

# Hollow Rotating Platform

## 中空旋轉平台

Hollow structure for convenient electrical installation  
中空結構，方便電器安裝

+

**GM**  
**SERIES**系列

+

Precise Positioning  
精確定位

The hollow rotating platform can be driven by different brand servo motors with high precision.

The operation is stable and the positioning is precision.

中空旋轉平台可以由不同品牌的伺服馬達驅動，具有高精度、操作穩定、定位精確。



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# DRIVES THE PRECISION



# GM Series GM 系列



www.gearko-tw.com



Model  
型號

GMN060  
GMN085  
GMN130  
GMN200  
GMN280  
GMN450

Reduction Ratio  
減速比

1:05  
1:10  
1:18

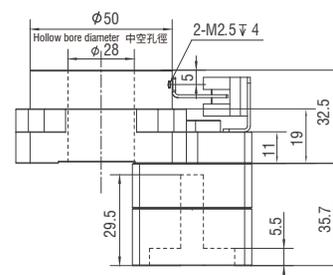
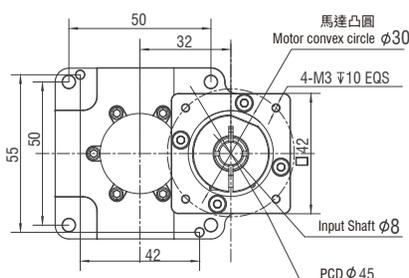
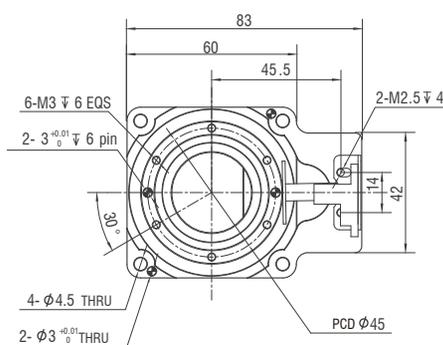
Motor Type  
馬達類型

ST: 步進馬達  
Stepping Motor  
SV: 交流伺服馬達  
AC Servo Motor

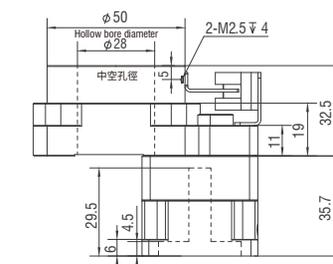
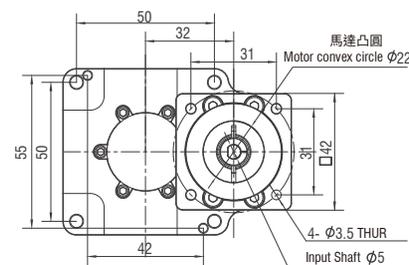
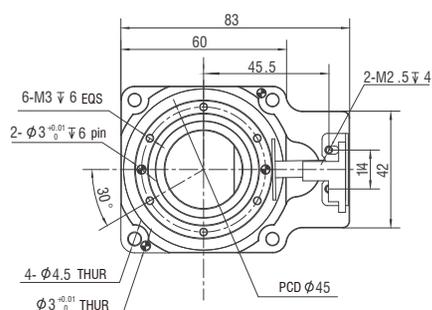


## GMN060 系列 Series

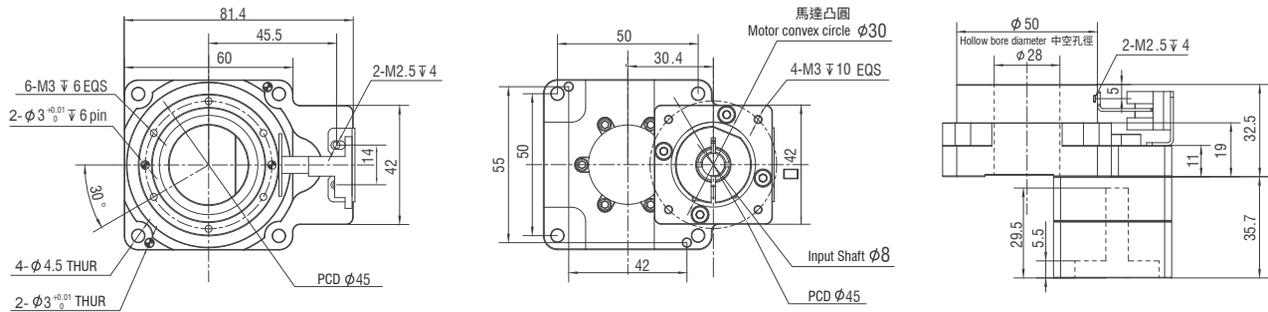
### 50/100w AC 伺服馬達 Servo Motor



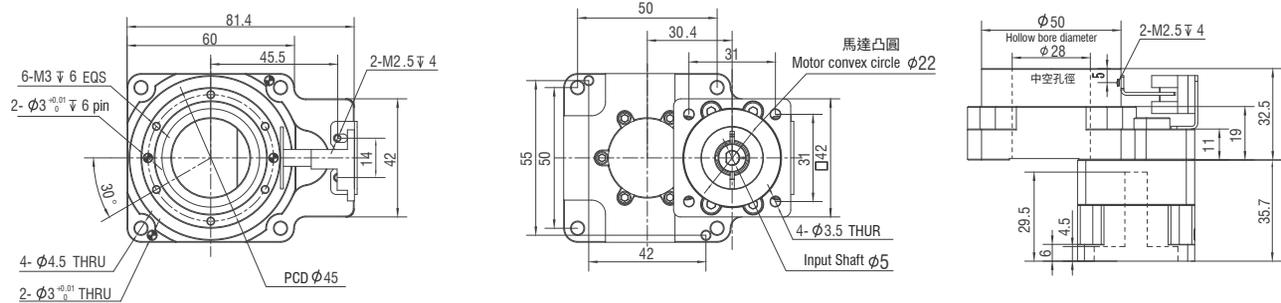
### 50/100w AC 伺服馬達 Servo Motor



## 42 型步進馬達 Stepping Motor



## 42 型步進馬達 Stepping Motor



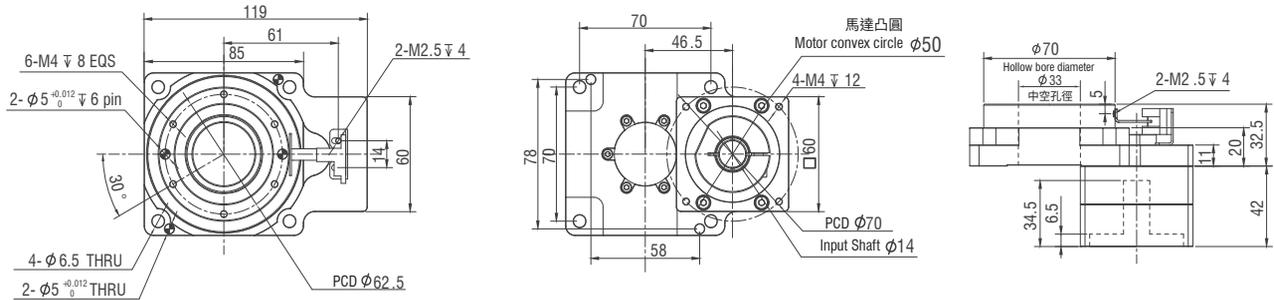
## Performance data 性能資料表

規格 Specification	GMN060 適用馬達 Compatible Motors				
	50/100w AC 伺服馬達 50/100w AC Servo Motor		42 型步進馬達 42 mm Stepping Motor		
軸承類型 Bearing type	交叉滾子軸承 Crossed roller bearing				
減速比 Speed ratio	1:5	1:10	1:5	1:10	
容許轉矩 Allowable torque	Nm	5	4	5	4
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)			
容許慣性載重 Allow inertial load	Nm	8	6	8	6
容許軸向負載 Allowable axial load	N	280			
定位精度 Positioning accuracy	arcmin	≤1			
重複定位精度 Repeated positioning accuracy	arcsec	≤15			
旋轉平台平行度 Rotating platform parallelism	mm	0.01			
旋轉平台同心度 Flatness of rotating platform	mm	0.01			
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)			
防護等級 Protection Class		IP40			
重量 Weight	kg	0.6			

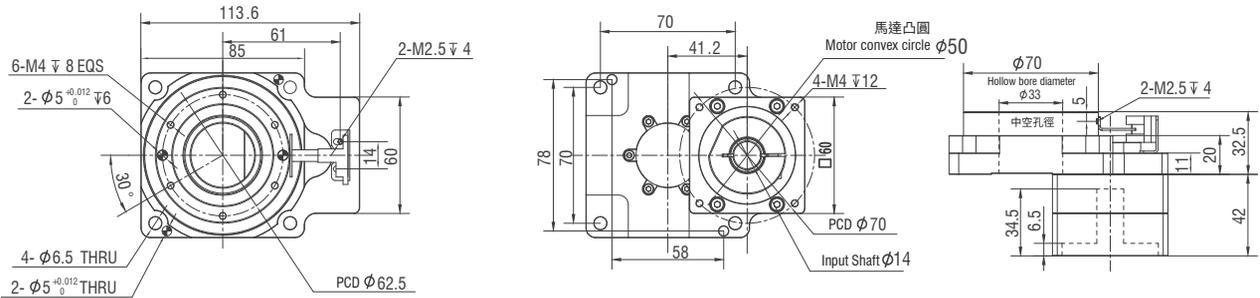
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### GMN085 系列 Series

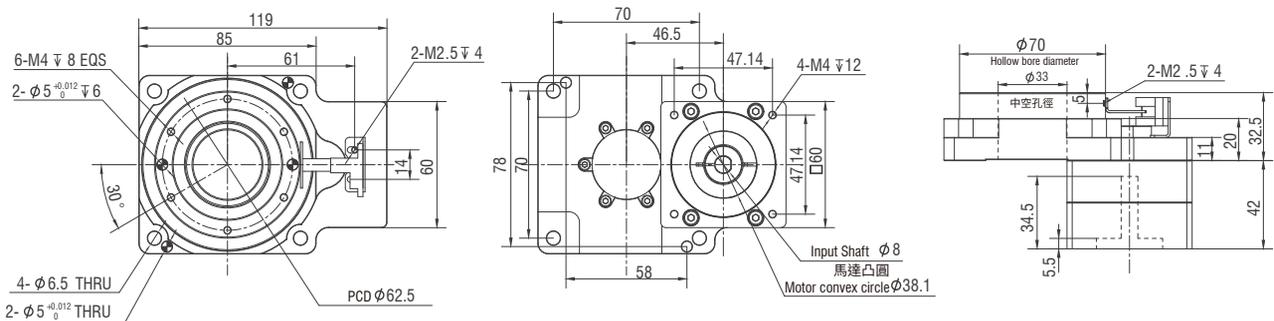
### 200/400w AC 伺服馬達 Servo Motor



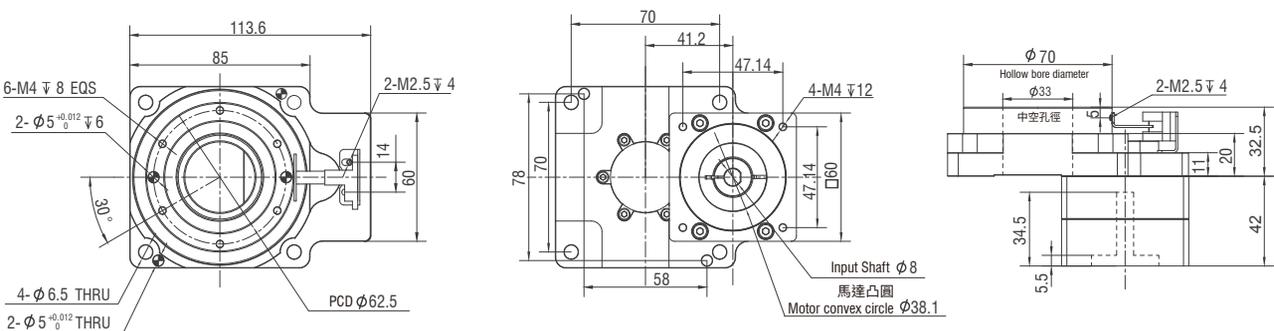
### 200/400w AC 伺服馬達 Servo Motor



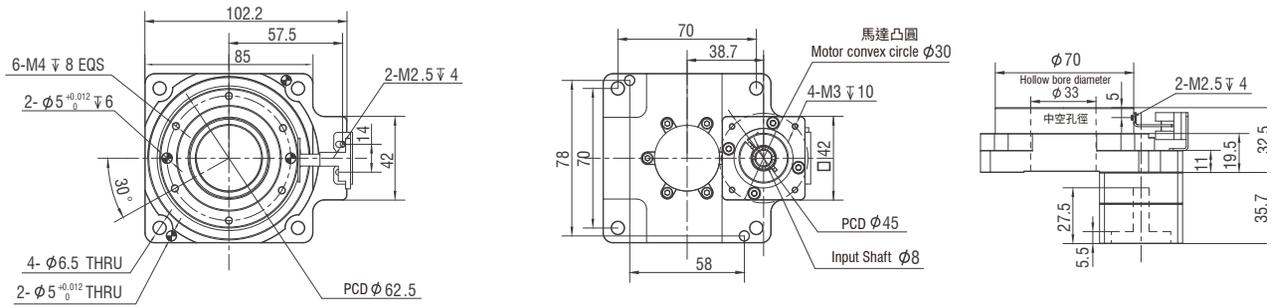
### 57 型步進馬達 Stepping Motor



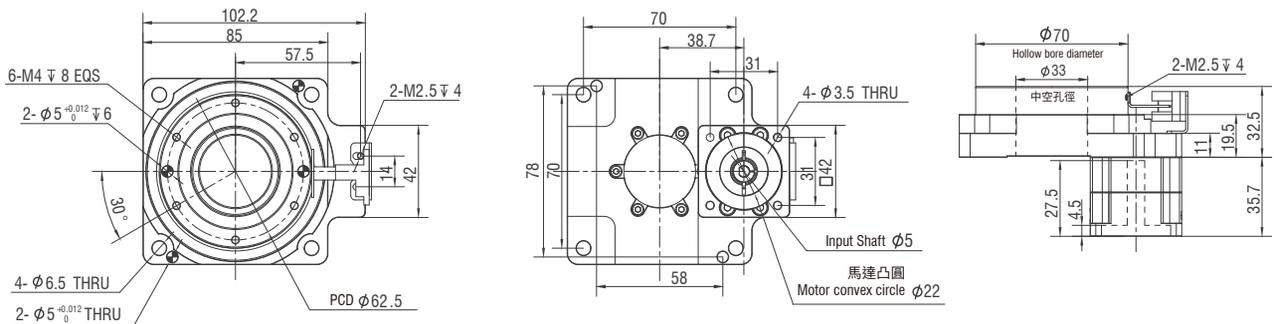
### 57 型步進馬達 Stepping Motor



## 50/100w AC 伺服馬達 Servo Motor



## 42 型步進馬達 Servo Motor

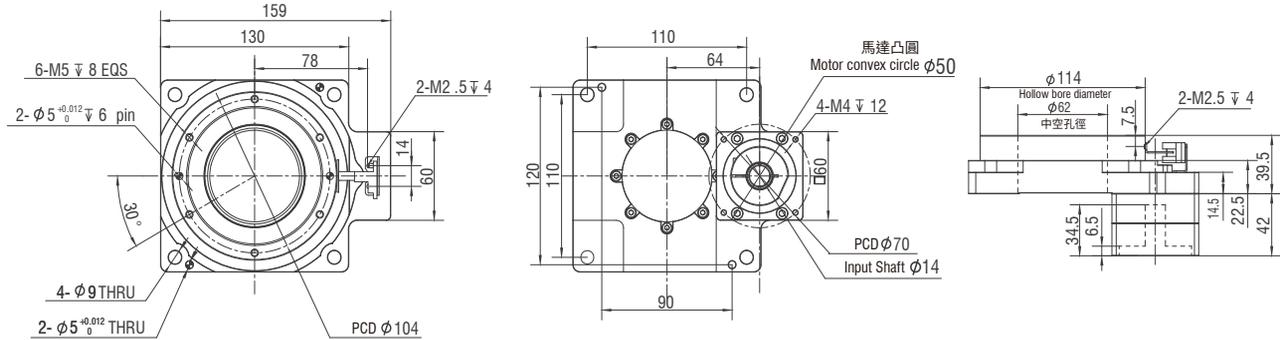


## Performance data 性能資料表

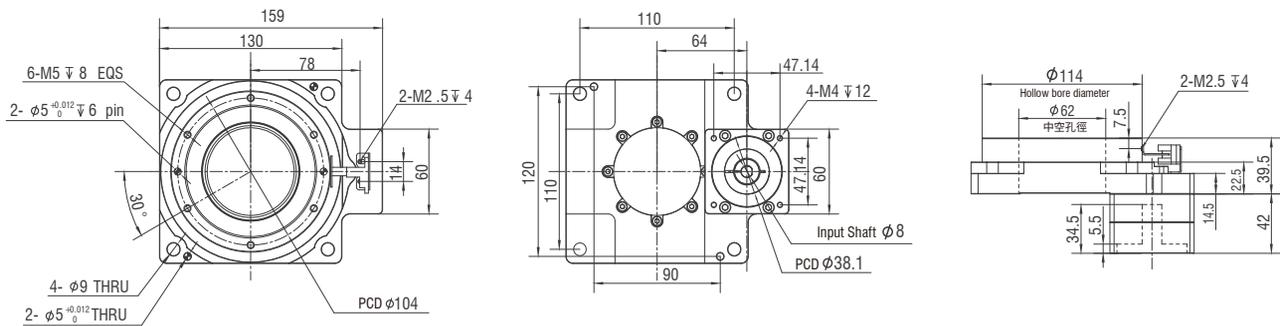
規格 Specification	GMN085 適用馬達 Compatible Motors				
	200/400w AC 伺服馬達 200/400w AC Servo Motor	57 型步進馬達 57 mm Stepping Motor	50/100w AC 伺服馬達 50/100w AC Servo Motor	42 型步進馬達 42mm Stepping Motor	
軸承類型 Bearing type	交叉滾子軸承 Crossed roller bearing				
減速比 Speed ratio	1:5	1:10	1:5	1:10	1:18
容許轉矩 Allowable torque	Nm	30	20	30	20
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)			
容許慣性載重 Allow inertial load	Nm	60	32	60	32
容許軸向負載 Allowable axial load	N	500			
定位精度 Positioning accuracy	arcmin	≤1			
重複定位精度 Repeated positioning accuracy	arcsec	≤15			
旋轉平台平行度 Rotating platform parallelism	mm	0.01			
旋轉平台同心度 Flatness of rotating platform	mm	0.01			
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)			
防護等級 Protection Class		IP40			
重量 Weight	kg	1.2			

### GMN130 系列 Series

#### 200/400w AC 伺服馬達 Servo Motor



### 57 型步進馬達 Stepping Motor



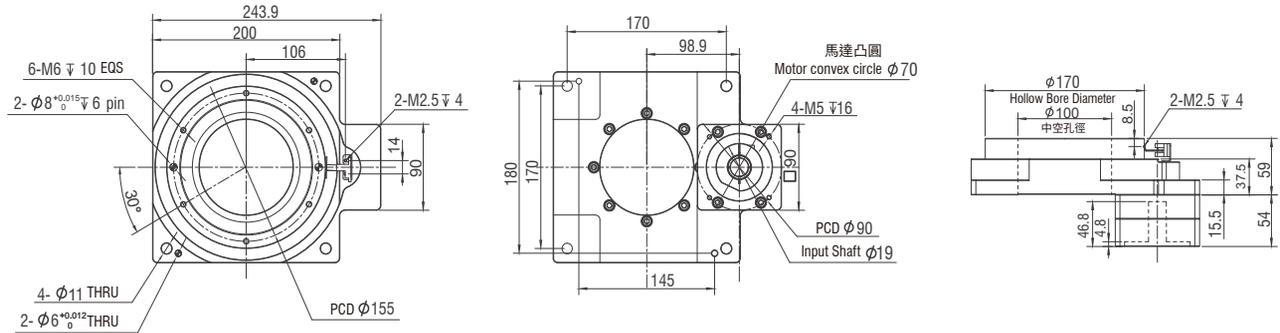
### Performance data 性能資料表

規格 Specification		GMN130 適用馬達 Compatible Motors			
		200/400w AC 伺服馬達 200/400w AC Servo Motor		57 型步進馬達 57 mm Stepping Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing			
減速比 Speed ratio		1:10	1:18	1:10	1:18
容許轉矩 Allowable torque	Nm	52	32	52	32
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)			
容許慣性載重 Allow inertial load	Nm	72	52	72	52
容許軸向負載 Allowable axial load	N	2000			
定位精度 Positioning accuracy	arcmin	≤1			
重複定位精度 Repeated positioning accuracy	arcsec	≤15			
旋轉平台平行度 Rotating platform parallelism	mm	0.01			
旋轉平台同心度 Flatness of rotating platform	mm	0.01			
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)			
防護等級 Protection Class		IP40			
重量 Weight	kg	2.5			

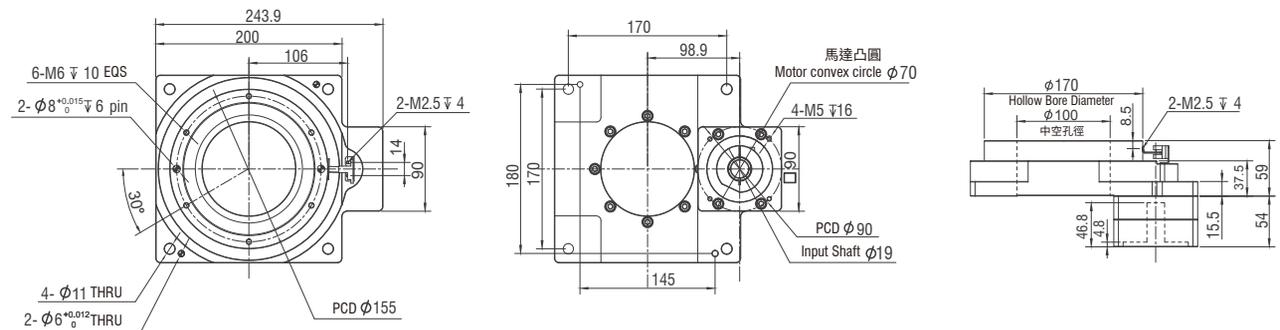
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## GMN200 系列 Series

### 750w AC 伺服馬達 Servo Motor



### 86 型步進馬達 Stepping Motor



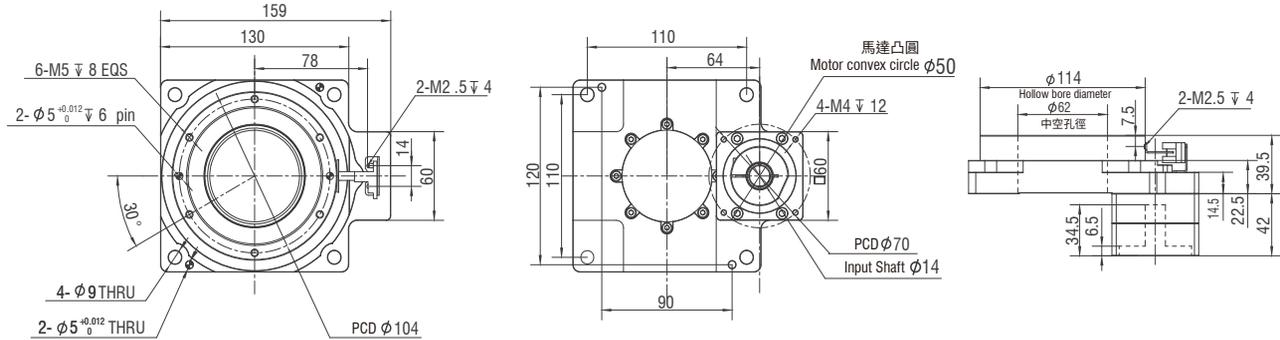
## Performance data 性能資料表

規格 Specification	GMN200 適用馬達 Compatible Motors			
	750w AC 伺服馬達 750w AC Servo Motor		86 型步進馬達 86 mm Stepping Motor	
軸承類型 Bearing type	交叉滾子軸承 Crossed roller bearing			
減速比 Speed ratio		1:10	1:18	1:10 1:18
容許轉矩 Allowable torque	Nm	90	60	90 60
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)		
容許慣性載重 Allow inertial load	Nm	135	92	135 92
容許軸向負載 Allowable axial load	N	4000		
定位精度 Positioning accuracy	arcmin	≤1		
重複定位精度 Repeated positioning accuracy	arcsec	≤15		
旋轉平台平行度 Rotating platform parallelism	mm	0.01		
旋轉平台同心度 Flatness of rotating platform	mm	0.01		
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)		
防護等級 Protection Class		IP40		
重量 Weight	kg	8		

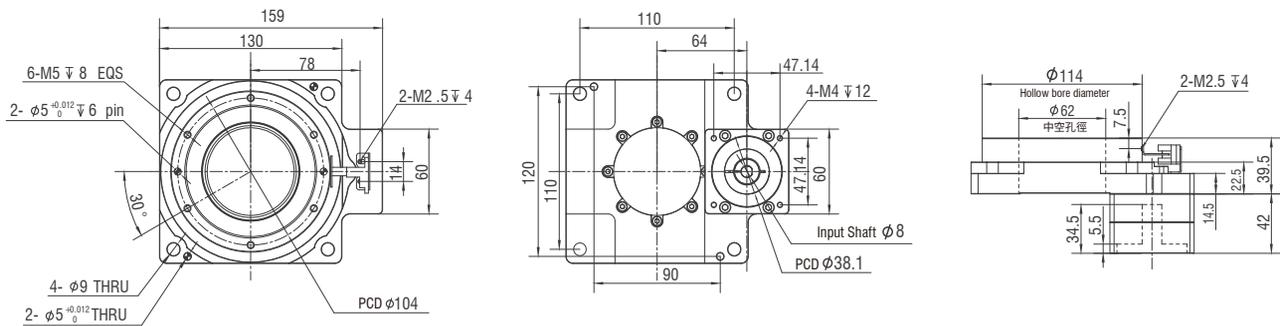
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### GMN280 系列 Series

#### 1500w AC 伺服馬達 Servo Motor



### 110 型步進馬達 Stepping Motor



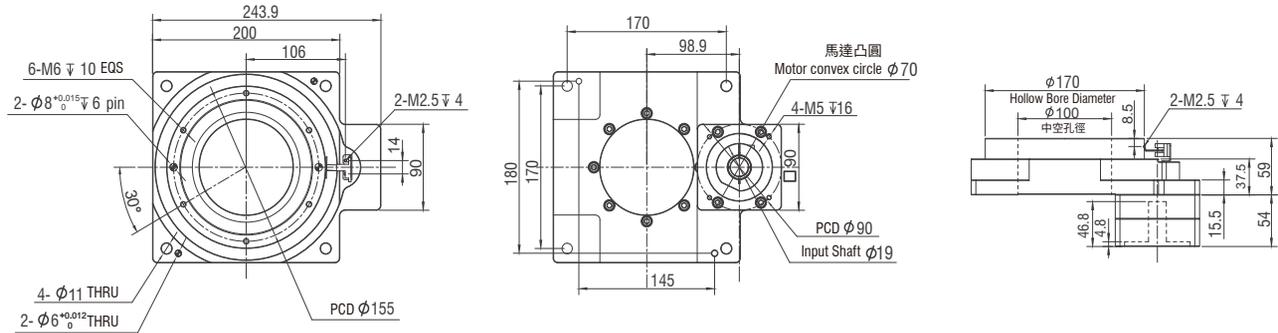
### Performance data 性能資料表

規格 Specification		GMN280 適用馬達 Compatible Motors			
		1500w AC 伺服馬達 1500w AC Servo Motor		110 型步進馬達 110 mm Stepping Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing			
減速比 Speed ratio		1:10	1:18	1:10	1:18
容許轉矩 Allowable torque	Nm	126	100	126	100
允許盤面輸出速度 Allowable disk output speed	rpm	≤200/min (間歇運轉 Intermittent Operation)			
容許慣性載重 Allow inertial load	Nm	350	300	350	300
容許軸向負載 Allowable axial load	N	7500			
定位精度 Positioning accuracy	arcmin	≤1			
重複定位精度 Repeated positioning accuracy	arcsec	≤20			
旋轉平台平行度 Rotating platform parallelism	mm	0.01			
旋轉平台同心度 Flatness of rotating platform	mm	0.01			
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)			
防護等級 Protection Class		IP40			
重量 Weight	kg	19			

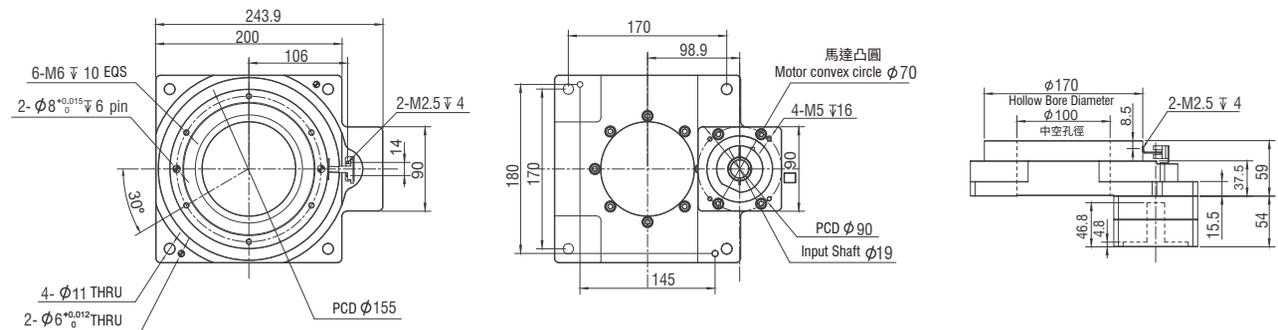
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## GMN350 系列 Series

### 1500w AC 伺服馬達 Servo Motor



### 1500w AC 伺服馬達 Servo Motor



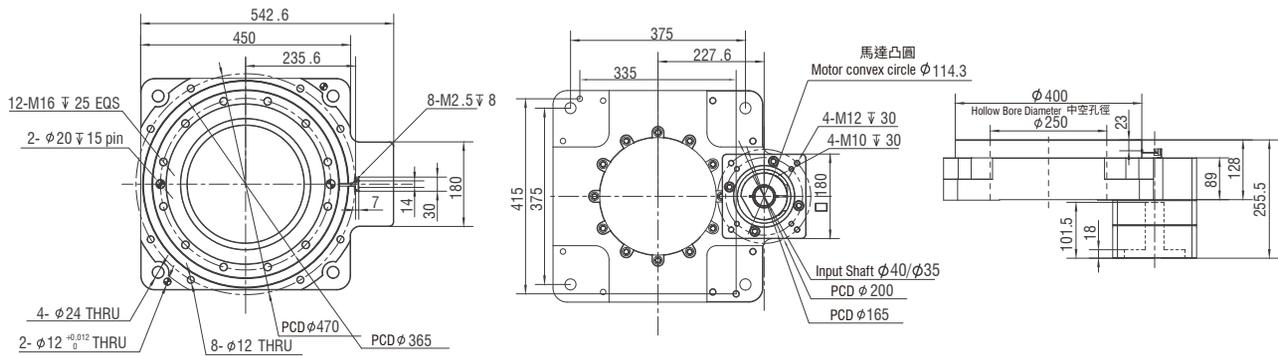
## Performance data 性能資料表

規格 Specification	GMN350 適用馬達 Compatible Motors	
	1500w AC 伺服馬達 1500w AC Servo Motor	
軸承類型 Bearing type	交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio	1:10	1:18
容許轉矩 Allowable torque	Nm 356	356
允許盤面輸出速度 Allowable disk output speed	rpm	≤200/min (間歇運轉 Intermittent Operation)
容許慣性載重 Allow inertial load	Nm 450	356
容許軸向負載 Allowable axial load	N 10000	11500
定位精度 Positioning accuracy	arcmin	≤1.5
重複定位精度 Repeated positioning accuracy	arcsec	≤20
旋轉平台平行度 Rotating platform parallelism	mm	0.02
旋轉平台同心度 Flatness of rotating platform	mm	0.02
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)
防護等級 Protection Class		IP40
重量 Weight	kg	41

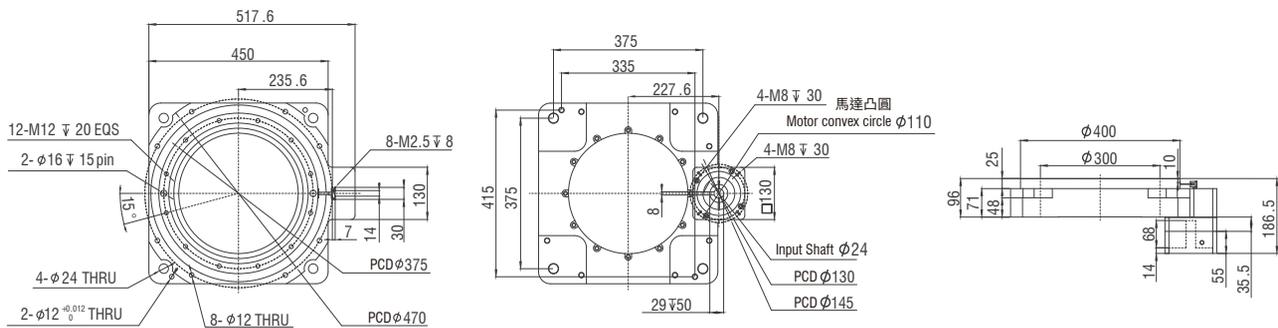
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### GMN450/450B 系列 Series

### 1500w AC 伺服馬達 Servo Motor



### 110 型步進馬達 Stepping Motor

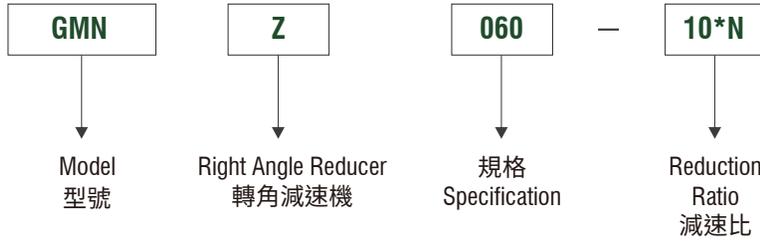


## Performance data 性能資料表

規格 Specification		GMN450/450B 適用馬達 Compatible Motors	
		3KW AC 伺服馬達 3KW AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio		1:10	
容許轉矩 Allowable torque	Nm	456	
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)	
容許慣性載重 Allow inertial load	Nm	600	
容許軸向負載 Allowable axial load	N	15000	
定位精度 Positioning accuracy	arcmin	≤2	
重複定位精度 Repeated positioning accuracy	arcsec	≤20	
旋轉平台平行度 Rotating platform parallelism	mm	0.02	
旋轉平台同心度 Flatness of rotating platform	mm	0.02	
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)	
防護等級 Protection Class		IP40	
重量 Weight	kg	80	

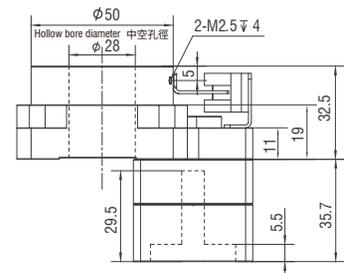
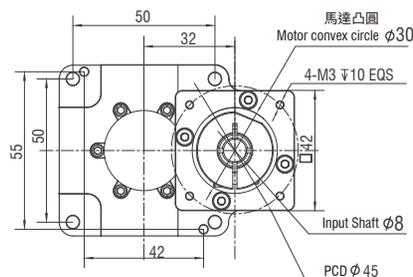
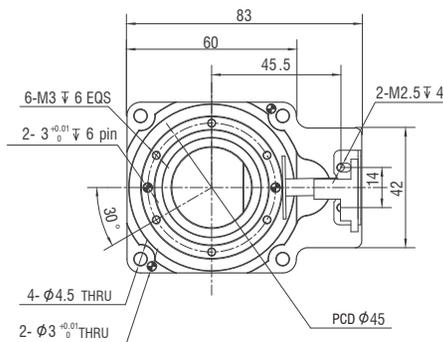
規格 Specification		GMN450/450B 適用馬達 Compatible Motors	
		1.5KW AC 伺服馬達 1.5KW AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio		1:10	
容許轉矩 Allowable torque	Nm	380	
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)	
容許慣性載重 Allow inertial load	Nm	490	
容許軸向負載 Allowable axial load	N	15000	
定位精度 Positioning accuracy	arcmin	≤2	
重複定位精度 Repeated positioning accuracy	arcsec	≤20	
旋轉平台平行度 Rotating platform parallelism	mm	0.02	
旋轉平台同心度 Flatness of rotating platform	mm	0.02	
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)	
防護等級 Protection Class		IP40	
重量 Weight	kg	47	

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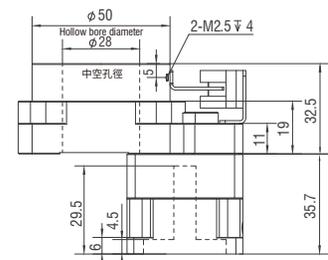
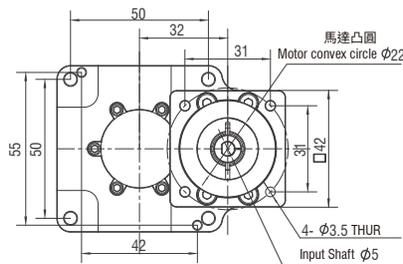
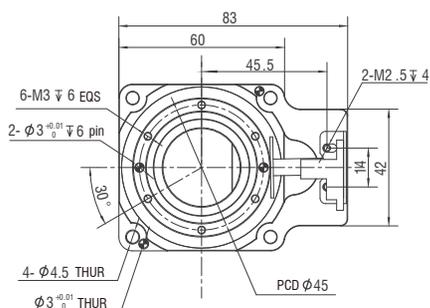


### GMNZ060 系列 Series

#### GMNZ060-0.5\*N



#### GMNZ060-10\*N



## Performance data 性能資料表

規格 Specification		GMNZ060 適用馬達 Compatible Motors	
		50/100w AC 伺服馬達 50/100w AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio		1:5	1:10
容許轉矩 Allowable torque	Nm	5	4
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)	
容許慣性載重 Allow inertial load	Nm	8	6
容許軸向負載 Allowable axial load	N	280	280
定位精度 Positioning accuracy	arcmin	≤1	
重複定位精度 Repeated positioning accuracy	arcsec	≤15	
旋轉平台平行度 Rotating platform parallelism	mm	0.01	
旋轉平台同心度 Flatness of rotating platform	mm	0.01	
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)	
防護等級 Protection Class		IP40	
重量 Weight	kg	0.6	

規格 Specification		減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-042	
額定輸出扭矩 Rated Output Torque (Nm)	2	12		
	3	7		
	5	2.5		
急停扭矩 Emergent Stop Torque	Nm	2 倍於 T2N/2 2 times T2N/2		
額定輸入轉速 Rated Input Speed	rpm	1500		
最大輸入轉速 Maximum input speed	rpm	2500		
回程間隙 Backlash	arcmin	≤5		
扭轉剛性 Torsional Rigidity	Nm/arcmin	1.2		
容許徑向力 Maximum Radial Force	N	300		
容許軸向力 Maximum Axial Force	N	150		
使用壽命 Service life	hr	20000 (連續運轉降低使用壽命 50% Service life may be reduced by 50% under continuous operation.)		
效率 Efficiency	%	96		
使用溫度 Operating Temperature	°C	-10~90		
防護等級 Protection Class		IP65		
潤滑 Lubrication		合成潤滑油脂 Synthetic Grease		
噪音 Noise	dB	≤62		

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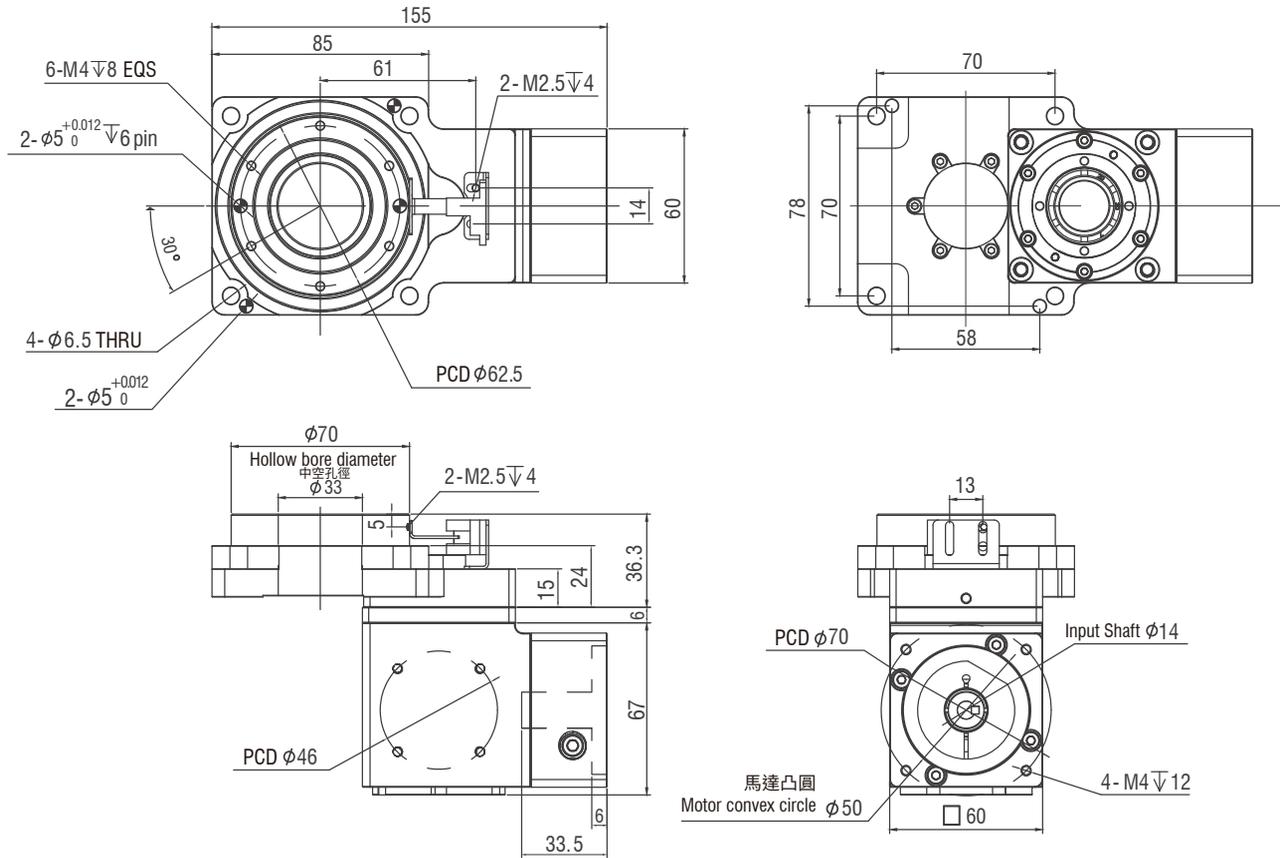
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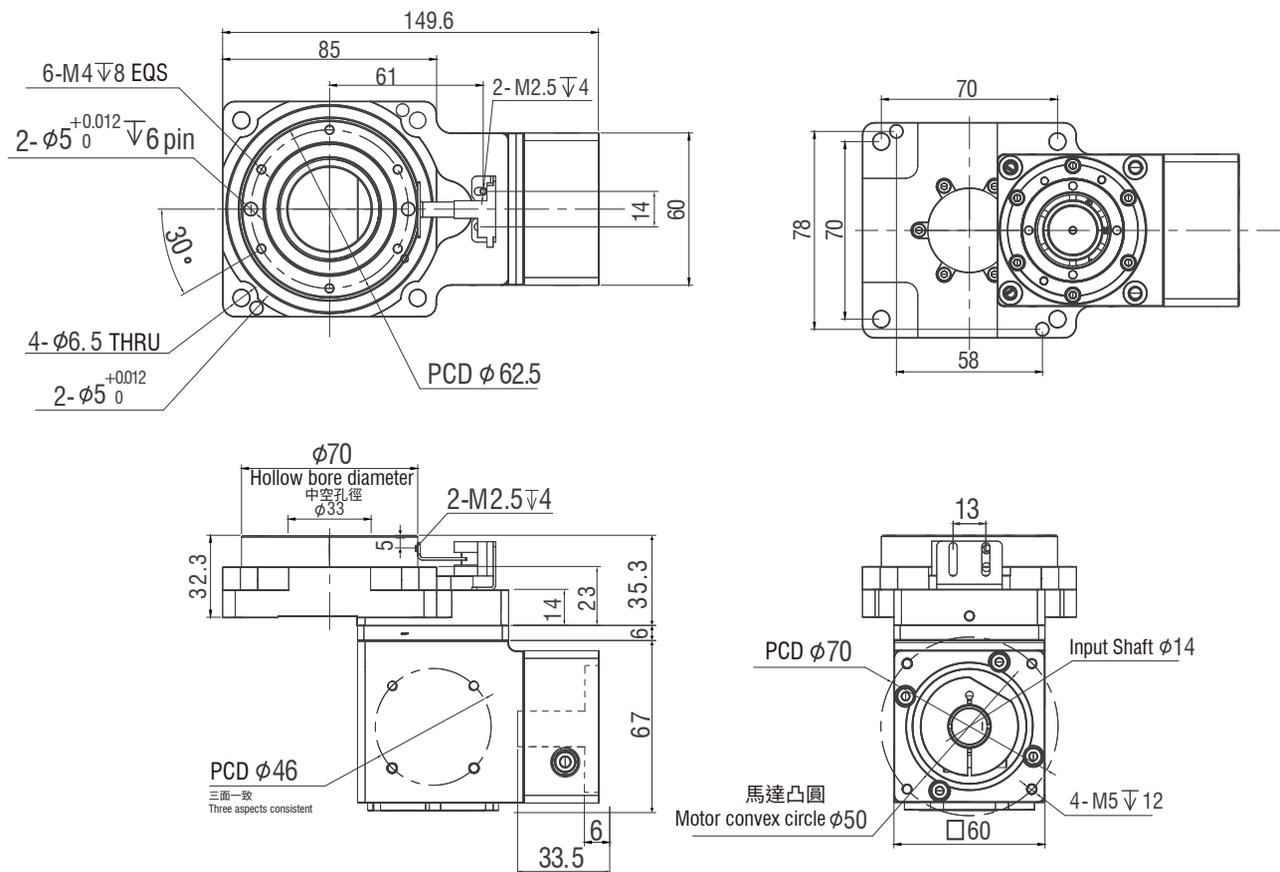
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## GMNZ085 系列 Series

### GMNZ085-0.5\*N



### GMN085-10\*N



## Performance data 性能資料表

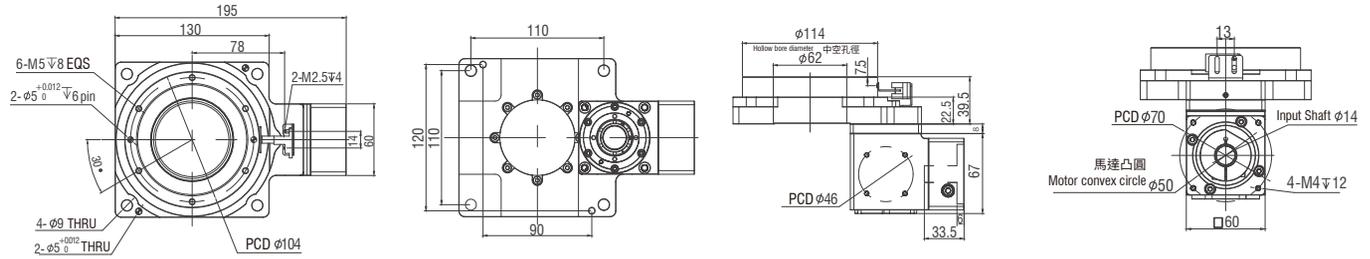
規格 Specification		GMNZ085 適用馬達 Compatible Motors	
		200/400w AC 伺服馬達 200/400w AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio		1:5	1:10
容許轉矩 Allowable torque	Nm	30	20
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)	
容許慣性載重 Allow inertial load	Nm	60	32
容許軸向負載 Allowable axial load	N	500	500
定位精度 Positioning accuracy	arcmin	≤1	
重複定位精度 Repeated positioning accuracy	arcsec	≤15	
旋轉平台平行度 Rotating platform parallelism	mm	0.01	
旋轉平台同心度 Flatness of rotating platform	mm	0.01	
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)	
防護等級 Protection Class		IP40	
重量 Weight	kg	1.2	

規格 Specification		減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-060	
額定輸出扭矩 Rated Output Torque (Nm)	2	32		
	3	24		
	5	8		
急停扭矩 Emergent Stop Torque	Nm	2 倍於 T2N/2 2 times T2N/2		
額定輸入轉速 Rated Input Speed	rpm	1000		
最大輸入轉速 Maximum input speed	rpm	2500		
回程間隙 Backlash	arcmin	≤5		
扭轉剛性 Torsional Rigidity	Nm/arcmin	1.5		
容許徑向力 Maximum Radial Force	N	500		
容許軸向力 Maximum Axial Force	N	200		
使用壽命 Service life	hr	20000 (連續運轉降低使用壽命 50% Service life may be reduced by 50% under continuous operation.)		
效率 Efficiency	%	96		
使用溫度 Operating Temperature	°C	-10~90		
防護等級 Protection Class		IP65		
潤滑 Lubrication		合成潤滑油脂 Synthetic Grease		
噪音 Noise	dB	≤65		

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### GMNZ130 系列 Series

#### GMNZ130-10\*N



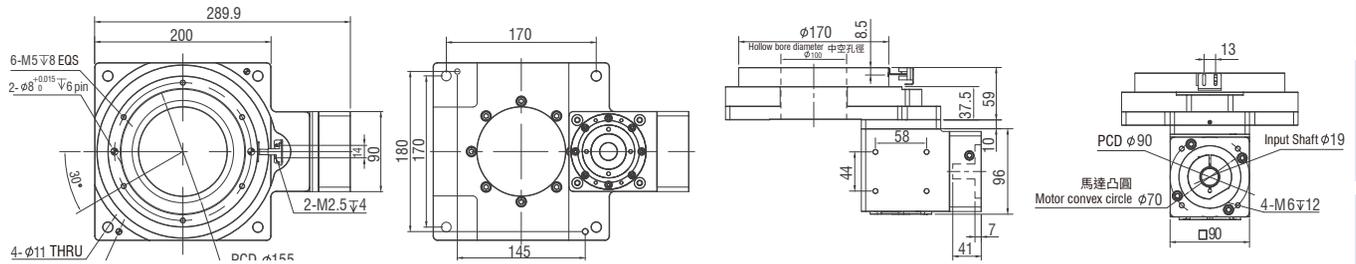
### Performance data 性能資料表

規格 Specification	GMNZ130 適用馬達 Compatible Motors	
	200/400w AC 伺服馬達 200/400w AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing
減速比 Speed ratio		1:10
容許轉矩 Allowable torque	Nm	52
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)
容許慣性載重 Allow inertial load	Nm	72
容許軸向負載 Allowable axial load	N	2000
定位精度 Positioning accuracy	arcmin	≤1
重複定位精度 Repeated positioning accuracy	arcsec	≤15
旋轉平台平行度 Rotating platform parallelism	mm	0.01
旋轉平台同心度 Flatness of rotating platform	mm	0.01
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)
防護等級 Protection Class		IP40
重量 Weight	kg	2.5

規格 Specification	減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-060	
		額定輸出扭矩 Rated Output Torque(Nm)	
		24	
		8	
急停扭矩 Emergent Stop Toruqe	Nm	2 倍於 T2N/2 2 times T2N/2	
額定輸入轉速 Rated Input Speed	rpm	1000	
最大輸入轉速 Maximum input speed	rpm	2500	
回程間隙 Backlash	arcmin	≤5	
扭轉剛性 Torsional Rigidity	Nm/arcmin	1.5	
容許徑向力 Maximum Radial Force	N	500	
容許軸向力 Maximum Axial Force	N	200	
使用壽命 Service life	hr	20000 (連續運轉降低使用壽命 50% Service life may be reduced by 50% under continuous operation.)	
效率 Efficiency	%	96	
使用溫度 Operating Temperature	°C	-10~90	
防護等級 Protection Class		IP65	
潤滑 Lubrication		合成潤滑油脂 Synthetic Grease	
噪音 Noise	dB	≤65	

# GMNZ200 系列 Series

## GMNZ200-10\*N



## Performance data 性能資料表

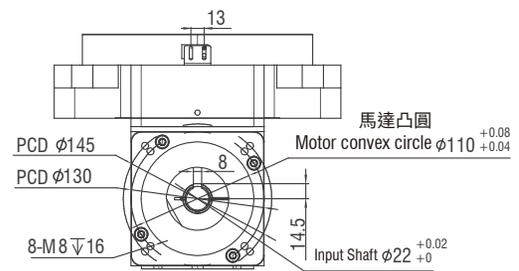
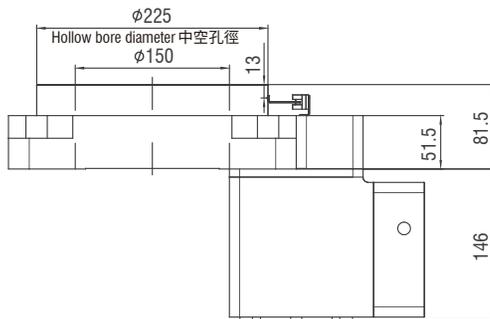
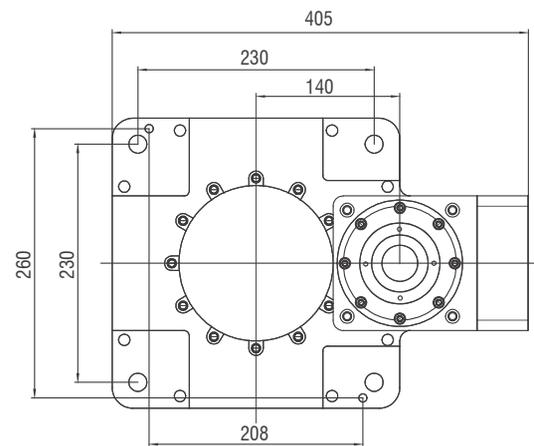
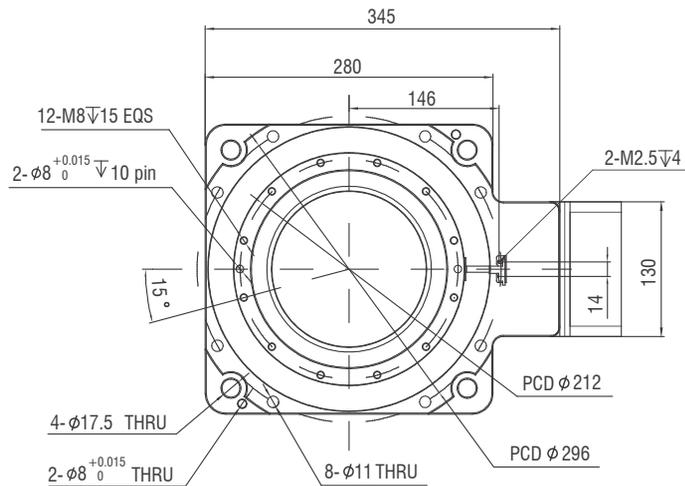
規格 Specification	GMNZ200 適用馬達 Compatible Motors	
	750w AC 伺服馬達 750w AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing
減速比 Speed ratio		1:10
容許轉矩 Allowable torque	Nm	90
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)
容許慣性載重 Allow inertial load	Nm	135
容許軸向負載 Allowable axial load	N	4000
定位精度 Positioning accuracy	arcmin	≤1
重複定位精度 Repeated positioning accuracy	arcsec	≤15
旋轉平台平行度 Rotating platform parallelism	mm	0.01
旋轉平台同心度 Flatness of rotating platform	mm	0.01
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)
防護等級 Protection Class		IP40
重量 Weight	kg	8

規格 Specification	減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-090	
額定輸出扭矩 Rated Output Torque(Nm)	2	60	
	3	48	
	5	16	
急停扭矩 Emergent Stop Toruqe	Nm	2 倍於 T2N/2 2 times T2N/2	
額定輸入轉速 Rated Input Speed	rpm	1000	
最大輸入轉速 Maximum input speed	rpm	2500	
回程間隙 Backlash	arcmin	≤5	
扭轉剛性 Torsional Rigidity	Nm/arcmin	1.5	
容許徑向力 Maximum Radial Force	N	1200	
容許軸向力 Maximum Axial Force	N	500	
使用壽命 Service life	hr	20000 (連續運轉降低使用壽命 50% Service life may be reduced by 50% under continuous operation.)	
效率 Efficiency	%	96	
使用溫度 Operating Temperature	°C	-10~90	
防護等級 Protection Class		IP65	
潤滑 Lubrication		合成潤滑油脂 Synthetic Grease	
噪音 Noise	dB	≤65	

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### GMNZ280 系列 Series

### GMNZ280-10\*N



## Performance data 性能資料表

規格 Specification		GMNZ280 適用馬達 Compatible Motors	
		1000/1500w AC 伺服馬達 1000/1500w AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio		1:10	
容許轉矩 Allowable torque	Nm	126	
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)	
容許慣性載重 Allow inertial load	Nm	350	
容許軸向負載 Allowable axial load	N	7500	
定位精度 Positioning accuracy	arcmin	≤1	
重複定位精度 Repeated positioning accuracy	arcsec	≤20	
旋轉平台平行度 Rotating platform parallelism	mm	0.01	
旋轉平台同心度 Flatness of rotating platform	mm	0.01	
精度壽命 Precision life	h	20000 (間歇運轉 Intermittent Operation)	
防護等級 Protection Class		IP40	
重量 Weight	kg	19	

規格 Specification		減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-130	
額定輸出扭矩 Rated Output Torque(Nm)	1	115		
	2	115		
急停扭矩 Emergent Stop Torque	Nm	2 倍於 T2N/2 2 times T2N/2		
額定輸入轉速 Rated Input Speed	rpm	1000		
最大輸入轉速 Maximum input speed	rpm	2500		
回程間隙 Backlash	arcmin	≤5		
扭轉剛性 Torsional Rigidity	Nm/arcmin	4.8		
容許徑向力 Maximum Radial Force	N	1600		
容許軸向力 Maximum Axial Force	N	800		
使用壽命 Service life	hr	20000 (連續運轉降低使用壽命 50% Service life may be reduced by 50% under continuous operation.)		
效率 Efficiency	%	96		
使用溫度 Operating Temperature	°C	-10~90		
防護等級 Protection Class		IP40		
潤滑 Lubrication		合成潤滑油脂 Synthetic Grease		
噪音 Noise	dB	≤65		