges can be matched with the servo motor

优化的调整结构
* 能快速设定侧隙
* 刚性好，精度高
* 专利结构

Optimized adjustment structure
* Quickly setting backlash
* Higher stiffness and precision
* Patent structure



蜗轮使用加大圆锥滚子轴承
* 能承受很大的轴向负荷
* 轴承预紧安装，具有更高的支承刚性

Installed two taper roller bearings with which have longer service lives.
* Eliminates worm shaft alignment problems
* Bearing pre-tight installation, with higher support stiffness

提供两种输出背隙
* 超精密级：*1* 弧分，适用于要求比较高的场合
* 精密级：*2~4* 弧分，品质和价格的折衷方案

Output torsional backlash available in 2 ranges:
* Ultra precision: *1* arc minute for the most demanding applications
* Precision: *2 to 4* arc minutes a good compromise price and quality

蜗杆使用圆锥滚子轴承
* 一端安装两个圆锥滚子轴承，具有更长的使用寿命
* 消除蜗杆热伸长引起的误差
* 轴承预紧安装，具有更高的支承刚性

Worm shaft using Taper roller bearings
* Installed two taper roller bearings with which have longer service lives.
* Eliminates worm shaft alignment problems
* Bearing pre-tight installation, with higher support stiffness

外壳重力浇铸成形
* 高强度铝合金浇铸并经过热处理
* 刚性好，重量轻
* 外形美观耐候性好

Housing with gravity casting
* High strength Aluminum Alloy casting and heat treatment
* Superior rigidity and low weight
* Beautiful shape and Good weather resisting property

JDLB特点

蜗轮蜗杆伺服减速器有25-35-45-50-55-63-75-90-110九种规格，采用双导程蜗杆传动。蜗杆的左右齿面使用不同的导程角，引起齿厚的渐变，这样就可以移动蜗杆调整啮合间隙。

特点

- 蜗轮回转背隙可以调整到小于1弧分。
- 减速器使用后可以重新调整间隙。
- 输入用联轴器联结：可靠无背隙。
- 输出用锥形夹紧环联轴器：可靠无背隙。

JDLB Features

Servo worm gear units have nine types :25-35-45-50-55-63-75-90-110 ,with dual lead worm drive .Left and right flank of worm shaft using different lead angle ,causing tooth thickness gradual change,So that you can move worm shaft and adjust backlash.

Features

-- Worm gear gyration backlash can be adjusted to less than 1 arc.
-- Reducer can be re-adjusted the gap after using .
-- Input with coupling : reliable without backlash .
-- Output using conical clamping ring couplings : reliable without backlash.

JDLB使用场合

高精度回转运动

- 减少由负载变动及切削力变化等引起的震动及噪音。

- 减少由正反转引起的冲击及噪音。
- 减少由以上引起的蜗轮加剧磨损。
- 增加蜗轮输出的响应速度。

精密分度装置

- 数控机床、流水线、切割机、输送线等。
- 分度装置、读数机构等要求运动准确的场合。

速度有变化的场合

- 减少由速度变化引起的冲击及噪音。
- 减少由速度变化引起的蜗轮加剧磨损。

JDLB Applications

Precision rotary motion

-- Reducing the noise and vibration that is caused by the load change and the change of cutting force.
-- reducing the noise and impact that is caused by the corotation and reverse.
-- By reducing worm abrasion.
-- Increasing worm output response speed .

Precision Indexing device

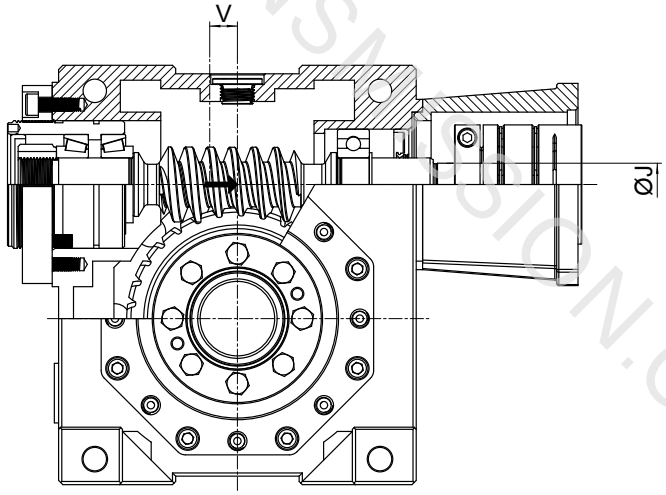
-- CNC machine, assembly line, cutting machine, transmission lines, etc.
-- Indexing device,accurate reading mechanism require accurate movement occasions .

Speed changing situations

-- Reducing the noise and the impact that is caused by speed change.
-- Reducing the worm abrasion that is caused by speed changes.

间隙调整量

Clearance Adjustment



JDLB	调整距离 Adjust the distance	调整量系数 Adjustment coefficient	间隙调整量 Clearance Adjustment	输入轴直径 Input shaft diameter
	V [mm]	k [mm^{-1}]	ΔS_d [mm]	J [mm]
025	-	-	-	9
035	8	0.015-0.03	0.12-0.24	12
045	8	0.015-0.04	0.12-0.32	15
050	8	0.015-0.03	0.12-0.24	15
055	8	0.015-0.05	0.12-0.4	18
063	10	0.025-0.05	0.25-0.5	20
075	13	0.02-0.06	0.26-0.78	24
090	13	0.025-0.06	0.33-0.78	28
110	12	0.025-0.06	0.3-0.72	32

JDLB 选型

下列的标题包含选择减速器的原理以及正确使用它们的方法。

具体的数值参照相应的章节

1.0 输出扭矩

1.1 ***额定扭矩***
M_{n2} [Nm]

扭矩作用于连续平稳运转的减速器且在工作系数 f_s = 1 的情况下测出的数值。

1.2 ***需求的扭矩***
M_{r2} [Nm]

基于实际所需，数值等于或小于减速器的额定扭矩M_{n2}。

1.3 ***计算扭矩***
M_{c2} [Nm]

在选择减速器时有用。
它要考虑实际需求的扭矩 M_{r2} 以及工作系数 f_s ，由以下关系式计算出：

$$M_{c2} = M_{r2} \cdot f_s \leq M_{n2}$$

2.0 功率

2.1 ***额定输入功率***
P_{n1} [kW]

减速器安全运转时的功率(kW)值，列于参数表中。它是在速度等于n_1且工作系数 f_s = 1 的情况下得出的。

2.2 ***额定输出功率***
P_{n2} [kW]

减速器的输出功率值，可以用下面的公式计算。

$$P_{n2} = P_{n1} \cdot \eta_d$$

$$P_{n2} = \frac{M_{n2} \cdot n_2}{9550}$$

3.0 效率

效率是影响某些应用的主要因素，它的值基本由齿轮副设计的参数决定。

在第9页上的啮合参数表上记录了动态及静态效率值(n_1=1400)。

注意这些值只适用于磨合完成的在工作温度下运转的减速箱

JDLB Make choice

The following headings contain information on essential elements for selection and correct use of gearbox.
For specific data on the gearbox range,see the relevant chapters.

1.0 OUTPUT TORQUE

1.1 ***Rated output torque***
M_{n2} [Nm]

The torque that can be transmitted continuously through the output shaft, with the gear unit operated under a service factor f_s = 1.

1.2 ***Required torque***
M_{r2} [Nm]

The torque demand based on application requirement. It is recommended to be equal to or less than torque M_{n2} the gearbox under study is rated for.

1.3 ***Calculated torque***
M_{c2} [Nm]

Computational torque value to be used when selecting the gearbox.
It is calculated considering the required torque M_{r2} and service factor f_s, as per the relationship here after:

$$M_{c2} = M_{r2} \cdot f_s \leq M_{n2}$$

2.0 POWER

2.1 ***Rated input power***
P_{n1} [kW]

The parameter can be found in the gearbox rating charts and represents the KW that can be safely transmitted to the gearbox, based on input speed n1 and service factor f_s= 1.

2.2 ***Rated output power***
P_{n2} [kW]

This value is the power transmitted at gearbox output. it can be calculated with the following formulas:

$$P_{n2} = P_{n1} \cdot \eta_d$$

$$P_{n2} = \frac{M_{n2} \cdot n_2}{9550}$$

3.0 EFFICIENCY

Efficiency is a parameter which has a major influence on the sizing of certain applications, and basically depends on gear pair designelements.
The mesh data table on page 9 shows dynamic efficiency (n_1=1400)and static efficiency values.
Remember that these values are only achieved after the unit has been run in and is at the working temperature.

3.1 ***动态效率***
[η_d]

动态效率和输出功率 P_2 以及输入功率 P_1 的关系：

3.1 ***Dynamic efficiency***
[η_d]

The dynamic efficiency is the relationship of power delivered at output shaft P_2 to power applied at input shaft P_1:

$$\eta_d = \frac{P_2}{P_1}$$

3.2 ***静态效率***
[η_s]

在减速器刚启动时的效率。虽然对连续传动没有实际的意义，但在选择断续传动的减速器时却十分重要。

3.2 ***Static efficiency***
[η_s]

Efficiency obtained at start-up of the gearbox. Although this is generally not significant factor for helical gears, it may be instead critical when selecting worm gearmotors operating under intermittent duty.

4.0 工作系数 [f_s]

减速器的工作系数（f_s）主要取决于减速机的运行条件，为了选择最合适的工作环境系数进行正确的组合，必须考虑如下因素：

1．减速器的负载形式：**A - B - C**
2．工作时间：**小时 / 天(△)**
3．开机频率：**次 / 小时(*)**
负载类型：**A** - 均衡负荷，$f_a \leqslant 0.3$
B - 中等冲击，$f_a \leqslant 3$
C - 严重冲击，$f_a \leqslant 10$

$f_a = J_e / J_m$
-J_e (kgm^2)：在驱动轴上衰降的惯性矩
-J_m (kgm^2)：电机惯性矩
-如果f_a>10时请与技术服务部联系

A -轻质材料螺旋输送机，风扇，装配线，轻质材料皮带输送机，小型搅拌机，提升机，清洁机，灌装机，控制器。

B -卷绕装置，木工机械，货物提升机，平衡器，螺纹机，介质搅拌机，重型材料皮带输送机，绞盘，移动门，刮机，包装机，混凝土搅拌机，起重机，磨割机，卷板机，齿轮泵。

C -重型材料搅拌机，剪切机，压力机，离心机，旋转支撑，重型材料绞盘和提升机，磨床，石材，升降机，钻孔机，锤式粉碎机，凸轮压力机，折叠机，运输带，翻斗车，振动器，撕碎机。

4.0 SERVICE FACTOR [f_s]

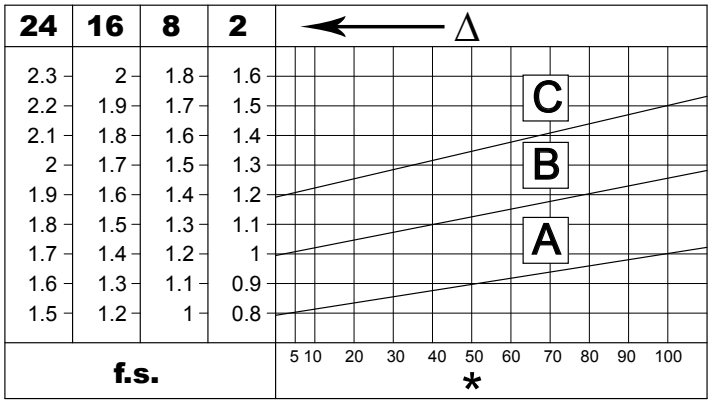
The service factor (f_s) depends on the operating conditions the gearbox is subjected to the parameters that need to be taken into consideration to select the most adequate servies factor correctly comprise:
1. type of load of the operated machine : **A - B - C**
2. length of daily operating time: **hours/day(△)**
3. start-up frequency: **starts/hour (*)**
TYPE OF LOAD: **A** - uniform, $f_a \leq 0.3$
B - moderate shocks, $f_a \leq 3$
C - heavy shocks, $f_a \leq 10$

$f_a = J_e / J_m$
--J_e(kgm^2) moment of the external inertia reduced at the drive shaft
--J_m(kgm^2) moment of inertia of motor
--If f_a>10 please contact our Technical Service

A -Screw feeders for light materials, fans, assembly lines, conveyor belts for light materials, small mixers, lifts, cleaning machines, fillers, control machines.

B -Winding devices, woodworking machine feeders, goods lifts, balancers,threading machines, medium mixers, conveyor belts for heavy materials,winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.

C -Mixers for heavy materials, shears, presses, centrifuges, rotating supports, winches and lifts for heavy materials, grinding lathes, stone mills, bucket elevators, drilling machines, hammer mills, cam presses, folding machines, turntables, tumbling barrels, vibrators, shredders.



5.0 启动/停止作业输出扭矩

5.1 ***加速扭矩***
M_{n5} [Nm]

减速器在启动时所能承受的扭矩

5.2 ***计算加速扭矩***
M_{c5} [Nm]

5.0 START/STOP SERVICE OUTPUT TORQUE

5.1 ***Output acceleration torque***
M_{n5} [Nm]

worm gearbox max starting torque

5.2 ***Calculated acceleration torque***
M_{c5} [Nm]

$$M_{c5} = M_{n1} \cdot i \cdot \eta_d \cdot F_1 \cdot F_2 \leq M_{n5}$$

一个完整周期内减速器的运转时间 GEARBOX RUNNING TIME DURING 1 FULL CYCLE					
	10%	30%	50%	70%	90%
F1	0.7	0.85	1	1.11	1.2

每小时启动的次数 NUMBER OF STARTS PER HOUR				
	1000 to 2000	2000 to 3000	3000 to 5000	5000 to 10000
F2	1 to 1.35	1.35 to 1.45	1.45 to 1.6	1.6 to 1.9

产品名称 DESIGNATION

类型 Type	减速比 Ratio	输出 Output	背隙 Backlash	安装方位 Mounting position	颜色 Color	电机 Electric motor
JDLB075	- 30	- C1	- P0	- B3	- B	- 1FK7042...

电机型号
Motor type

颜色/Color
B = 银灰色/Silver gray **L** = 蓝色/Blue **O**=橄榄绿/Olive

安装方位/Mounting position (*P8*)
B3, B6, B7, B8, V5,V6

背隙/Backlash
P0 (超精密级/Ultra precision)
P1 (精密级/Precision)
1 弧分 (75, 90, 110)；
2 弧分 (35, 45, 50, 55, 63)
2~4 弧分 (75, 90, 110)；
3~5 弧分 (25, 45, 50, 55, 63)

输出轴/Output shaft
C (锁紧盘孔输出/Hollow shaft for shrink disc)
2C (双锁紧盘孔输出/Hollow shaft for double shrink disc)
CR (键槽孔输出/Hollow shaft with keyway)
ASL,ASR (单出轴/Single output shaft)
AB (双出轴/Dual output shaft)
1, 2 (安装位置/Mounting side)

减速比/Reduction ratio
5.2,7.25,10.25,14.5,19.5,30,45,60,90 （常规速比 /Standard ratio)
24.5,40,50,80,100 *（补充速比，货期较长 /Adding ratio,longer delivery lead time)

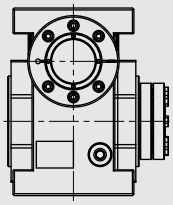
减速器尺寸/Gearbox size
25,35,45,50,55,63,75,90,110

减速器类型
Reducer type

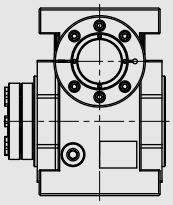
JDLB 版本　　JDLB Versions

锁紧盘孔输出
Hollow shaft
for shrink disc

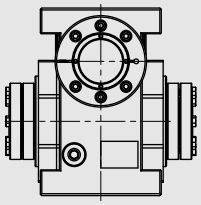
C1



C2

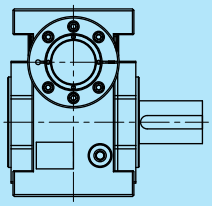


2C

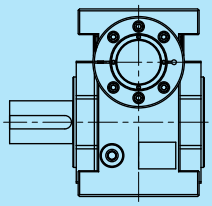


单出轴
Single output shaft

ASR

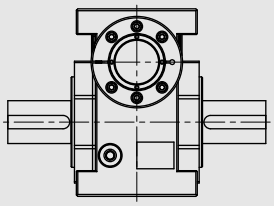


ASL



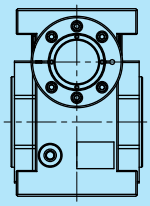
双出轴
Dual output shaft

AB

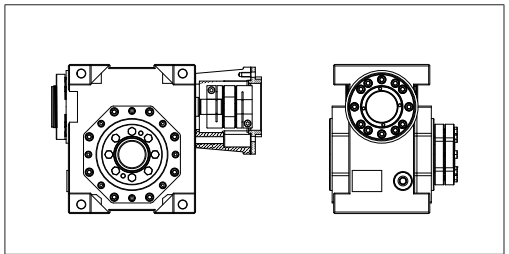


键槽孔输出
Hollow shaft
with keyway

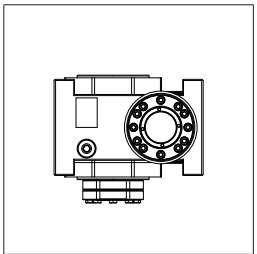
CR



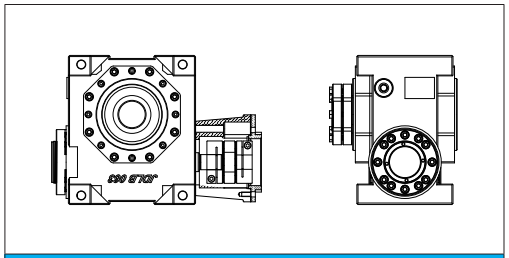
JDLB 安装方位　　JDLB Mounting positions



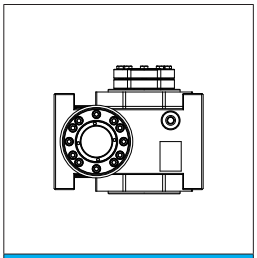
B3



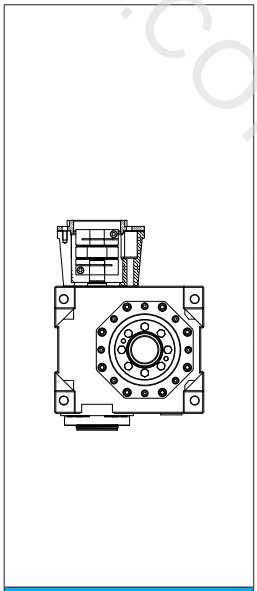
B6



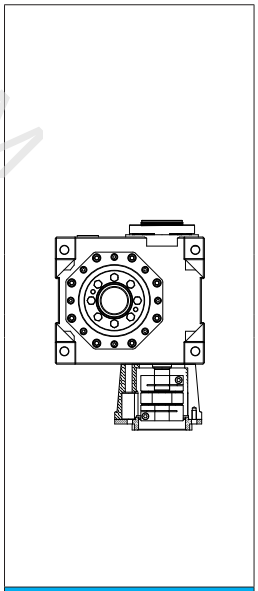
B8



B7



V5



V6

JDLB 性能参数

JDLB Performance

n1		4000			3000			2000			1000								
JDLB	i	M_2 [Nm]	M_5 [Nm]	η_d Effi.	M_2 [Nm]	M_5 [Nm]	η_d Effi.	M_2 [Nm]	M_5 [Nm]	η_d Effi.	M_2 [Nm]	M_5 [Nm]	η_d Effi.	E-stop	C1f	ig	Et	Fr_2 [N]	Fa_2 [N]
025	5.2	8	13	88	9	15	87	11	18	86	14	23	84	46	0.03	2.2×10^{-6}	2	1500	500
	7.25	8	14	87	9	15	86	11	18	85	14	24	82	46	0.03	1.51×10^{-6}	2	1500	500
	10.25	8	13	86	8	14	85	11	18	84	14	23	81	46	0.03	1.15×10^{-6}	2	1500	500
	14.5	9	15	81	11	18	79	12	20	77	16	26	74	46	0.03	9.58×10^{-7}	2	1500	500
	19.5	9	15	78	11	18	76	12	20	74	16	26	70	46	0.03	8.67×10^{-7}	2	1500	500
	30	11	18	70	12	20	68	14	23	65	17	29	60	46	0.03	8×10^{-7}	2	1500	500
	45	11	18	64	11	19	62	14	23	59	17	28	53	42	0.03	7.77×10^{-7}	2	1500	500
	60	10	16	59	11	19	56	13	21	53	15	25	48	35	0.03	7.6×10^{-7}	2	1500	500
035	5.2	16	27	93	18	31	92	22	36	91	29	48	89	96	0.3	7.4×10^{-6}	5	3800	2800
	7.25	17	28	91	19	32	90	23	37	89	30	48	86	96	0.3	5.6×10^{-6}	5	3800	2800
	10.25	17	29	89	20	34	88	23	39	87	30	51	81	96	0.3	5×10^{-6}	5	3800	2800
	14.5	19	31	85	22	35	83	26	41	81	33	52	77	96	0.3	4.4×10^{-6}	5	3800	2800
	19.5	20	32	82	22	35	80	26	42	78	33	50	73	96	0.2	4.2×10^{-6}	5	3800	2800
	30	23	37	74	25	40	72	29	46	69	36	58	63	96	0.2	4×10^{-6}	5	3800	2800
	45	23	36	68	25	40	65	28	45	61	35	56	56	87	0.2	3.9×10^{-6}	5	3800	2800
	60	22	34	62	24	37	59	27	41	55	34	50	50	73	0.1	3.1×10^{-6}	5	3800	2800
	90	21	32	53	23	35	50	26	39	46	32	46	41	72	0.1	2.31×10^{-6}	5	3800	2800
045	5.2	36	62	94	41	70	93	50	83	92	67	109	91	214	0.4	2.9×10^{-5}	9	5800	4000
	7.25	42	71	93	48	80	92	57	93	91	76	121	89	214	0.4	2.2×10^{-5}	9	5800	4000
	10.25	46	80	92	53	88	91	62	98	90	80	128	88	214	0.4	1.5×10^{-5}	9	5800	4000
	14.5	52	83	88	59	94	87	68	109	86	88	141	82	214	0.4	1.4×10^{-5}	9	5800	4000
	19.5	50	80	87	55	88	86	64	102	84	81	129	80	214	0.3	1×10^{-5}	9	5800	4000
	30	55	88	80	61	98	78	70	112	76	88	141	71	214	0.3	1×10^{-5}	9	5800	4000
	45	54	86	75	59	94	72	68	109	69	83	133	64	185	0.3	8.2×10^{-6}	9	5800	4000
	60	50	78	70	55	86	68	62	97	64	75	116	59	170	0.2	7.3×10^{-6}	9	5800	4000
	90	46	71	62	50	76	59	57	86	56	68	99	50	154	0.2	4.6×10^{-6}	9	5800	4000
055	5.2	60	103	94	68	116	94	82	137	93	111	181	91	307	0.6	7.5×10^{-5}	20	7000	4800
	7.25	65	111	93	74	125	92	90	147	91	118	188	89	307	0.6	5.3×10^{-5}	20	7000	4800
	10.25	76	132	90	87	145	89	103	165	88	133	206	85	307	0.6	4.5×10^{-5}	20	7000	4800
	14.5	71	115	88	82	133	87	96	155	85	123	190	82	307	0.6	3.8×10^{-5}	20	7000	4800
	19.5	77	123	87	87	139	85	101	162	83	128	205	80	307	0.4	3.1×10^{-5}	20	7000	4800
	30	83	130	80	94	148	78	109	169	75	136	202	70	307	0.4	3.4×10^{-5}	20	7000	4800
	45	83	130	74	93	145	72	106	163	69	131	202	63	307	0.4	2.8×10^{-5}	20	7000	4800
	60	82	128	69	91	141	67	103	158	63	126	194	58	286	0.3	2.6×10^{-5}	20	7000	4800
	90	76	117	62	82	125	59	94	142	55	113	164	49	263	0.3	1.2×10^{-5}	20	7000	4800
063	5.2	90	153	95	105	179	94	126	210	93	169	275	91	497	0.8	1.6×10^{-4}	36	8800	8500
	7.25	91	155	94	103	174	93	125	206	92	165	264	90	497	0.8	9×10^{-5}	36	8800	8500
	10.25	103	169	93	118	194	92	141	231	91	181	290	89	497	0.8	8×10^{-5}	36	8800	8500
	14.5	110	179	90	128	207	89	149	240	87	191	293	84	497	0.8	6.9×10^{-5}	36	8800	8500
	19.5	119	190	88	135	215	87	156	250	85	199	318	82	497	0.5	5.5×10^{-5}	36	8800	8500
	30	138	218	82	155	245	80	179	281	78	223	335	73	497	0.5	5.9×10^{-5}	36	8800	8500
	45	123	193	77	137	214	75	156	239	72	193	287	67	403	0.5	5×10^{-5}	36	8800	8500
	60	121	189	73	134	205	71	151	233	67	186	288	62	404	0.4	4.7×10^{-5}	36	8800	8500
	90	110	169	65	121	184	63	137	207	59	166	241	53	368	0.4	3.2×10^{-5}	36	8800	8500
075	5.2	147	252	95	174	296	94	209	349	94	282	459	92	834	1	3.7×10^{-4}	50	10500	10500
	7.25	139	236	94	161	270	93	196	321	92	256	409	90	834	1	2.5×10^{-4}	50	10500	10500
	10.25	146	234	93	168	269	92	204	326	91	261	418	88	834	1	2.2×10^{-4}	50	10500	10500
	14.5	170	276	90	195	315	88	234	376	87	298	460	84	834	1	1.9×10^{-4}	50	10500	10500
	19.5	168	270	88	194	310	87	227	362	85	288	434	81	834	0.6	1.5×10^{-4}	50	10500	10500
	30	186	294	84	212	334	82	248	386	80	309	460	75	834	0.6	1.6×10^{-4}	50	10500	10500
	45	190	299	76	212	331	74	244	383	71	301	472	65	718	0.6	1.4×10^{-4}	50	10500	10500
	60	175	272	72	195	300	69	221	334	66	272	395	60	657	0.5	1.3×10^{-4}	50	10500	10500
	90	167	257	64	184	280	62	209	316	57	255	370	52	625	0.5	8×10^{-5}	50	10500	10500
090	5.2	227	387	95	271	460	95	327	546	94	445	725	92	1543	1.5	8.5×10^{-4}	75	15800	13000
	7.25	263	460	95	306	490	95	373	597	94	490	784	92	1534	1.5	6×10^{-4}	75	15800	13000
	10.25	273	478	94	314	528	93	383	627	92	488	781	90	1543	1.5	3.8×10^{-4}	75	15800	13000
	14.5	272	444	91	314	504	90	380	612	88	486	748	85	1543	1.5	3.2×10^{-4}	75	15800	13000
	19.5	318	506	90	367	584	88	431	685	87	544	865	84	1543	0.8	2.5×10^{-4}	75	15800	13000
	30	316	500	84	362	572	82	424	661	80	531	792	75	1543	0.8	2.6×10^{-4}	75	15800	13000
	45	343	538	80	385	599	79	441	674	76	546	811	71	1255	0.8	1.9×10^{-4}	75	15800	13000
	60	328	512	77	364	559	75	412	622	72	507	761	67	1230	0.5	1.7×10^{-4}	75	15800	13000
	90	298	459	70	332	505	68	372	562	64	460	667	59	1114	0.5	1×10^{-4}	75	15800	13000
110	5.2	390	666	95	458	779	95	561	937	94	760	1239	92	2289	2	1.85×10^{-3}	120	21500	16000
	7.25	417	680	95	488	795	95	599	976	94	802	1307	92	2289	2	1.3×10^{-3}	120	21500	16000
	10.25	449	786	94	522	878	93	638	1047	92	827	1323	90	2289	2	8.5×10^{-4}	120	21500	16000
	14.5	450	720	92	519	830	91	630	1014	90	810	1247	87	2289	2	6.3×10^{-4}	120	21500	16000
	19.5	510	815	91	589	943	90	705	1121	88	893	1349	85	2289	1	4.6×10^{-4}	120	21500	16000
	30	597	955	87	688	1100	85	812	1299	83	1015	1512	79	2289	1	3.5×10^{-4}	120	21500	16000
	45	583	915	82	665	1037	80	765	1168	78	947	1411	73	2152	1	3.3×10^{-4}	120	21500	16000
	60	522	815	79	588	905	77	669	1030	73	826	1239	68	2094	0.8	3×10^{-4}	120	21500	16000
	90	497	765	72	557	847	70	625	944	66	778	1128	60	1941	0.8	1.7×10^{-4}	120	21500	16000

注意:订购5.2,7.25,10.25速比，需咨询客服

Note:When you place the order for ratio 5.2, 7.25, 10.25 ,please contact our customer service.

JDLB 性能参数

JDLB Performance

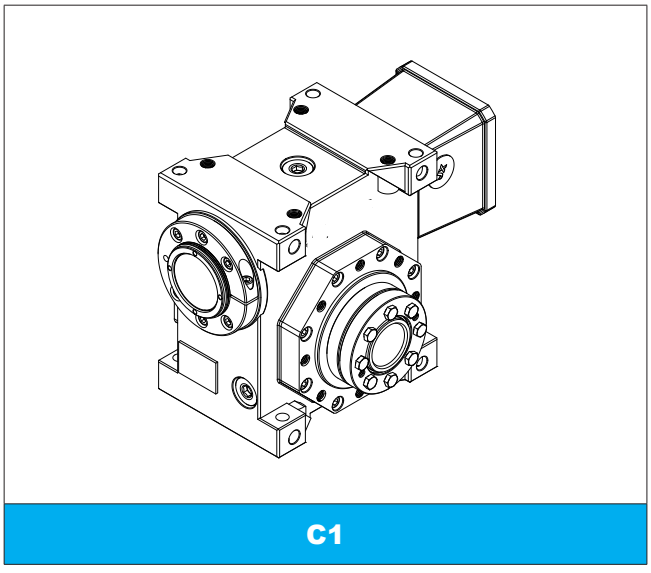
n1		3000				1400				900					
JDLB	i	η_d Effi.	P_1 [kW]	M_2 [Nm]	n_2 [min^{-1}]	η_d Effi.	P_1 [kW]	M_2 [Nm]	n_2 [min^{-1}]	η_d Effi.	P_1 [kW]	M_2 [Nm]	n_2 [min^{-1}]	Fr_2 [N]	Fa_2 [N]
045	24.5(1)	0.79	0.7	**47**	122.4	0.74	0.4	**55**	57.1	0.68	0.3	**61**	36.7	5800	4000
	40(1)	0.69	0.6	**49**	75	0.64	0.3	**57**	35.0	0.58	0.3	**62**	22.5	5800	4000
	50(1)	0.66	0.5	**50**	60	0.61	0.3	**58**	28.0	0.55	0.2	**63**	18	5800	4000
050	14.5	0.85	1.4	**57**	206.9	0.80	0.9	**74**	96.6	0.74	0.7	**84**	62.1	5800	4000
	19.5	0.82	1.0	**53**	153.8	0.77	0.7	**73**	71.8	0.71	0.5	**77**	46.2	5800	4000
	24.5(1)	0.79	0.8	**51**	122.4	0.74	0.6	**70**	57.1	0.68	0.4	**75**	36.7	5800	4000
	30	0.75	0.9	**64**	100	0.70	0.6	**84**	46.7	0.64	0.4	**90**	30	5800	4000
	40(1)	0.7	0.7	**59**	75	0.65	0.4	**76**	35.0	0.59	0.3	**82**	22.5	5800	4000
	50(1)	0.66	0.5	**53**	60	0.61	0.4	**73**	28.0	0.55	0.3	**77**	18	5800	4000
	60	0.62	0.4	**50**	50	0.57	0.3	**68**	23.3	0.51	0.2	**72**	15	5800	4000
055	24.5(1)	0.8	1.4	**92**	122.4	0.75	0.8	**108**	57.1	0.69	0.7	**120**	36.7	7000	4800
	40(1)	0.71	1.0	**94**	75	0.66	0.6	**111**	35.0	0.6	0.5	**121**	22.5	7000	4800
	50(1)	0.67	0.9	**92**	60	0.62	0.5	**108**	28.0	0.56	0.4	**117**	18	7000	4800
	80(1)	0.58	0.6	**88**	37.5	0.53	0.4	**102**	17.5	0.47	0.3	**109**	11.3	7000	4800
063	24.5(1)	0.82	1.4	**92**	122.4	0.77	1.0	**130**	57.1	0.71	0.7	**137**	36.7	8800	8500
	40(1)	0.74	1.1	**108**	75	0.69	0.8	**145**	35.0	0.63	0.6	**160**	22.5	8800	8500
	50(1)	0.70	0.9	**100**	60	0.65	0.6	**135**	28.0	0.59	0.5	**145**	18	8800	8500
075	24.5(1)	0.84	2.2	**150**	122.4	0.79	1.5	**200**	57.1	0.73	1.1	**215**	36.7	10500	10500
	40(1)	0.76	1.7	**165**	75	0.71	1.1	**220**	35.0	0.65	0.9	**240**	22.5	10500	10500
	50(1)	0.73	1.3	**150**	60	0.68	0.9	**210**	28.0	0.62	0.7	**220**	18	10500	10500
	80(1)	0.64	0.8	**130**	37.5	0.59	0.6	**190**	17.5	0.53	0.4	**200**	11.3	10500	10500
090	24.5(1)	0.86	3.7	**250**	122.4	0.81	2.5	**340**	57.1	0.75	1.9	**370**	36.7	15800	13000
	40(1)	0.79	2.7	**275**	75	0.74	1.8	**360**	35.0	0.68	1.4	**410**	22.5	15800	13000
	50(1)	0.76	2.2	**265**	60	0.71	1.4	**340**	28.0	0.65	1.1	**390**	18	15800	13000
	80(1)	0.67	1.3	**225**	37.5	0.62	0.8	**285**	17.5	0.56	0.7	**315**	11.3	15800	13000
	100(1)	0.63	1.0	**200**	30	0.58	0.7	**270**	14.0	0.52	0.5	**280**	9	15800	13000

(1)注意:**24.5,40,50,80,100为补充速比，货期较长**

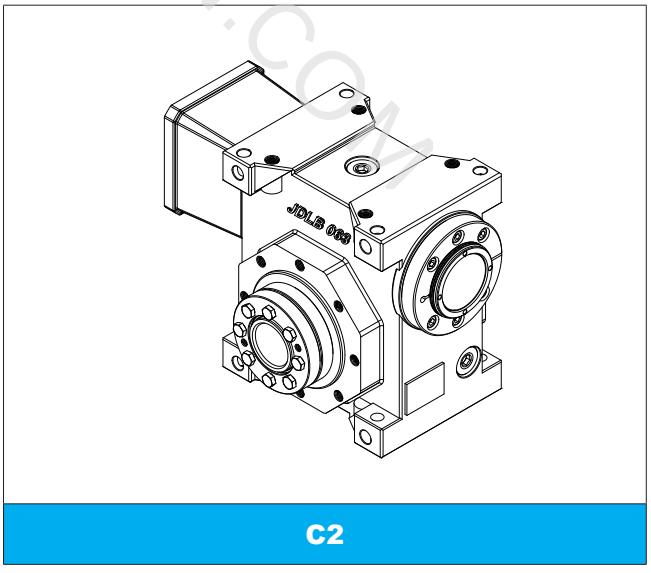
(1)Note:For adding ratio 24.5,40,50,80,100,it will take longer delivery lead time

JDLB 输出方位

JDLB output Position



C1

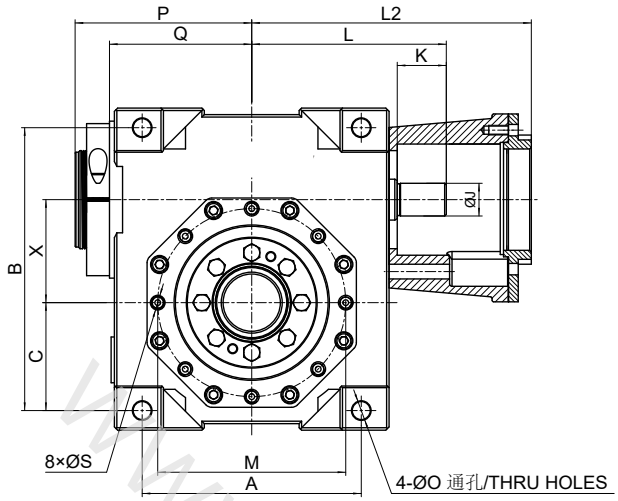


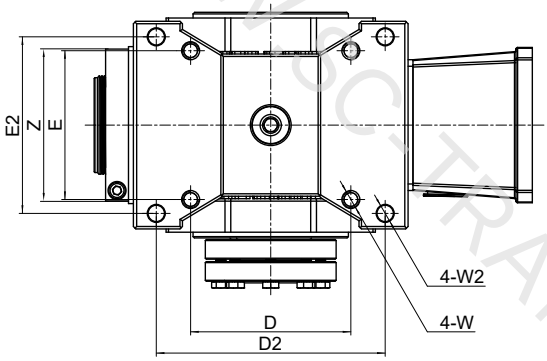
C2

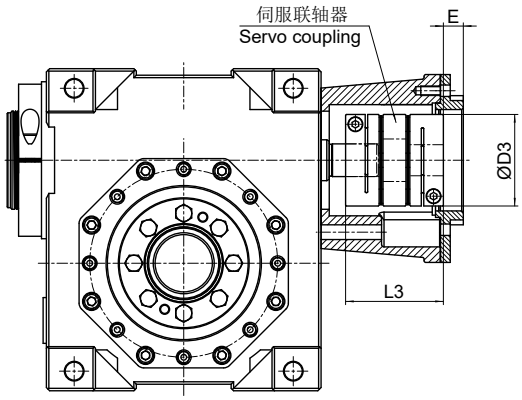
如无特殊说明，锁紧环联轴器安装在C1的位置

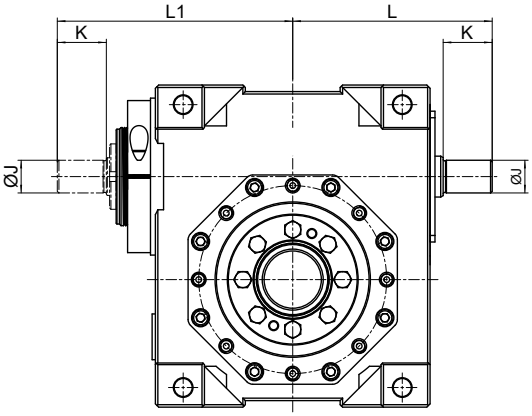
The shrink disc is supplied in C1 position,if no special instructions

JDLB 系列尺寸图



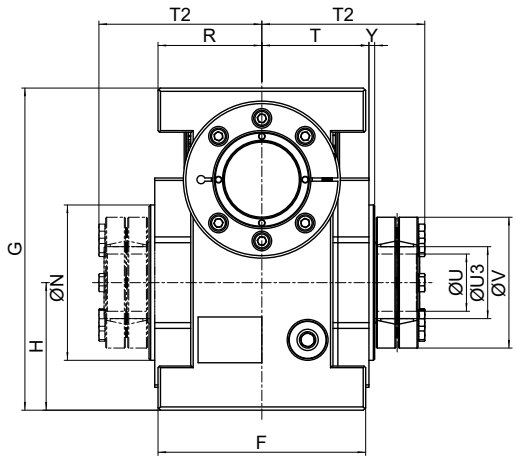


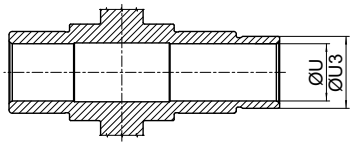




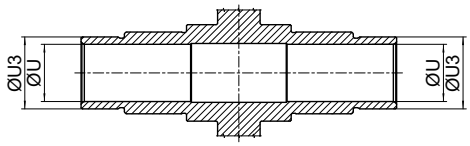
轴输入/Input shaft

JDLB Series dimensions charts

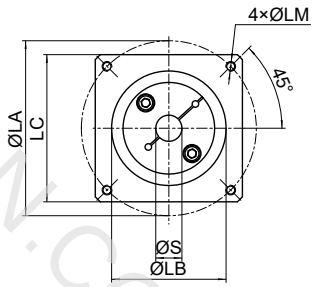


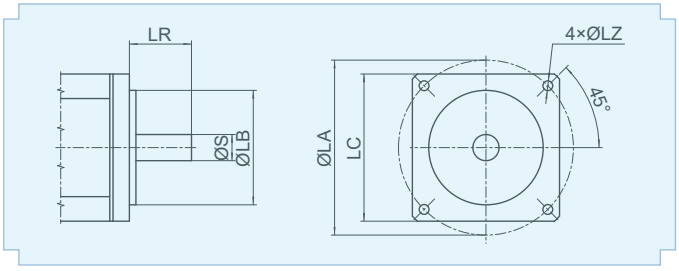


锁紧盘孔输出/Hollow Output Bore With Shrink disc



双锁紧盘孔输出/Hollow Output Bore With double Shrink disc



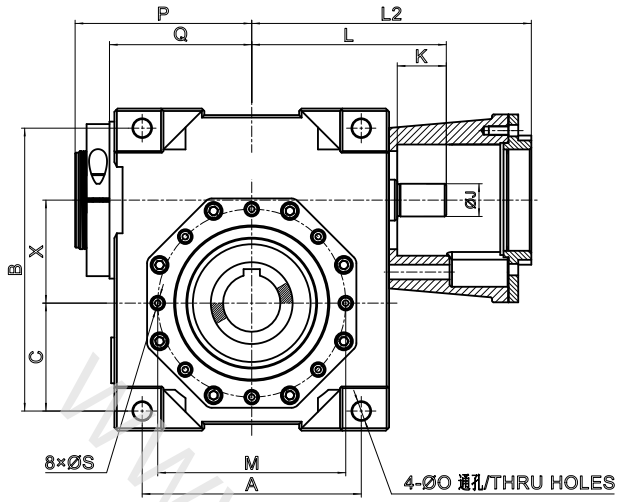


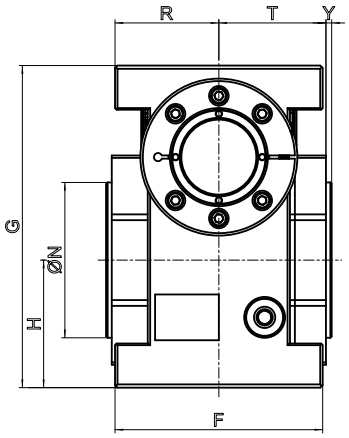
伺服电机示意图/Servo motor

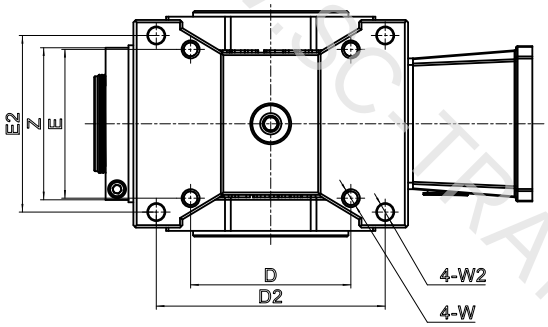
JDLB	025	035	045	050	055	063	075	090	110
A	66	86	108	108	120	134	172	186	220
B	84	110	135	138	155	173	208	234	276
C	33	44.5	53	53	61	66	82	91	108
D	49.5	62	81	81	90	98	136	141	175
D2	-	-	114	114	125	140	172	204	-
D3	29	39	44	44	56	56	68	68	68
E	44	56	68	68	78	91	110	130	140
E2	-	-	84	84	96	108	125	140	-
E3	5	5	5	5	6.5	6.5	6.5	6.5	6.5
F	64	86	100	100	112	127	148	170	182
G	96	126	153	156	175	197	232	264	306
H	39	52.5	62	62	71	78	94	106	123
J(h6)	9	12	15	15	18	20	24	28	32
K	10	17	24	24	28	30	35	35	36
L (min+V)	53	78.5+V	98.5+V	98.5+V	111+V	122+V	147+V	157+V	177+V
L1 (max-V)	70	98.5-V	119.5-V	117.5-V	133-V	144-V	172-V	183-V	199-V
L2	55+LR	88+LR	103+LR	103+LR	116+LR	127+LR	152+LR	162+LR	190+LR
L3	32.8	48	48	48	59.8	59.8	73.3	73.3	73.3
M	65	65	85	85	100	115	130	165	200
N(h7)	55	50	70	70	80	95	110	130	165
O	6.2	7	9	9	9	11	11	13	13
P(max)	52	76.5	91	91	100	108	129	139.5	157
Q	42	55	70.5	70.5	78	87	107	117.5	132
R	32	43	50	50	56	63.5	74	85	91
S	M5	M6	M8	M8	M8	M8	M10	M12	M12
T	32	43	52	52	58	65.5	76	87	92
T2	55.5	70	78	78	87	96.5	110	124	133
U(H7)	14	20	25	25	30	35	40	50	60
U3	16	24	30	30	36	44	50	68	80
V	41	50	60	60	72	80	90	115	145
W	M5	M6	M8	M8	M8	M10	M10	M12	M12
W2	-	-	9	9	9	10	12	14	-
X	25	35	45	50	55	63	75	90	110
Y	3	3	3	3	3.5	3.5	4	4	5
Z	56	73	86	86	86	93	108	108	138
LA/LB/LC/LR/LM/S			按伺服电机 /By servo motor						

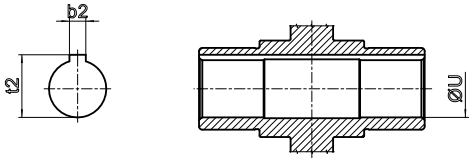
JDLB 系列尺寸图

JDLB Series dimensions charts

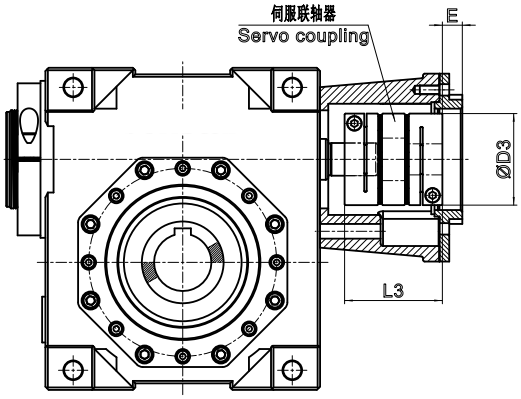


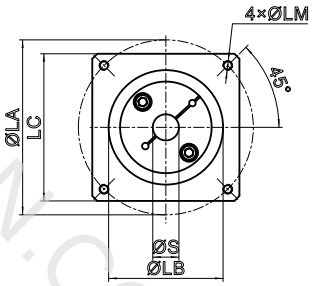


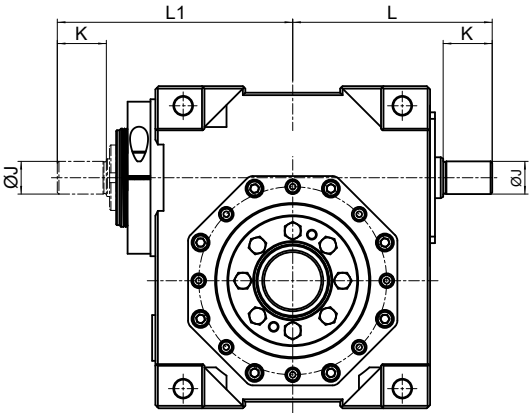




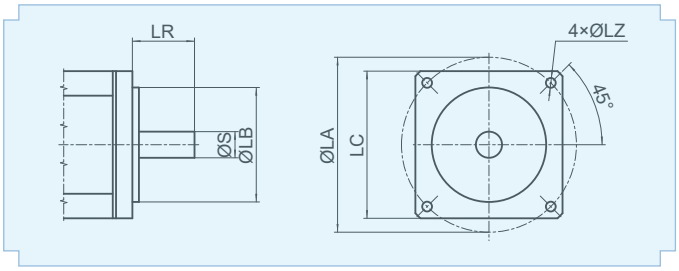
带键孔输出/Hollw Output Bore With Keyway







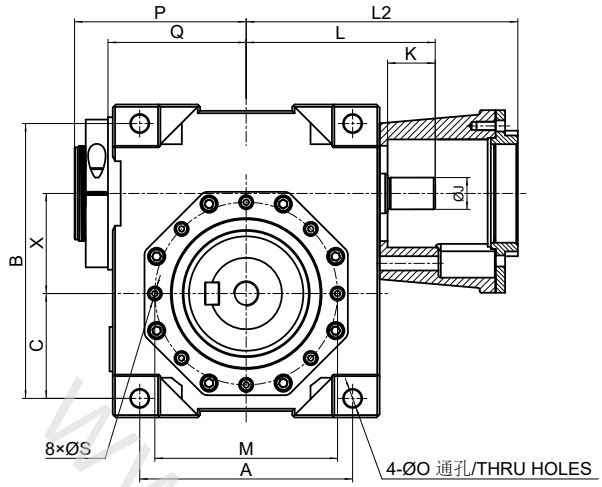
轴输入/Input shaft

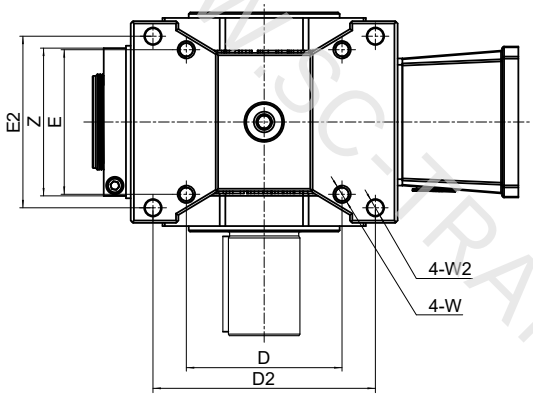


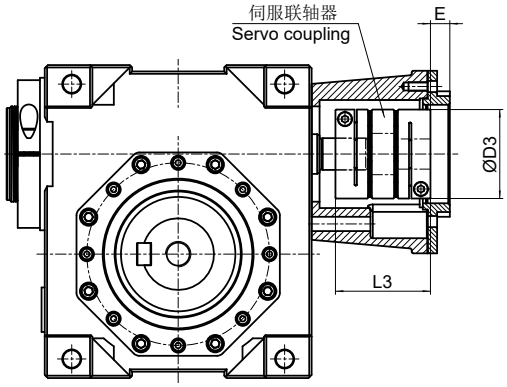
伺服电机示意图/Servo motor

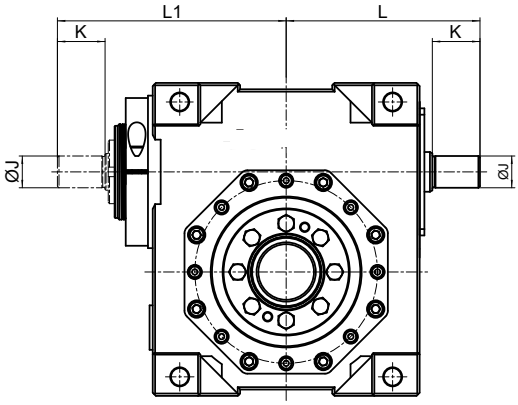
JDLB	025	035	045	050	055	063	075	090	110
A	66	86	108	108	120	134	172	186	220
B	84	110	135	138	155	173	208	234	276
C	33	44.5	53	53	61	66	82	91	108
D	49.5	62	81	81	90	98	136	141	175
D2	-	-	114	114	125	140	172	204	-
D3	29	39	44	44	56	56	68	68	68
E	44	56	68	68	78	91	110	130	140
E2	-	-	84	84	96	108	125	140	-
E3	5	5	5	5	6.5	6.5	6.5	6.5	6.5
F	64	86	100	100	112	127	148	170	182
G	96	126	153	156	175	197	232	264	306
H	39	52.5	62	62	71	78	94	106	123
J(h6)	9	12	15	15	18	20	24	28	32
K	10	17	24	24	28	30	35	35	36
L (min+V)	53	78.5+V	98.5+V	98.5+V	111+V	122+V	147+V	157+V	177+V
L1 (max-V)	70	98.5-V	119.5-V	117.5-V	133-V	144-V	172-V	183-V	199-V
L2	55+LR	88+LR	103+LR	103+LR	116+LR	127+LR	152+LR	162+LR	190+LR
L3	32.8	48	48	48	59.8	59.8	73.3	73.3	73.3
M	65	65	85	85	100	115	130	165	200
N	55	50	70	70	80	95	110	130	165
O	6.2	7	9	9	9	11	11	13	13
P	52	76.5	91	91	100	108	129	139.5	157
Q	42	55	70.5	70.5	78	87	107	117.5	132
R	32	43	50	50	56	63.5	74	85	91
S	M5	M6	M8	M8	M8	M8	M10	M12	M12
T	32	43	52	52	58	65.5	76	87	92
U(H7)	14	16	25	25	30	35	40	50	60
W	M5	M6	M8	M8	M8	M10	M10	M12	M12
W2	-	-	9	9	9	10	12	14	vc
X	25	35	45	50	55	63	75	90	110
Y	3	3	3	3	3.5	3.5	4	4	5
Z	56	73	86	86	86	93	108	108	138
t2	16.3	18.3	28.3	28.3	33.3	38.3	43.3	53.8	64.4
b2	5	5	8	8	8	10	12	14	18
LA/LB/LC/LR/LM/S			按伺服电机 /By servo motor						

JDLB 系列尺寸图



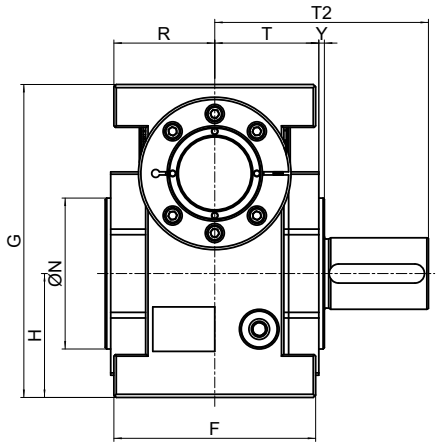


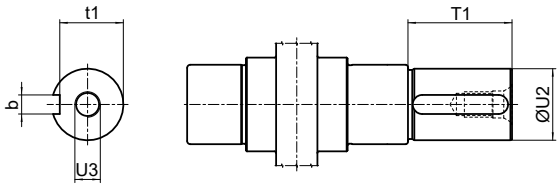




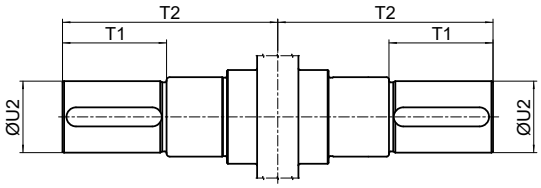
轴输入/Input shaft

JDLB Series dimensions charts

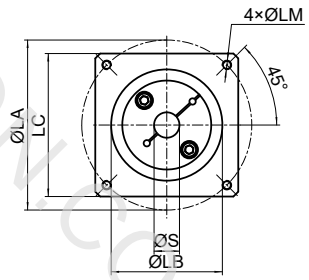


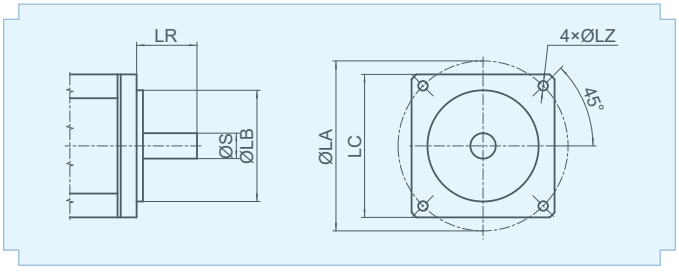


单输出轴/Single output shaft



双输出轴/Double output shaft





伺服电机示意图/Servo motor

JDLB	025	035	045	050	055	063	075	090	110
A	66	86	108	108	120	134	172	186	220
B	84	110	135	138	155	173	208	234	276
C	33	44.5	53	53	61	66	82	91	108
D	49.5	62	81	81	90	98	136	141	175
D2	-	-	114	114	125	140	172	204	-
D3	29	39	44	44	56	56	68	68	68
E	44	56	68	68	78	91	110	130	140
E2	-	-	84	84	96	108	125	140	-
E3	5	5	5	5	6.5	6.5	6.5	6.5	6.5
F	64	86	100	100	112	127	148	170	182
G	96	126	153	156	175	197	232	264	306
H	39	52.5	62	62	71	78	94	106	123
J(h6)	9	12	15	15	18	20	24	28	32
K	10	17	24	24	28	30	35	35	36
L (min+V)	53	78.5+V	98.5+V	98.5+V	111+V	122+V	147+V	157+V	177+V
L1 (max-V)	70	98.5-V	119.5-V	117.5-V	133-V	144-V	172-V	183-V	199-V
L2	55+LR	88+LR	103+LR	103+LR	116+LR	127+LR	152+LR	162+LR	190+LR
L3	32.8	48	48	48	59.8	59.8	73.3	73.3	73.3
M	65	65	85	85	100	115	130	165	200
N	55	50	70	70	80	95	110	130	165
O	6.2	7	9	9	9	11	11	13	13
P	52	76.5	91	91	100	108	129	139.5	157
Q	42	55	70.5	70.5	78	87	107	117.5	132
R	32	43	50	50	56	63.5	74	85	91
S	M5	M6	M8	M8	M8	M8	M10	M12	M12
T	32	43	52	52	58	65.5	76	87	92
T1	30	38	55	55	60	70	75	100	115
T2	65	83	110	110	121.5	139	155	191	208
U2(h6)	18	25	35	35	40	45	50	65	75
U3	M8	M10	M12	M12	M16	M16	M16	M20	M20
W	M5	M6	M8	M8	M8	M10	M10	M12	M12
W2	-	-	9	9	9	10	12	14	-
X	25	35	45	50	55	63	75	90	110
Y	3	3	3	3	3.5	3.5	4	4	5
Z	56	73	86	86	86	93	108	108	138
t1	14.5	21	30	30	35	39.5	44.5	58	67.5
b	6	8	10	10	12	14	14	18	20
LA/LB/LC/LR/LM/S			按伺服电机 /By servo motor						