

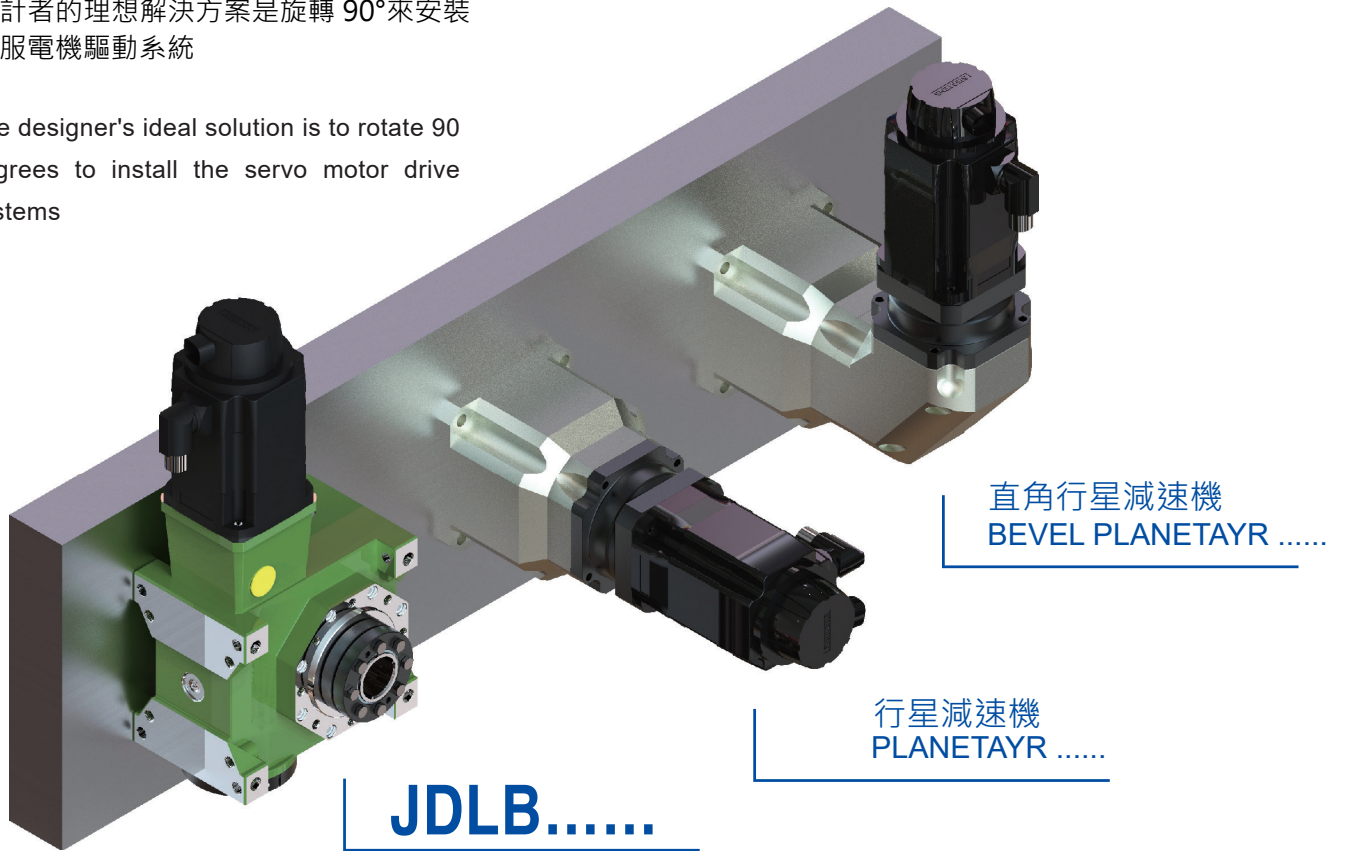


# RIGHT ANGLE SERVO GEARHEADS

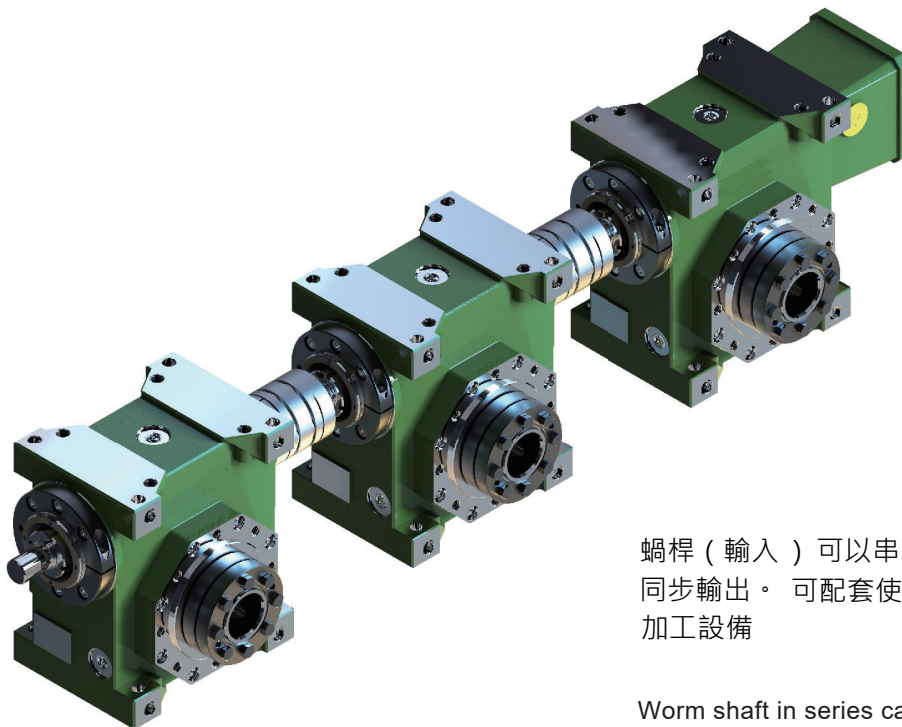


設計者的理想解決方案是旋轉 90°來安裝  
伺服電機驅動系統

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



**JDLB.....**



蝸桿（輸入）可以串聯由一個電機驅動，實現多個蝸輪  
同步輸出。可配套使用於各種電子、通信行業零部件的  
加工設備

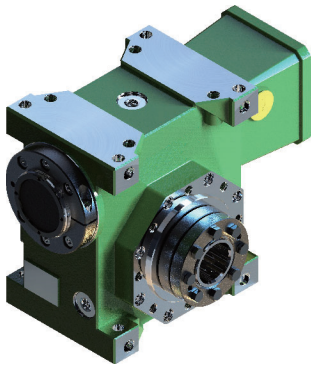
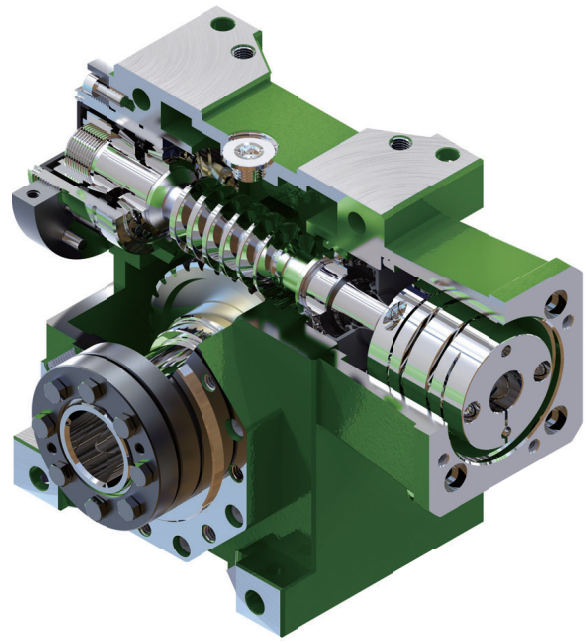
Worm shaft in series can be driven by one motor to achieve  
synchronous output of multiple worm wheels. It can be  
applied to parts processing equipment in the electronics  
industry ,communication industry and ect.

# JDLB SERIES

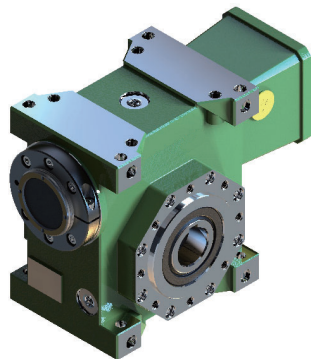
## JDLB減速機

JDLB 減速機是精密行星減速機的理想替代產品，設備廠商可以大幅減少使用精密行星齒輪減速機的應用成本

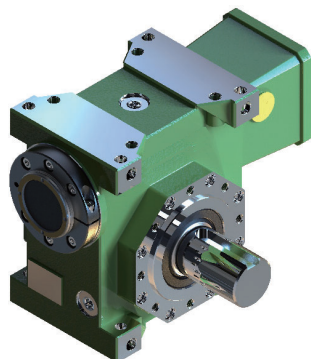
JDLB series high precision worm gear is an ideal substitute for precision planetary gearbox, the equipment manufacturer can substantially reduce the cost of using precision planetary gearbox



具有鎖緊環的空心軸輸出，精度高，容易整合  
Hollow output with shrink disc, high precision,  
for easy integration



鍵槽孔輸出，安裝方便，容易整合  
Output with keyway, convenient installation,  
easy integration



實心軸輸出（單、雙出軸），剛性強，傳統方式  
Solid shaft output (single, double), high  
stiffness, traditional solution

# JDLB 系列精密蝸輪蝸桿減速機

## series high precision worm gear units

### 優化的接觸面

- \* 先進的加工技術加上精密的組裝，確保齒部的正確嚙合，減小齒面的接觸應力
- \* 特殊研發的蝸輪銅合金，使齒部具有高強度及很好的耐磨性
- \* 加上大比率齒面接觸，蝸輪不易磨損，能長期保持固定的間隙

### 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.

### 優化的調整結構

- \* 能快速設定間隙
- \* 剛性好，精度高
- \* 專利結構

### Optimized adjustment structure

- \* Quickly setting backlash
- \* Higher stiffness and precision
- \* Patent structure

### 蝸桿使用圓錐滾子軸承

- \* 一端安裝兩個圓錐滾子軸承，具有更長的使用壽命
- \* 消除蝸桿熱膨脹引起的誤差
- \* 軸承預緊安裝，具有更高的支撐剛性

### Worm shaft using Taper roller bearings

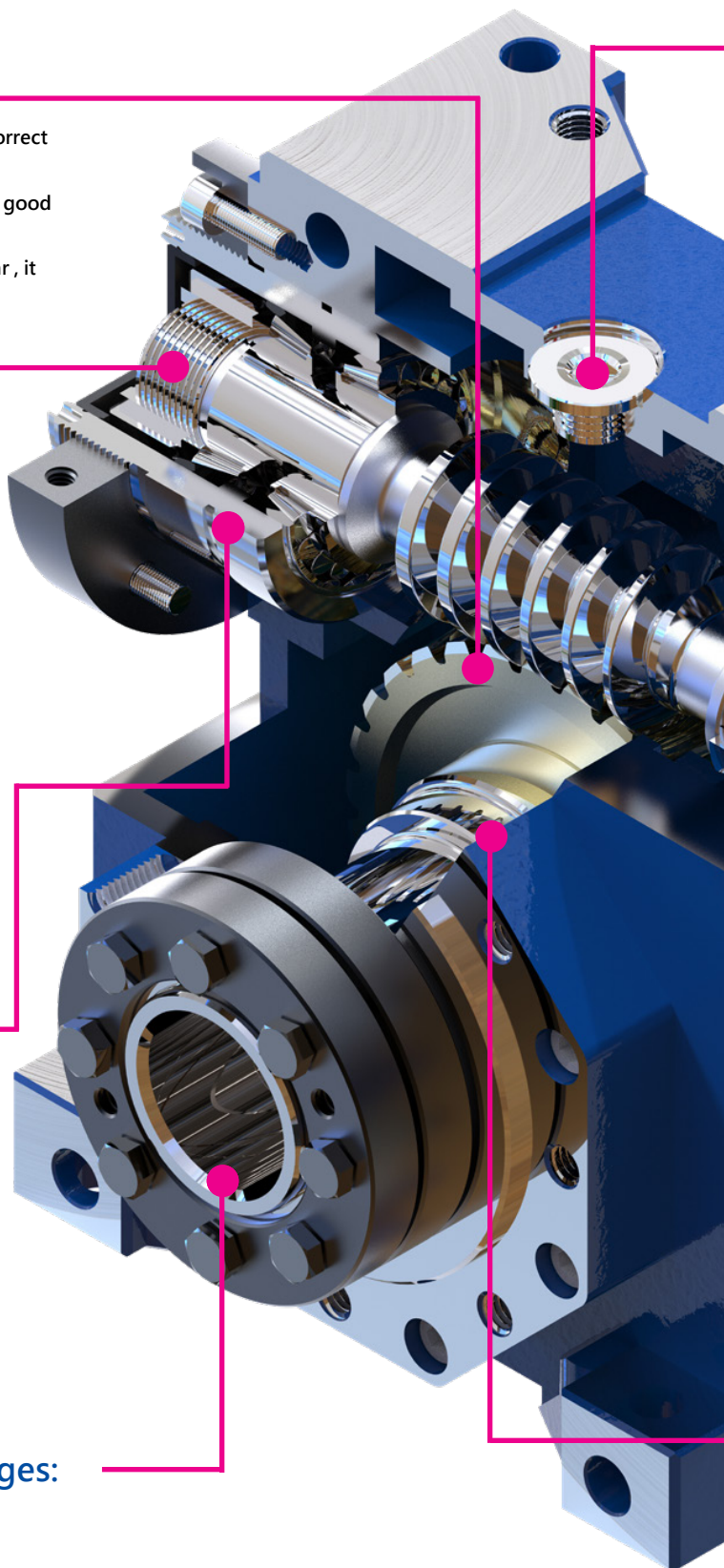
- \* Installed two taper roller bearings with which have longer service lives.
- \* Eliminates worm shaft alignment problems
- \* Bearing pre-tight installation, with higher support stiffness

### 提供兩種輸出背隙

- \* 超精密級：1 弧分，適用於要求比較高的場合
- \* 精密級：2~4 弧分，品質和價格的折衷方案

### 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



# JDLB 系列精密蝸輪蝸桿減速機

## series high precision worm gear units

### 免維護

- \* 添加高性能全合成潤滑油
- \* 全封閉結構，無需更換潤滑油

### Maintenance free

- \* High performance synthetic lubricant
- \* Closed structure, no need to replace lubricant oil.

### 能快速安裝伺服電機

- \* 伺服電機專用高剛性、低慣量聯軸器
- \* 可提供各種和伺服電機相配的法蘭

### Quickly install servo motor

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

### 外殼重力澆鑄成形

- \* 高強度鋁合金澆鑄並經過熱處理
- \* 剛性好，重量輕
- \* 外形美觀耐候性好

### Housing with gravity casting

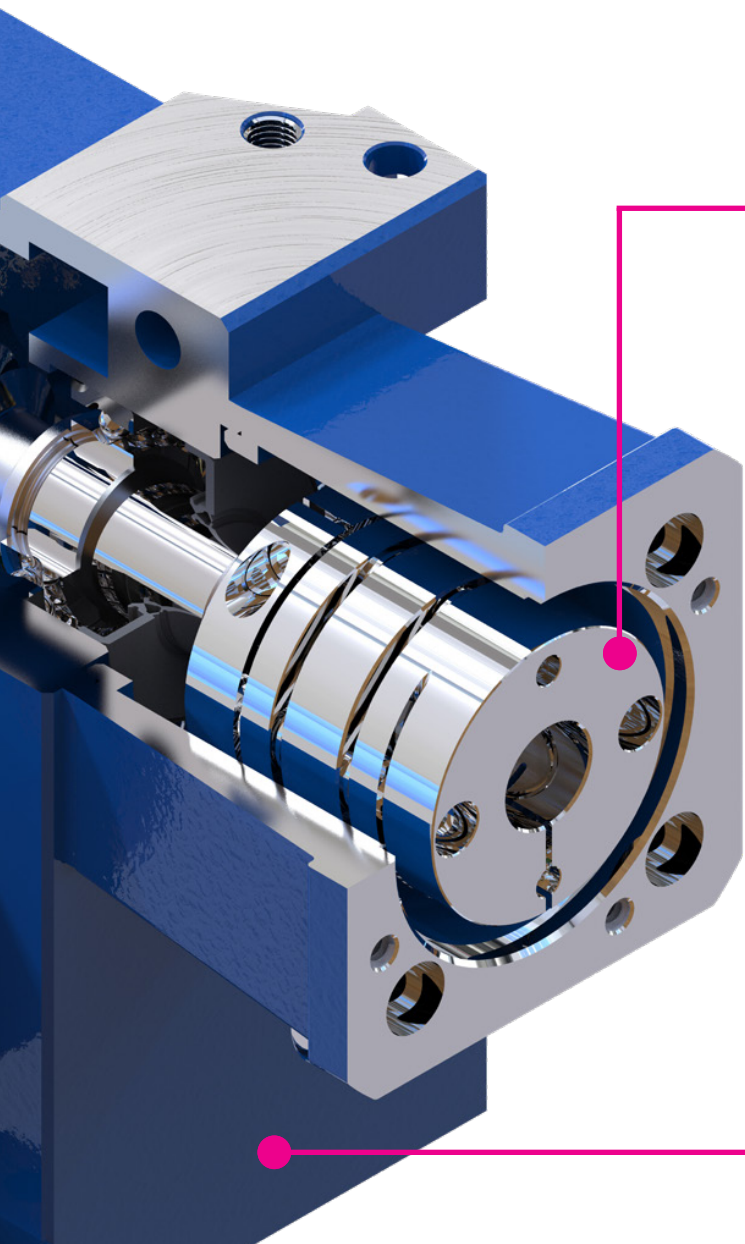
- \* High strength Aluminum Alloy casting and heat treatment
- \* Superior rigidity and low weight
- \* Beautiful shape and Good weather resisting property

### 蝸輪使用加大圓錐滾子軸承

- \* 能承受很大的軸向負荷
- \* 軸承預緊安裝，具有更高的支撐剛性

### Installed two taper roller bearings with which have longer service lives.

- \* Eliminates worm shaft alignment problems
- \* Bearing pre-tight installation, with higher support stiffness



## JDLB特點

蝸輪蝸桿伺服減速機有45-50-55-63-75-90六種規格，採用雙導程蝸桿傳動。蝸桿的左右齒面使用不同的導程角，引起齒厚的漸變，這樣就可以移動蝸桿調整嚙合間隙。

### 特點

- 蝸輪回轉背隙可以調整到小於1弧分。
- 減速機使用一段時間後可以重新調整間隙。
- 輸入用聯軸器聯結：可靠、無背隙。
- 輸出用錐形鎖緊環聯軸器：可靠、無背隙。

## JDLB使用場合

### 高精度回轉運動

- 減少由負載變動及切削力變化等引起的震動及噪音。
- 減少由正反轉引起的衝擊及噪音。
- 減少由以上引起的蝸輪加劇磨損。
- 增加蝸輪輸出的響應速度。

### 精密分度裝置

- 數控機床、流水線、切割機、輸送線等。
- 分度裝置、讀數機構等要求運動準確的場合。

### 速度有變化的場合

- 減少由速度變化引起的衝擊及噪音。
- 減少由速度變化引起的蝸輪加劇磨損。

## JDLB Features

Servo worm gear units have six types :45 - 50 - 55 - 63 - 75 - 90 ,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 Applications

### Precision rotary motion

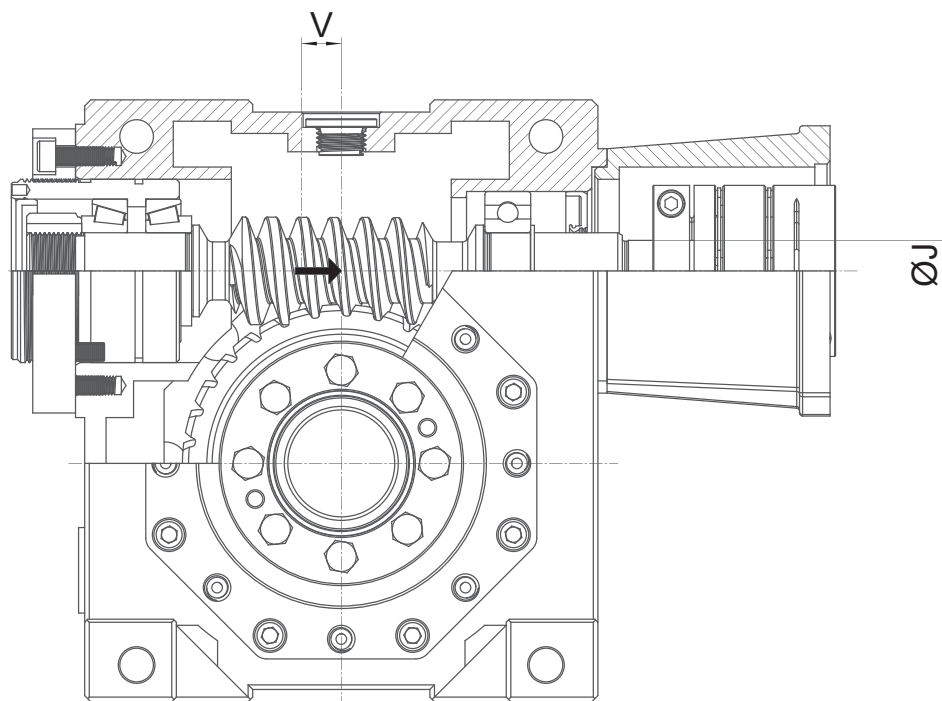
- Reducing the noise and vibration that is caused by the load change and the change of cutting force.
- reducing the noise and impact that is caused by the corotation and reverse.
- By reducing worm abrasion.
- Increasing worm output response speed .

### 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.



間隙調整  
Clearance Adjustment

JDLB	調整距離 Adjust the distance	調整量係數 Adjustment coefficient	間隙調整量 Clearance Adjustment	輸入軸直徑 Input shaft diameter
	V [mm]	k [mm <sup>-1</sup> ]	ΔS <sub>a</sub> [mm]	J [mm]
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

JDLB 選型

下列的標題包含選擇減速機的原理以及正確使用它們的方法。  
具體的數值參照相應的章節

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 輸出扭矩

1.1 額定扭矩  
M<sub>n2</sub> [Nm]

扭矩作用於連續平穩運轉的減速機且在工作係數 f<sub>s</sub> = 1 的情況下測出的數值。

1.2 需求的扭矩  
M<sub>r2</sub> [Nm]

基於實際所需，數值等於或小於減速機的額定扭矩 M<sub>n2</sub>。

1.3 計算扭矩  
M<sub>c2</sub> [Nm]

在選擇減速機時有用。它要考慮實際需求的扭矩 M<sub>r2</sub> 以及工作係數 f<sub>s</sub>，由以下關係式計算出：

1.0 OUTPUT TORQUE

1.1 Rated output torque  
M<sub>n2</sub> [Nm]

The torque that can be transmitted continuously through the output shaft, with the gear unit operated under a service factor f<sub>s</sub> = 1.

1.2 Required torque  
M<sub>r2</sub> [Nm]

The torque demand based on application requirement. It is recommended to be equal to or less than torque M<sub>n2</sub> the gearbox under study is rated for.

1.3 Calculated torque  
M<sub>c2</sub> [Nm]

Computational torque value to be used when selecting the gearbox. It is calculated considering the required torque M<sub>r2</sub> and service factor f<sub>s</sub>, as per the relationship here after:

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

## 2.0 功率

### 2.1 額定輸入功率 $P_{n1}$ [kW]

減速機安全運轉時的功率(kW)值，列於參數表中。它是在速度等於  $n_1$  且工作係數  $f_s = 1$  的情況下得出的。

### 2.2 額定輸出功率 $P_{n2}$ [kW]

減速機的輸出功率值，可以用下面的公式計算。

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

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

## 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  $n_1$  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:

## 3.0 效率

效率是影響某些應用的主要因素，它的值基本由齒輪副設計的參數決定。在第11頁上的嚙合參數表上記錄了動態及靜態效率值 ( $n_1=1400$ )。注意這些值只適用於磨合完成的在工作溫度下運轉的減速箱

### 3.1 動態效率 $[\eta_d]$

動態效率和輸出功率  $P_2$  以及輸入功率  $P_1$  的關係:

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

### 3.2 靜態效率 $[\eta_s]$

在減速機剛啟動時的效率。雖然對連續傳動沒有實際的意義，但在選擇斷續傳動的減速機時卻十分重要。

## 3.0 EFFICIENCY

Efficiency is a parameter which has a major influence on the sizing of certain applications, and basically depends on gear pair design elements. The mesh data table on page 11 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 Dynamic efficiency $[\eta_d]$

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

### 3.2 Static efficiency $[\eta_s]$

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<sub>s</sub> ]

減速機的工作係數(f<sub>s</sub>) 主要取決於減速機的運行條件，為了選擇最合適的工作環境係數進行正確的組合，必須考慮如下因素：

1. 減速機的負載形式: **A - B - C**
  2. 工作時間: 小時/天(Δ)
  3. 開機頻率: 次/小時(\*)
- 負載類型: **A** - 均衡負荷, f<sub>a</sub> ≤ 0.3  
**B** - 中等衝擊, f<sub>a</sub> ≤ 3  
**C** - 嚴重衝擊, f<sub>a</sub> ≤ 10

**f<sub>a</sub> = J<sub>e</sub> / J<sub>m</sub>**

- J<sub>e</sub> (kgm<sup>2</sup>): 在驅動軸上衰降的慣性矩
- J<sub>m</sub> (kgm<sup>2</sup>): 電機慣性矩
- 如果 f<sub>a</sub> > 10 時請與技術服務部聯繫

**A** - 輕質材料螺旋輸送機，風扇，裝配線，輕質材料皮帶輸送機，小型攪拌機，提升機，清潔機，灌裝機，控制器。

**B** - 捲繞裝置，木工機械，貨物提升機，平衡器，螺紋機，介質攪拌機，重型材料皮帶輸送機，絞盤，移動門，刮機，包裝機，混凝土攪拌機，起重機，磨割機，卷板機，齒輪泵。

**C** - 重型材料攪拌機，剪切機，壓力機，離心機，旋轉支撐，重型材料絞盤和提升機，磨床，石材，升降機，鑽孔機，錘式粉碎機，凸輪壓力機，折疊機，運輸帶，翻斗車，振動器，撕碎機。

#### 4.0 SERVICE FACTOR [ f<sub>s</sub> ]

The service factor ( f<sub>s</sub> ) 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(Δ)**
  3. start-up frequency: **starts/hour (\*)**
- TYPE OF LOAD: **A** - uniform, f<sub>a</sub> ≤ 0.3  
**B** - moderate shocks, f<sub>a</sub> ≤ 3  
**C** - heavy shocks, f<sub>a</sub> ≤ 10

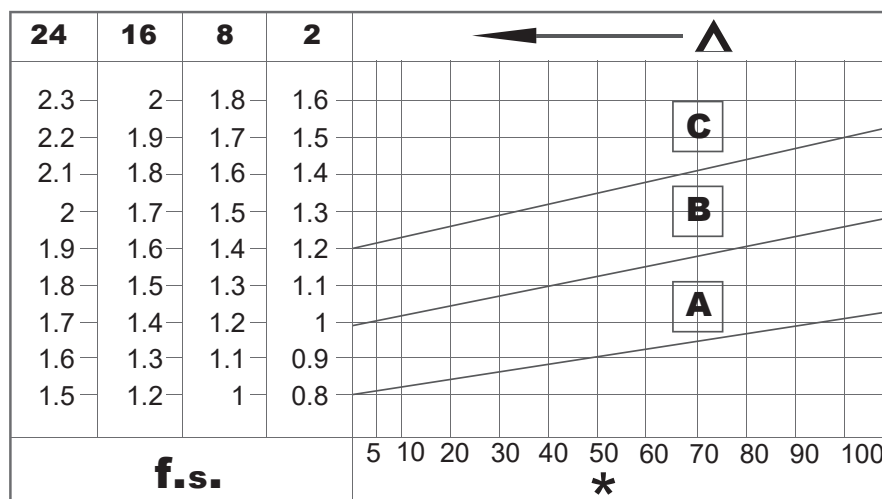
**f<sub>a</sub> = J<sub>e</sub> / J<sub>m</sub>**

- J<sub>e</sub> (kgm<sup>2</sup>) moment of the external inertia reduced at the drive shaft
- J<sub>m</sub> (kgm<sup>2</sup>) moment of inertia of motor
- If f<sub>a</sub> > 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.

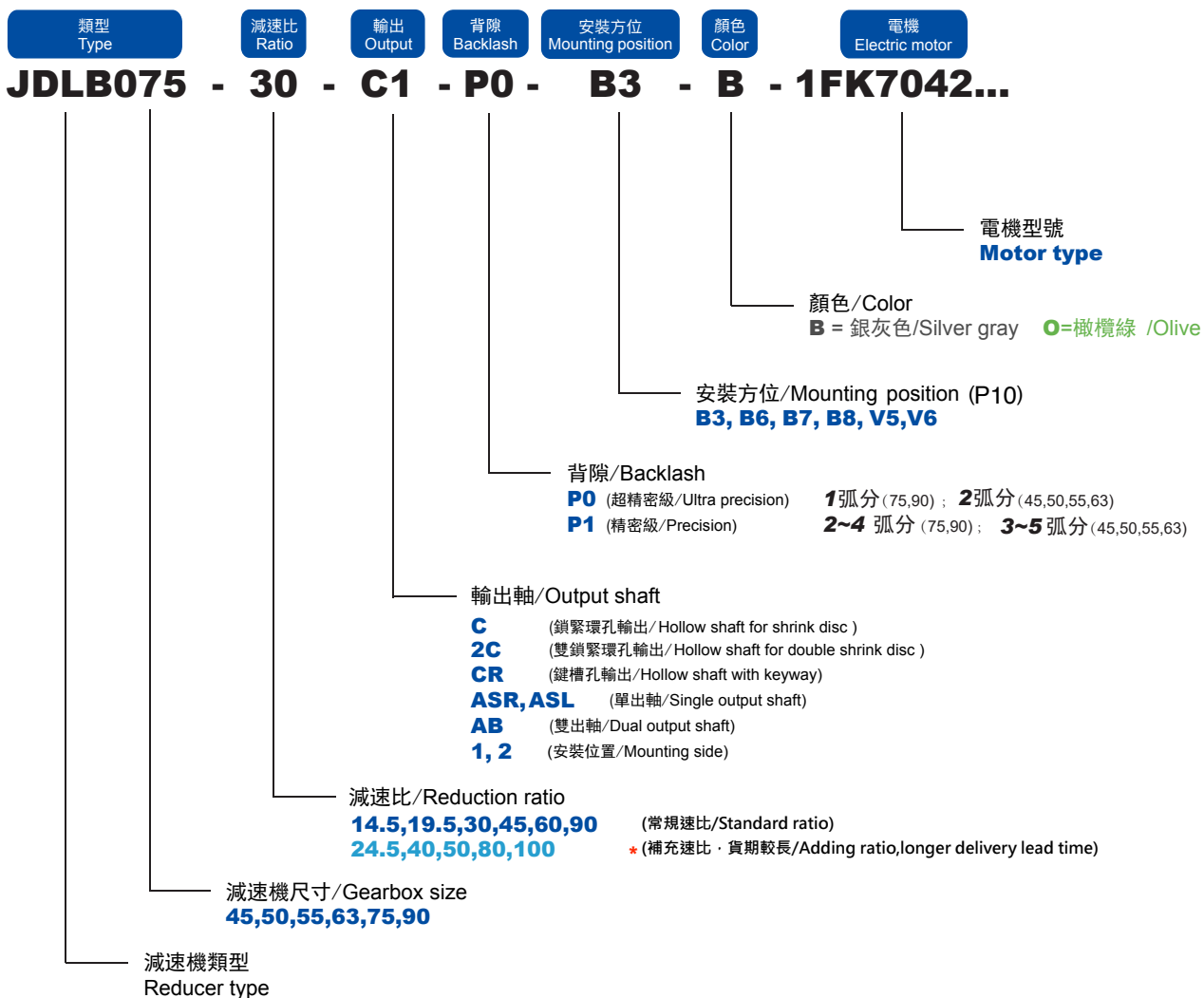
**B**-Winding devices, woodworking machine feeders, goods lifts, balancers,threading machines, medium mixers, conveyor belts for heavy materials,winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.

**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.



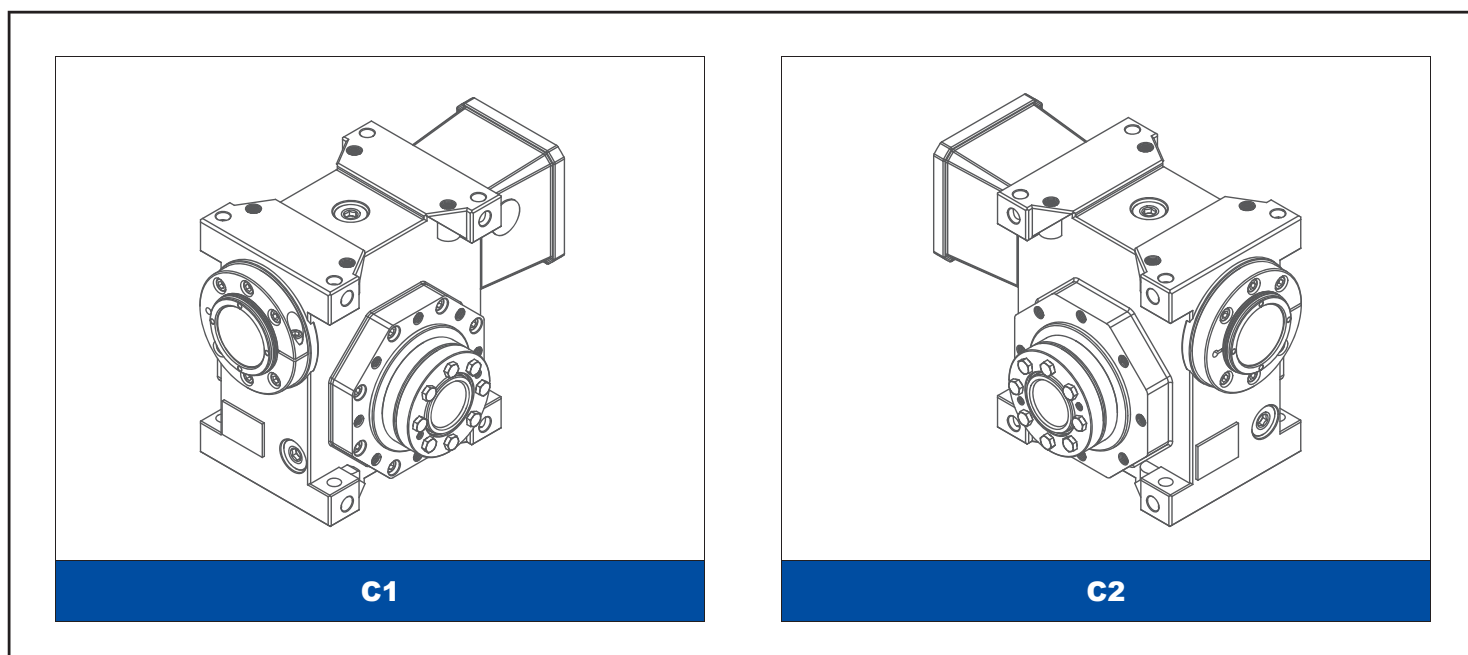
產品名稱

DESIGNATION



JDLB 輸出方位

JDLB output Position



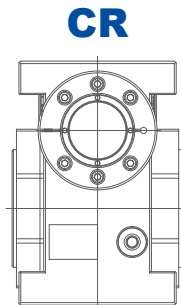
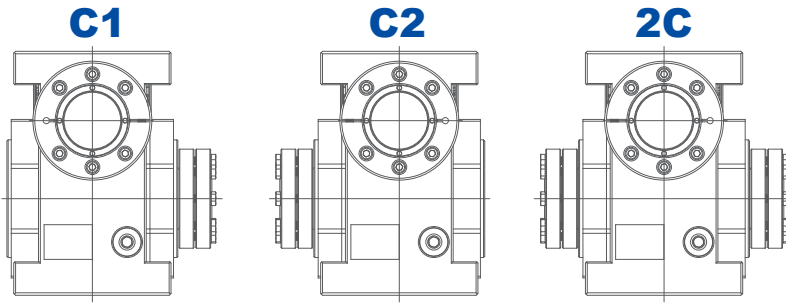
如無特殊說明，鎖緊環聯軸器安裝在C1的位置

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

# JDLB 輸出型式 Versions

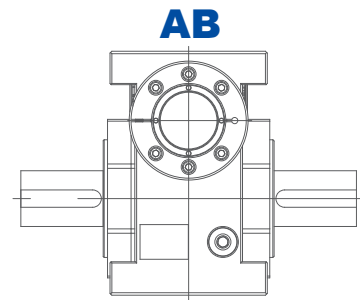
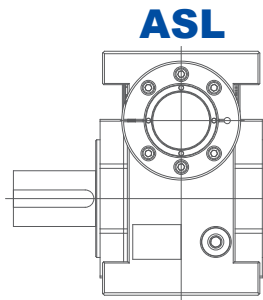
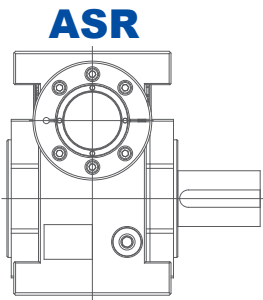
鎖緊環孔輸出  
Hollow shaft for shrink disc

鍵槽孔輸出  
Hollow shaft with keyway



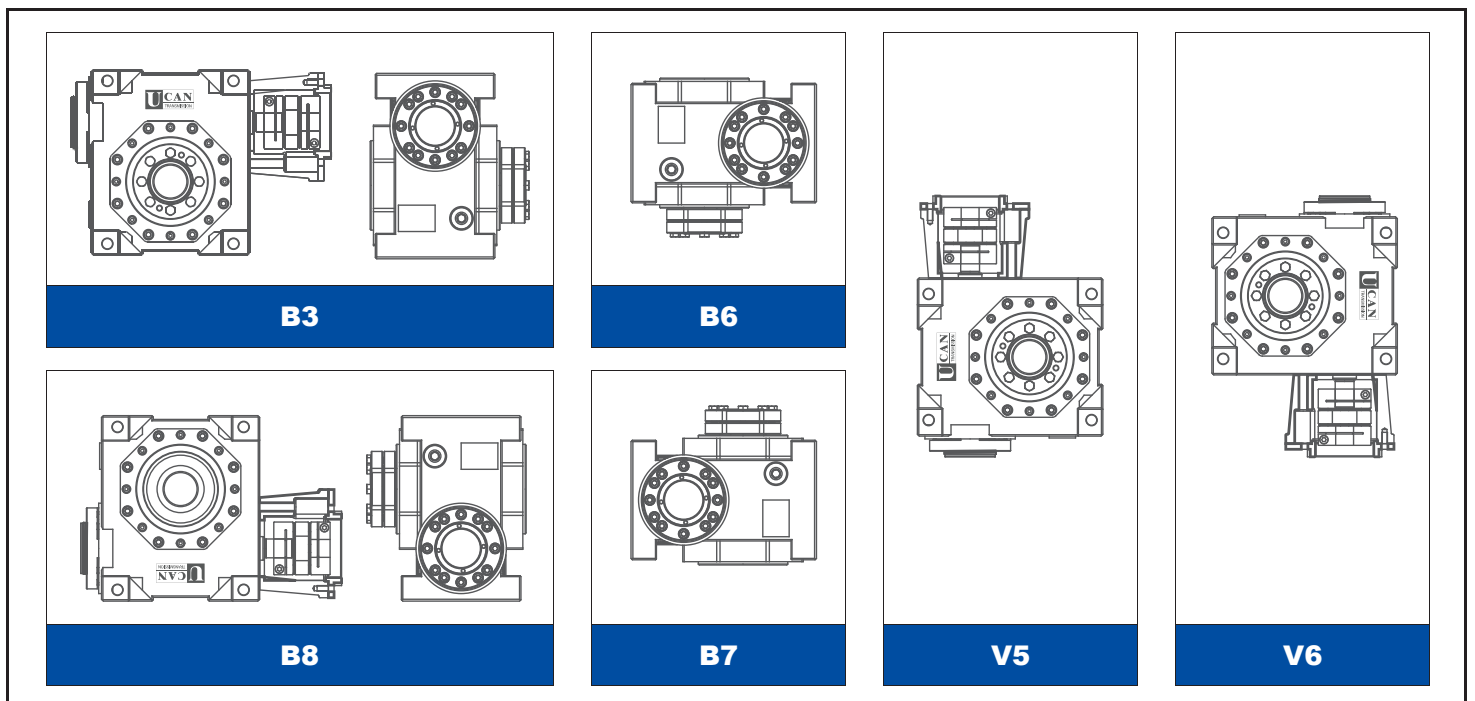
單出軸  
Single output shaft

雙出軸  
Dual output shaft



## JDLB 安裝方位

## JDLB Mounting positions



# JDLB 嚙合參數

## Mesh Data

蝸桿螺旋線、蝸輪齒牙和效率 (n1=1400)

Worm thread, worm wheel tooth and efficiency data (n1=1400)

JDLB	i	14.5	19.5	30	45	60	90	24.5 <sup>(1)</sup>	40 <sup>(1)</sup>	50 <sup>(1)</sup>	80 <sup>(1)</sup>	100 <sup>(1)</sup>
045	Z <sub>1</sub>	2	2	1	1	1	1	2	1	1		
	γ	14°06'	11°33'	7°10'	5°22'	4°14'	3°01'	9°44'	5°50'	4°54'		
	M <sub>x</sub>	2.35	1.8	2.35	1.62	1.22	0.83	1.45	1.8	1.45		
	η <sub>d</sub>	0.80	0.77	0.69	0.63	0.57	0.48	0.74	0.64	0.61		
	η <sub>s</sub>	0.58	0.53	0.44	0.38	0.32	0.26	0.5	0.4	0.36		
050	Z <sub>1</sub>	2	2	1		1		2	1	1		
	γ	11°18'	9°04'	5°42'		3°17'		7°36'	4°33'	3°49'		
	M <sub>x</sub>	2.5	1.9	2.5		1.3		1.54	1.9	1.54		
	η <sub>d</sub>	0.8	0.77	0.7		0.57		0.74	0.65	0.61		
	η <sub>s</sub>	0.58	0.54	0.44		0.32		0.5	0.39	0.35		
055	Z <sub>1</sub>	2	2	1	1	1	1	2	1	1	1	
	γ	12°20'	10°02'	6°14'	4°36'	3°37'	2°33'	8°23'	5°03'	4°13'	2°48'	
	M <sub>x</sub>	2.8	2.15	2.8	1.92	1.45	0.98	1.73	2.15	1.73	1.09	
	η <sub>d</sub>	0.81	0.78	0.71	0.64	0.58	0.50	0.75	0.66	0.62	0.53	
	η <sub>s</sub>	0.58	0.54	0.44	0.37	0.32	0.26	0.5	0.39	0.35	0.27	
063	Z <sub>1</sub>	2	2	1	1	1	1	2	1	1		
	γ	12°50'	10°29'	6°30'	4°48'	3°47'	2°40'	8°44'	5°17'	4°23'		
	M <sub>x</sub>	3.25	2.5	3.25	2.22	1.68	1.13	2	2.5	2		
	η <sub>d</sub>	0.82	0.8	0.73	0.67	0.61	0.53	0.77	0.69	0.65		
	η <sub>s</sub>	0.59	0.54	0.45	0.38	0.33	0.27	0.5	0.4	0.36		
075	Z <sub>1</sub>	2	2	1	1	1	1	2	1	1	1	
	γ	14°02'	11°18'	7°07'	5°13'	4°05'	2°56'	9°37'	5°42'	4°50'	3°15'	
	M <sub>x</sub>	4	3	4	2.68	2	1.37	2.45	3	2.45	1.54	
	η <sub>d</sub>	0.84	0.81	0.75	0.69	0.64	0.56	0.79	0.71	0.68	0.59	
	η <sub>s</sub>	0.6	0.57	0.46	0.4	0.35	0.27	0.52	0.42	0.38	0.29	
090	Z <sub>1</sub>	2	2	1	1	1	1	2	1	1	1	1
	γ	15°05'	12°14'	7°40'	5°45'	4°36'	3°15'	10°37'	6°11'	5°21'	3°36'	2°57'
	M <sub>x</sub>	4.8	3.6	4.8	3.25	2.5	1.67	3	3.6	3	1.88	1.5
	η <sub>d</sub>	0.85	0.83	0.77	0.72	0.68	0.6	0.81	0.74	0.71	0.62	0.58
	η <sub>s</sub>	0.63	0.59	0.49	0.43	0.38	0.3	0.55	0.45	0.41	0.32	0.28

<sup>(1)</sup> 注意: 24.5,40,50,80,100 為補充速比,交期較長

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

### 參數符號對應表

### SYMBOLS AND UNITS OF MEASURE

符號 Symbols	單位 Units	注解	Description
<b>P</b>	[kW]	功率	Power
<b>P<sub>1</sub></b>	[kW]	輸入功率	Transmitted power at input shaft
<b>P<sub>2</sub></b>	[kW]	輸出功率	Transmitted power at output shaft
<b>P<sub>n1</sub></b>	[kW]	額定輸入功率	Rated input power
<b>M<sub>2</sub></b>	Nm	輸出扭矩	Transmitted torque at output shaft
<b>M<sub>c2</sub></b>	Nm	計算的輸出扭矩	Calculated torque at output shaft
<b>M<sub>n2</sub></b>	Nm	額定輸出扭矩	Rated torque at output shaft
<b>M<sub>r2</sub></b>	Nm	需求的扭矩	Required torque at output shaft
<b>n<sub>1</sub></b>	min <sup>-1</sup>	輸入轉速	Angular input speed
<b>n<sub>2</sub></b>	min <sup>-1</sup>	輸出轉速	Angular output speed
<b>η<sub>d</sub></b>	-	動態效率	Dynamic efficiency
<b>i</b>	-	減速比	Ratio
<b>η<sub>s</sub></b>	-	靜態效率	Static efficiency
<b>Z<sub>1</sub></b>	-	蝸桿齒數	Number of worm thread
<b>M<sub>x</sub></b>	-	軸向模數	Axial modulus
<b>f<sub>s</sub></b>	-	工作係數	Service factor
<b>J<sub>e</sub></b>	kgm <sup>2</sup>	在電機軸上衰降的慣性矩	Moment of the external inertia reduced at the drive shaft
<b>J<sub>m</sub></b>	kgm <sup>2</sup>	電機慣性矩	Moment of inertia of motor
<b>F<sub>r1</sub></b>	N	輸入軸徑向負荷	Input shaft radial load
<b>F<sub>r2</sub></b>	N	輸出軸徑向負荷	Output shaft radial load
<b>F<sub>a2</sub></b>	N	輸出軸軸向負荷	Output shaft axial load

# JDLB 性能参数

## Performance

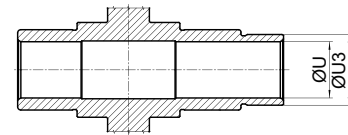
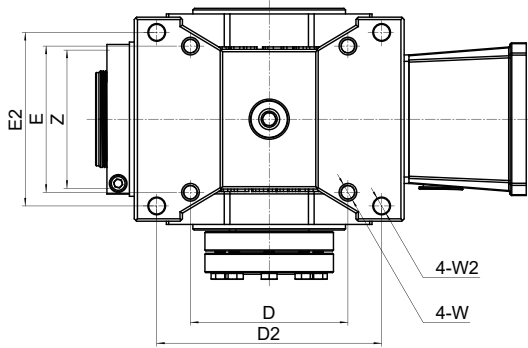
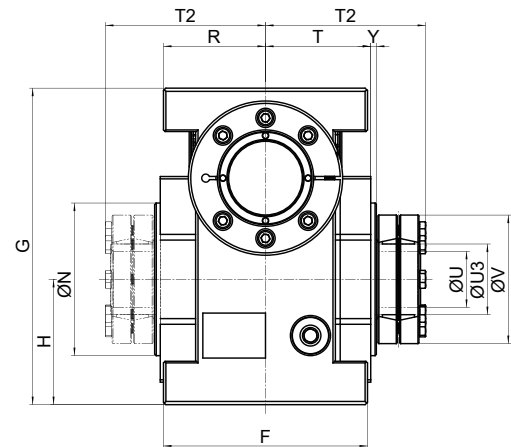
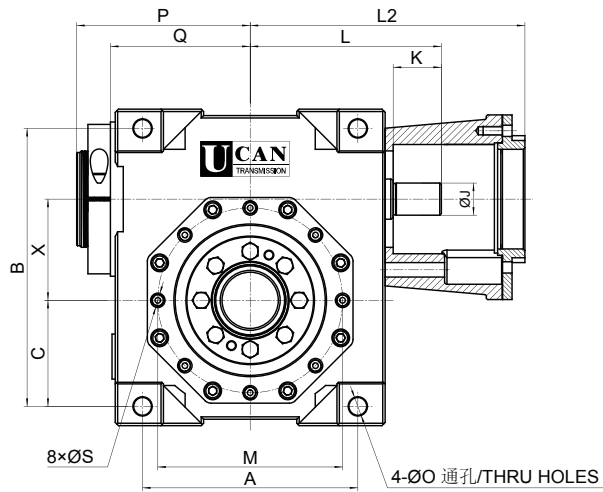
n1	3000					1400				900				Fr <sub>2</sub> [N]	Fa <sub>2</sub> [N]
	JDLB	i	η <sub>d</sub> Effi.	P <sub>1</sub> [kW]	M <sub>2</sub> [Nm]	n <sub>2</sub> [min <sup>-1</sup> ]	η <sub>d</sub> Effi.	P <sub>1</sub> [kW]	M <sub>2</sub> [Nm]	n <sub>2</sub> [min <sup>-1</sup> ]	η <sub>d</sub> Effi.	P <sub>1</sub> [kW]	M <sub>2</sub> [Nm]		
045	14.5	0.85	1.1	<b>44</b>	206.9	0.80	0.6	<b>52</b>	96.6	0.74	0.5	<b>58</b>	62.1	5500	3800
	19.5	0.82	0.9	<b>46</b>	153.8	0.77	0.5	<b>54</b>	71.8	0.71	0.4	<b>60</b>	46.2	5500	3800
	24.5 <sup>(1)</sup>	0.79	0.7	<b>47</b>	122.4	0.74	0.4	<b>55</b>	57.1	0.68	0.3	<b>61</b>	36.7	5500	3800
	30	0.74	0.7	<b>52</b>	100	0.69	0.4	<b>61</b>	46.7	0.63	0.3	<b>67</b>	30	5500	3800
	40 <sup>(1)</sup>	0.69	0.6	<b>49</b>	75	0.64	0.3	<b>57</b>	35.0	0.58	0.3	<b>62</b>	22.5	5500	3800
	45	0.68	0.6	<b>50</b>	67	0.63	0.3	<b>58</b>	31.1	0.57	0.3	<b>63</b>	20	5500	3800
	50 <sup>(1)</sup>	0.66	0.5	<b>50</b>	60	0.61	0.3	<b>58</b>	28.0	0.55	0.2	<b>63</b>	18	5500	3800
	60	0.62	0.4	<b>49</b>	50	0.57	0.2	<b>57</b>	23.3	0.51	0.2	<b>62</b>	15	5500	3800
050	14.5	0.85	1.4	<b>57</b>	206.9	0.80	0.9	<b>74</b>	96.6	0.74	0.7	<b>84</b>	62.1	5500	3800
	19.5	0.82	1.0	<b>53</b>	153.8	0.77	0.7	<b>73</b>	71.8	0.71	0.5	<b>77</b>	46.2	5500	3800
	24.5 <sup>(1)</sup>	0.79	0.8	<b>51</b>	122.4	0.74	0.6	<b>70</b>	57.1	0.68	0.4	<b>75</b>	36.7	5500	3800
	30	0.75	0.9	<b>64</b>	100	0.70	0.6	<b>84</b>	46.7	0.64	0.4	<b>90</b>	30	5500	3800
	40 <sup>(1)</sup>	0.7	0.7	<b>59</b>	75	0.65	0.4	<b>76</b>	35.0	0.59	0.3	<b>82</b>	22.5	5500	3800
	50 <sup>(1)</sup>	0.66	0.5	<b>53</b>	60	0.61	0.4	<b>73</b>	28.0	0.55	0.3	<b>77</b>	18	5500	3800
055	14.5	0.86	2.1	<b>85</b>	206.9	0.81	1.2	<b>101</b>	96.6	0.75	0.9	<b>112</b>	62.1	6700	4600
	19.5	0.83	1.7	<b>88</b>	153.8	0.78	1.0	<b>105</b>	71.8	0.72	0.8	<b>116</b>	46.2	6700	4600
	24.5 <sup>(1)</sup>	0.8	1.4	<b>92</b>	122.4	0.75	0.8	<b>108</b>	57.1	0.69	0.7	<b>120</b>	36.7	6700	4600
	30	0.76	1.4	<b>100</b>	100	0.71	0.8	<b>118</b>	46.7	0.65	0.6	<b>130</b>	30	6700	4600
	40 <sup>(1)</sup>	0.71	1.0	<b>94</b>	75	0.66	0.6	<b>111</b>	35.0	0.6	0.5	<b>121</b>	22.5	6700	4600
	45	0.69	1.0	<b>93</b>	67	0.64	0.6	<b>110</b>	31.1	0.58	0.5	<b>120</b>	20	6700	4600
	50 <sup>(1)</sup>	0.67	0.9	<b>92</b>	60	0.62	0.5	<b>108</b>	28.0	0.56	0.4	<b>117</b>	18	6700	4600
	60	0.63	0.8	<b>94</b>	50	0.58	0.5	<b>110</b>	23.3	0.52	0.4	<b>119</b>	15	6700	4600
063	14.5	0.87	2.5	<b>103</b>	206.9	0.82	1.7	<b>140</b>	96.6	0.76	1.3	<b>155</b>	62.1	8400	8100
	19.5	0.85	1.8	<b>100</b>	153.8	0.80	1.2	<b>135</b>	71.8	0.74	0.9	<b>148</b>	46.2	8400	8100
	24.5 <sup>(1)</sup>	0.82	1.4	<b>92</b>	122.4	0.77	1.0	<b>130</b>	57.1	0.71	0.7	<b>137</b>	36.7	8400	8100
	30	0.78	1.6	<b>120</b>	100	0.73	1.1	<b>160</b>	46.7	0.67	0.8	<b>175</b>	30	8400	8100
	40 <sup>(1)</sup>	0.74	1.1	<b>108</b>	75	0.69	0.8	<b>145</b>	35.0	0.63	0.6	<b>160</b>	22.5	8400	8100
	45	0.73	1.1	<b>106</b>	67	0.67	0.8	<b>140</b>	31.1	0.61	0.5	<b>120</b>	20	8400	8100
	50 <sup>(1)</sup>	0.70	0.9	<b>100</b>	60	0.65	0.6	<b>135</b>	28.0	0.59	0.5	<b>145</b>	18	8400	8100
	60	0.67	0.7	<b>95</b>	50	0.62	0.5	<b>130</b>	23.3	0.56	0.4	<b>138</b>	15	8400	8100
075	14.5	0.89	3.5	<b>150</b>	206.9	0.84	2.3	<b>200</b>	96.6	0.78	1.9	<b>235</b>	62.1	10000	10000
	19.5	0.86	2.9	<b>160</b>	153.8	0.81	1.9	<b>210</b>	71.8	0.75	1.5	<b>235</b>	46.2	10000	10000
	24.5 <sup>(1)</sup>	0.84	2.2	<b>150</b>	122.4	0.79	1.5	<b>200</b>	57.1	0.73	1.1	<b>215</b>	36.7	10000	10000
	30	0.8	2.2	<b>170</b>	100	0.75	1.5	<b>230</b>	46.7	0.69	1.2	<b>260</b>	30	10000	10000
	40 <sup>(1)</sup>	0.76	1.7	<b>165</b>	75	0.71	1.1	<b>220</b>	35.0	0.65	0.9	<b>240</b>	22.5	10000	10000
	45	0.74	1.6	<b>160</b>	67	0.69	1.1	<b>216</b>	31.1	0.63	0.8	<b>232</b>	20	10000	10000
	50 <sup>(1)</sup>	0.73	1.3	<b>150</b>	60	0.68	0.9	<b>210</b>	28.0	0.62	0.7	<b>220</b>	18	10000	10000
	60	0.69	1.1	<b>145</b>	50	0.64	0.8	<b>200</b>	23.3	0.58	0.6	<b>210</b>	15	10000	10000
090	14.5	0.9	6.3	<b>270</b>	206.9	0.85	4.1	<b>360</b>	96.6	0.79	3.3	<b>420</b>	62.1	15000	12300
	19.5	0.88	4.6	<b>260</b>	153.8	0.83	3.1	<b>355</b>	71.8	0.77	2.4	<b>390</b>	46.2	15000	12300
	24.5 <sup>(1)</sup>	0.86	3.7	<b>250</b>	122.4	0.81	2.5	<b>340</b>	57.1	0.75	1.9	<b>370</b>	36.7	15000	12300
	30	0.82	4.0	<b>310</b>	100	0.77	2.6	<b>410</b>	46.7	0.71	2.0	<b>460</b>	30	15000	12300
	40 <sup>(1)</sup>	0.79	2.7	<b>275</b>	75	0.74	1.8	<b>360</b>	35.0	0.68	1.4	<b>410</b>	22.5	15000	12300
	45	0.77	2.6	<b>270</b>	67	0.72	1.7	<b>350</b>	31.1	0.66	1.3	<b>400</b>	20	15000	12300
	50 <sup>(1)</sup>	0.76	2.2	<b>265</b>	60	0.71	1.4	<b>340</b>	28.0	0.65	1.1	<b>390</b>	18	15000	12300
	60	0.73	1.8	<b>245</b>	50	0.68	1.1	<b>320</b>	23.3	0.62	0.9	<b>350</b>	15	15000	12300

<sup>(1)</sup> 注意: 24.5,40,50,80,100 為補充速比,交期較長

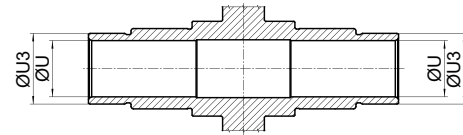
<sup>(1)</sup> Note: For adding ratio 24.5,40,50,80,100, it will take longer delivery lead time

# JDLB 系列尺寸圖

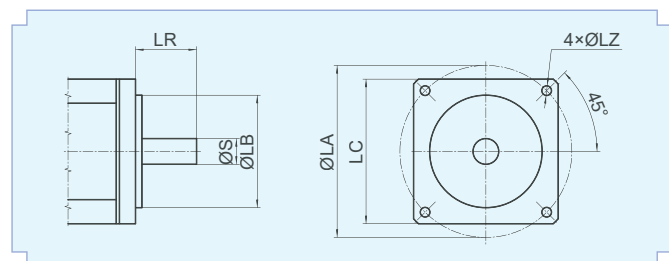
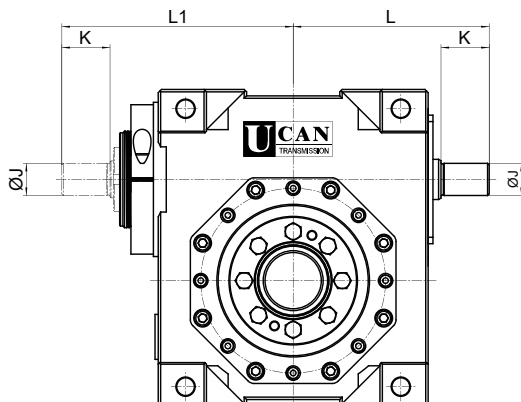
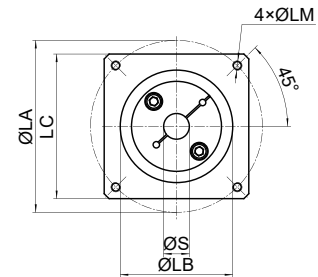
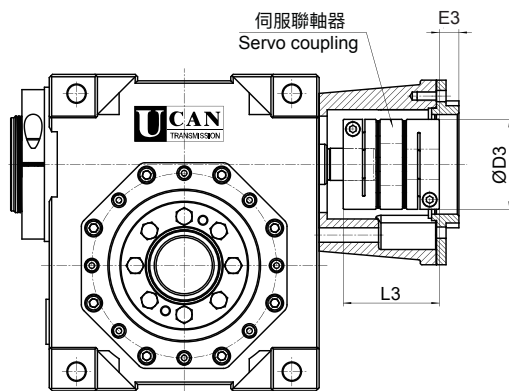
## Series dimensions charts



鎖緊環孔輸出/Hollow Output Bore With Shrink disc



雙鎖緊環孔輸出/Hollow Output Bore With double Shrink disc

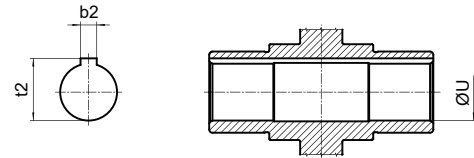
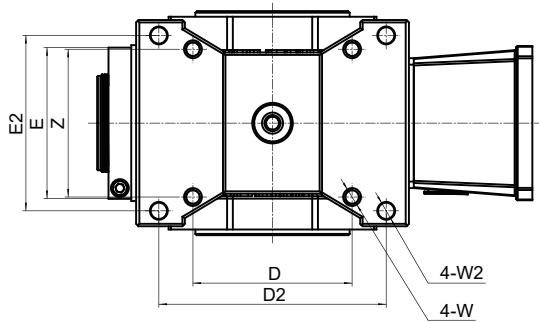
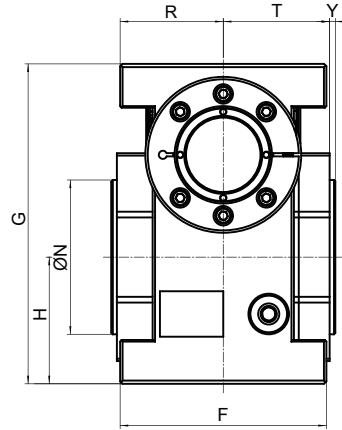
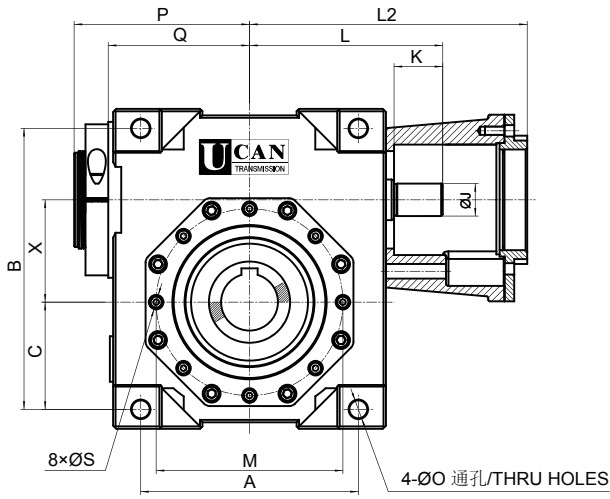


伺服電機示意圖/Servo motor

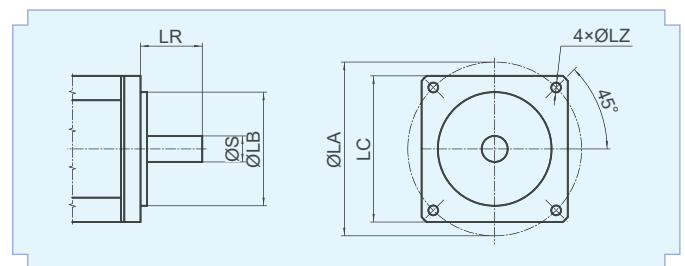
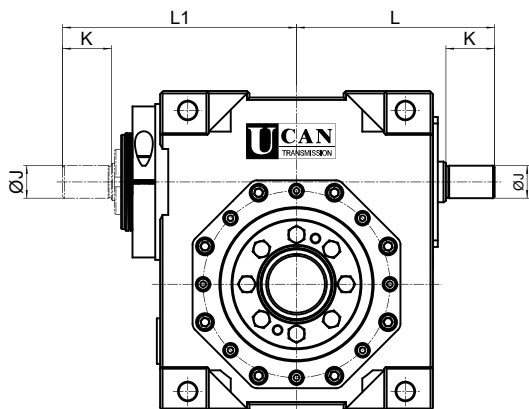
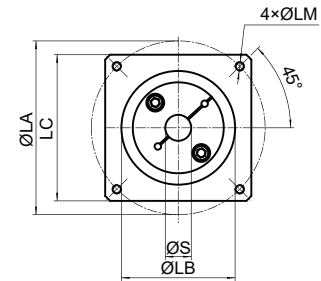
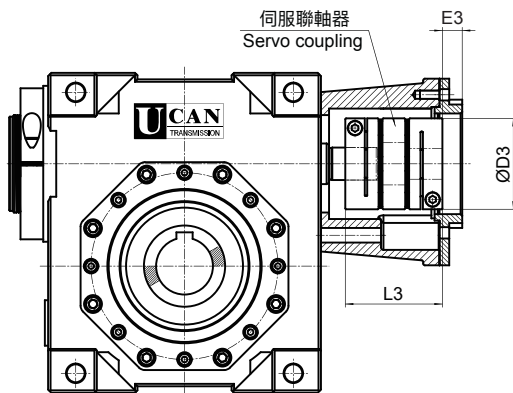
軸輸入/Input shaft

<b>JDLB</b>	<b>045</b>	<b>050</b>	<b>055</b>	<b>063</b>	<b>075</b>	<b>090</b>
<b>A</b>	108	108	120	134	172	186
<b>B</b>	135	138	155	173	208	234
<b>C</b>	53	53	61	66	82	91
<b>D</b>	81	81	90	98	136	141
<b>D2</b>	114	114	125	140	172	204
<b>D3</b>	44	44	56	56	68	68
<b>E</b>	68	68	78	91	110	130
<b>E2</b>	84	84	96	108	125	140
<b>E3</b>	5	5	6.5	6.5	6.5	6.5
<b>F</b>	100	100	112	127	148	170
<b>G</b>	153	156	175	197	232	264
<b>H</b>	62	62	71	78	94	106
<b>J(h6)</b>	15	15	18	20	24	28
<b>K</b>	24	24	28	30	35	35
<b>L</b>	98.5	98.5	111	122	147	157
<b>L1</b>	119.5	117.5	133	144	172	183
<b>L2</b>	103+LR	103+LR	116+LR	127+LR	152+LR	162+LR
<b>L3</b>	48	48	59.8	59.8	73.3	73.3
<b>M</b>	85	85	100	115	130	165
<b>N(h7)</b>	70	70	80	95	110	130
<b>O</b>	9	9	9	11	11	13
<b>P(max)</b>	91	91	100	108	129	139.5
<b>Q</b>	70.5	70.5	78	87	107	117.5
<b>R</b>	50	50	56	63.5	74	85
<b>S</b>	M8	M8	M8	M8	M10	M12
<b>T</b>	52	52	58	65.5	76	87
<b>T2</b>	78	78	87	96.5	110	124
<b>U(H7)</b>	25	25	30	35	40	50
<b>U3</b>	30	30	36	44	50	68
<b>V</b>	60	60	72	80	90	115
<b>W</b>	M8	M8	M8	M10	M10	M12
<b>W2</b>	9	9	9	10	12	14
<b>X</b>	45	50	55	63	75	90
<b>Y</b>	3	3	3.5	3.5	4	4
<b>Z</b>	86	86	86	93	108	108
<b>LA/LB/LC/LR/LM/S</b>	依伺服電機 /By servo motor					

**JDLB** 系列尺寸圖  
Series dimensions charts



鍵槽孔輸出/Hollow Output Bore With Keyway



伺服電機示意圖/Servo motor

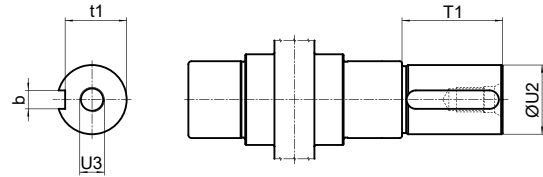
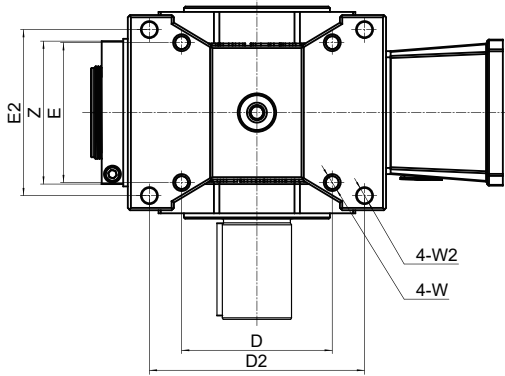
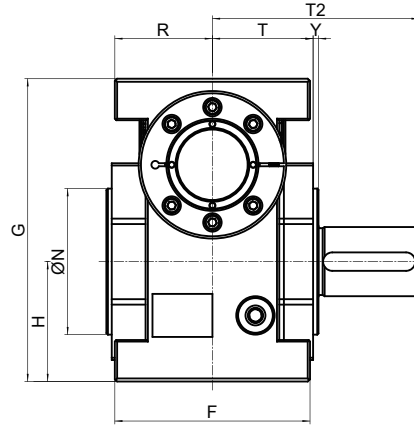
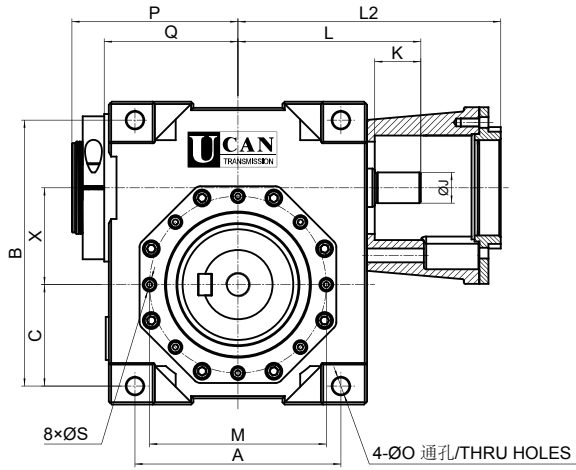
軸輸入/Input shaft



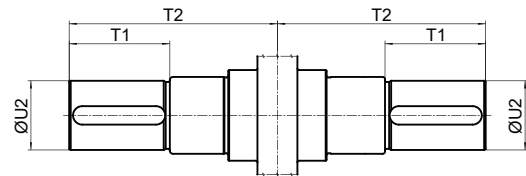
<b>JDLB</b>	<b>045</b>	<b>050</b>	<b>055</b>	<b>063</b>	<b>075</b>	<b>090</b>
<b>A</b>	108	108	120	134	172	186
<b>B</b>	135	138	155	173	208	234
<b>C</b>	53	53	61	66	82	91
<b>D</b>	81	81	90	98	136	141
<b>D2</b>	114	114	125	140	172	204
<b>D3</b>	44	44	56	56	68	68
<b>E</b>	68	68	78	91	110	130
<b>E2</b>	84	84	96	108	125	140
<b>E3</b>	5	5	6.5	6.5	6.5	6.5
<b>F</b>	100	100	112	127	148	170
<b>G</b>	153	156	175	197	232	264
<b>H</b>	62	62	71	78	94	106
<b>J(h6)</b>	15	15	18	20	24	28
<b>K</b>	24	24	28	30	35	35
<b>L</b>	98.5	98.5	111	122	147	157
<b>L1</b>	119.5	117.5	133	144	172	183
<b>L2</b>	103+LR	103+LR	116+LR	127+LR	152+LR	162+LR
<b>L3</b>	48	48	59.8	59.8	73.3	73.3
<b>M</b>	85	85	100	115	130	165
<b>N</b>	70	70	80	95	110	130
<b>O</b>	9	9	9	11	11	13
<b>P</b>	91	91	100	108	129	139.5
<b>Q</b>	70.5	70.5	78	87	107	117.5
<b>R</b>	50	50	56	63.5	74	85
<b>S</b>	M8	M8	M8	M8	M10	M12
<b>T</b>	52	52	58	65.5	76	87
<b>U(H7)</b>	25	25	30	35	40	50
<b>V</b>	60	60	72	80	90	115
<b>W</b>	M8	M8	M8	M10	M10	M12
<b>W2</b>	9	9	9	10	12	14
<b>X</b>	45	50	55	63	75	90
<b>Y</b>	3	3	3.5	3.5	4	4
<b>Z</b>	86	86	86	93	108	108
<b>t2</b>	28.3	28.3	33.3	38.3	43.3	53.8
<b>b2</b>	8	8	8	10	12	14
<b>LA/LB/LC/LR/LM/S</b>	依伺服電機 /By servo motor					

# JDLB 系列尺寸圖

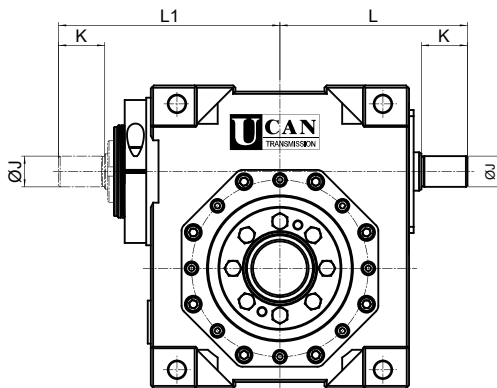
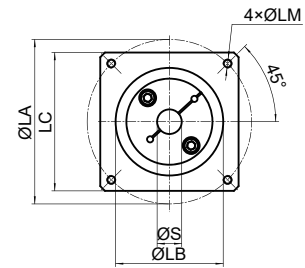
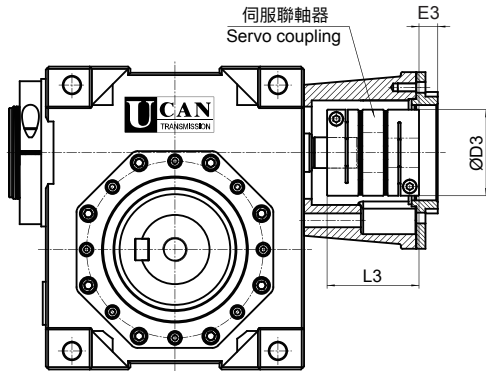
## Series dimensions charts



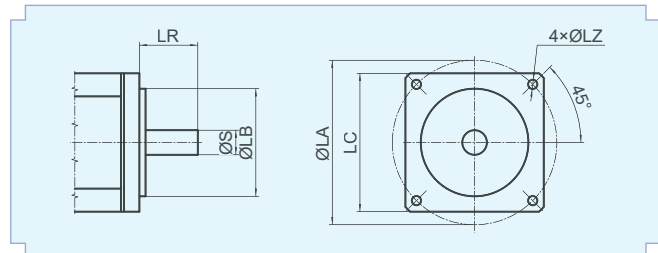
單輸出軸/Single output shaft



雙輸出軸/Double output shaft



軸輸入/Input shaft



伺服電機示意圖/Servo motor

<b>JDLB</b>	<b>045</b>	<b>050</b>	<b>055</b>	<b>063</b>	<b>075</b>	<b>090</b>
<b>A</b>	108	108	120	134	172	186
<b>B</b>	135	138	155	173	208	234
<b>C</b>	53	53	61	66	82	91
<b>D</b>	81	81	90	98	136	141
<b>D2</b>	114	114	125	140	172	204
<b>D3</b>	44	44	56	56	68	68
<b>E</b>	68	68	78	91	110	130
<b>E2</b>	84	84	96	108	125	140
<b>E3</b>	5	5	6.5	6.5	6.5	6.5
<b>F</b>	100	100	112	127	148	170
<b>G</b>	153	156	175	197	232	264
<b>H</b>	62	62	71	78	94	106
<b>J(h6)</b>	15	15	18	20	24	28
<b>K</b>	24	24	28	30	35	35
<b>L</b>	98.5	98.5	111	122	147	157
<b>L1</b>	119.5	117.5	133	144	172	183
<b>L2</b>	103+LR	103+LR	116+LR	127+LR	152+LR	162+LR
<b>L3</b>	48	48	59.8	59.8	73.3	73.3
<b>M</b>	85	85	100	115	130	165
<b>N</b>	70	70	80	95	110	130
<b>O</b>	9	9	9	11	11	13
<b>P</b>	91	91	100	108	129	139.5
<b>Q</b>	70.5	70.5	78	87	107	117.5
<b>R</b>	50	50	56	63.5	74	85
<b>S</b>	M8	M8	M8	M8	M10	M12
<b>T</b>	52	52	58	65.5	76	87
<b>T1</b>	55	55	60	70	75	100
<b>T2</b>	110	110	121.5	139	155	191
<b>U2(h6)</b>	35	35	40	45	50	65
<b>U3</b>	M12	M12	M16	M16	M16	M20
<b>V</b>	60	60	72	80	90	115
<b>W</b>	M8	M8	M8	M10	M10	M12
<b>W2</b>	9	9	9	10	12	14
<b>X</b>	45	50	55	63	75	90
<b>Y</b>	3	3	3.5	3.5	4	4
<b>Z</b>	86	86	86	93	108	108
<b>t1</b>	30	30	35	39.5	44.5	58
<b>b</b>	10	10	12	14	14	18
<b>LA/LB/LC/LR/LM/S</b>	依伺服電機 /By servo motor					



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型錄下載