

# 空心旋轉減速機 Hollow rotary reducer

## DG

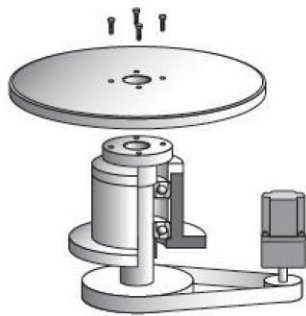
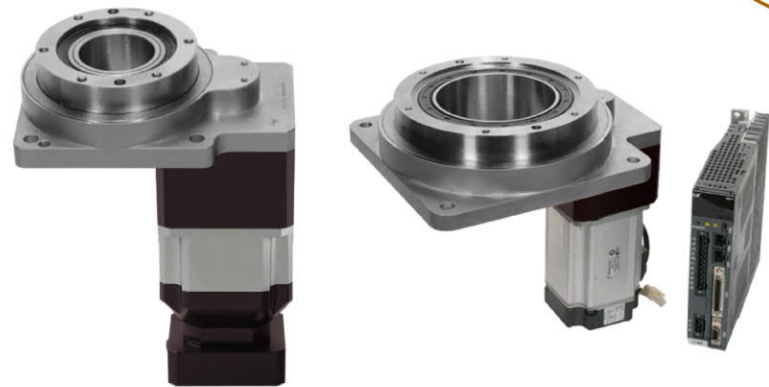
**直接連結**  
簡易設計提升信賴  
Direct connection  
Simple design to improve trust

**容易進行原點還原**  
使用原點傳感器套件 (選購配件)  
可輕易地安裝與實現原點還原  
Easy of origin regression  
regression thanks to the using the origin sensor  
kit ( Choose and purchase accessories )

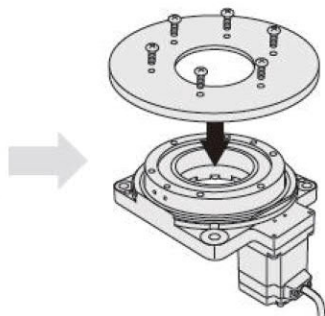
**大口徑中空  
旋轉式傳動裝置**  
簡潔的配綫與配管  
Hollow rotary transmission  
device with large diameter  
Simple wiring and piping

**定位精準度高**  
反復定位精度為 ± 15sec  
空轉 ( Lost Motion ) 為 2min  
角度傳達誤差為 4min  
High positioning precision  
The accuracy of repeated positioning is + 15sec  
Lost motion is 2mins  
Angle transmission error is 4mins

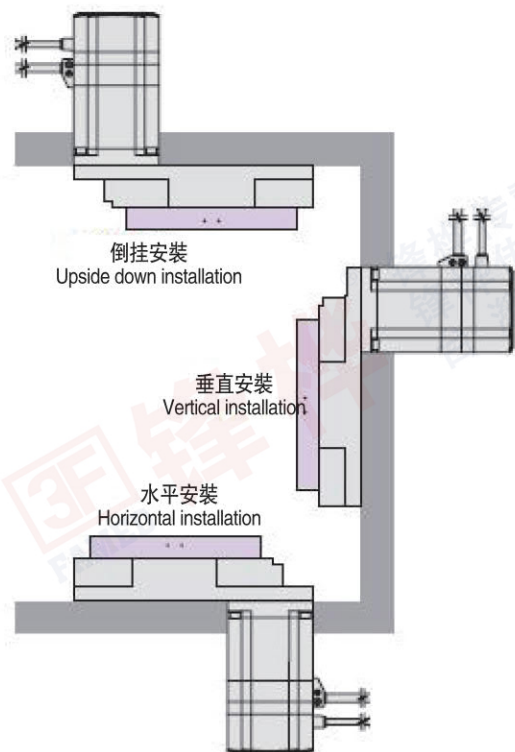
**短時間定位**  
可在短時間內實現慣性負載的定位  
Short time positioning  
The positioning of the inertial load  
can be realized in a short time



電動機+機構部件 (單獨設計\*採購)  
Motor + mechanism components  
(separate design \* procurement)



DG11系列series  
(一體化產品 Integrated product)



倒掛安裝  
Upside down installation

垂直安裝  
Vertical installation

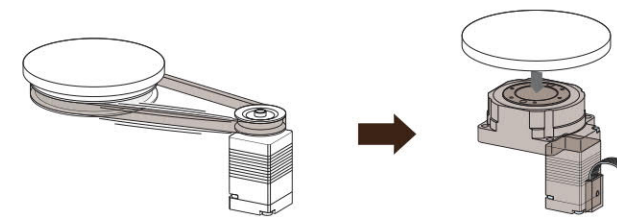
水平安裝  
Horizontal installation

# 中空旋轉式傳軒裝置 Hollow rotary transmission device

● 直接連結 → 簡易設計提升信賴  
Direct connection → Simple design to improve trust

中空的輸出平臺上,可直接安裝設備的工作臺及機器手臂。一般設備在通過皮帶輪等機構零件進行定位運行時,多受機構零件傳動效率的影響發生精度減低,或有維修機構零件的必要。而DG系列因不通過中間零件,便可直接安裝,所以除了能直接運用產品本身的精度以外,也可以免去維修的麻煩。

The hollow output platform can directly install the worktable and machine arm of the equipment. When the general equipment is positioned and run through the belt pulley and other parts, the precision of the transmission efficiency of the mechanism is reduced, or the necessity of maintaining the parts of the mechanism. The DG series can be directly installed because it does not pass through the intermediate parts, except that the accuracy of the product itself, it can also realize free-maintenance.

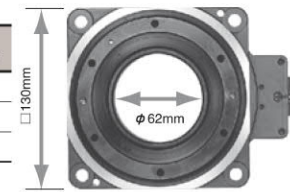


● 大口徑中空旋轉平臺 → 簡潔的配綫與配管  
Hollow rotary platform with large diameter → simple wiring and piping

因採用一段減速齒輪機構增大被驅動齒輪的直徑,實現了大口徑中空孔(貫穿)的設計。適用於拉綫複雜的配綫與配管等場合,使設備設計更為簡潔。

The design of a large diameter hollow hole (penetration) is realized by using one stage reduction gear mechanism to increase the diameter of the driven gear. It is suitable for the complicated wiring and piping application and so on, which makes the equipment design more succinct.

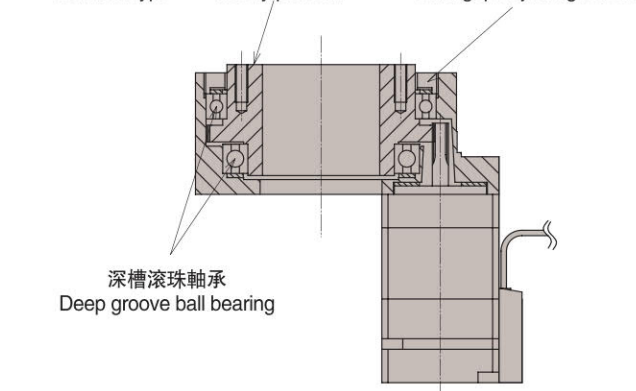
	安裝尺寸Size(mm)	中空直徑 Hollow diameter
<b>DG60</b>	60	28
<b>DG85R</b>	85	33
<b>DG130R</b>	130	62



例: DG130R的場合  
Eg: The application of DG130R.

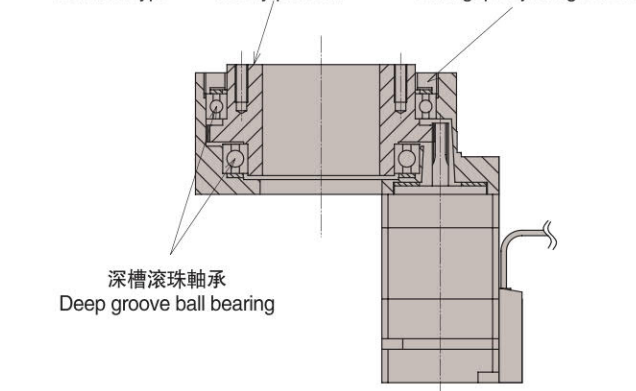
## 構造圖 Structure drawing

● 標準型(DG60) Standard type



深槽滾珠軸承  
Deep groove ball bearing

● 高剛性型 High rigidity type (DG85R、DG130R)

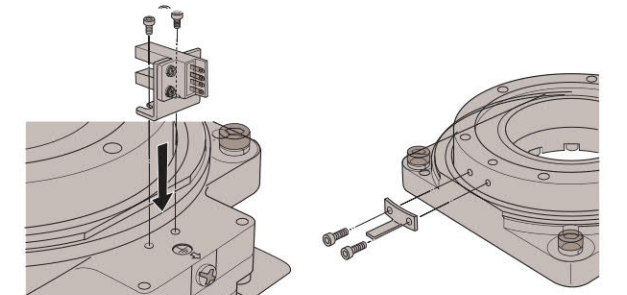


● 簡單原點還原 → 省却設計與零件採購的時間與勞力  
Simple origin regression → save time and labor for design and parts procurement.

為了能簡單實現原點還原運行,本公司還為客戶準備了原點傳感器套件(選購配件)。套件中包括了標出原點時需要的所有零件,可為用戶省去安裝傳感器所需的設計、制作、與零件採購等時間與勞力。

In order to simplify the operation of the origin regression, the company also prepares the original sensor kit for customers(Choose and purchase accessories). The kit includes all the parts required to mark the original point. It can save the users' time and labor of installing the sensor for the design, production, and part purchase.

( DG130R的傳感器、遮光板安裝例 )  
(DG130R sensor, example of shading plate installation )



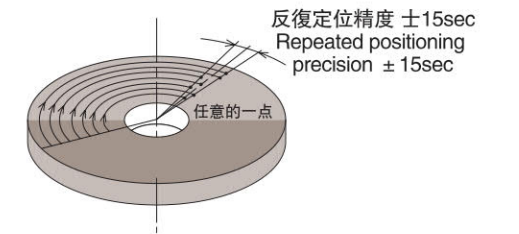
傳感器的安裝方式  
Installation of sensor

遮光板的安裝方式  
Installation of shading plate

● 定位精準度高 → 反復定位精度為 ± 15sec  
空轉為 ( Lost Motion ) 2min

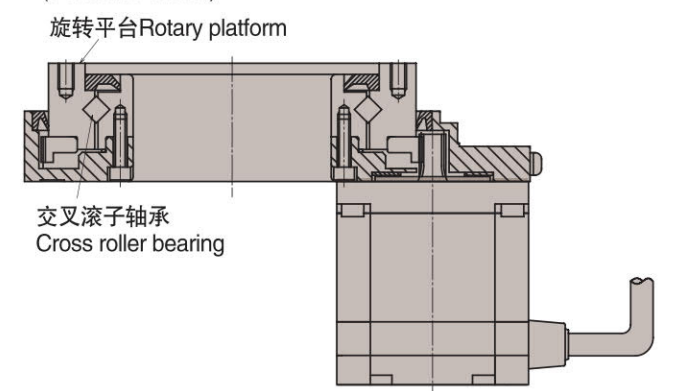
High Positioning accuracy → repeated positioning accuracy is + 15sec  
Lost Motion is 2mins

The mechanism part have no backlash, because the gearbox adopts micro precision gear, and it can eliminate the backlash through its own adjusting mechanism. The repeated positioning accuracy of single direction is 15sec; while the lost motion is 2mins of two direction positioning, so it can achieve high precision positioning.



反復定位精度 ± 15sec  
Repeated positioning precision ± 15sec

● 高剛性型 High rigidity type (DG85R、DG130R)

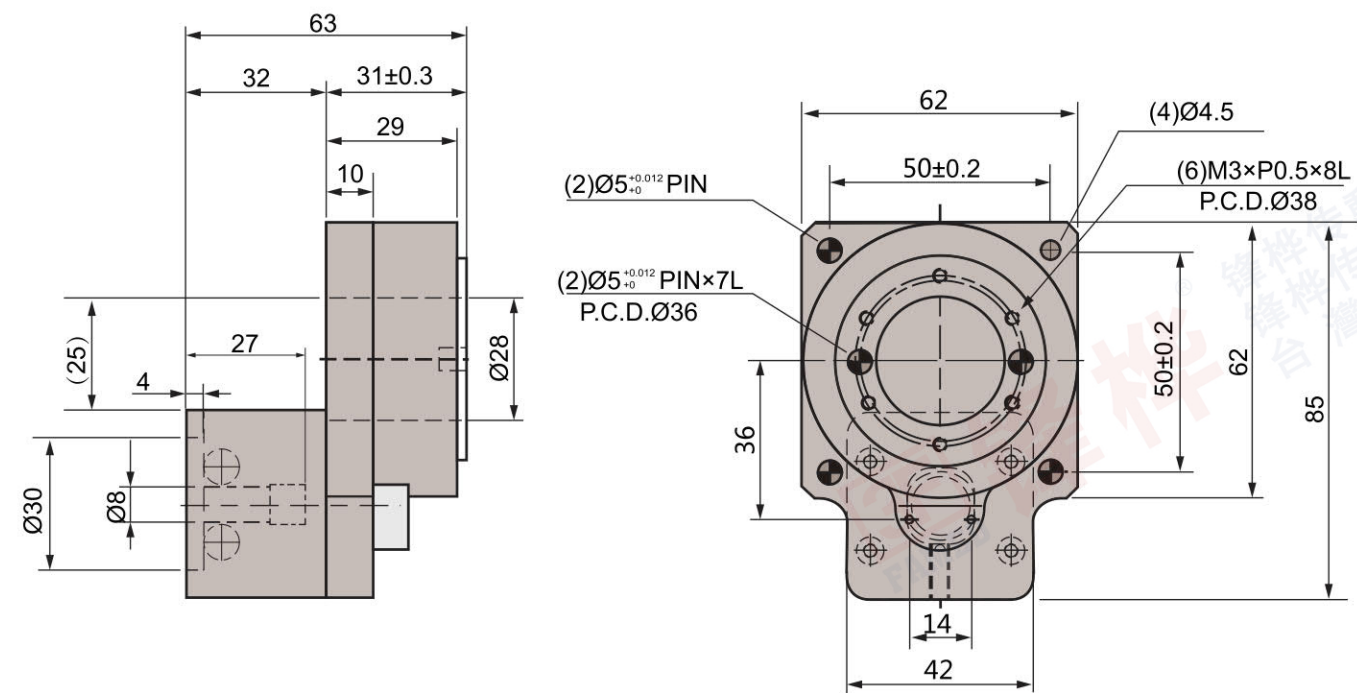


交叉滾子軸承  
Cross roller bearing

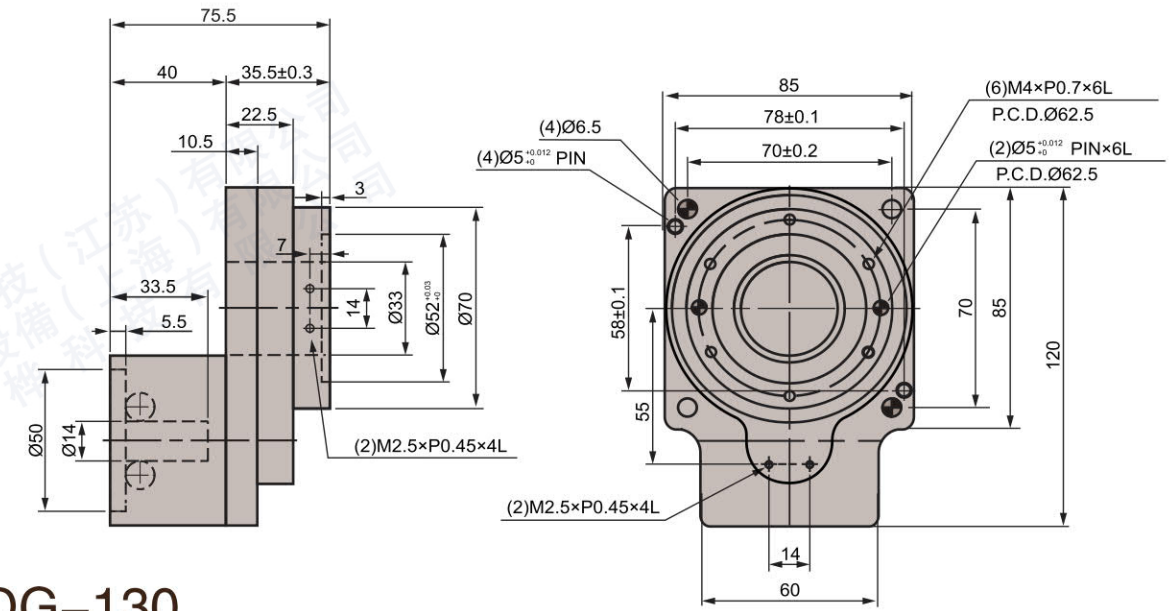
# 性能資料表 Technical parameter

规格 Specs	单位 Unit	DG-62	DG-85	DG-130	DG-200
匹配伺服馬達 Servo Motor	W	100W	200-400W	200-400W	750-1KW
容許扭矩 Permissible torque	Nm	3.5	20	20	65
轉動慣量 Moment of inertia	kgm <sup>2</sup>	2480 x 10 <sup>-6</sup>	2498 x 10 <sup>-6</sup>	9472 x 10 <sup>-6</sup>	93581 x 10 <sup>-6</sup>
允許轉速 Allowable speed	rpm	200	200	200	200
減速比 Ratio		1/5	1/5	1/10	1/10
定位精度 Positioning accuracy	sec	≤15	≤15	≤15	≤15
反復定位精度 Repeated positioning accuracy	sec	±10	±5	±5	±5
容許推力載重 Permissible thrust load	kgf	20	200	250	500
容許慣性載重 Permissible inertia load	Nm	10	60	60	200
旋轉平臺平行度 Parallelism of rotating platform	μm	±5	±2	±2	±2
旋轉平臺同心度 Concentricity of rotating platform	mm	±0.01	±0.01	±0.01	±0.01
重量 weight	kg	2.2	3	5.5	14

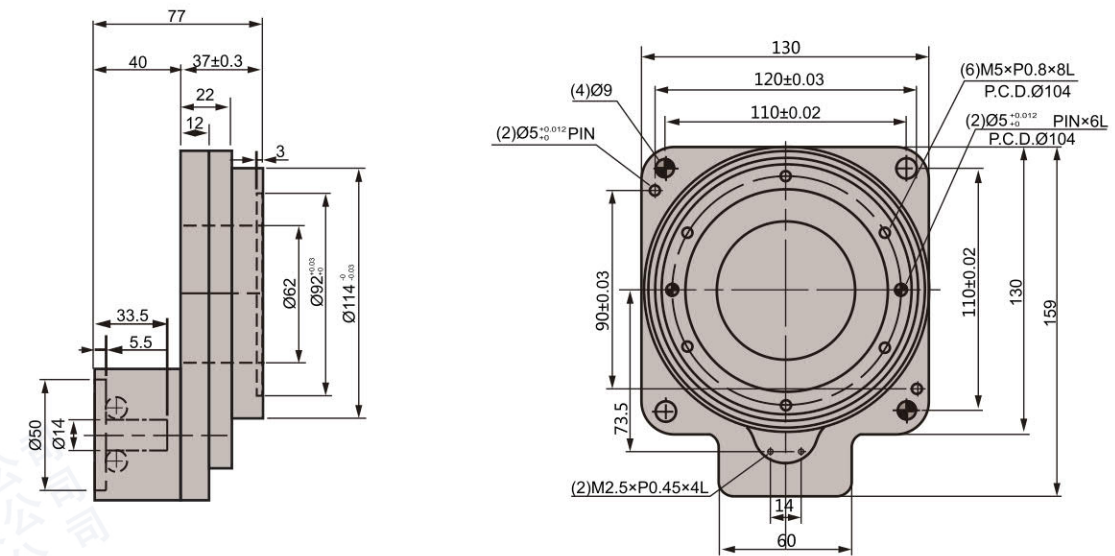
## DG-62



## DG-85



## DG-130



## DG-200

