REDUCER CATALOG



PASSION FOR PRECISION TRANSMISSION

2026 TW REV 1.0

PRECISION PLANETARY REDUCER 精密行星減速機

High Precision / High Rigidity / High Reliability

高精度 / 高剛性 / 高可靠性

Advanced Technology
先進技術

High-end Design
頂尖設計

Customer Support
客戶支援

Know-how Process
專業製程

"We provide high precision, high rigidity, high reliability planetary reducers for our customers.
我們為客戶提供高精度、高剛性、高可靠性的行星減速機。"

High Output Torque
高輸出扭矩

Light and Safe
輕巧安全

Easy to install
簡易安裝

Customization Service
客製化服務

GEARKO
DRIVES THE PRECISION

CONTENTS

TABLE OF CONTENTS
目錄

GEARBOX SELECTION REFERENCE TABLE 減速機系列比較表	01
EXPLODED VIEW 減速機分解圖	04
SELECTION OF PRECISION PLANETARY REDUCER 減速機選型	05
GB/GBR SERIES GB/GBR 系列	07
GD/GDR/GDP SERIES GD/GDR/GDP 系列	11
GE/GER SERIES GE/GER 系列	17
GF SERIES GF 系列	21
GCB/GCBR/GCE/GCBK SERIES GCB/GCBR/GCE/GCBK 系列	23
GA/GAE SERIES GA/GAE 系列	31
GM SERIES GM 系列	37
GST SERIES GST 系列	55

Gearbox Selection Reference Table (Helical)
減速機系列對比表 (斜齒)

Gearbox Selection Reference Table 減速機系列對比表						
Product Line Series 系列名稱	GB	GBR	GD	GDR	GDP	
Backlash Range (for single stage) 背隙範圍 （單節）	≤1-5	≤2-6	≤1-5	≤2-6	≤1-3	
Double Stage Available 是否有雙節	Yes 是	Yes 是	Yes 是	Yes 是	No 否	
Frame Size 框徑規格	042/060/090/ 115/142/180/ 220 (available for customization for beyond 220) 220以上另行訂製	042/060/090/ 115/142/180	047/064/090/ 110/140/200 /255	064/090/ 110/140	090/110	
Type of gears 齒輪形式	Helical 斜齒	Helical/Spiral Bevel 斜齒/傘齒	Helical 斜齒	Helical/Spiral Bevel 斜齒/傘齒	Helical 斜齒	
Bearing Load Capacity Rating 軸承承載性能	High 高	High 高	High 高	High 高	High 高	
Lubricated for Life 是否終身潤滑	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	
Efficiency (for one stage) 效率（單節）	≥97%	≥95%	≥97%	≥95%	≥97%	
One-piece Ring Gear and Housing 一體式內齒與前法蘭	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	
Housing Material 齒圈材料	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	
Housing Nickel Plating 齒圈外表是否鍍鎳	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	
One-piece Output Shaft and Planet Carrier 一體式輸出軸與行星架	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	
One-piece Sun Gear and Input Collet 一體式太陽輪與輸入軸套	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	
Customized Flange for Motor Installation 客製電機安裝法蘭	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	

*此型錄中的所有技術規格在印刷時是準確的，但我們保留隨時進行改變的權利，以利持續改進。變更內容將不另行通知。

Innovative And Advanced Solutions To Maximize Customer Value
創新且先進的解決方案，以最大化客戶的價值

						
GE	GER	GF	GCB	GCBR	GCE	GCBK
≤3-5	≤4-6	≤1-5	≤3-5	≤4-6	≤3-5	≤3-5
Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是
050/070/090/120/ 155/205/235	070/090/ 120/155	060/075/ 100/140/180	042/060/090/ 120/140/180	042/060/ 090/120	070/090/ 120/155	060/090/ 120
Helical 斜齒	Helical/Spiral Bevel 斜齒/傘齒	Helical 斜齒	Helical 斜齒	Helical/Spiral Bevel 斜齒/傘齒	Helical 斜齒	Helical 斜齒
High 高	High 高	Very High 很高	High 高	High 高	High 高	High 高
Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是
≥97%	≥95%	≥97%	≥97%	≥95%	≥97%	≥97%
Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是
Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼	Steel 合金鋼
No 否	No 否	Yes 是	No 否	No 否	No 否	No 否
Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是
Yes 是	Yes 是	Yes 是	It depends 視情況	It depends 視情況	It depends 視情況	It depends 視情況
Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是	Yes 是

*All technical specifications in this brochure were correct at the time of printing. They are subject to change without notice as part of our continuous improvement initiative.

Gearbox Selection Reference Table (Spur)
減速機系列對比表 (直齒)

Gearbox Selection Reference Table 減速機系列對比表		
Product Line Series 系列名稱	GA	GAE
Backlash Range (for single stage) 背隙範圍 （單節）	≤10	≤10
Double Stage Available 是否有雙節	Yes 是	Yes 是
Frame Size 框徑規格	042/062/090	040/060/080
Type of gears 齒輪形式	Spur 直齒	Spur 直齒
Bearing Load Capacity Rating 軸承承載性能	High 高	High 高
Lubricated for Life 是否終身潤滑	Yes 是	Yes 是
Efficiency (for one stage) 效率 （單節）	≥97%	≥97%
One-piece Ring Gear and Housing 一體式內齒與前法蘭	No 否	No 否
Housing Material 齒圈材料	Steel 合金鋼	Steel 合金鋼
Housing Nickel Plating 齒圈外表是否鍍鎳	Yes 是	Yes 是
One-piece Output Shaft and Planet Carrier 一體式輸出軸與行星架	No (Cartridge output shaft) 否 (托盤式出力軸)	No (Cartridge output shaft) 否 (托盤式出力軸)
One-piece Sun Gear and Input Collet 一體式太陽輪與輸入軸套	No 否	No 否
Customized Flange for Motor Installation 客製電機安裝法蘭	Yes 是	Yes 是

ADVANCED TECHNOLOGY TO MAKE THE DRIVE MORE PRECISELY

先進技術
讓傳動更精密

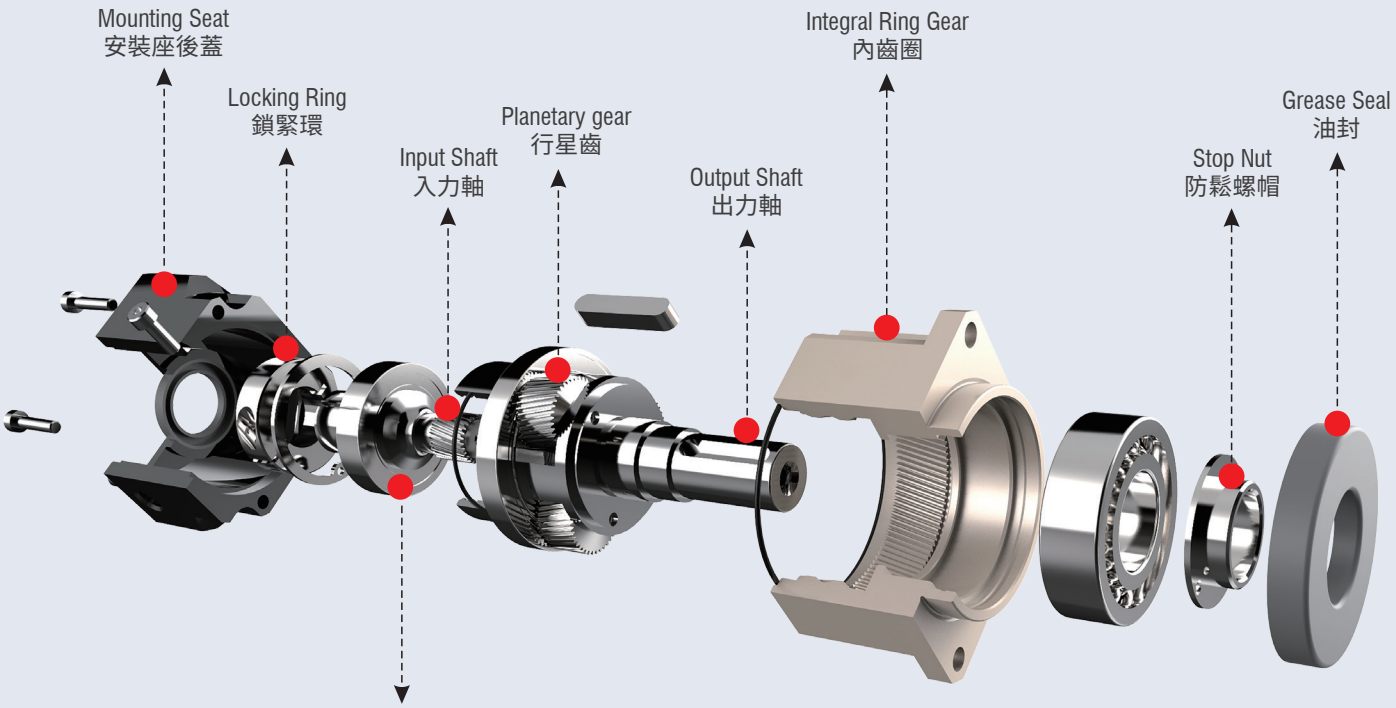
GEARKO QUALITY GUARANTEE STABLE AND EFFICIENT PERFORMANCE

GEARKO品質保證穩定且高效的性能

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EXPLODED VIEW
減速機分解圖



MODEL CODE EXPLANATION
型號說明

GB - 060 - 10 - S1 - P1

Backlash 背隙
- P0 - Micro Backlash 超精密級
- P1 - Reduced Backlash 精密級
- P2 - Standard Backlash 標準級

Output Style 輸出方式
- S1 - Smooth Output Shaft 光軸
- S2 - Output Shaft with Keyslot 輸出軸帶鍵槽

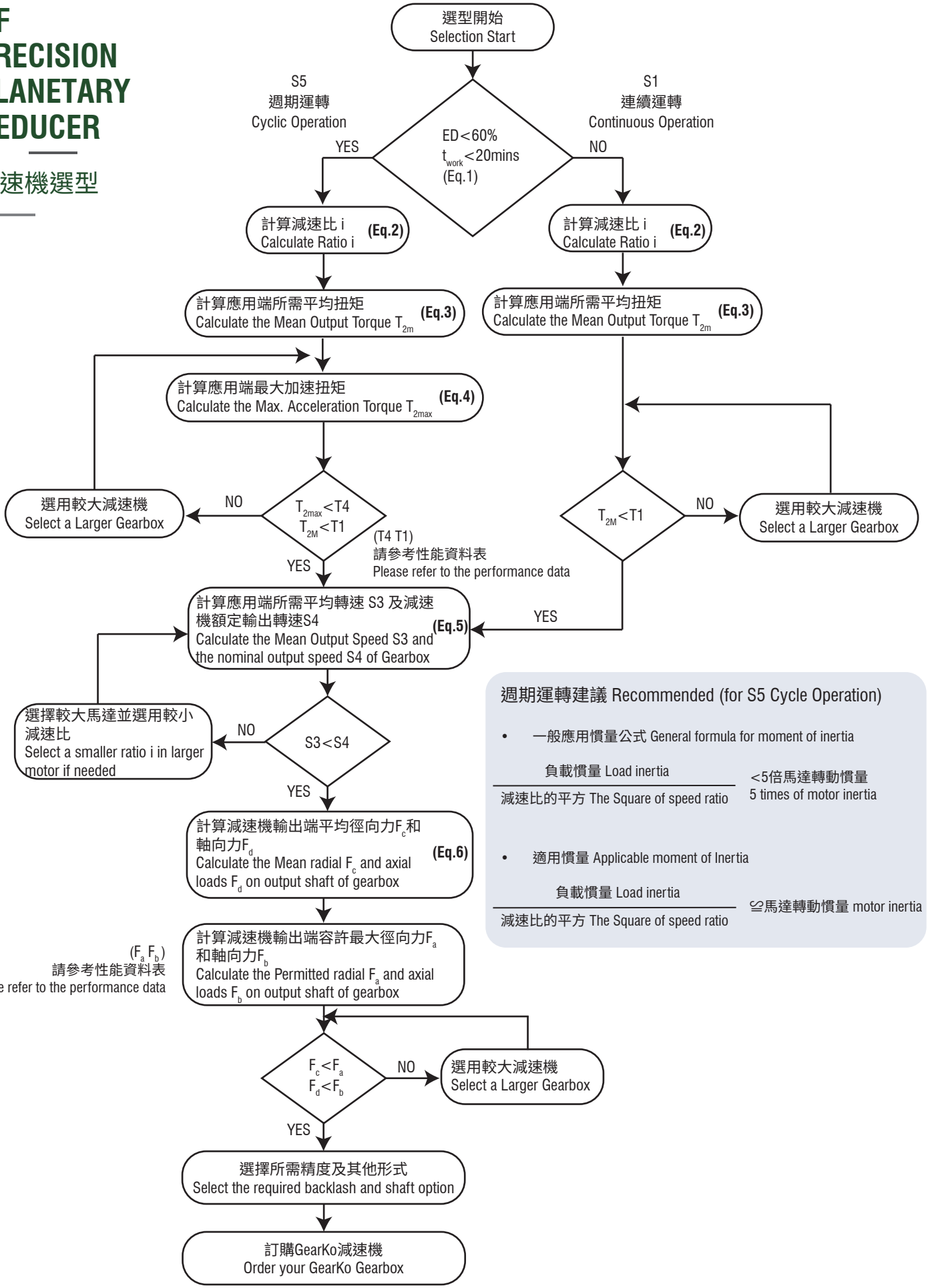
Ratio 比數
- One Stage 單節: 3、4、5、6、7、8、10 etc
- Two Stages 雙節: 15、20、25、30、35、40、50 60、70、80、100 etc

Frame Size 尺寸
- 060、090、115 etc

Series Name 系列名稱
- GB, GD, GE, GF, GCB etc

SELECTION OF PRECISION PLANETARY REDUCER

減速機選型



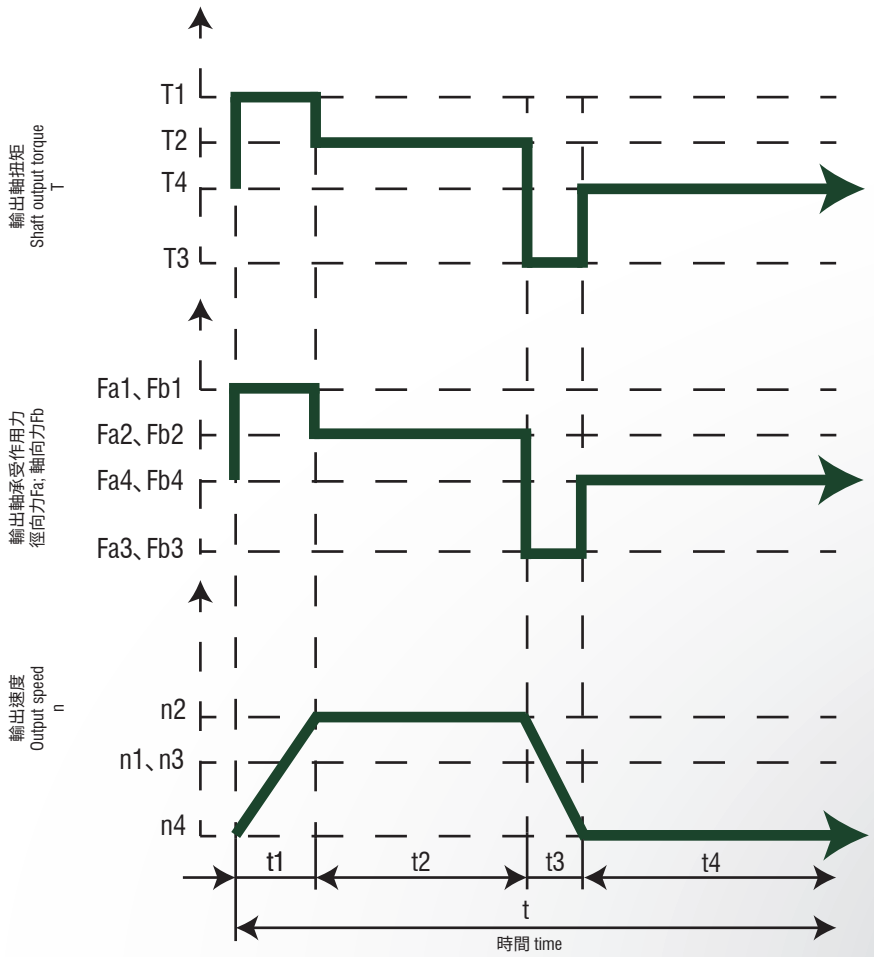
週期運轉建議 Recommended (for S5 Cycle Operation)

- 一般應用慣量公式 General formula for moment of inertia

$$\frac{\text{負載慣量 Load inertia}}{\text{減速比的平方 The Square of speed ratio}}$$ <5倍馬達轉動慣量 5 times of motor inertia

- 適用慣量 Applicable moment of Inertia

$$\frac{\text{負載慣量 Load inertia}}{\text{減速比的平方 The Square of speed ratio}}$$ ≦馬達轉動慣量 motor inertia



公式索引 Equation Index

Eq. 1 $ED = \frac{t1+t2+t3}{t} \times 100\%;\ t_{work} = t1+t2+t3$

代碼索引 Code Index

1. 加速Acceleration
2. 等速 Constant
3. 減速 Deceleration
4. 停止 Pause

Eq. 2 $i = \frac{\text{馬達輸出速度 Output speed of motor}}{\text{實際應用速度 Actual applied speed of motor}}$

Eq. 3 $T_{2m} = 3\sqrt{\frac{n1 \times t1 \times T1^3 + n2 \times t2 \times T2^3 + n3 \times t3 \times T3^3}{n1 \times t1 + n2 \times t2 + n3 \times t3}}$

Eq. 4 $T_{2max} = \text{馬達最大輸出扭矩 Max. output torque of the motor} \times \text{減速比 ratio} \times \text{傳動效率 efficiency} \times \text{負載係數 load factor}$

負載係數 Load factor	週期次數/小時 No. of Cycles / hr
1	0-1000
1.1	1000-1500
1.3	1500-2000
1.6	2000-3000
1.8	3000-5000

Eq. 5 $n1 = n3 = \frac{1}{2} \times n2$

$S_3 = \frac{n1 \times t1 + n2 \times t2 + n3 \times t3}{t1 + t2 + t3}$

$S_4 = \frac{\text{額定輸入速度 Nominal input speed}}{\text{減速比 Speed ratio}}$

Eq. 6 $F_C = 3\sqrt{\frac{n1 \times t1 \times F_a1^3 + n2 \times t2 \times F_a2^3 + n3 \times t3 \times F_a3^3}{n1 \times t1 + n2 \times t2 + n3 \times t3}}$

$F_d = 3\sqrt{\frac{n1 \times t1 \times F_b1^3 + n2 \times t2 \times F_b2^3 + n3 \times t3 \times F_b3^3}{n1 \times t1 + n2 \times t2 + n3 \times t3}}$

Precision Planetary Reducer
精密行星減速機

Outstanding Energy Efficiency
卓越節能

+



+

Minimal Heat Generation
低熱量輸出

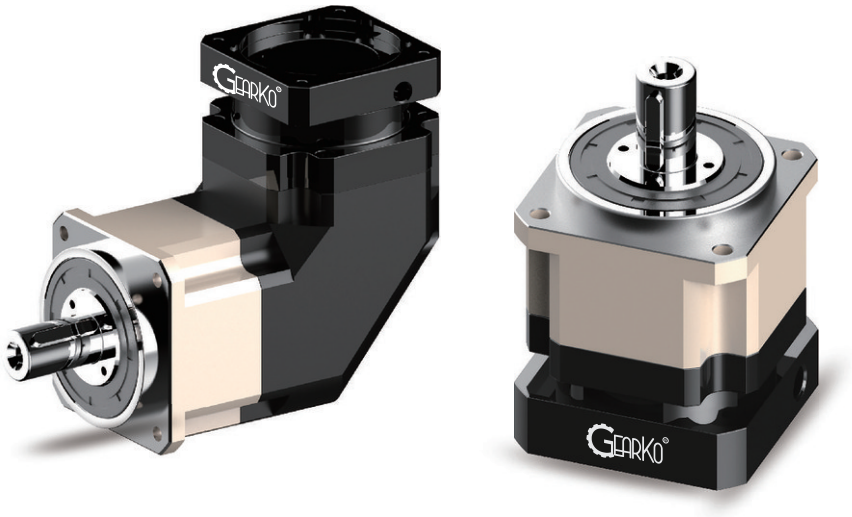
The GB/GBR series maintains exceptionally high efficiency even at maximum operating speeds, making it ideal for demanding, high-load industrial applications. It delivers powerful performance while offering excellent cost-effectiveness, making it a highly reliable planetary gearbox solution.

GB/GBR 系列在高速運轉下仍能維持極高效率, 特別適用於高標準、高負載的工況需求, 是兼具強效性能與高性價比的行星減速機解決方案。

GEARKO®

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DRIVES THE PRECISION



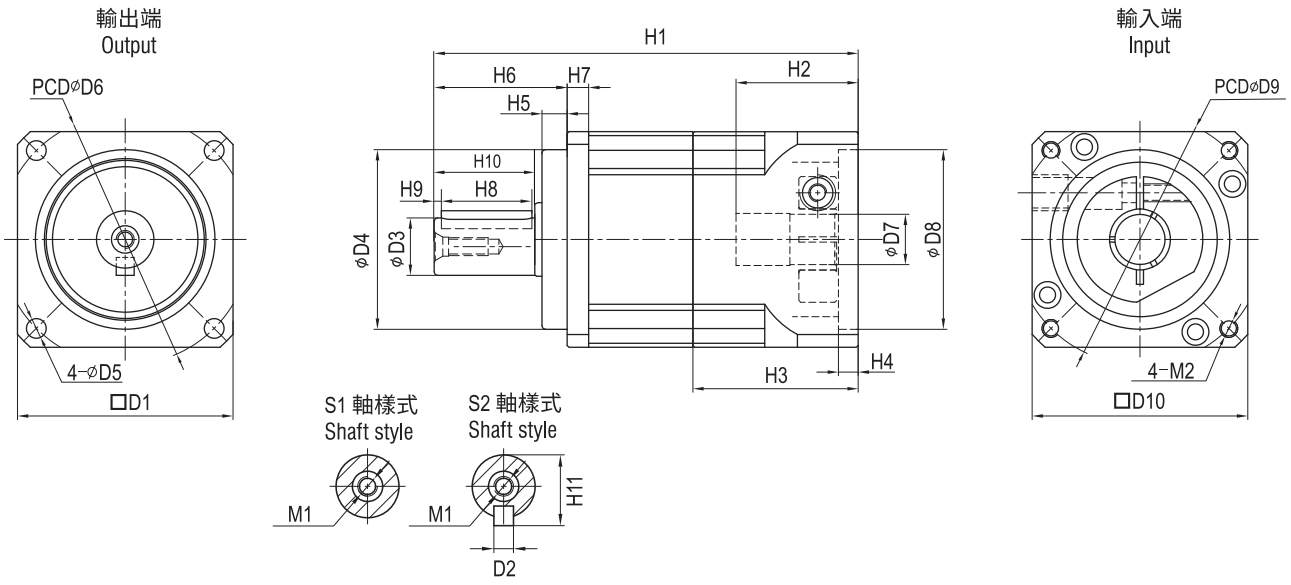
GB Series
GB 系列

GEARKO®
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Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame						
					GB042	GB060	GB090	GB115	GB142	GB180	GB220
額定輸出力矩 Nominal Output Torque	Nm	1	3		-	52	130	210	340	590	1150
			4		19	50	140	290	545	1050	1700
			5		20	58	160	333	650	1200	2008
			6		-	55	148	310	600	1108	1900
			7		19	50	140	300	555	1100	1810
			8		-	45	123	260	500	1000	1600
			10		14	42	102	235	460	910	1550
		2	15		-	52	130	210	340	590	1150
			20		19	50	140	290	545	1050	1700
			25		20	58	160	333	650	1200	2008
			30		-	55	148	310	600	1108	1900
			35		19	50	140	300	555	1100	1810
			40		17	45	123	260	500	1000	1600
			50		20	58	160	333	650	1200	2008
			60		-	55	148	310	600	1108	1900
			70		19	50	140	300	555	1100	1810
			80		-	45	123	260	500	1000	1600
			100		14	42	102	235	460	910	1550
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque						
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力 1.8 times of nominal output torque						
額定輸入轉速 Nominal Input Speed	rpm				5000	5000	4000	4000	3000	3000	2000
最大輸入轉速 Maximum Input Speed	rpm				10000	10000	8000	8000	6000	6000	4000
背隙 Backlash	arcmin	1	3-10	P0	≤1						
				P1	≤3						
				P2	≤5						
		2	15-100	P0	≤3						
				P1	≤5						
				P2	≤7						
效率 Efficiency	%	1	3-10		≥97						
		2	15-100		≥94						
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		3	7	14	25	50	145	225
最大徑向力 Maximum Radial Force	N				780	1530	3250	6700	9400	14500	50000
最大軸向力 Maximum Axial Force	N				390	765	1625	3350	4700	7250	25000
使用壽命 Service Life	hr				20,000						
使用溫度 Operating Temperature	°C				-20~90						
防護等級 Protection Class	-				IP65						
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease						
安裝位置 Mounting Position	-				任意方向 Any Direction						
噪音 Noise	dB	1	3-10		≤55	≤58	≤60	≤63	≤65	≤66	≤70
		2	15-100		≤55	≤60	≤63	≤63	≤65	≤66	≤70
重量 Weight	Kg	1	3-10		0.5	1.3	3.6	8.5	16.5	27	51.5
		2	15-100		0.7	1.9	4.5	9.5	16.4	34	63.5
轉動慣量 Moment of Inertia	$Kg.cm^2$	1	3		-	0.16	0.61	3.25	9.21	28.98	69.61
			4		0.03	0.14	0.48	2.74	7.54	23.67	54.37
			5		0.03	0.13	0.47	2.71	7.42	23.29	53.27
			6		-	0.13	0.45	2.65	7.25	22.75	51.72
			7		0.03	0.13	0.45	2.62	7.14	22.48	50.97
			8		-	0.13	0.44	2.58	7.07	22.59	50.84
			10		0.03	0.13	0.44	2.57	7.03	22.51	50.56
		2	15		-	0.13	0.47	0.47	2.71	7.42	23.29
			20,25		0.03	0.13	0.47	0.47	2.71	7.42	23.29
			30		-	0.13	0.47	0.47	2.71	7.42	23.29
			35		0.03	0.13	0.47	0.47	2.71	7.42	23.29
			40		0.03	0.13	0.44	0.44	2.57	7.03	22.51
			50		0.03	0.13	0.44	0.44	2.57	7.03	22.51
			60		-	0.13	0.44	0.44	2.57	7.03	22.51
			70		0.03	0.13	0.44	0.44	2.57	7.03	22.51
			80		-	0.13	0.44	0.44	2.57	7.03	22.51
			100		0.03	0.13	0.44	0.44	2.57	7.03	22.51

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GB042	GB060	GB090	GB115	GB142	GB180	GB220
D1		42	60	90	115	142	180	220
D2		5	5	6	10	12	16	20
D3		13	16	22	32	40	55	75
D4		35	50	80	110	130	160	180
D5		3.4	5.5	7	9	11	13	17
D6		50	70	100	130	165	215	250
D7	L1	8	14	19	24	35	35	55
	L2	8	14	19	22	24	35	35
D8	L1	30	50	70	110	114.3	114.3	200
	L2	30	50	70	110	110	114.3	114.3
D9	L1	46	70	90	145	200	200	235
	L2	46	70	90	145	145	200	200
D10	L1	42	60	90	130	180	180	220
	L2	42	60	90	130	130	180	180
M1		M4	M5	M8	M12	M16	M20	M20
M2	L1	M4	M5	M5	M8	M12	M12	M10
	L2	M4	M5	M5	M8	M8	M12	M12
H1	L1	85.3	118	145	206	263	289	370
	L2	106.8	141	179.8	226	280	342.3	410
H2	L1	26.5	34	42.5	71	84	82	117.5
	L2	27.5	34.5	42.5	60.5	64.5	83.5	82
H3	L1	28.5	46	24	42	53.5	38	68
	L2	17	46	24	42	35	53.5	38
H4	L1	4	5.5	4	16	15	5	20
	L2	5	5.5	4	16	12	15	8
H5		5.5	7	10	12	15	20	30
H6		26	37	48	65	97	105	138
H7		4	6	10	12	15	20	25
H8		16	25.2	32	40	70.5	70.5	90
H9		2	2	3	5	4	6	7
H10		19.5	28	36.5	50.5	79	81.5	104
H11		15	18	24.5	35	43	58.7	79.5

1. Speed ratio 減速比 ($i=S_{in}/S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.
此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

GBR Series
GBR 系列

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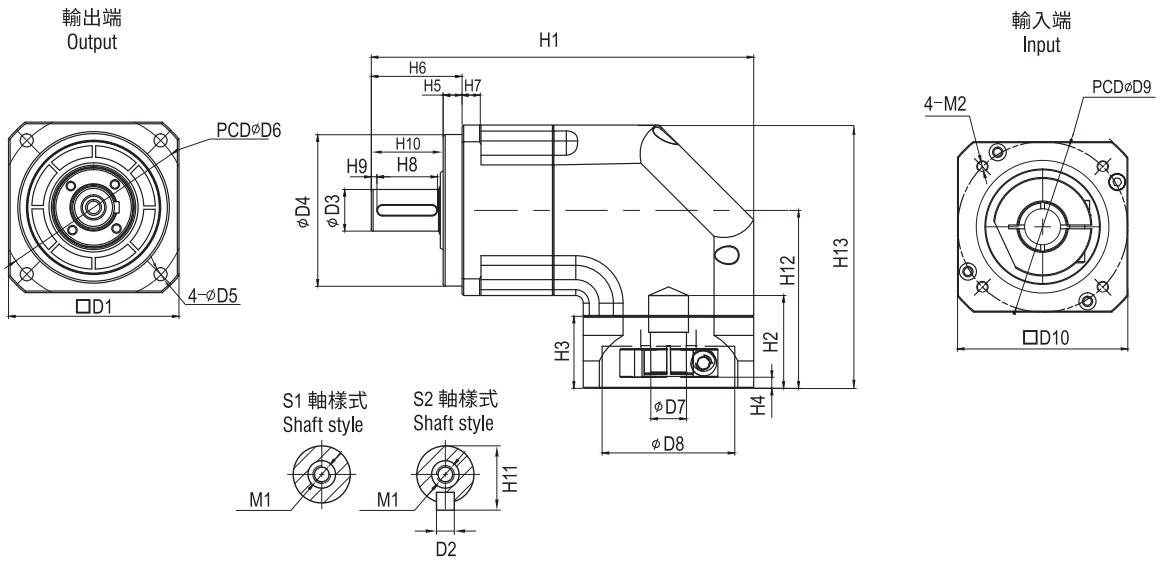
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame					
					GBR042	GBR060	GBR090	GBR115	GBR142	GBR180
額定輸出力矩 Nominal Output Torque	Nm	1	3		-	50	100	200	340	590
			4		15	48	120	260	540	1040
			5		18	58	150	330	650	1200
			6		-	55	148	310	600	1108
			7		19	50	140	300	555	1100
			8		-	45	123	260	500	1000
			10		14	42	102	235	460	910
			12		-	55	148	310	600	1108
			14		-	42	140	300	555	1100
			16		-	45	123	260	500	1000
		1, 2(042)	20		15	42	102	235	450	910
		2	25		18	58	150	330	650	1200
			30		-	55	148	310	600	1108
			35		19	50	140	300	555	1100
			40		17	45	120	260	500	1000
			50		18	58	150	330	650	1200
			60		-	55	148	310	600	1108
			70		19	50	140	300	555	1100
			80		-	45	123	260	500	1000
			100		14	42	102	235	460	910
			120		-	55	148	310	600	1108
			140		-	50	140	300	555	1100
			160		-	45	123	260	500	1000
			200		-	42	102	235	460	910
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-200		3 倍額定輸出力矩 3 times of nominal output torque					
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque					
額定輸入轉速 Nominal Input Speed	rpm				5000	5000	4000	4000	3000	3000
最大輸入轉速 Maximum Input Speed	rpm				10000	10000	8000	8000	6000	6000
背隙 Backlash	arcmin	1	3-20	P0	-	-	≤2			
				P1	≤4					
				P2	≤6					
		2	20-200	P0	-	-	≤4			
				P1	≤7					
				P2	≤9					
效率 Efficiency	%	1	3-20		≥95					
		2	20-200		≥92					
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-200		3	7	14	25	50	145
最大徑向力 Maximum Radial Force	N				780	1530	3250	6700	9400	14500
最大軸向力 Maximum Axial Force	N				390	765	1625	3350	4700	7250
使用壽命 Service Life	hr				20,000					
使用溫度 Operating Temperature	℃				-20~90					
防護等級 Protection Class	-				IP65					
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease					
安裝位置 Mounting Position	-				任意方向 Any Direction					
噪音值 Noise	dB	1	3-20		≤61	≤63	≤65	≤68	≤70	≤72
		2	20-200		≤61	≤63	≤65	≤68	≤70	≤72
重量 Weight	Kg	1	3-20		0.7	2	6	13	25.2	46.5
		2	20-200		0.9	2.5	6.3	12.5	21.4	43

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GBR042	GBR060	GBR090	GBR115	GBR142	GBR180
D1		42	60	90	115	142	180
D2		5	5	6	10	12	16
D3		13	16	22	32	40	55
D4		35	50	80	110	130	160
D5		3.4	5.5	7	9	11	13
D6		50	70	100	130	165	215
D7	L1	8	14	19	24	35	42
	L2	8	14	19	19	24	35
D8	L1	30	50	70	110	114.3	114.3
	L2	30	50	70	70	110	114.3
D9	L1	46	70	90	145	200	200
	L2	46	70	90	90	145	200
D10	L1	42	60	90	130	180	180
	L2	42	60	90	90	130	180
M1		M4	M5	M8	M12	M16	M20
M2	L1	M4	M5	M6	M8	M12	M12
	L2	M4	M5	M5	M5	M8	M12
H1	L1	103.8	147	202	264	339.5	416
	L2	125.8	170	236.8	264	345.5	419.8
H2	L1	28	36	49	63.7	97	89.7
	L2	28	36	49	49	74.5	97
H3	L1	25	34	38	50	53.5	38
	L2	25	34	38	38	42	53.5
H4	L1	4.5	6	6	10	15	8
	L2	4.5	6	6	5	16	15
H5		5.5	7	10	12	15	20
H6		26	37	48	65	97	105
H7		4	6	10	12	15	20
H8		16	25.2	32	40	70.5	70.5
H9		2	2	3	5	4	6
H10		19.5	28	36	41	79	82
H11		15	18	24.5	35	43	58.7

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame					
				GBR042	GBR060	GBR090	GBR115	GBR142	GBR180
轉動慣量 Moment of Inertia	Kg.cm²	1	3	-	0.35	2.25	6.84	23.4	68.9
			4,5,(6),7,(8)	0.09	0.35	2.25	6.84	23.4	68.9
			10,12	0.09	0.07	2.25	6.25	21.8	65.6
			14, 16	0.09	0.07	1.87	6.25	21.8	65.6
		1, 2(042)	20	0.09	0.07	1.87	6.25	21.8	65.6
		2	25,(30),35,40,50,(60),70	0.09	0.09	2.25	2.25	6.84	23.4
			(80),100	0.09	0.09	2.25	1.87	6.25	21.8
			120,140,160,200	-	0.09	1.87	1.87	6.25	21.8
括號所列之減速比不適用於 042 框徑。 The reduction ratios shown in parentheses are not applicable to the 042 frame.									

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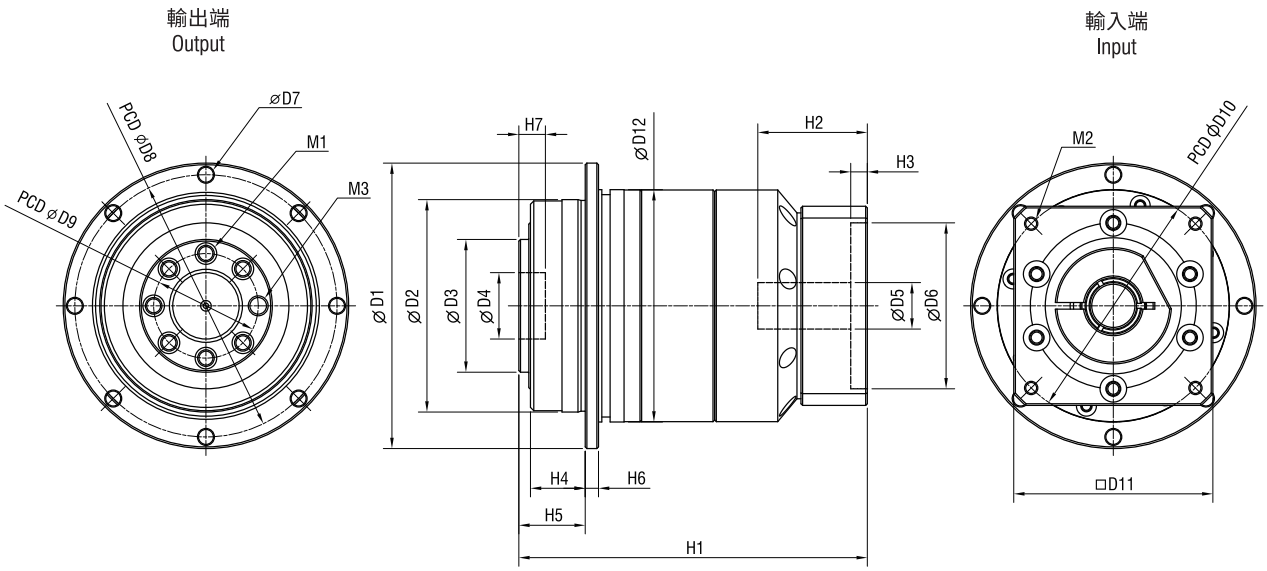
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame						
					GD047	GD064	GD090	GD110	GD140	GD200	GD255
額定輸出力矩 Nominal Output Torque	Nm	1	4		19	50	130	290	545	1050	1700
			5		20	58	160	333	650	1200	2008
			7		19	50	140	300	555	1100	1810
			10		14	42	102	235	460	910	1550
		2	20		19	50	130	290	545	1050	1700
			25		20	58	160	333	650	1200	2008
			35		19	50	140	300	555	1100	1810
			40		17	48	123	260	560	1100	1700
			50		20	58	160	333	650	1200	2008
			70		19	50	140	300	555	1100	1810
			100		14	42	102	235	460	910	1550
急停扭矩 Emergency Stop Torque	Nm	1, 2	4-100		3 倍額定輸出力矩 3 times of nominal output torque						
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque						
額定輸入轉速 Nominal Input Speed	rpm				5000	5000	4000	4000	3000	3000	2000
最大輸入轉速 Maximum Input Speed	rpm				10000	10000	8000	8000	6000	6000	4000
背隙 Backlash	arcmin	1	4-10	P0	≤1						
				P1	≤3						
				P2	≤5						
		2	20-100	P0	≤3						
				P1	≤5						
				P2	≤7						
效率 Efficiency	%	1	4-10		≥97						
		2	20-100		≥94						
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	4-100		3	13	31	82	151	440	1006
最大彎曲力矩 Maximum Bending Moment	Nm				42.5	125	235	430	1300	3064	5900
最大軸向力 Maximum Axial Force	N				450	1050	2850	4072	10590	16660	29430
使用壽命 Service Life	hr				20,000	30,000					
使用溫度 Operating Temperature	°C				-20~90						
防護等級 Protection Class	-				IP65						
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease						
安裝位置 Mounting Position	-				任意方向 Any Direction						
噪音值 Noise	dB	1	4-10		≤55	≤58	≤60	≤63	≤65	≤66	≤70
		2	20-100		≤55	≤58	≤60	≤63	≤65	≤66	≤70
重量 Weight	Kg	1	4-10		0.65	1.3	3.9	5.9	14.6	35.1	64.5
		2	20-100		0.98	1.8	3.1	7.9	15.5	34.9	70.4

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GD047	GD064	GD090	GD110	GD140	GD200	GD255
D1		72	86	118	145	179	247	300
D2		47	64	90	110	140	200	255
D3		28	40	63	80	100	160	180
D4		12	20	31.5	40	50	80	100
D5	L1	8	14	19	24	35	35	55
	L2	8	14	14	19	22	35	42
D6	L1	30	50	70	110	114.3	114.3	200
	L2	30	50	50	70	110	114.3	180
D7		3.4	4.5	5.5	5.5	6.6	9	13.5
D8		67	79	109	135	168	233	280
D9		20	31.5	50	63	80	125	140
D10	L1	46	70	90	145	200	200	235
	L2	46	70	70	90	145	200	215
D11	L1	42	60	90	130	180	180	220
	L2	42	60	60	90	130	180	220
D12		54	70	95	120	152	212	255
M1		M3	M5	M6	M6	M8	M10	M16
M2	L1	M4	M4	M5	M8	M12	M12	M12
	L2	M4	M4	M4	M5	M8	M12	M12
M3		3	5	6	6	8	10	12
H1	L1	65	83	102.4	134	177	204	285.7
	L2	87.2	105.5	121.1	141.7	214.5	280	372
H2	L1	27.5	34	42.9	64	83.5	81.9	117.5
	L2	27.5	34	33.4	42.5	71	83	108
H3	L1	5	5	4	12	15	8	20
	L2	5	5	5	4	12	15	15
H4		16.5	17	24.5	24	32	42	54
H5		19.5	20	30	29	38	50	66
H6		4	4	7	8	10	15	22
H7		4	8	12	12	12	16	20

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame						
				GD047	GD064	GD090	GD110	GD140	GD200	GD255
轉動慣量 Moment of Inertia	$Kg.cm^2$	1	4	0.03	0.14	0.51	2.87	7.54	25.03	58.31
			5	0.03	0.13	0.47	2.71	7.42	23.29	53.27
			7	0.03	0.13	0.45	2.62	7.14	22.48	50.97
			10	0.03	0.13	0.44	2.57	7.03	22.51	50.56
		2	20,25,35	0.03	0.13	0.13	0.47	2.71	7.42	23.29
			40,50,70,100	0.03	0.13	0.13	0.44	2.57	7.03	22.51

GDR Series
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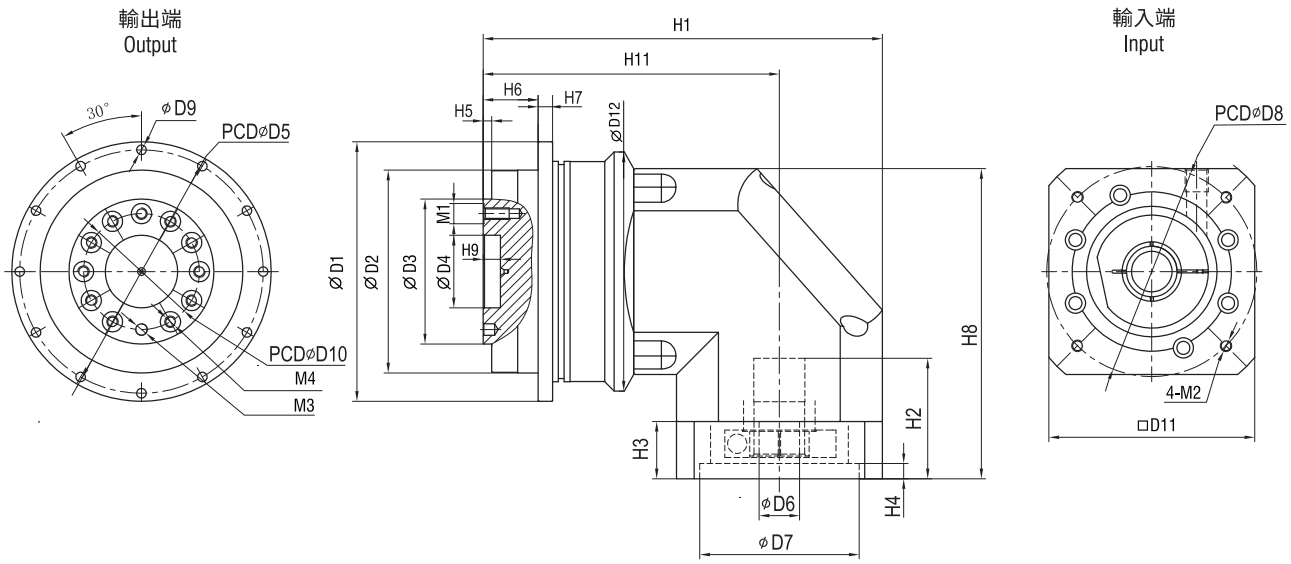
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GDR064	GDR090	GDR110	GDR140
額定輸出力矩 Nominal Output Torque	Nm	1	4		48	120	260	540
			5		58	150	330	650
			7		50	140	300	555
			10		42	102	235	460
			14		42	140	300	555
			20		42	102	235	450
		2	25		58	160	330	650
			35		50	148	300	555
			40		48	120	260	560
			50		58	150	330	650
			70		50	140	300	555
			100		42	102	235	460
			140		-	140	300	555
			200		-	102	235	460
急停扭矩 Emergency Stop Torque	Nm	1, 2	4-200		3 倍額定輸出力矩 3 times of nominal output torque			
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque			
額定輸入轉速 Nominal Input Speed	rpm				5000	4000	4000	3000
最大輸入轉速 Maximum Input Speed	rpm				10000	8000	8000	6000
背隙 Backlash	arcmin	1	4-20	P0	-	≤2		
				P1	≤4			
				P2	≤6			
		2	25-200	P0	-	≤4		
				P1	≤7			
				P2	≤9			
效率 Efficiency	%	1	4-20		≥95			
		2	25-200		≥92			
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	4-200		13	31	82	151
最大彎曲力矩 Maximum Bending Moment	Nm				125	235	430	1300
最大軸向力 Maximum Axial Force	N				1050	2850	1段 2990 2段 4072	10590
使用壽命 Service Life	hr				30,000			
使用溫度 Operating Temperature	℃				-20~90			
防護等級 Protection Class	-				IP65			
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease			
安裝位置 Mounting Position	-				任意方向 Any Direction			
噪音值 Noise	dB	1	4-20		≤63	≤65	≤68	≤70
		2	25-200		≤63	≤65	≤68	≤70
重量 Weight	Kg	1	4-20		2.2	5	10.5	25
		2	25-200		2.6	3.7	11	22.1

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GDR064	GDR090	GDR110	GDR140
D1		86	118	145	179
D2		64	90	110	140
D3		40	63	80	100
D4		20	31.5	40	50
D5		79	109	135	168
D6	L1	14	19	24	35
	L2	14	14	22	24
D7	L1	50	70	110	114.3
	L2	50	50	110	110
D8	L1	70	90	145	200
	L2	70	70	145	145
D9		4.5	5.5	5.5	6.6
D10		31.5	50	63	80
D11	L1	60	90	130	180
	L2	60	60	130	130
D12	L1	70	102	132	165
	L2	70	95	120	152
M1		6.5	10	10	14
M2	L1	M5	M6	M8	M12
	L2	M5	M5	M8	M8
M3		5	6	6	8
M4		M5	M6	M6	M8
H1	L1	125	170	214	275.5
	L2	135	151.5	200	272.5
H2	L1	36	49	68	97
	L2	36	36	72	74
H3	L1	34	38	35	53.5
	L2	34	34	61	42
H4	L1	6	6	12	15
	L2	6	6	10	16
H5		3	5.5	5	6
H6		20	30	29	38
H7		4	7	8	10
H8		109	145	190	239.5
H9		8	12	12	12

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame			
				GDR064	GDR090	GDR110	GDR140
轉動慣量 Moment of Inertia	Kg.cm²	1	4,5,7	0.35	2.25	6.84	23.4
			10	0.07	1.87	6.25	21.8
			14	0.07	1.87	6.25	21.8
			20	0.07	1.87	6.25	21.8
		2	25,35,40,50,70,100	0.09	0.35	2.25	6.84
			140,200	-	0.31	1.87	6.25

GDP Series
GDP 系列

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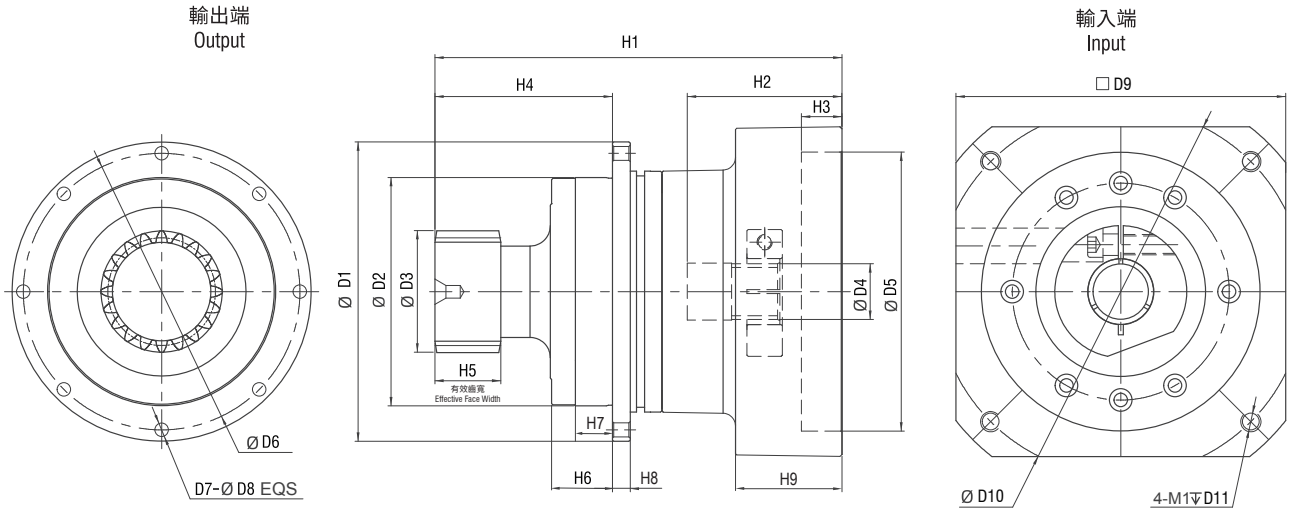
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GDP090	GDP110	GDP140
額定輸出力矩 Nominal Output Torque	Nm	1	4		-	-	545
			5		162	335	650
			7		142	305	555
			10		-	-	460
急停扭矩 Emergency Stop Torque	Nm	1	5, 7		3 倍額定輸出力矩 3 times of nominal output torque		
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque		
額定輸入轉速 Nominal Input Speed	rpm				4000	4000	3000
最大輸入轉速 Maximum Input Speed	rpm				8000	8000	6000
背隙 Backlash	arcmin	1	5, 7	P0	≤1	≤1	≤1
				P1	≤3	≤3	≤3
				P2	-	-	≤5
效率 Efficiency	%	1	5, 7		≥97		
扭轉剛性 Torsional Rigidity	Nm/arcmin	1	5, 7		35	85	151
最大彎曲力矩 Maximum Bending Moment	Nm				247	442	1300
最大軸向力 Maximum Axial Force	N				2850	4072	10590
使用壽命 Service Life	hr				30,000		
使用溫度 Operating Temperature	℃				-20~90		
防護等級 Protection Class	-				IP65		
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease		
安裝位置 Mounting Position	-				任意方向 Any Direction		
噪音值 Noise	dB	1	5, 7		≤60	≤63	≤65
重量 Weight	Kg	1	5, 7		4	5.9	14.6
轉動慣量 Moment of Inertia	$Kg.cm^2$	1	4		-	-	7.54
			5		0.47	2.71	7.42
			7		0.45	2.62	7.14
			10		-	-	7.03
輸出齒輪規格 Output Gear Specification	m	模數 Module			2		3
	Z	齒數 Number of Teeth			20		16
					22		20
					25		22
					26		-
	-	旋向 Helix Hand			左旋 Left-Hand		左旋 Left-Hand
	β	螺旋角 Helix Angle			19.5283°		19.5283°

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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Specification 規格尺寸表



型號 Model / 單位 Unit:mm	GDP090-L1 2M20Z	GDP090-L1 2M22Z	GDP090-L1 2M25Z	GDP110-L1 2M20Z	GDP110-L1 2M22Z	GDP110-L1 2M25Z	GDP140-L1 3M16Z	GDP140-L1 3M20Z	GDP140-L1 3M22Z
D1	118	118	118	145	145	145	179	179	179
D2	$90h7^{+0}_{-0.035}$	$90h7^{+0}_{-0.035}$	$90h7^{+0}_{-0.035}$	$110h7^{+0}_{-0.035}$	$110h7^{+0}_{-0.035}$	$110h7^{+0}_{-0.035}$	140h7	140h7	140h7
D3	48	52.201	57	48	55.2	57	59.33	72.06	76.03
D4	$22G7^{+0.028}_{+0.007}$	$22G7^{+0.028}_{+0.007}$	$22G7^{+0.028}_{+0.007}$	$22G7^{+0.028}_{+0.007}$	$22G7^{+0.028}_{+0.007}$	$22G7^{+0.028}_{+0.007}$	$35G7^{+0.034}_{+0.009}$	$35G7^{+0.034}_{+0.009}$	$35G7^{+0.034}_{+0.009}$
D5	$110F7^{+0.071}_{+0.036}$	$110F7^{+0.071}_{+0.036}$	$110F7^{+0.071}_{+0.036}$	$110F7^{+0.071}_{+0.036}$	$110F7^{+0.071}_{+0.036}$	$110F7^{+0.071}_{+0.036}$	$114.3F7^{+0.071}_{+0.036}$	$114.3F7^{+0.071}_{+0.036}$	$114.3F7^{+0.071}_{+0.036}$
D6	109	109	109	135	135	135	168	168	168
D7	8	8	8	8	8	8	12	12	12
D8	5.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5
D9	130	130	130	130	130	130	180	180	180
D10	145	145	145	145	145	145	200	200	200
D11	18	18	18	18	18	18	26	26	26
M1	M8	M8	M8	M8	M8	M8	M12	M12	M12
H1	160.5	160.5	156.5	175	175	170	229.5	229.5	229.5
H2	61	61	61	64	64	64	83.5	83.5	83.5
H3	16	16	16	12	12	12	15	15	15
H4	70	70	66	70	70	65	90.5	90.5	90.5
H5	26	26	26	26	26	26	31	31	31
H6	-	-	-	23	23	23	32	32	32
H7	14.6	14.6	14.6	-	-	-	14	14	14
H8	7	7	7	8	8	8	10	10	10
H9	-	-	-	35	35	35	53.5	53.5	53.5

Gear Parameters 齒輪參數

	模數 Module (m)	齒數 Number of Teeth (z)	螺旋角 Helix Angle (α)	壓力角 Pressure Angle (α)	變位係數 Profile Shift Coefficient (x)	分度圓 Pitch Circle (d)	齒輪精度 Gear Precision Class
GDP090, GDP110	2	20	19° 31' 42'' LH	20°	0.4	42.441	DIN 4
GDP090, GDP110	2	22	19° 31' 42'' LH	20°	0.4	46.686	DIN 4
GDP090, GDP110	2	25	19° 31' 42'' LH	20°	-	53.052	DIN 4
GDP140	3	16	19° 31' 42'' LH	20°	0.4	56.930	DIN 4
GDP140	3	20	19° 31' 42'' LH	20°	0.4	63.662	DIN 4
GDP140	3	22	19° 31' 42'' LH	20°	-	70.028	DIN 4

Precision Planetary Reducer
精密行星減速機

Creative Structure Design
創意結構設計

+



+

Optimized Backlash & High Rigidity
背隙優化和高剛性設計結構

GE/GER series planetary reducer combines innovation, efficiency and quality, maximizing customer value and performance.

GE/GER系列行星減速器結合創新、效率和品質，最大化客戶價值和性能。

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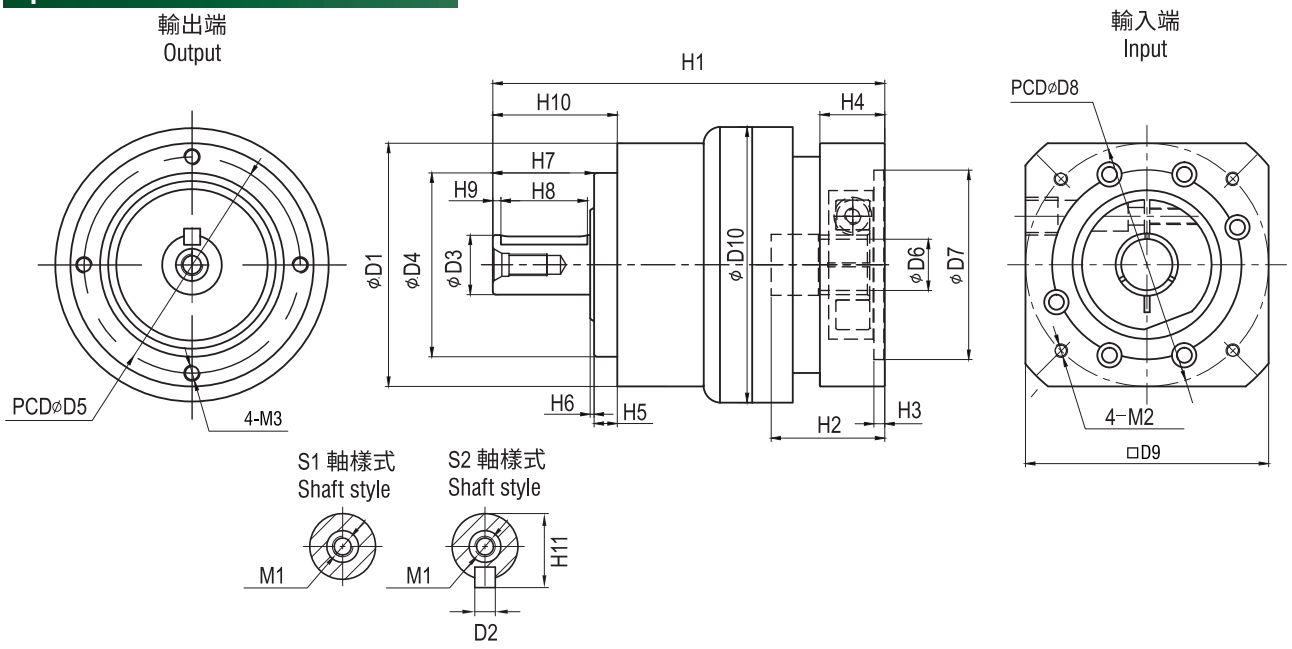
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame						
					GE050	GE070	GE090	GE120	GE155	GE205	GE235
額定輸出力矩 Nominal Output Torque	Nm	1	3		-	52	130	210	340	590	1150
			4		19	50	140	290	545	1050	1700
			5		20	58	160	333	650	1200	2008
			6		19	55	148	310	600	1108	1900
			7		19	50	140	300	555	1100	1810
			8		17	45	123	260	500	1000	1600
			10		14	42	102	235	460	910	1550
		2	15		-	52	130	210	340	590	1150
			20		19	50	140	290	545	1050	1700
			25		20	58	160	333	650	1200	2008
			30		19	55	148	310	600	1108	1900
			35		19	50	140	300	555	1100	1810
			40		17	45	123	260	500	1000	1600
			50		20	58	160	333	650	1200	2008
			60		19	55	148	310	600	1108	1900
			70		19	50	140	300	555	1100	1810
			80		17	45	123	260	500	1000	1600
			100		14	42	102	235	460	910	1550
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque						
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque						
額定輸入轉速 Nominal Input Speed	rpm				5000	5000	4000	4000	3000	3000	2000
最大輸入轉速 Maximum Input Speed	rpm				10000	10000	8000	8000	6000	6000	4000
背隙 Backlash	arcmin	1	3-10	P0	-						
				P1	≤3						
				P2	≤5						
		2	15-100	P0	-						
				P1	≤5						
				P2	≤7						
效率 Efficiency	%	1	3-10		≥97						
		2	15-100		≥94						
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		3	7	14	25	50	145	225
最大徑向力 Maximum Radial Force	N				702	1377	2985	6100	8460	13050	8700
最大軸向力 Maximum Axial Force	N				390	765	1625	3350	4700	7250	18000
使用壽命 Service Life	hr				20,000						
使用溫度 Operating Temperature	°C				-20~90						
防護等級 Protection Class	-				IP65						
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease						
安裝位置 Mounting Position	-				任意方向 Any Direction						
噪音值 Noise	dB	1	3-10		≤56	≤58	≤60	≤63	≤65	≤67	≤70
		2	15-100		≤56	≤58	≤60	≤63	≤65	≤67	≤70
重量 Weight	Kg	1	3-10		0.6	1.4	3.4	7.5	18	34	53
		2	15-100		0.9	1.6	5.1	8.5	17	35	66

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.
此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GE050	GE070	GE090	GE120	GE155	GE205	GE235
D1		50	70	90	120	155	205	235
D2		4	5	6	10	12	16	20
D3		12	16	22	32	40	55	75
D4		35	52	68	90	120	160	180
D5		44	62	80	108	140	184	210
D6	L1	8	14	19	22	35	35	55
	L2	8	14	19	19	22	35	42
D7	L1	30	50	70	110	114.3	114.3	200
	L2	30	50	70	70	110	114.3	180
D8	L1	46	70	90	145	200	200	235
	L2	46	70	90	90	145	200	215
D9	L1	42	60	90	130	180	180	220
	L2	42	60	90	90	130	180	220
D10		N/A	70	102	130	162	205	252
M1		M4	M5	M8	M12	M16	M20	M20
M2	L1	M4	M5	M5	M8	M12	M12	M12
	L2	M4	M4	M5	M6	M8	M12	M12
M3		M4	M5	M6	M8	M10	M12	M16
H1	L1	84.8	118	145	199	262.5	289	370
	L2	106.8	141	180.2	215	279.5	342	434
H2	L1	26.5	34	42	64	83.5	82	117.5
	L2	26.5	34.5	42	50	64	83	108
H3	L1	4	5	4	12	15	8	20
	L2	4	5	4	12	12	15	15
H4	L1	15.5	20	24	35	53.5	38	68
	L2	15.5	20	24	32	35	53.5	62
H5		4	6.5	8.5	17	15	15	18
H6		1	1.5	1.5	1.5	1	3.5	3
H7		19.5	28	36	51.5	79	81.5	105
H8		16	25.2	32	40	70.5	70	90
H9		2	2	3	5	4	6	7
H10		24.5	36	46	70	95	100	126
H11		13.5	18	24.5	35	43	58.7	79.5

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame						
				GE050	GE070	GE090	GE120	GE155	GE205	GE235
轉動慣量 Moment of Inertia	Kg.cm²	1	3	-	0.16	0.61	3.25	9.21	28.98	69.61
			4	0.03	0.14	0.48	2.74	7.54	23.67	54.37
			5	0.03	0.13	0.47	2.71	7.42	23.29	53.27
			6	0.03	0.13	0.45	2.65	7.25	22.75	51.72
			7	0.03	0.13	0.45	2.62	7.14	22.48	50.97
			8	0.03	0.13	0.44	2.58	7.07	22.59	50.84
			10	0.03	0.13	0.44	2.57	7.03	22.51	50.56
		2	15	-	0.13	0.47	0.47	2.71	7.42	23.29
			20,25,30	0.13	0.13	0.47	0.47	2.71	7.42	23.29
			35	0.13	0.13	0.47	0.47	2.71	7.42	23.29
			40,50,60,70,80,100	0.13	0.13	0.44	0.44	2.57	7.03	22.51

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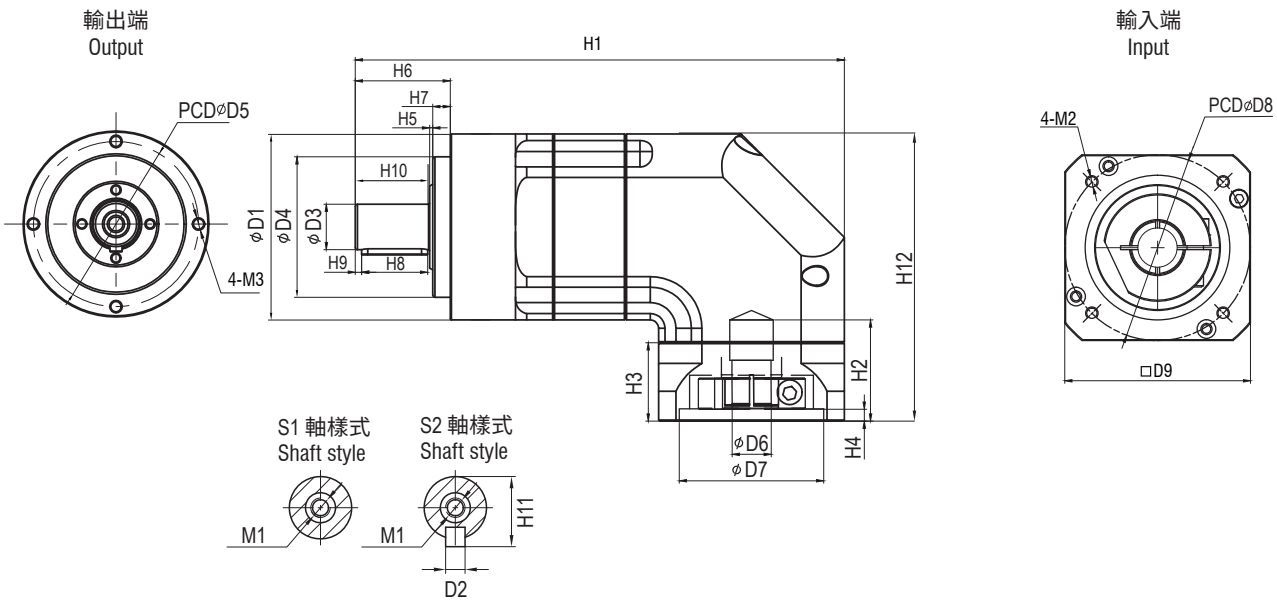
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame			
					GER070	GER090	GER120	GER155
額定輸出力矩 Nominal Output Torque	Nm	1	3		50	100	200	340
			4		48	120	260	540
			5		58	150	330	650
			6		55	148	310	600
			7		50	140	300	555
			8		45	123	260	500
			10		42	102	235	460
			14		42	140	300	555
			20		42	102	235	450
		2	25		58	150	330	650
			30		55	148	310	600
			35		50	140	300	555
			40		45	120	260	500
			50		58	150	330	650
			60		55	148	310	600
			70		50	140	300	555
			80		45	123	260	500
			100		42	102	235	460
			120		55	148	310	600
			140		50	140	300	555
			160		45	123	260	500
			200		42	102	235	460
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-200		3 倍額定輸出力矩 3 times of nominal output torque			
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque			
額定輸入轉速 Nominal Input Speed	rpm				5000	4000	4000	3000
最大輸入轉速 Maximum Input Speed	rpm				10000	8000	8000	6000
背隙 Backlash	arcmin	1	3-20	P0	-			
				P1	≤4			
				P2	≤6			
		2	25-200	P0	-			
				P1	≤7			
				P2	≤9			
效率 Efficiency	%	1	3-20		≥95			
		2	25-200		≥92			
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-200		7	14	25	50
最大徑向力 Maximum Radial Force	N				1377	2985	6100	8460
最大軸向力 Maximum Axial Force	N				765	1625	3350	4700
使用壽命 Service Life	hr				20,000			
使用溫度 Operating Temperature	℃				-20~90			
防護等級 Protection Class	-				IP65			
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease			
安裝位置 Mounting Position	-				任意方向 Any Direction			
噪音值 Noise	dB	1	3-20		≤63	≤65	≤68	≤70
		2	25-200		≤63	≤65	≤68	≤70
重量 Weight	Kg	1	3-20		2.1	5	13	25.1
		2	25-200		2.5	6.4	12.5	21.5

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GER070	GER090	GER120	GER155
D1		70	90	120	155
D2		5	6	10	12
D3		16	22	32	40
D4		52	68	90	120
D5		62	80	108	140
D6	L1	14	19	24	35
	L2	14	19	19	24
D7	L1	50	70	110	114.3
	L2	50	70	70	110
D8	L1	70	90	145	200
	L2	70	90	90	145
D9	L1	60	90	130	180
	L2	60	90	90	130
M1		M5	M8	M12	M16
M2	L1	M5	M5	M8	M12
	L2	M5	M5	M5	M8
M3		M5	M6	M8	M10
H1	L1	147	202	264	339.5
	L2	170	236.85	265	345
H2	L1	36	42	64	97
	L2	36	49	49	74.5
H3	L1	34	38	50	53.5
	L2	34	38	38	42
H4	L1	6	6	10	15
	L2	6	6	6	16
H5		1.5	1.5	2	1
H6		36	46	70	95
H7		6.5	8.5	17	15
H8		25.2	32	40	70.5
H9		2	3	5	4
H10		28	36	51	79
H11		18	24.5	35	43
H12	L1	109	139	183.5	235
	L2	109	139	154	208.6

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame			
				GER070	GER090	GER120	GER155
轉動慣量 Moment of Inertia	Kg.cm²	1	3,4,5,6,7,8,10	0.35	2.25	6.84	23.4
			14,20	0.07	1.87	6.25	21.8
		2	25,30,35,40,50,60,70,80,100	0.09	2.25	2.25	6.84
			120,140,160,200	0.09	1.87	1.87	6.25

Precision Planetary Reducer
精密行星減速機



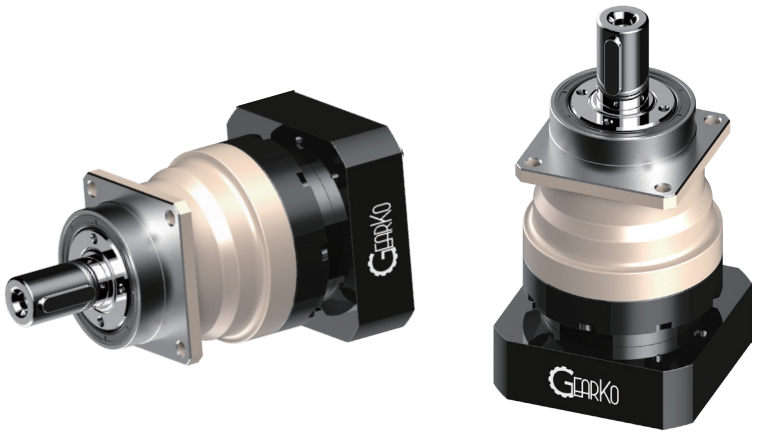
GF series planetary reducer has the characteristics of high rigidity, high precision (single stage can achieve less than 1 arcmin), high transmission efficiency (single stage at 97% -98%), high torque / volume ratio, and lifetime maintenance-free.

GF系列行星減速器具有高剛性、高精度（單級可以達到小於1弧分）、高傳輸效率（單級達到97% - 98%）、高扭矩/體積比和無需終身保養等特點。

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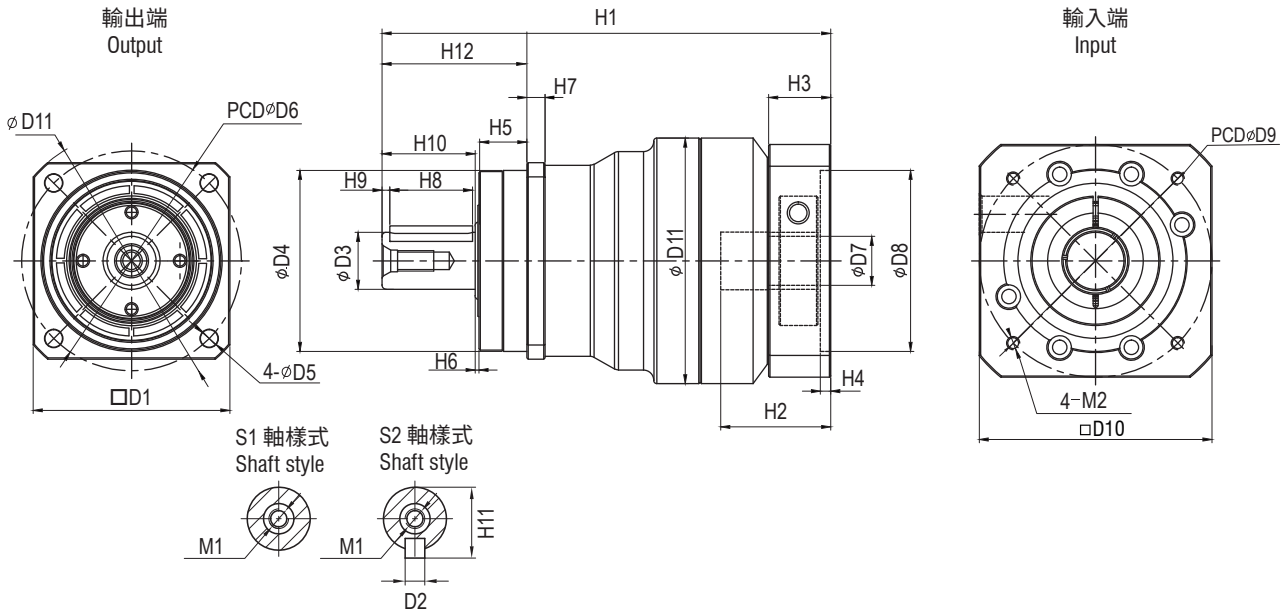
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GF060	GF075	GF100	GF140	GF180
額定輸出力矩 Nominal Output Torque	Nm	1	3		52	130	210	340	590
			4		50	140	290	545	1050
			5		58	160	333	650	1200
			6		55	148	310	600	1108
			7		50	140	300	555	1100
			8		45	123	260	500	1000
			10		42	102	235	460	910
		2	15		52	130	210	340	590
			20		50	140	290	545	1050
			25		58	160	333	650	1200
			30		55	148	310	600	1108
			35		50	140	300	555	1100
			40		45	123	260	500	1000
			50		58	160	333	650	1200
			60		55	148	310	600	1108
			70		50	140	300	555	1100
			80		45	123	260	500	1000
			100		42	102	235	460	910
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque				
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque				
額定輸入轉速 Nominal Input Speed	rpm				5000	4000	4000	3000	3000
最大輸入轉速 Maximum Input Speed	rpm				10000	8000	8000	6000	6000
背隙 Backlash	arcmin	1	3-10	P0	-	≤1			
				P1	≤3	≤3			
				P2	≤5	≤5			
		2	15-100	P0	-	-	≤3		
				P1	≤5	≤5			
				P2	≤7	≤7			
效率 Efficiency	%	1	3-10		≥97				
		2	15-100		≥94				
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		7	14	25	50	175
最大徑向力 Maximum Radial Force	N				1400	4100	9200	14000	18000
最大軸向力 Maximum Axial Force	N				1100	3700	5820	11400	19500
使用壽命 Service Life	hr				30,000				
使用溫度 Operating Temperature	°C				-20~90				
防護等級 Protection Class	-				IP65				
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease				
安裝位置 Mounting Position	-				任意方向 Any Direction				
噪音值 Noise	dB	1	3-10		≤58	≤60	≤63	≤65	≤67
		2	15-100		≤60	≤60	≤63	≤65	≤67
重量 Weight	Kg	1	3-10		1.6	3.9	8.9	18	35.5
		2	15-100		2.1	5.1	8.1	16.6	42

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GF060	GF075	GF100	GF140	GF180
D1		62	76	105	142	180
D2		5	6	10	12	16
D3		16	22	32	40	55
D4		60	70	90	130	160
D5		5.5	6.8	9	11	13
D6		68	85	120	165	215
D7	L1	14	19	24	35	42
	L2	14	19	19	24	35
D8	L1	50	70	110	114.3	114.3
	L2	50	70	70	110	114.3
D9	L1	70	90	130	200	200
	L2	70	90	90	130	200
D10	L1	60	90	130	180	180
	L2	60	90	90	130	180
D11		70	95	122	152	205
M1		M5	M8	M12	M16	M20
M2	L1	M4	M5	M8	M12	M12
	L2	M4	M5	M5	M8	M12
H1	L1	131.5	173.5	247	296	343.8
	L2	154.5	205	248.7	296	380.6
H2	L1	33.5	41.5	71	83	97.5
	L2	34	41.5	42	322	83
H3	L1	20	24	42	53.5	53.5
	L2	20	24	24	42	53.5
H4	L1	5	4	16	15	8
	L2	5	4	4	10	15
H5		18.5	18.5	28	28.2	27
H6		1.5	1.5	2	1.8	3
H7		6	7	10	12	15
H8		25.2	32	40	70	70.5
H9		2	3	5	5	6
H10		28.5	36	58	82	82
H11		18	24.5	35	43	59
H12		48.5	56	88	112	112

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame				
				GF060	GF075	GF100	GF140	GF180
轉動慣量 Moment of Inertia	Kg.cm²	1	3	0.16	0.61	3.25	9.2	28.98
			4	0.14	0.48	2.74	7.5	23.67
			5	0.13	0.47	2.71	7.4	23.29
			6	0.13	0.45	2.65	7.2	22.75
			7	0.13	0.45	2.62	7.1	22.48
			8	0.13	0.44	2.58	7.0	22.59
			10	0.13	0.44	2.57	7.0	22.51
		2	15,20,25,30,35	0.13	0.47	0.47	2.71	7.42
			40,50,60,70,80,100	0.13	0.44	0.44	2.57	7.03

Precision Planetary Reducer
精密行星減速機

Modular & Economical Design
模組化且經濟的設計



Optimized Performance
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GCB/GCBR/GCE/GCBK series planetary reducer backlash is low and its transmission capacity is strong, the input end can be matched with servo, stepping and any other motors.

GCB/GCBR/GCE/GCBK 系列行星減速機具有低背隙和強大的傳動能力，
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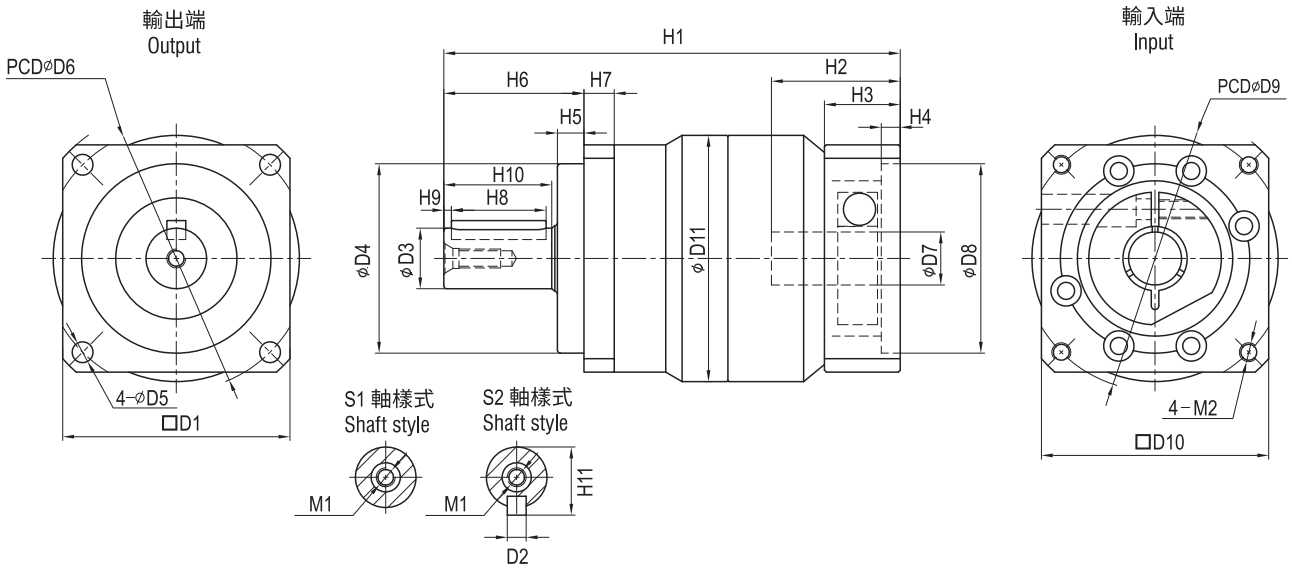
GCB Series
GCB 系列

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Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GCB042	GCB060	GCB090	GCB120	GCB140	GCB180
額定輸出力矩 Nominal Output Torque	Nm	1	3		-	40	100	200	340	580
			4		17	45	110	280	535	1020
			5		19	55	150	320	650	1180
			6		-	50	140	310	600	1050
			7		19	45	135	300	550	1050
			8		-	45	120	255	500	970
			10		14	35	100	220	445	870
		2	15		-	40	100	200	340	580
			20		17	45	110	280	535	1020
			25		19	55	150	320	650	1180
			30		-	50	140	310	600	1050
			35		18	45	135	300	550	1050
			40		16	45	120	255	500	970
			50		19	55	150	320	650	1180
			60		-	50	140	310	600	1050
			70		18	45	135	300	550	1050
			80		-	45	120	255	500	970
			100		14	35	100	220	445	870
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque					
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque					
額定輸入轉速 Nominal Input Speed	rpm				3000	3000	3000	3000	2000	2000
最大輸入轉速 Maximum Input Speed	rpm				6000	6000	6000	6000	4000	4000
背隙 Backlash	arcmin	1	3-10	P0	-					
				P1	≤3					
				P2	≤5					
		2	15-100	P0	-					
				P1	≤5					
				P2	≤7					
效率 Efficiency	%	1	3-10		≥97					
		2	15-100		≥94					
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		3	7	14	25	50	140
最大徑向力 Maximum Radial Force	N				760	1530	3250	6700	9400	14100
最大軸向力 Maximum Axial Force	N				380	765	1625	3350	4700	7050
使用壽命 Service Life	hr				20,000					
使用溫度 Operating Temperature	°C				-20~90					
防護等級 Protection Class	-				IP65					
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease					
安裝位置 Mounting Position	-				任意方向 Any Direction					
噪音值 Noise	dB		3-10		≤56	≤58	≤60	≤63	≤65	≤67
			15-100		≤56	≤58	≤60	≤63	≤65	≤67
重量 Weight	Kg	1	3-10		0.5	1.3	3.5	8	17	20.7
		2	15-100		0.7	1.7	5.1	9.5	19.8	27
轉動慣量 Moment of Inertia	$Kg.cm^2$	1	3		-	0.16	0.61	3.25	9.21	28.98
			4		0.03	0.14	0.48	2.74	7.54	23.67
			5		0.03	0.13	0.47	2.71	7.42	23.29
			6		-	0.13	0.45	2.65	7.25	22.75
			7		0.03	0.13	0.45	2.62	7.14	22.48
			8		-	0.13	0.44	2.58	7.07	22.59
			10		0.03	0.13	0.44	2.57	7.03	22.51
		2	15		-	0.13	0.47	0.47	2.71	7.42
			20,25		0.03	0.13	0.47	0.47	2.71	7.42
			30		-	0.13	0.47	0.47	2.71	7.42
			35		0.03	0.13	0.47	0.47	2.71	7.42
			40,50		0.03	0.13	0.44	0.44	2.57	7.03
			60		-	0.13	0.44	0.44	2.57	7.03
			70		0.03	0.13	0.44	0.44	2.57	7.03
			80		-	0.13	0.44	0.44	2.57	7.03
			100		0.03	0.13	0.44	0.44	2.57	7.03

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GCB042	GCB060	GCB090	GCB120	GCB140	GCB180
D1		42	60	90	120	140	180
D2		5	5	6	10	12	16
D3		13	16	22	32	40	55
D4		35	50	80	110	130	160
D5		3.4	5.5	7	9	11	13
D6		50	70	100	130	165	215
D7	L1	8	14	19	24	35	35
	L2	8	14	19	19	22	35
D8	L1	30	50	70	110	114.3	114.3
	L2	30	50	70	70	110	114.3
D9	L1	46	70	90	145	200	200
	L2	46	70	90	90	145	200
D10	L1	42	61	90	130	180	180
	L2	42	60	90	90	130	180
D11		47	65	95	122	155.5	205
M1		M4	M5	M8	M12	M16	M20
M2	L1	M4	M5	M5	M8	M12	M12
	L2	M4	M5	M5	M5	M8	M12
H1	L1	86.3	116	145	198	275	289
	L2	108.3	138.5	176.3	206	286	343.5
H2	L1	27.5	34.5	45	69	89	82
	L2	27.5	34.5	45	45	64.7	83.5
H3	L1	17	41	24	35	53.5	38
	L2	17	20	24	24	30.5	53.5
H4	L1	5	5	4	12	15	8
	L2	5	5	4	4	10	15
H5		5.5	7	10	12	13.5	20
H6		26	37	48	65	97	105
H7		4	8	8	12	12	20
H8		16	25	32	40	70.5	70.5
H9		2	2	3	5	4	6
H10		19.5	28.5	35.5	50	79	82
H11		15	18	24.5	35	43	58.7

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

GCBR Series
GCBR 系列

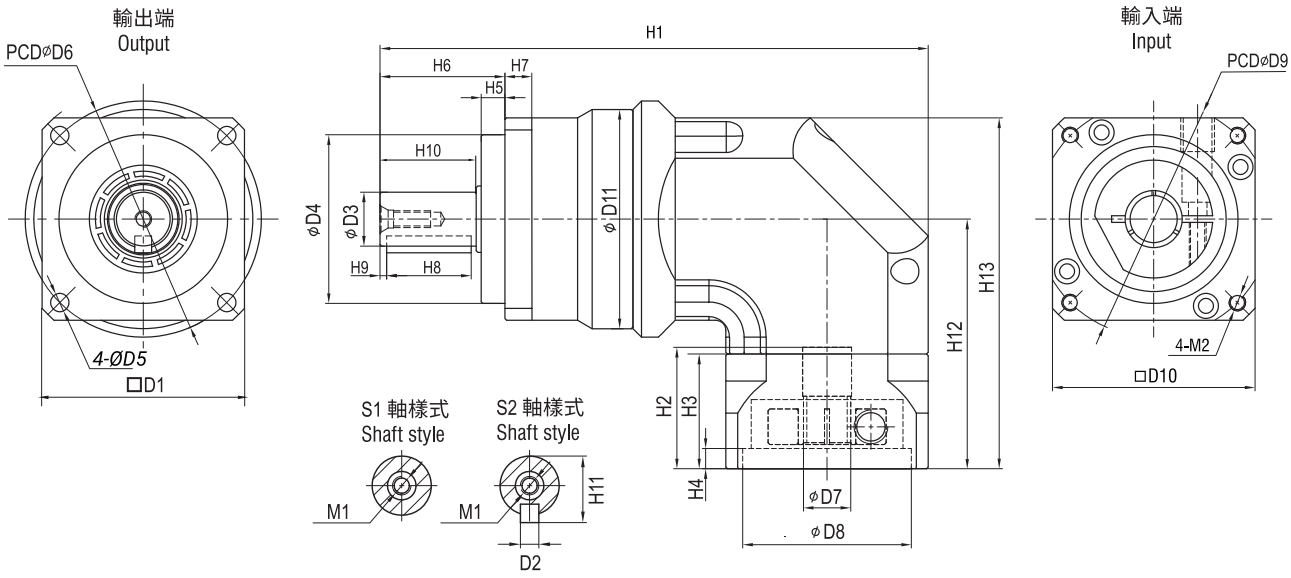
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Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GCBR042	GCBR060	GCBR090	GCBR120
額定輸出力矩 Nominal Output Torque	Nm	1	3		-	35	80	190
			4		11	45	115	245
			5		13	55	140	315
			6		-	50	140	305
			7		17	46	135	290
			8		-	43	115	255
			10		13	40	97	225
			12		-	50	140	305
			14		-	40	135	290
			16		-	43	115	255
		1,2(042)	20		13	40	97	225
		2	25		13	55	140	315
			30		-	50	140	305
			35		17	46	135	290
			40		15	43	115	255
			50		13	55	140	315
			60		-	50	140	305
			70		17	46	135	290
			80		-	43	115	255
			100		13	40	97	225
			120		-	50	140	305
			140		-	46	135	290
			160		-	43	115	255
			200		-	40	97	225
急停扭矩 Emergency Stop Torque	Nm	1, 2	4-200		3 倍額定輸出力矩 3 times of nominal output torque			
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque			
額定輸入轉速 Nominal Input Speed	rpm				3000	3000	3000	3000
最大輸入轉速 Maximum Input Speed	rpm				6000	6000	6000	5000
背隙 Backlash	arcmin	1	4-20	P0	-		≤4	
				P1	≤6		≤6	
				P2	≤8		≤8	
		2	20-200	P0	-		≤7	
				P1	≤9		≤9	
				P2	≤12		≤12	
效率 Efficiency	%	1	4-20		≥95			
		2	20-200		≥92			
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	4-200		3	6	14	25
最大徑向力 Maximum Radial Force	N				760	1450	3200	6600
最大軸向力 Maximum Axial Force	N				380	724	1600	3200
使用壽命 Service Life	hr				20,000			
使用溫度 Operating Temperature	°C				-20～90			
防護等級 Protection Class	-				IP65			
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease			
安裝位置 Mounting Position	-				任意方向 Any Direction			
噪音值 Noise	dB	1	4-20		≤63	≤66	≤67	≤70
		2	25-200		≤63	≤66	≤67	≤70
重量 Weight	Kg	1	4-20		0.9	1.5	6.4	13
		2	25-200		1.1	2.1	7.7	14
轉動慣量* Moment of Inertia	$Kg.cm^2$	1	3		-	0.35	2.25	6.84
			4,5,(6),7,(8)		0.09	0.35	2.25	6.84
			10		0.09	0.07	2.25	6.25
			12		-	0.07	2.25	6.25
			14,16		-	0.07	1.87	6.25
		1,2(042)	20		0.09	0.07	1.87	6.25
		2	25,(30), 35, 40, 50, (60), 70		0.09	0.09	0.35	2.25
			(80), 100		0.09	0.09	0.35	1.87
			120,140,160,200		-	0.09	1.87	1.87

*轉動慣量（ ）內之比數不適用於 042 框徑之減速機。The inertia ratio values shown in parentheses are not applicable to the 042 frame size gearboxes.

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GCBR042	GCBR060	GCBR090	GCBR120
D1		42	60	90	120
D2		5	5	6	10
D3		13	16	22	32
D4		35	50	80	110
D5		3.4	5.5	7	9
D6		50	70	100	130
D7	L1	8	14	19	24
	L2	8	14	19	19
D8	L1	30	50	70	110
	L2	30	50	70	70
D9	L1	46	70	90	145
	L2	46	70	90	90
D10	L1	42	60	90	130
	L2	42	60	90	90
D11		47	65	95	122
M1		M4	M5	M8	M12
M2	L1	M4	M5	M6	M8
	L2	M4	M5	M5	M6
H1	L1	103.8	162.5	212.2	288.5
	L2	125.8	185	243.5	275
H2	L1	28	36	49	68
	L2	28	36	49	49
H3	L1	25	34	38	35
	L2	25	34	38	38
H4	L1	4.5	6	6	12
	L2	4.5	6	6	6
H5		5.5	7	10	12
H6		26	37	48	65
H7		4	8	8	12
H8		16	25	32	40
H9		2	2	3	5
H10		19.5	28.5	36.5	51.5
H11		15	18	24.5	35

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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GCE Series
GCE 系列

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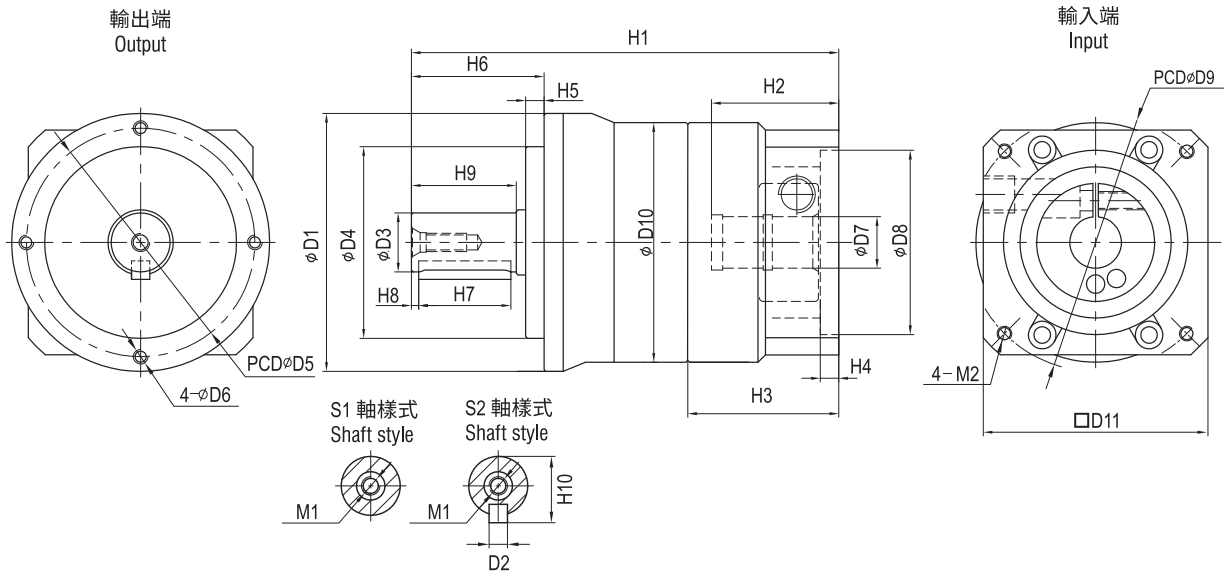
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame			
					GCE070	GCE090	GCE120	GCE155
額定輸出力矩 Nominal Output Torque	Nm	1	3		40	100	200	340
			4		45	110	280	535
			5		55	150	320	650
			6		50	140	310	600
			7		45	135	300	550
			8		45	120	255	500
			10		35	100	220	445
		2	15		40	100	200	340
			20		45	110	280	535
			25		55	150	320	650
			30		50	140	310	600
			35		45	135	300	550
			40		45	120	255	500
			50		55	150	320	650
			60		50	140	310	600
			70		45	135	300	550
			80		45	120	255	500
			100		35	100	220	445
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque			
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque			
額定輸入轉速 Nominal Input Speed	rpm				3000	3000	3000	2000
最大輸入轉速 Maximum Input Speed	rpm				6000	6000	6000	4000
背隙 Backlash	arcmin	1	3-10	P0	-			
				P1	≤3			
				P2	≤5			
		2	15-100	P0	-			
				P1	≤5			
				P2	≤7			
效率 Efficiency	%	1	3-10		≥97			
		2	15-100		≥94			
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		7	14	25	50
最大徑向力 Maximum Radial Force	N				1530	3250	6700	9400
最大軸向力 Maximum Axial Force	N				765	1625	3350	4700
使用壽命 Service Life	hr				20,000			
使用溫度 Operating Temperature	℃				-20~90			
防護等級 Protection Class	-				IP65			
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease			
安裝位置 Mounting Position	-				任意方向 Any Direction			
噪音值 Noise	dB	1	3-10		≤58	≤60	≤63	≤65
		2	15-100		≤58	≤60	≤63	≤65
重量 Weight	Kg	1	3-10		1.6	3.4	7.8	19
		2	15-100		1.9	5.2	8.5	20

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.
此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GCE070	GCE090	GCE120	GCE155
D1		70	90	120	155.5
D2		5	6	10	12
D3		16	22	32	40
D4		52	68	90	120
D5		62	80	108	140
D6		M5	M6	M8	M10
D7	L1	14	19	22	35
	L2	14	19	19	24
D8	L1	50	70	110	114.3
	L2	50	70	70	110
D9	L1	70	90	145	200
	L2	70	90	90	145
D10		N/A	95	122	155.5
D11	L1	60	90	130	180
	L2	60	90	90	130
M1		M5	M8	M12	M16
M2	L1	M4	M5	M8	M12
	L2	M4	M5	M5	M8
H1	L1	116	145	205	275
	L2	138	176.3	206.4	290
H2	L1	35	45	76.2	91
	L2	35	44	44.9	69
H3	L1	41	24	42	53.5
	L2	20	24	24	35
H4	L1	5	4	16	15
	L2	5	4	4	12
H5		5	7	17.5	15
H6		36	46	70	97
H7		25	32	41	70.5
H8		2	3	5	4
H9		28.5	37	50	79
H10		18	24.5	35	43

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame			
				GCE070	GCE090	GCE120	GCE155
轉動慣量 Moment of Inertia	$Kg.cm^2$	1	3	0.16	0.61	3.25	9.21
			4	0.14	0.48	2.74	7.54
			5	0.13	0.47	2.71	7.42
			6	0.13	0.45	2.65	7.25
			7	0.13	0.45	2.62	7.14
			8	0.13	0.44	2.58	7.07
			10	0.13	0.44	2.57	7.03
		2	15,20,25,30,35	0.13	0.47	0.47	2.71
			40,50,60,70,80,100	0.13	0.44	0.44	2.57

GCBK Series
GCBK 系列

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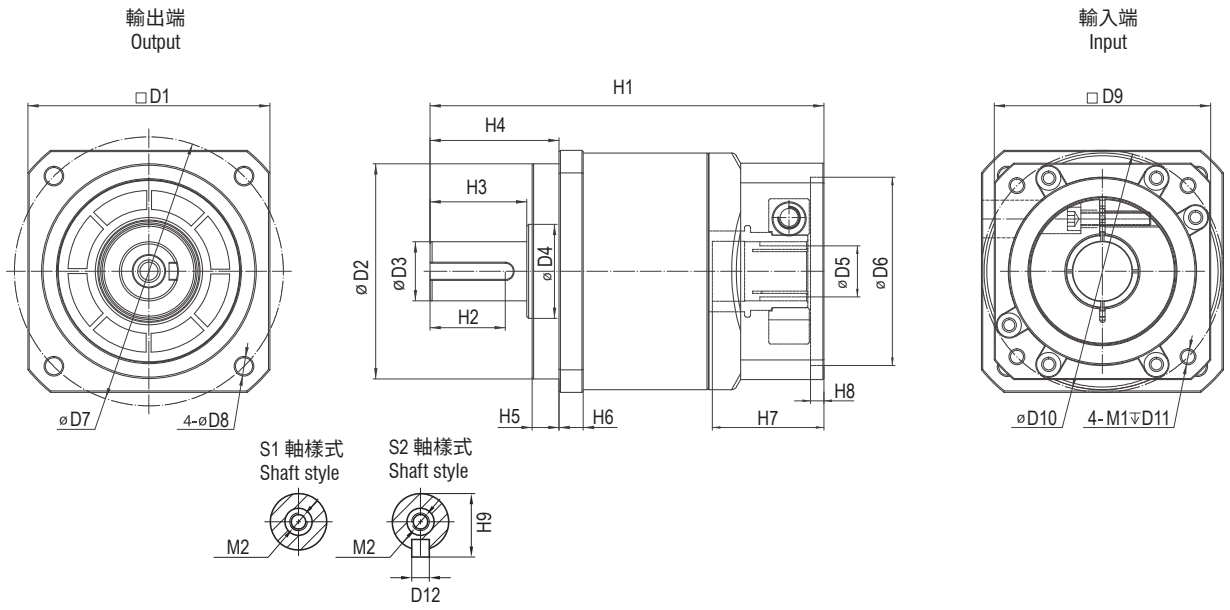
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GCBK060	GCBK090	GCBK120
額定輸出力矩 Nominal Output Torque	Nm	1	3		40	104	187
			4		40	112	261
			5		48	144	297
			7		44	126	270
			9		36	90	207
			10		36	90	207
		2	15		40	104	104
			20		40	112	112
			25		48	144	144
			30		40	104	104
			35		44	126	126
			40		40	112	112
			45		36	90	90
			50		48	144	144
			70		44	126	126
			90		36	90	90
			100		36	90	135
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque		
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque		
額定輸入轉速 Nominal Input Speed	rpm				3000	3000	3000
最大輸入轉速 Maximum Input Speed	rpm				6000	6000	6000
背隙 Backlash	arcmin	1	3-10	P0	-		-
				P1	≤3		≤3
				P2	≤5		≤5
		2	15-100	P0	-	-	-
				P1	≤5	≤5	≤5
				P2	≤7	≤7	≤7
效率 Efficiency	%	1	3-10		≥97		
		2	15-100		≥94		
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		7	14	25
最大徑向力 Maximum Radial Force	N	1	3-10		1530	3250	6700
		2	15-100				3250
最大軸向力 Maximum Axial Force	N	1	3-10		765	1625	3350
		2	15-100				1625
使用壽命 Service Life	hr	1, 2	3-100		20,000		
使用溫度 Operating Temperature	℃				-20~90		
防護等級 Protection Class	-				IP65		
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease		
安裝位置 Mounting Position	-				任意方向 Any Direction		
噪音值 Noise	dB	1	3-10		≤56	≤58	≤58
		2	15-100		≤56	≤58	≤58
重量 Weight	Kg	1	3-10		1.3	3.5	8
		2	15-100		1.7	5.1	9.5
轉動慣量 Moment of Inertia	$Kg.cm^2$	1	3		0.14	0.47	2.47
			4,5,7,9,10		0.13	0.47	2.47
		2	15,20		0.14	0.47	0.47
			25		0.13	0.47	0.47
			30		0.14	0.47	0.47
			35		0.13	0.47	0.47
			40		0.14	0.47	0.47
			45		0.13	0.47	0.47
			50		0.14	0.47	0.47
			70, 90, 100		0.13	0.47	0.47

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.
此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

Specification 規格尺寸表



The outline dimension drawing is for reference only and may differ from the illustrations. Please refer to GearKo Taiwan for accurate external proportions.
外觀尺寸線圖僅供參考，實際外觀比例可能與示意圖不同，請以台灣格高提供之確認資料為準。

型號 Model / 單位 Unit:mm		GCBK060	GCBK090	GCBK090	GCBK090	GCBK120	GCBK120
入力法蘭 Input Flange			Flange-60	Flange-80	Flange-130	Flange-80	Flange-130
D1	L1	60	90	90	90	-	115
	L2					115	
D2	L1	$50g6^{-0.009}_{-0.025}$	$80g6^{-0.01}_{-0.029}$	$80g6^{-0.01}_{-0.029}$	$80g6^{-0.01}_{-0.029}$	-	$110g6^{-0.012}_{-0.034}$
	L2					$110g6^{-0.012}_{-0.034}$	
D3	L1	$16j6^{+0.008}_{-0.003}$	$22j6^{+0.009}_{-0.004}$	$22j6^{+0.009}_{-0.004}$	$22j6^{+0.009}_{-0.004}$	-	$32j6^{+0.011}_{-0.005}$
	L2					$32j6^{+0.011}_{-0.005}$	
D4	L1	20	34.5	34.5	34.5	-	45
	L2					45	
D5	L1	$14G7^{+0.024}_{+0.006}$	$14G7^{+0.024}_{+0.006}$	$19G7^{+0.028}_{+0.007}$	$22G7^{+0.028}_{+0.007}$	-	$22G7^{+0.028}_{+0.007}$
	L2					$19G7^{+0.028}_{+0.007}$	
D6	L1	$50F7^{+0.05}_{+0.025}$	$50F7^{+0.05}_{+0.025}$	$70F7^{+0.06}_{+0.03}$	$110F7^{+0.071}_{+0.036}$	-	$110F7^{+0.071}_{+0.036}$
	L2					$70F7^{+0.06}_{+0.03}$	
D7	L1	70	100	100	100	-	130
	L2					130	
D8	L1	5.5	6.5	6.5	6.5	-	9
	L2					9	
D9	L1	60	60	80	130	-	130
	L2					80	
D10	L1	70	70	90	145	-	145
	L2					90	
D11	L1	10	10	12	18	-	18
	L2					12	
D12	L1	5	6	6	6	-	10
	L2					10	
M1	L1	M5	M5	M5	M8	-	M8
	L2					M6	
M2	L1	M5	M8	M8	M8	-	M8
	L2					M8	
H1	L1	112.5	135	147.5	165	-	202
	L2	134	163	175.5	193	216	234
H2	L1	25	30	28	28	-	50
	L2	22	28	28	28	45	45
H3	L1	28	36	36	36	-	58
	L2					58	
H4	L1	37	48	48	48	-	65
	L2					65	
H5	L1	7	10	10	10	-	5
	L2					5	
H6	L1	6	9	9	9	-	10
	L2					10	
H7	L1	31.5	31.5	41.5	60	-	60
	L2					41.5	
H8	L1	5	5	5	10	-	10
	L2					5	
H9	L1	18	24.5	24.5	24.5	-	35
	L2					35	

Precision Planetary Reducer
精密行星減速機

Universal type with complete specification
具備完整規格的通用型

+

GA/GAE SERIES系列

+

Strong and durable
強壯且耐用

GA/GAE series planetary reducer is an universal type with compelete specification,
the input end are designed as quick release flange which can be matched with servo, stepping and any other motors.

GA/GAE系列行星減速器是一種具有完整規格的通用型號，其輸入端設計為快拆式法蘭，
可與伺服、步進和其他任何馬達相匹配。

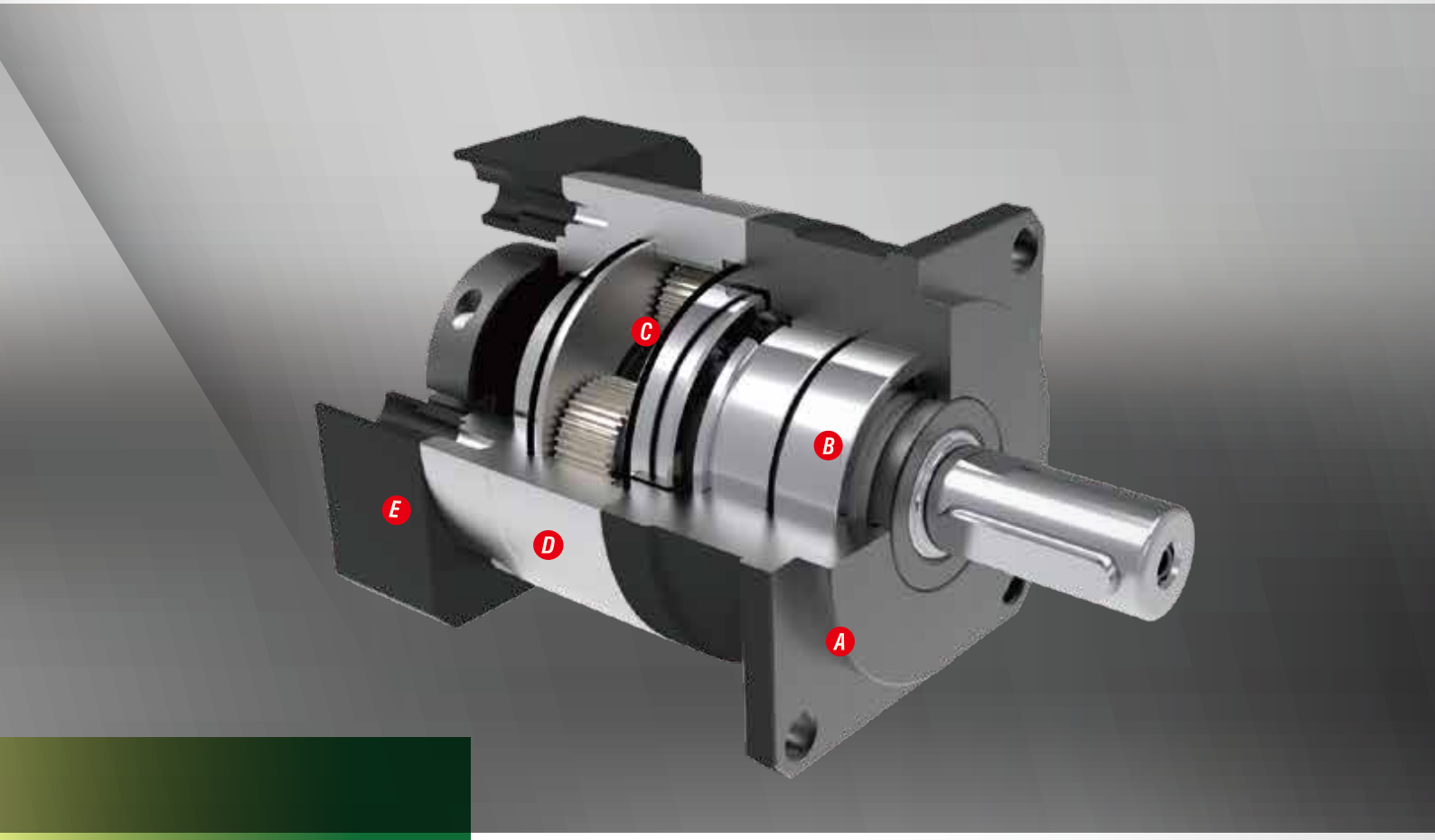
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DRIVES THE PRECISION



GA/GAE SERIES
直齒減速機產品介紹
SPUR GEARBOX INTRODUCTION



A 出力法蘭：有通孔(GA)及鎖孔(GAE)系列兩種設計，可應用在各種不同場合
Output flanges are available in two designs: with through hole (GA) and with keyway (GAE) series, and can be applied in various different situations.

B 雙軸承設計：提高傳動效率，增強軸向剛度，增加穩定性
Dual-bearing design: improves transmission efficiency, enhances axial stiffness, and increases stability.

C 齒輪離子氮化：嚴格控制熱處理的參數，齒輪具有優異的耐磨性，齒面硬度可承受更大的負載
Gear ion nitriding: by strictly controlling the parameters of heat treatment, the gear has excellent wear resistance, and the tooth surface hardness can withstand larger loads.

D 內齒環：內齒環採用拉齒設計，其結構簡單，維護方便，且大量生產下仍可保持高加工精度
Internal gear: the internal gear adopts a tooth-pulling design, which has a simple structure, easy maintenance, and can maintain high processing accuracy even under mass production.

E 入力法蘭：快拆式設計，組裝便捷容易，尺寸齊全，適配市面上絕大多數的伺服電機和步進馬達
Input flange: quick-release design, easy to assemble and convenient, complete dimensions, compatible with the vast majority of servo motors and stepper motors on the market.

較高的穩定性
較長的使用壽命
較簡單的製造工藝

Higher stability
Longer service life
Simpler manufacturing process

GA系列 / GA SERIES



直齒型：GA系列
特色：泛用型
方形出力端/通孔式安裝
背隙：≦10弧分
框號：42,62,90
噪音值：60-67dBA
IP等級：IP65

Spur Tooth Type：GA SERIES
Feature：Universal,square output
Backlash：≦10 arcmin
Size：42,62,90
Noise：60-67dBA
ingress Protetion：IP65

GAE系列 / GAE SERIES



直齒型：GAE系列
特色：泛用型
圓形出力端/牙孔式安裝
背隙：≦10弧分
框號：40,60,80
噪音值：60-67dBA
IP等級：IP65

Spur Tooth Type：GAE SERIES
Feature：Universal,round output
Backlash：≦10 arcmin
Size：40,60,80
Noise：60-67dBA
ingress Protetion：IP65



Choose spur gearboxes for a more efficient, longer-lasting, and more stable transmission at a lower cost!

選擇直齒減速機，享受更高效率、更長壽命、更穩定傳動，且價格更為便宜！

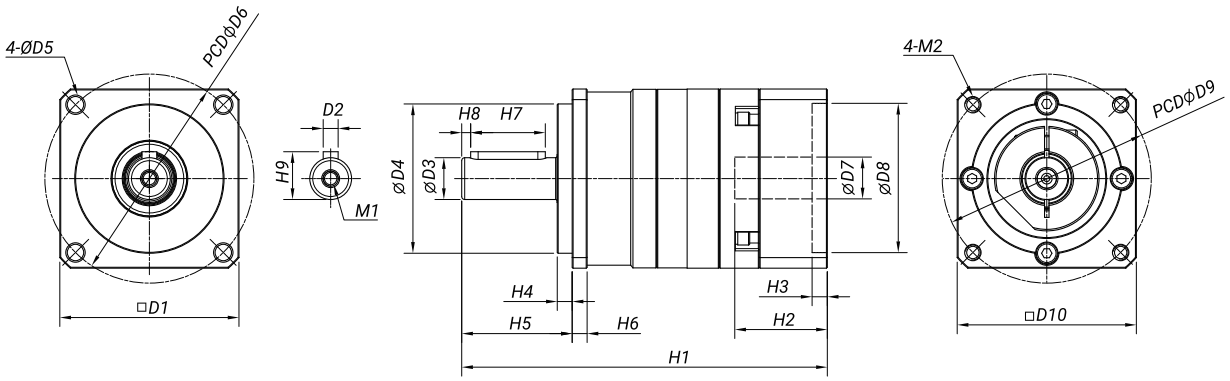
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GA042	GA062	GA090
額定輸出力矩 Nominal Output Torque	Nm	1	3		19	45	108
			4		18	41	116
			5		20	49	135
			7		17	41	116
			10		13	33	82
		2	15		19	45	108
			20		18	41	116
			25		20	49	135
			35		17	41	116
			50		20	49	135
			70		17	41	116
			100		13	33	82
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque		
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque		
額定輸入轉速 Nominal Input Speed	rpm				3000	3000	3000
最大輸入轉速 Maximum Input Speed	rpm				6000	6000	5000
背隙 Backlash	arcmin	1	3-10	P0	-		
				P1	≤10		
				P2	-		
		2	15-100	P0	-		
				P1	≤12		
				P2	-		
效率 Efficiency	%	1	3-10		≥97		
		2	15-100		≥94		
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		3	7	14
最大徑向力 Maximum Radial Force	N				400	730	1100
最大軸向力 Maximum Axial Force	N				480	900	1320
使用壽命 Service Life	hr				20,000		
使用溫度 Operating Temperature	℃				-20～90		
防護等級 Protection Class	-				IP65		
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease		
安裝位置 Mounting Position	-				任意方向 Any Direction		
噪音值 Noise	dB	1	3-10		≤60	≤63	≤65
		2	15-100		≤60	≤63	≤65
重量 Weight	Kg	1	3-10		0.5	1	3.2
		2	15-100		0.6	1.2	4

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

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Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GA042	GA062	GA090
D1		42	60	90
D2		3	5	6
D3		10	14	20
D4		35	50	80
D5		4.5	5.5	6.5
D6		50	70	100
D7		8	14	19
D8		30	50	70
D9		46	70	90
D10		40	60	90
M1		M4	M5	M6
M2		M4	M5	M6
H1	L1	96.65	122.45	149.2
	L2	113.15	143.35	175.5
H2		26	31	41
H3		5.1	5.1	6.1
H4		2	5	3
H5		26	37	40
H6		4	N/A	N/A
H7		18	25	30
H8		2.5	3	4
H9		11.2	16	22.5

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame		
				GA042	GA062	GA090
轉動慣量 Moment of Inertia	Kg.cm²	1	3	0.03	0.16	0.61
			4	0.03	0.14	0.48
			5	0.03	0.13	0.47
			7	0.03	0.13	0.45
			10	0.03	0.13	0.44
		2	15,20,25,35	0.03	0.13	0.44
			50,70,100	0.03	0.13	0.43

GAE Series
GAE 系列

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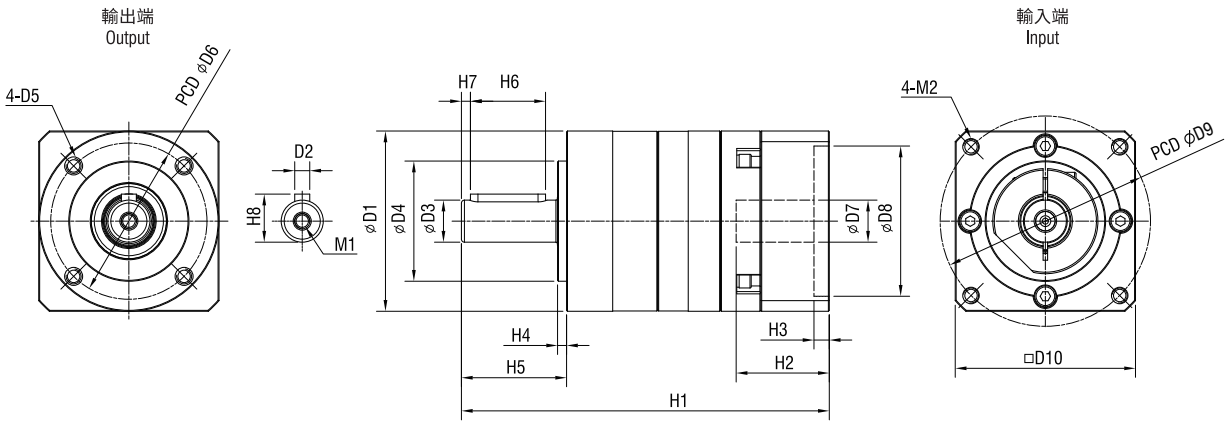
Performance data 性能資料表

規格 Specification		段 Stage	減速比 Speed Ratio		框 Frame GAE040	GAE060	GAE080
額定輸出力矩 Nominal Output Torque	Nm	1	3		19	45	108
			4		18	41	116
			5		20	49	135
			7		17	41	116
			10		13	33	82
		2	15		19	45	108
			20		18	41	116
			25		20	49	135
			35		17	41	116
			50		20	49	135
			70		17	41	116
			100		13	33	82
急停扭矩 Emergency Stop Torque	Nm	1, 2	3-100		3 倍額定輸出力矩 3 times of nominal output torque		
最大輸出扭矩 Maximum Output Torque	Nm				1.8 倍額定輸出力矩 1.8 times of nominal output torque		
額定輸入轉速 Nominal Input Speed	rpm				3000	3000	3000
最大輸入轉速 Maximum Input Speed	rpm				6000	6000	5000
背隙 Backlash	arcmin	1	3-10	P0	-		
				P1	≤10		
				P2	-		
		2	15-100	P0	-		
				P1	≤12		
				P2	-		
效率 Efficiency	%	1	3-10		≥97		
		2	15-100		≥94		
扭轉剛性 Torsional Rigidity	Nm/arcmin	1, 2	3-100		3	7	14
最大徑向力 Maximum Radial Force	N				400	730	1100
最大軸向力 Maximum Axial Force	N				480	900	1320
使用壽命 Service Life	hr				20,000		
使用溫度 Operating Temperature	℃				-20~90		
防護等級 Protection Class	-				IP65		
潤滑 Lubrication	-				合成潤滑油脂 Synthetic Grease		
安裝位置 Mounting Position	-				任意方向 Any Direction		
噪音值 Noise	dB	1	3-10		≤60	≤63	≤65
		2	15-100		≤60	≤63	≤65
重量 Weight	Kg	1	3-10		0.5	1	2.9
		2	15-100		0.6	1.4	3.7

1. Speed ratio 減速比 ($i=S_{in} / S_{out}$)
2. When the output speed is 100 rpm, it acts on the center of the output shaft. 輸出轉速 100rpm 時，作用於輸出軸中心
3. For Continuous operation, the service life is no less than 10,000 hours. 連續運轉時，壽命為 10,000 小時
4. The noise value was measured based on the input rotational speed of 3000 rpm, i=10. 噪音值為輸入轉速 3000rpm，i=10 所得

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.
此型錄中所有產品型號及參數如有變更，恕不另行公告。訂購前請與我們確認。

Specification 規格尺寸表



型號 Model / 單位 Unit:mm		GAE040	GAE060	GAE080
D1		40	60	80
D2		3	5	6
D3		10	14	20
D4		26	40	60
D5		M4	M5	M6
D6		34	52	70
D7		8	14	19
D8		30	50	70
D9		46	70	90
D10		40	60	90
M1		M4	M5	M6
M2		M4	M5	M6
H1	L1	96.65	122.45	149.2
	L2	113.15	143.35	175.5
H2		26	31	41
H3		5.1	5.1	6.1
H4		2	3	3
H5		26	35	40
H6		18	25	30
H7		2.5	3	4
H8		11.2	16	22.5

Moment of Inertia 轉動慣量

規格 Specification		段 Stage	減速比 Speed Ratio	框 Frame		
				GAE040	GAE060	GAE080
轉動慣量 Moment of Inertia	Kg.cm²	1	3	0.03	0.16	0.61
			4	0.03	0.14	0.48
			5	0.03	0.13	0.47
			7	0.03	0.13	0.45
			10	0.03	0.13	0.44
		2	15,20,25,35	0.03	0.13	0.44
			50,70,100	0.03	0.13	0.43

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

+



+

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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GM Series
GM 系列

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GMN060	–	10	–	ST
Model 型號		Reduction Ratio 減速比		Motor Type 馬達類型

GMN060
GMN085
GMN130
GMN200
GMN280
GMN450

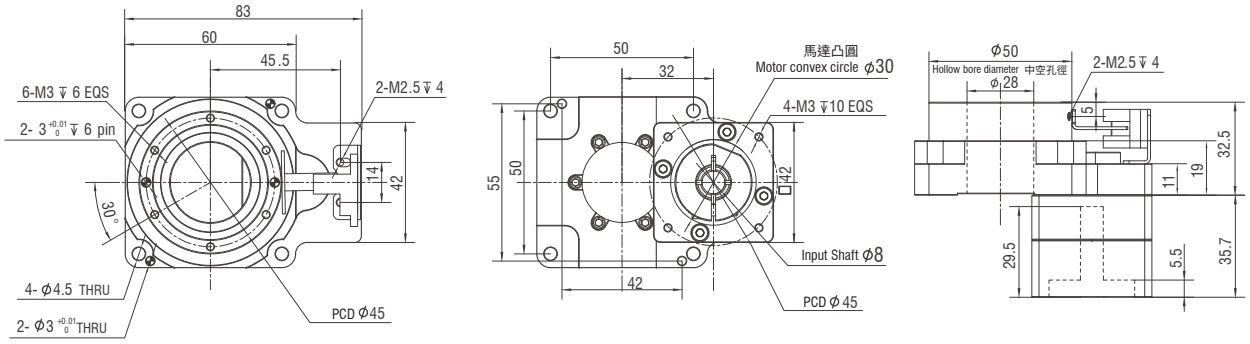
1:05
1:10
1:18

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

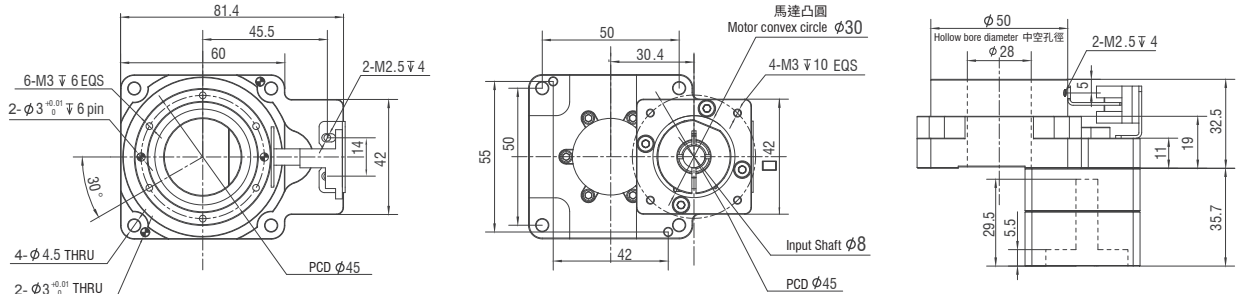


GMN060 系列 Series

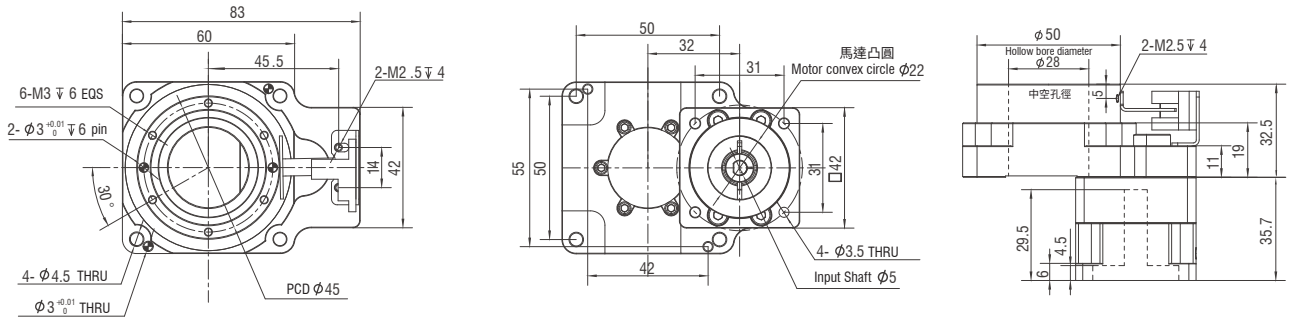
50/100w AC 伺服馬達 Servo Motor ｜ 減速比 1:5



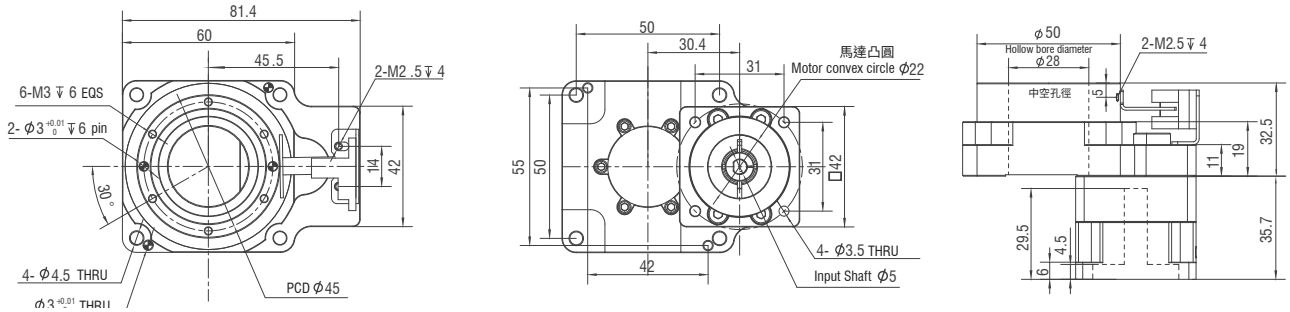
50/100w AC 伺服馬達 Servo Motor ｜ 減速比 1:10



42 型步進馬達 Stepping Motor | 減速比 1:5



42 型步進馬達 Stepping Motor | 減速比 1:10



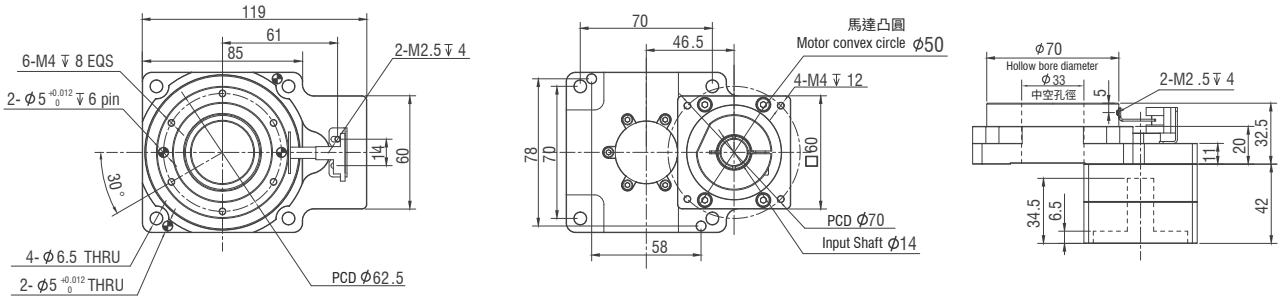
Performance data 性能資料表

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 Concentricity 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			

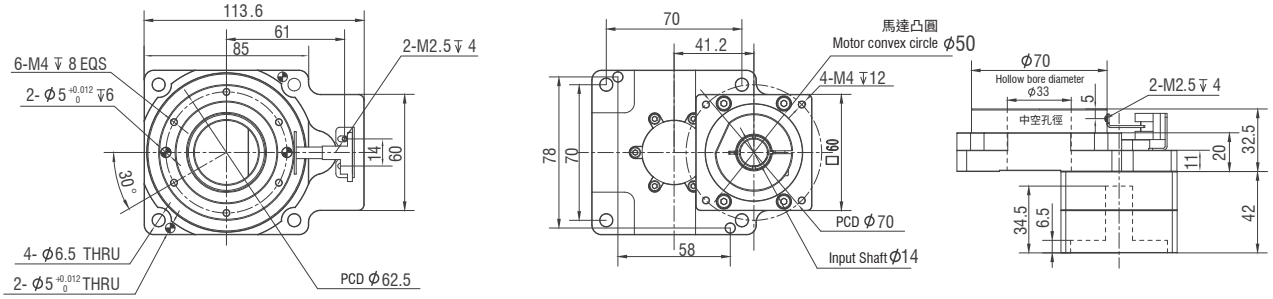
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GMN085 系列 Series

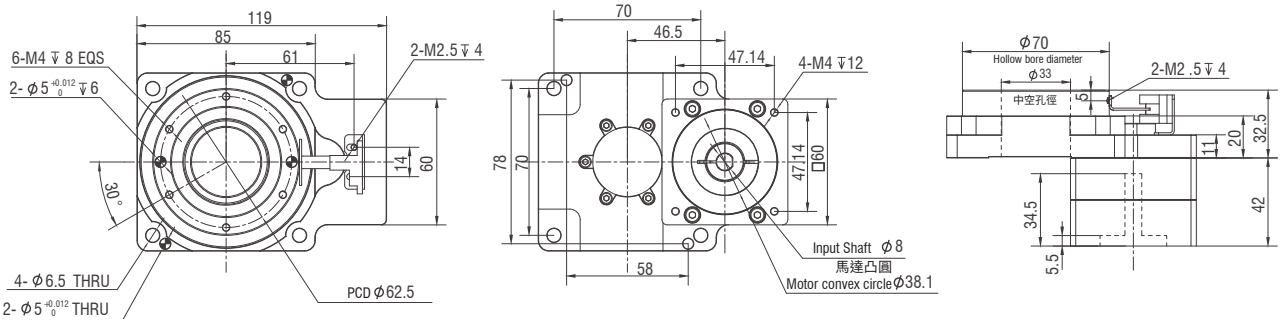
200/400w AC 伺服馬達 Servo Motor ｜ 減速比 1:5



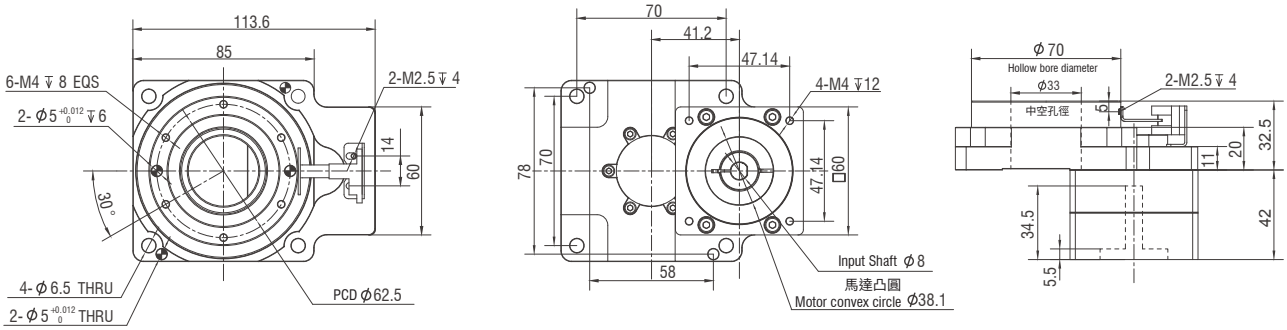
200/400w AC伺服馬達 Servo Motor ｜ 減速比 1:10



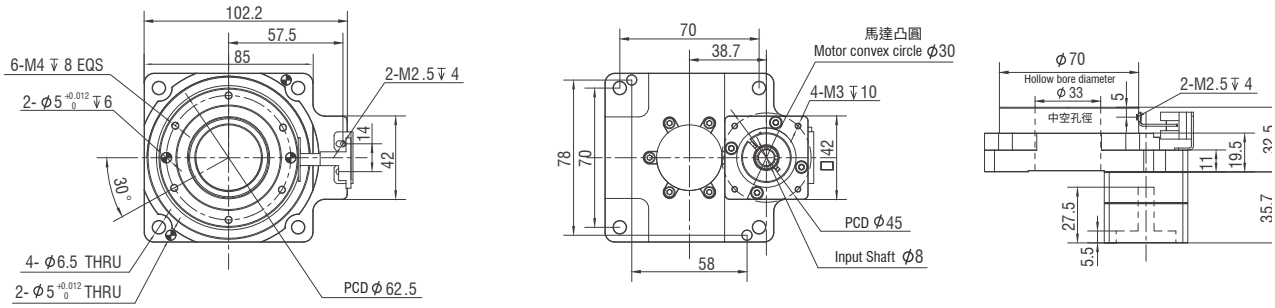
57型步進馬達 Stepping Motor ｜ 減速比 1:5



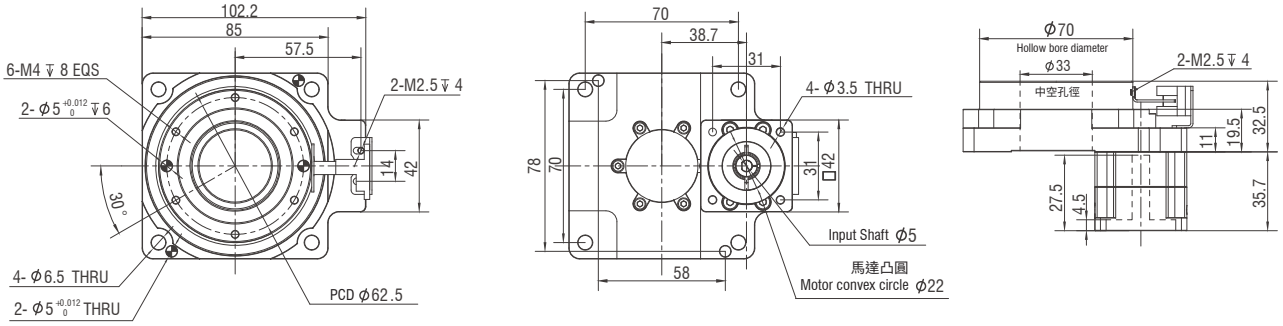
57型步進馬達 Stepping Motor ｜ 減速比 1:10



50/100w AC 伺服馬達 Servo Motor ｜ 減速比 1:18



42 型步進馬達 Stepping Motor ｜ 減速比 1:18



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	12	
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	20	
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 Concentricity 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					

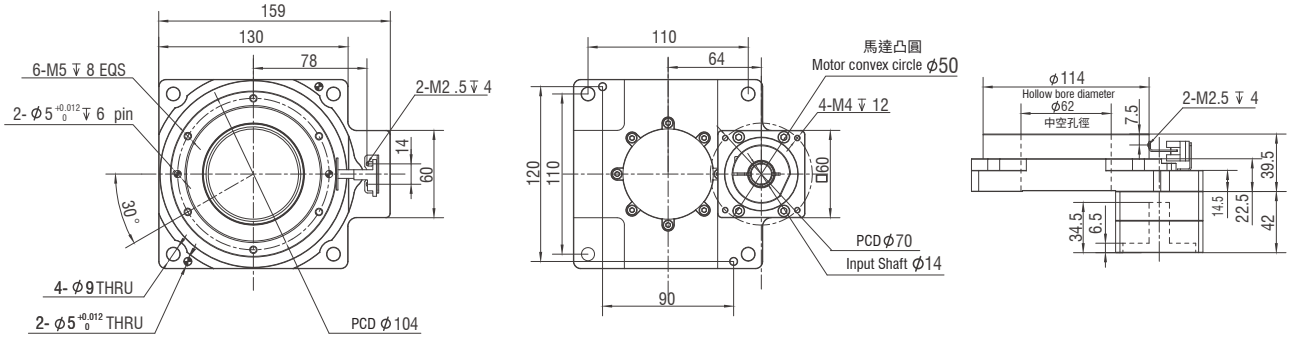
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GM Series
GM 系列

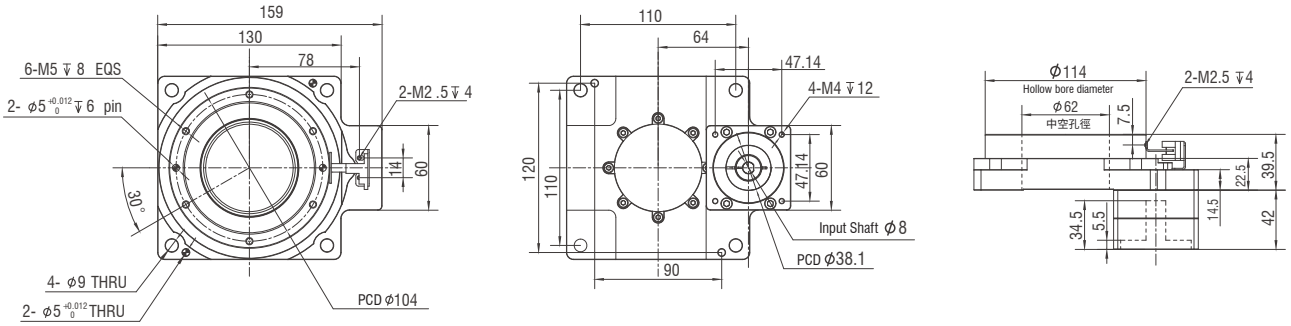
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GMN130 系列 Series

200/400w AC 伺服馬達 Servo Motor



57 型步進馬達 Stepping Motor



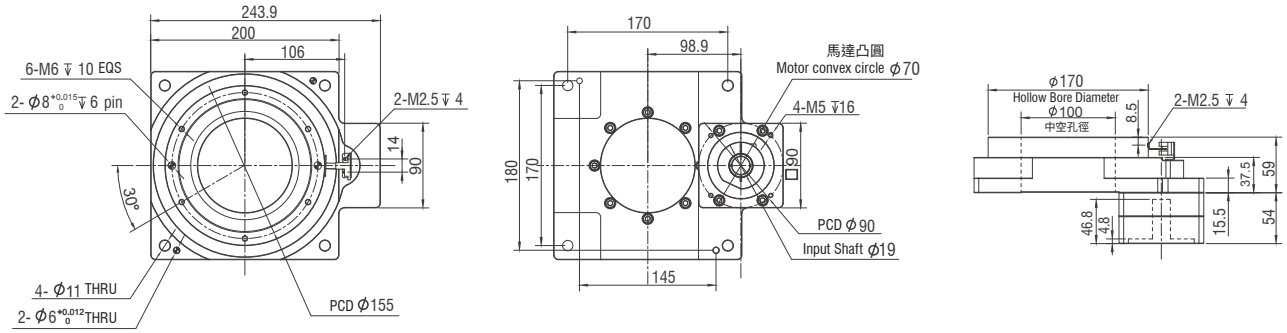
Performance data 性能資料表

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 Concentricity 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			

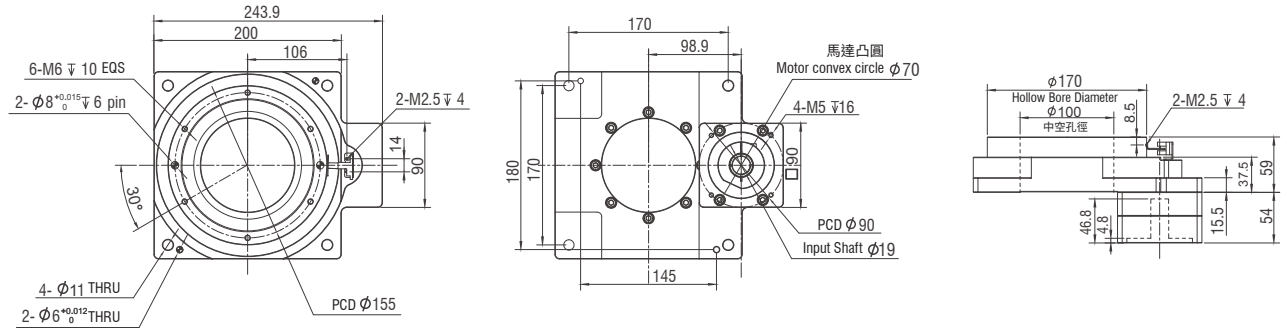
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GMN200 系列 Series

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 Concentricity 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			

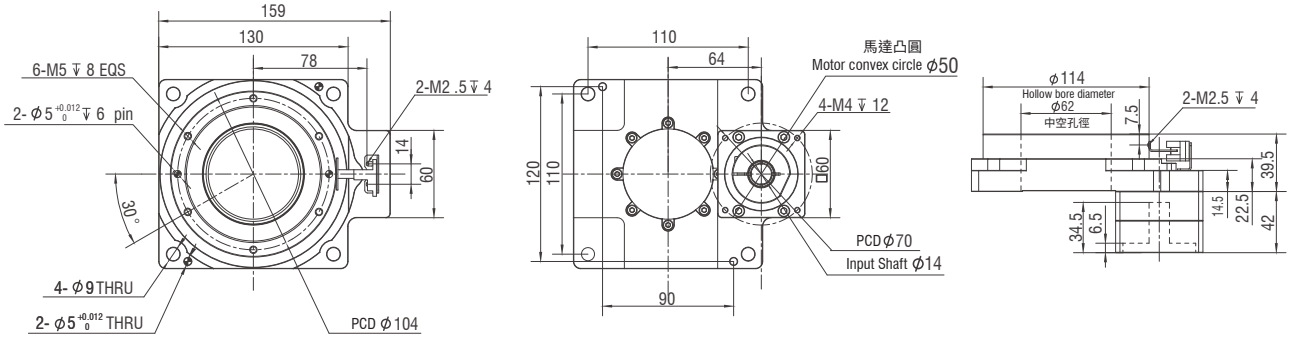
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GM Series
GM 系列

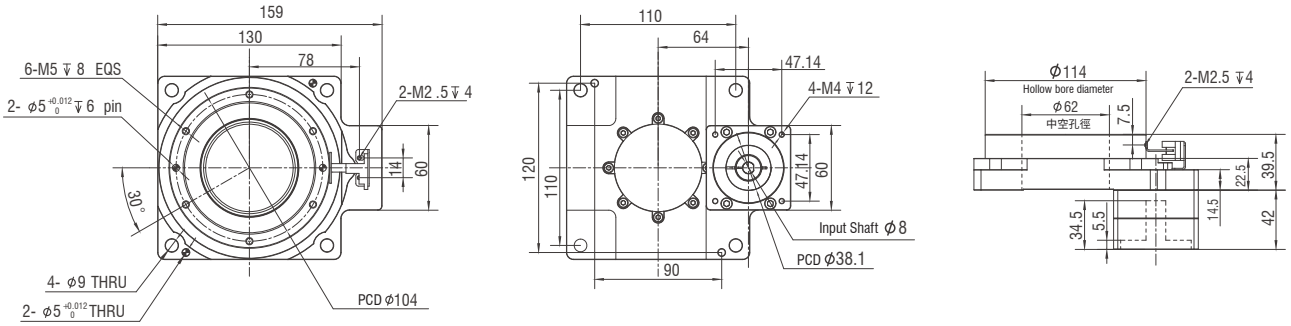
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GMN280 系列 Series

1500w AC 伺服馬達 Servo Motor



110 型步進馬達 Stepping Motor



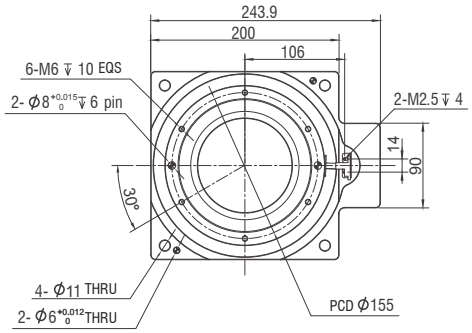
Performance data 性能資料表

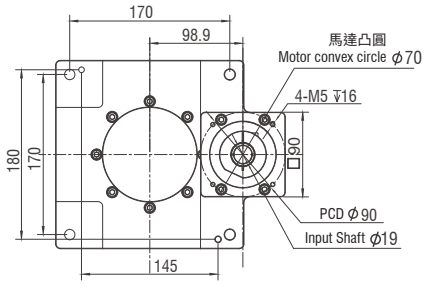
規格 Specification		GMN280 適用馬達 Compatible Motors			
		1500w AC 伺服馬達 1500w AC Servo Motor		110 型步進馬達 110 mm Stepping Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing			
減速比 Speed ratio		1:10	1:18	1:10	1:18
容許轉矩 Allowable torque	Nm	126	100	126	100
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (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 Concentricity 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			

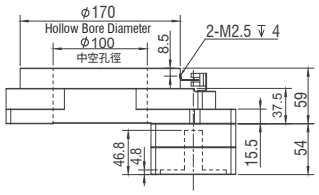
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GMN350 系列 Series

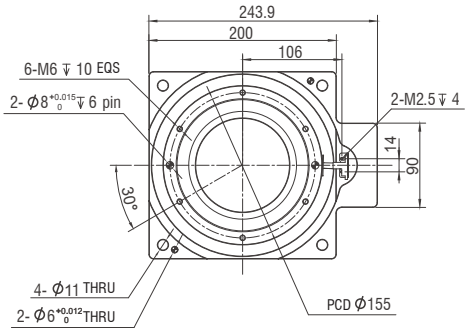
1500w AC 伺服馬達 Servo Motor

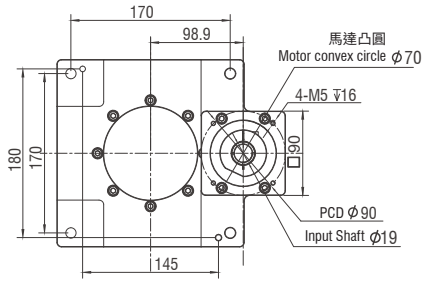


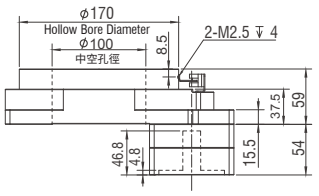




1500w AC 伺服馬達 Servo Motor







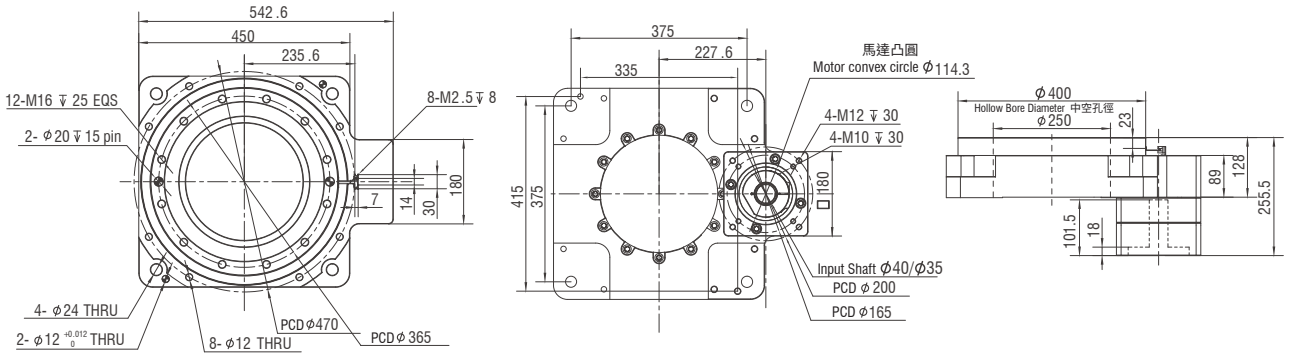
Performance data 性能資料表

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	≤200r/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 Concentricity 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	

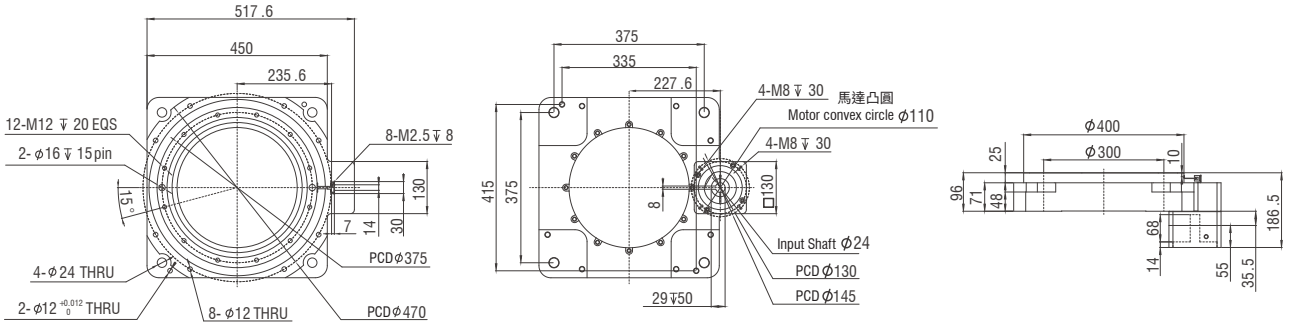
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GMN450/450B 系列 Series

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 Concentricity 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 Concentricity 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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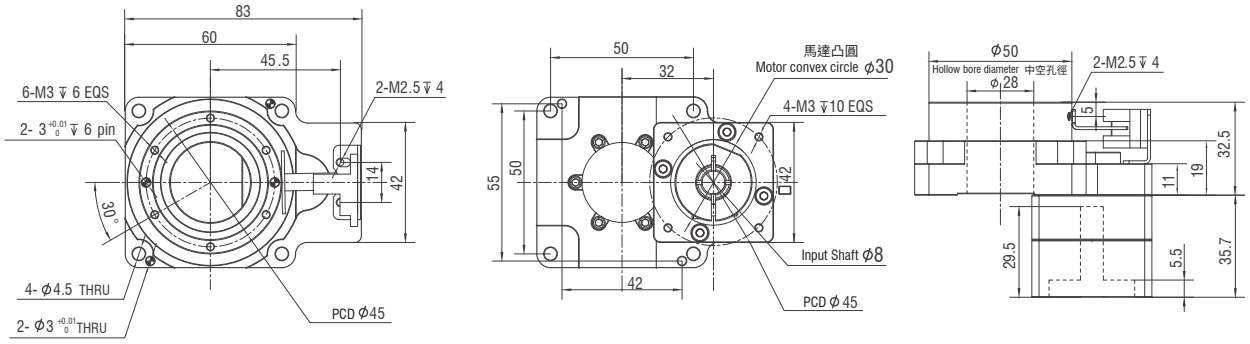
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GMN	Z	060	–	10*N
Model 型號	Right Angle Reducer 轉角減速機	規格 Specification		Reduction Ratio 減速比

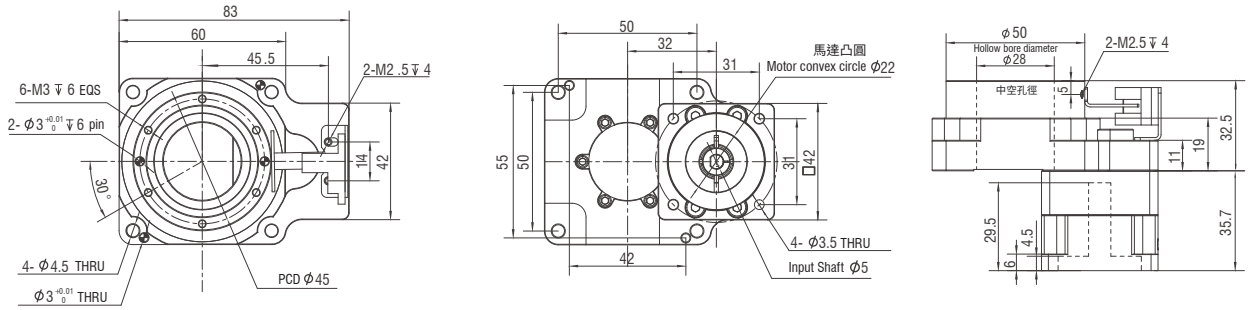


GMNZ060 系列 Series

GMNZ060-0.5*N



GMNZ060-10*N



Performance data 性能資料表

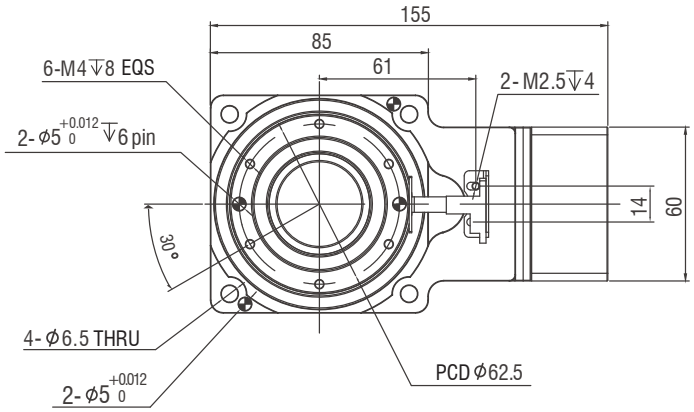
規格 Specification		GMNZ060 適用馬達 Compatible Motors	
		50/100w AC 伺服馬達 50/100w AC Servo Motor	
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing	
減速比 Speed ratio		1:5	1:10
容許轉矩 Allowable torque	Nm	5	4
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)	
容許慣性載重 Allow inertial 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 Concentricity 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	

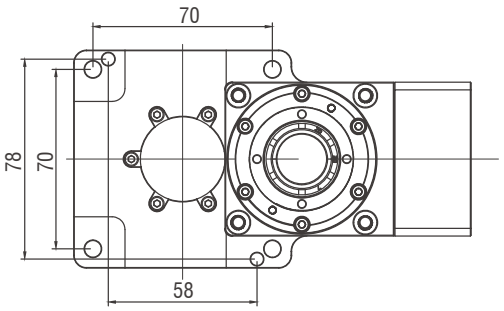
規格 Specification	減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-042
額定輸出扭矩 Rated Output Torque (Nm)	2	12
	3	7
	5	2.5
急停扭矩 Emergency Stop Torque	Nm	2 倍於 T2N/2 2 times T2N/2
額定輸入轉速 Rated Input Speed	rpm	1500
最大輸入轉速 Maximum input speed	rpm	2500
回程間隙 Backlash	arcmin	≤5
扭轉剛性 Torsional Rigidity	Nm/arcmin	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

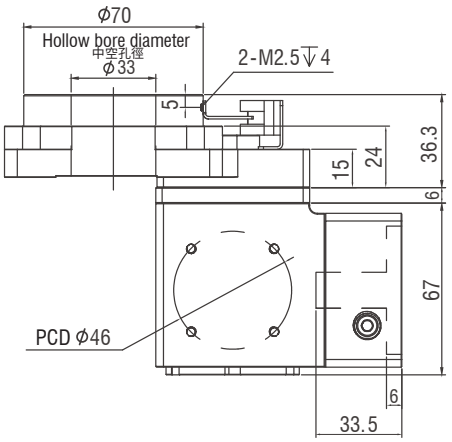
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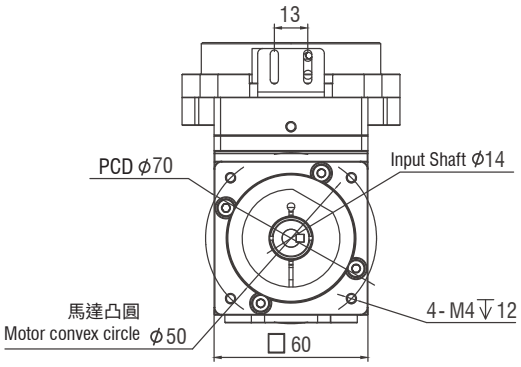
GMNZ085 系列 Series

GMNZ085-0.5*N

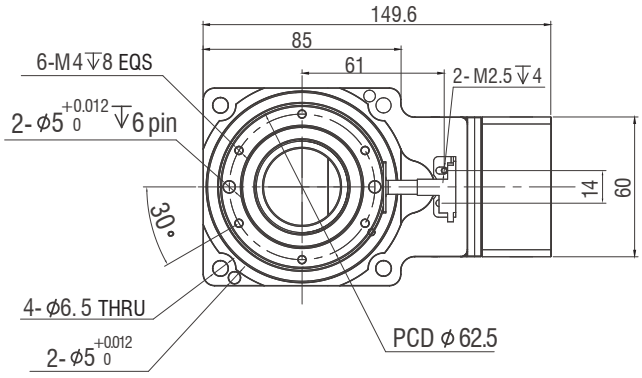


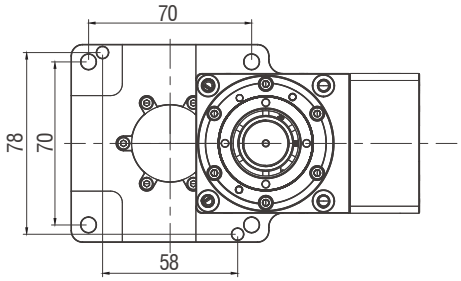


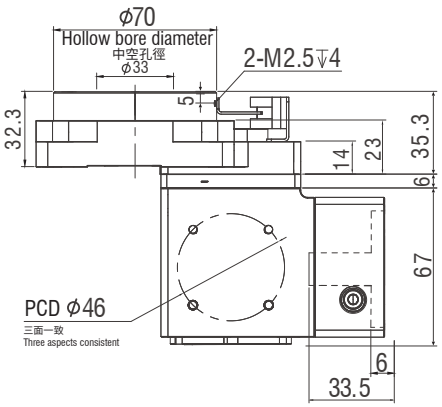


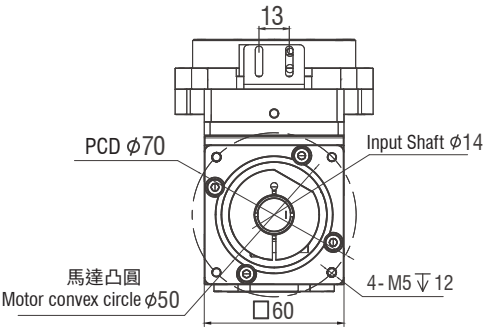


GMNZ085-10*N









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 Concentricity 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 Emergency 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

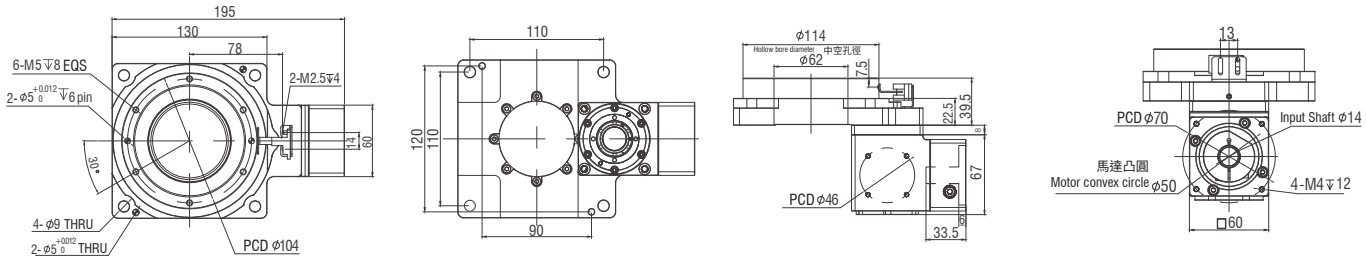
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GM Series
GM 系列

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GMNZ130 系列 Series

GMNZ130-10*N



Performance data 性能資料表

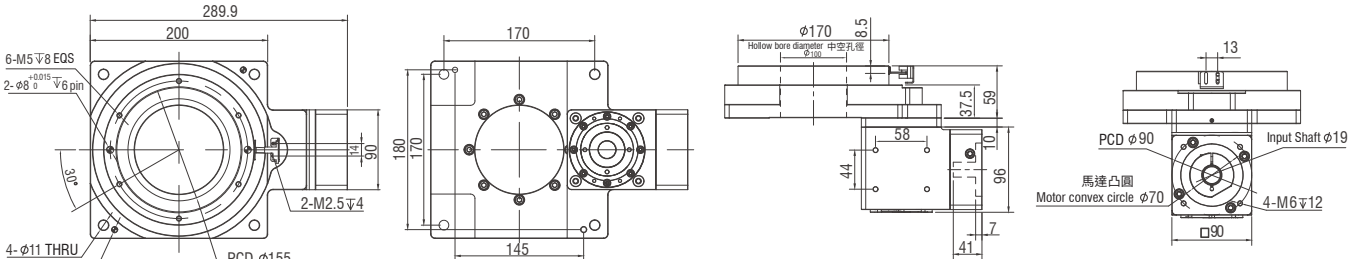
規格 Specification		GMNZ130 適用馬達 Compatible Motors
		200/400w AC 伺服馬達 200/400w AC Servo Motor
軸承類型 Bearing type		交叉滾子軸承 Crossed roller bearing
減速比 Speed ratio		1:10
容許轉矩 Allowable torque	Nm	52
允許盤面輸出速度 Allowable disk output speed	rpm	≤200r/min (間歇運轉 Intermittent Operation)
容許慣性載重 Allow inertial load	Nm	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 Concentricity 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)	2	32
	3	24
	5	8
急停扭矩 Emergency 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	℃	-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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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 Concentricity 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

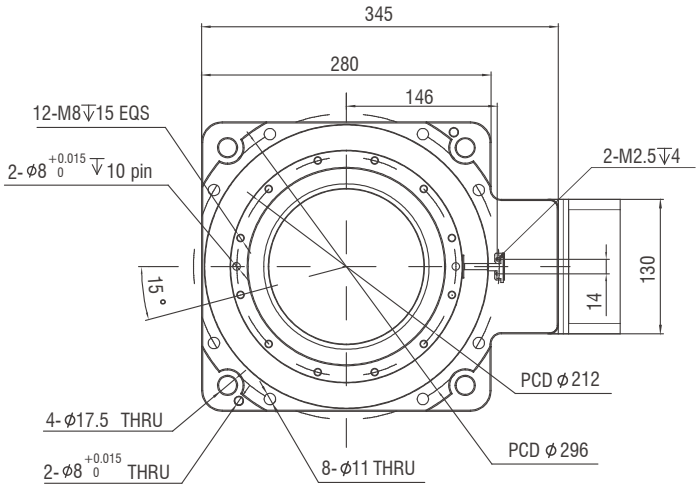
規格 Specification	減速比 Speed ratio	直角式轉角器 Direct-drive right angle reducer-090
額定輸出扭矩 Rated Output Torque(Nm)	2	60
	3	48
	5	16
急停扭矩 Emergency Stop Torque	Nm	2 倍於 T2N/2 2 times T2N/2
額定輸入轉速 Rated Input Speed	rpm	1000
最大輸入轉速 Maximum input speed	rpm	2500
回程間隙 Backlash	arcmin	≤5
扭轉剛性 Torsional Rigidity	Nm/arcmin	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	℃	-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

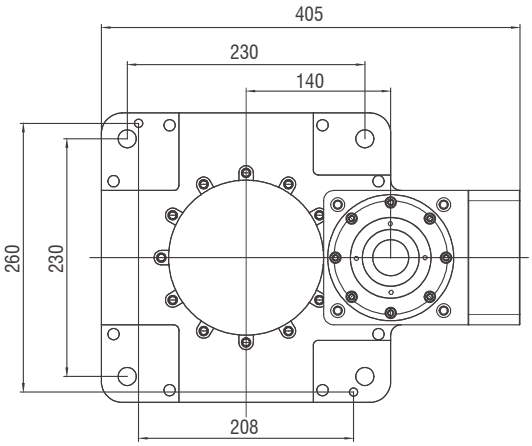
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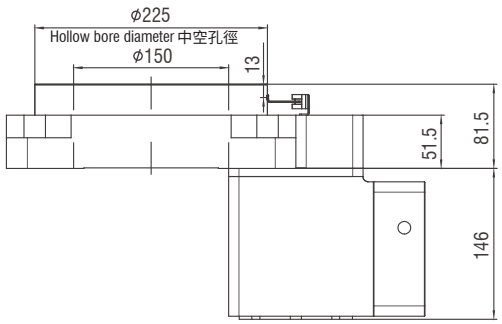
www.gearko-tw.com

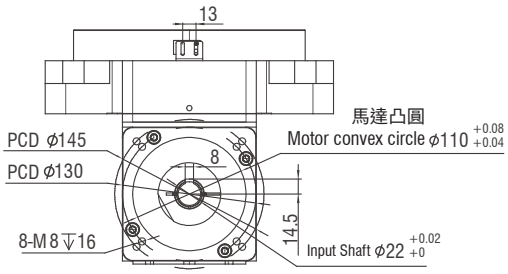
GMNZ280 系列 Series

GMNZ280-10*N









Performance data 性能資料表

規格 Specification		GMNZ280 適用馬達 Compatible Motors
		750/1500w AC 伺服馬達 750/1500w 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 Concentricity 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 Emergency 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	℃	-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

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Direction-Changing Gearbox
轉向器

High Efficiency and high strength
高效率 高強度

+



+

Excellent load capacity
承載能力卓越

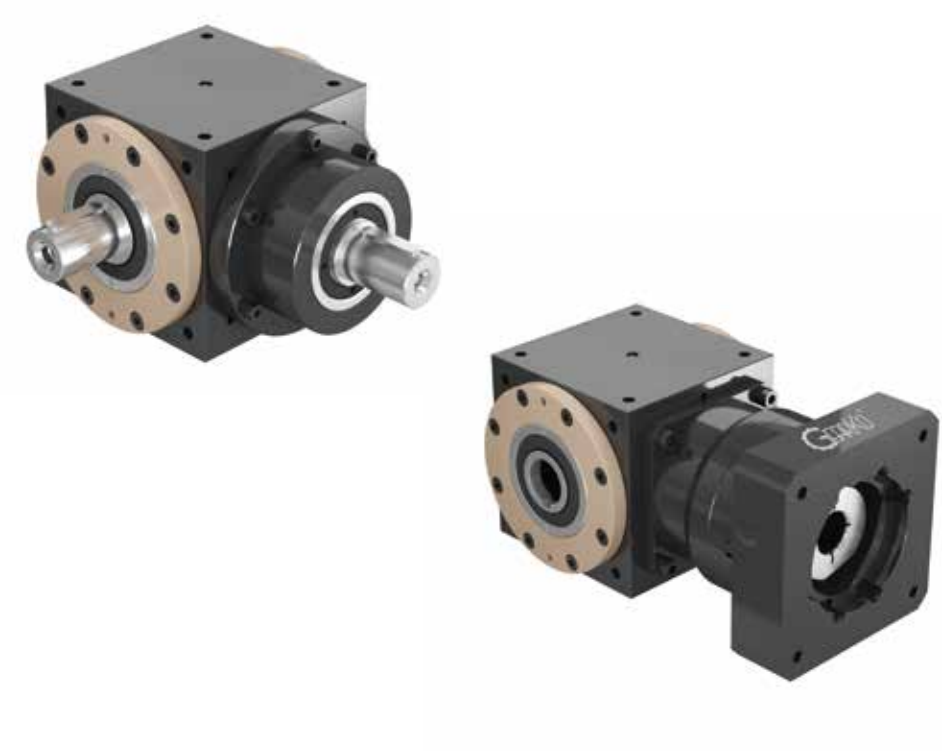
This direction-changing gearbox offers high strength, high efficiency, low backlash, and outstanding load capacity.
It operates smoothly with low noise and is available in various output configurations,
making it a well-rounded and reliable solution.

此款轉向器具備高強度、高效率、低背隙等特性，
承載能力大、運行平穩且噪音低，同時具備多元的輸出形式，是性能全面的可靠產品。

GEARKO®

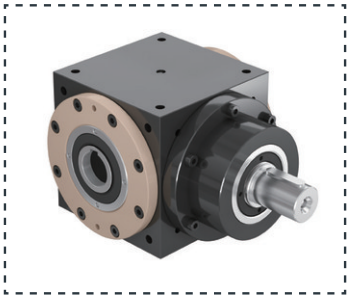
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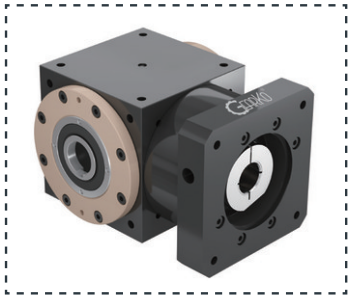
DRIVES THE PRECISION

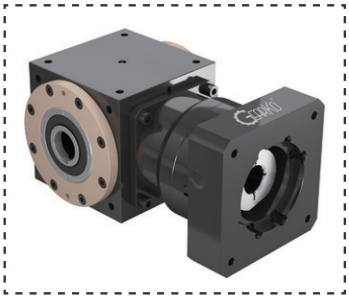


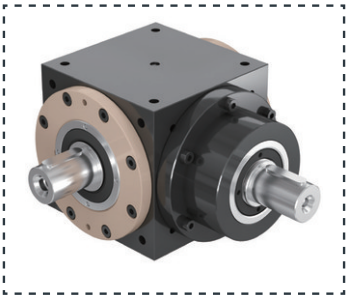
Direction-changing Gearbox Model Designation 轉向器型號表示

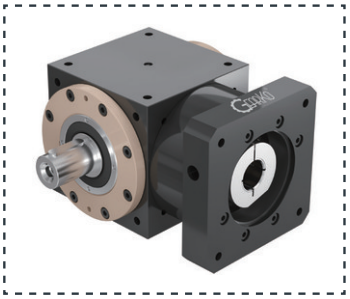
GST075	–	F	S	T	L	–	001	–	P0
Model 換向器型號		Type of the Input Interface 輸入端接口形式	Type of the Output Interface 輸出端接口形式	Bearing Form 軸承形式	Axial Direction 軸向		Overall reduction ratio 總減速比		Accuracy Level 精度等級
GST075 GST075 GST110 GST140 GST170 GST210		F: 法蘭輸入 Flange input R: 減速機輸入 Reducer Input D: 軸輸入 Axis Input	O: 孔輸出 Hole Output S: 單軸輸出 Single Axis Output V: 雙軸輸出 Dual Axis Output	T: 圓錐滾子軸承 Tapered Roller Bearing B: 深溝球軸承 Deep Groove Ball Bearings	L: Left Output 左側輸出 R: Right Output 右側輸出 (Empty): indicated Bilateral Output (空): 雙側輸出		001: 總減速比 Overall Reduction Ratio 007/L1/090: 7比/單段/90型減速機 Ratio 7/Single Stage/-Frame 90 Gearbox 025/L2/140: 25比/雙段/140型減速機 Ratio 25/Double Stage/-Frame 140 Gearbox		P0 P1 P2

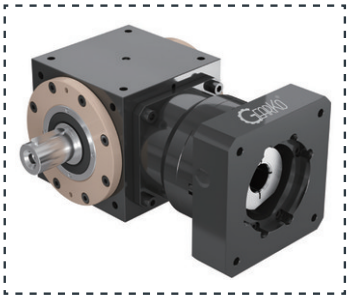

GST-DOT-001

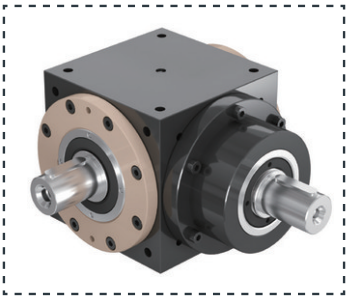

GST-FOT-001

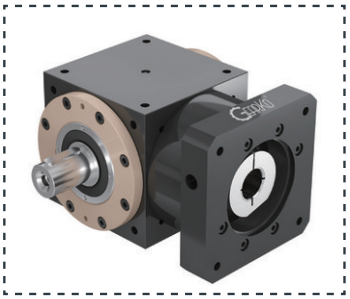

GST-ROT-L1

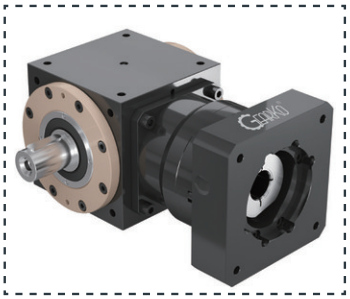

GST-DST-001


GST-FST-001


GST-RST-L1


GST-DVT-001


GST-FVT-001


GST-RVT-L1

Performance data 性能資料表

單段減速機 1-Stage

規格 Specification		代號 Symbol	速比 Speed Ratio	框 Frame						
				075	090	110	140	170	210	240
額定輸出力矩 Rated Output Torque	Nm	T2N	1	45	78	150	360	585	1300	2150
最大加速扭矩 Maximum Acceleration Torque	Nm	T2B	1	68	117	225	540	878	1950	3225
最大輸出扭矩 Maximum Output Torque	Nm	T2NOT	1	135	234	450	1080	1755	3900	6450
額定輸入轉速 Nominal Input Speed	rpm	n1N	1	3000	3000	2500	2500	2000	2000	2000
最大輸入轉速 Maximum Input Speed	rpm	n1B	1	6000	5500	4500	3500	3000	3000	3000
背隙 Backlash	arcmin	P0	1	≤3						
		P1	1	≤6						
		P2	1	≤9						
容許徑向力 Maximum Radial Force	N	F2rB	1	2400	3200	5000	6500	9100	13000	16000
容許軸向力 Maximum Axial Force	N	F2aB	1	1200	1600	2500	3250	4550	6500	8500
使用壽命 Service Life	hr	LH	1	20000						
效率 Efficiency	%	η	1	≥98						
使用溫度 Operating Temperature	°C		1	-20~90						
潤滑 Lubrication	-		1	合成潤滑油脂 Synthetic Grease						
噪音 Noise	dB		1	≤67	≤71	≤73	≤74	≤75	≤77	≤83
轉動慣量 Moment of Inertia	$Kg.cm^2$		1	1.8	4.9	12.5	36.8	85.9	287	365.38

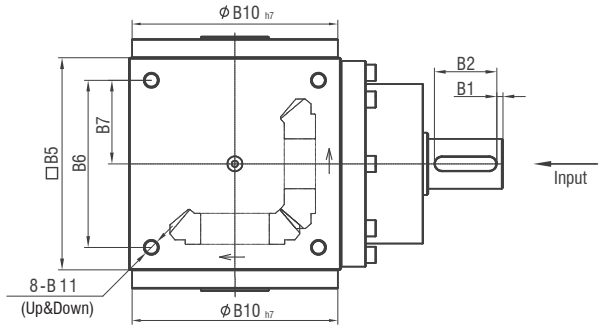
The above technical parameters are for reference only. The final specifications and dimensions will be confirmed and provided based on the data supplied by the customer.
上述技術參數僅供參考，最終技術參數與尺寸將依客戶提供之資料進行確認後提供。

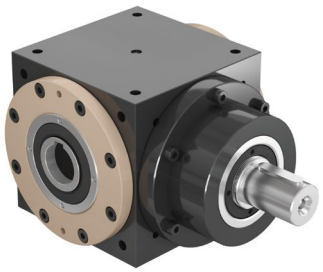
Performance data 性能資料表

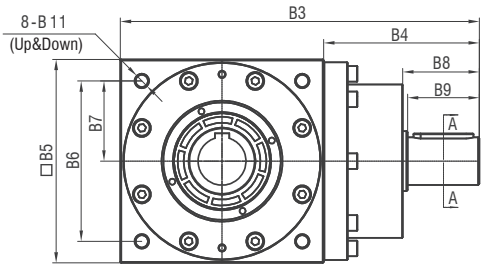
雙段減速機 2-Stage

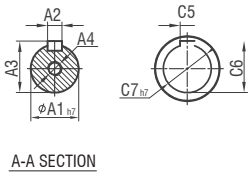
規格 Specification		代號 Symbol	速比 Speed Ratio	框 Frame						
				075	090	110	140	170	210	240
額定輸出力矩 Rated Output Torque	Nm	T2N	4	45	45	110	280	535	1020	1700
			5	55	55	150	320	650	1180	2008
			7	45	45	135	300	550	1050	1810
			10	35	35	100	220	445	870	1550
最大加速扭矩 Maximum Acceleration Torque	Nm	T2B	4	67.5	67.5	165	420	802.5	1530	2550
			5	82.5	82.5	225	480	975	1770	3012
			7	67.5	67.5	202.5	450	825	1575	2715
			10	52.5	52.5	150	330	667.5	1305	2325
最大輸出扭矩 Maximum Output Torque	Nm	T2NOT	4	135	135	330	840	1605	3060	5100
			5	165	165	450	960	1950	3540	6024
			7	135	135	405	900	1650	3150	5430
			10	105	105	300	660	1335	2610	4650
額定輸入轉速 Nominal Input Speed	rpm	n1N	4-50	3000	3000	3000	3000	3000	3000	2000
最大輸入轉速 Maximum Input Speed	rpm	n1B	4-50	6000	6000	6000	6000	5000	5000	4000
背隙 Backlash	arcmin	P0	4-50	≤4						
		P1	4-50	≤7						
		P2	4-50	≤10						
容許徑向力 Maximum Radial Force	N	F2rB	4-10	2400	3200	5000	6500	9100	13000	16000
容許軸向力 Maximum Axial Force	N	F2aB	4-10	1200	1600	2500	3250	4550	6500	8500
使用壽命 Service Life	hr	LH	4-10	20000						
效率 Efficiency	%	η	4-10	≥94						
使用溫度 Operating Temperature	°C		4-10	-20~90						
潤滑 Lubrication	-		4-10	合成潤滑油脂 Synthetic Grease						
噪音 Noise	dB		4-10	≤69	≤73	≤74	≤75	≤76	≤78	≤79
轉動慣量 Moment of Inertia	$Kg.cm^2$		4-10	0.15	0.18	0.5	2.8	7.14	22.5	50.8

GST-DOT-001 Specification 規格尺寸表

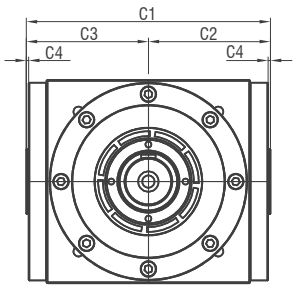






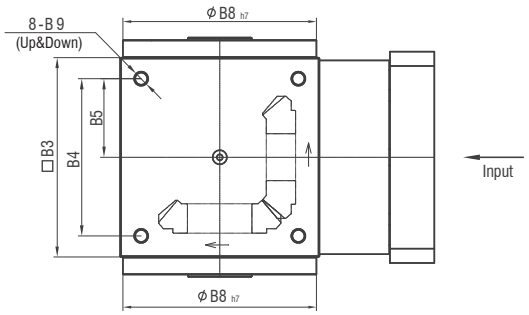


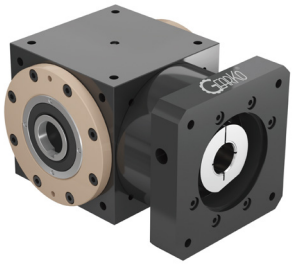
A-A SECTION

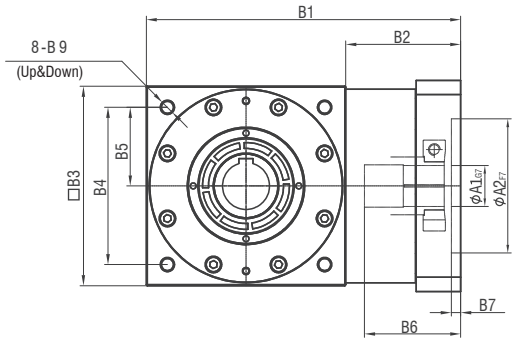


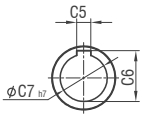
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
A	A1	16	18	22	32	40	50	55
	A2	5	6	6	10	12	14	16
	A3	18	20.5	24.5	35	43	53.5	59
	A4	M5	M8	M8	M10	M12	M12	M16
B	B1	2.5	5	5	5	5	5	2.5
	B2	25	25	30	40	60	65	80
	B3	142.5	168.5	207	250	300	375	430
	B4	67.5	78.5	97	110	130	165	190
	B5	75	90	110	140	170	210	240
	B6	60	72	88	110	134	170	190
	B7	30	36	44	55	67	85	95
	B8	32	38	43	53.5	64	77	87
	B9	30	35	40	50	60	75	85
	B10	73	88	108	135	165	205	235
	B11	M6	M6	M8	M10	M12	M16	M16
C	C1	100	118	144	174	204	250	294
	C2	50	59	72	87	102	125	147
	C3	50	59	72	87	102	125	147
	C4	2	2	2	2	2	2	2
	C5	5	6	8	10	12	14	16
	C6	16.3	20.8	25.3	35.3	43.3	53.8	59.3
	C7	14	18	22	32	40	50	55

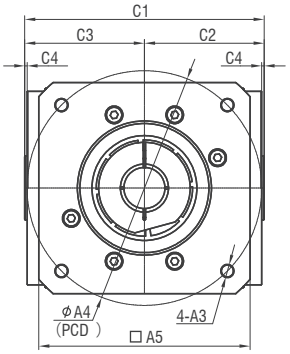
GST-FOT-001 Specification 規格尺寸表





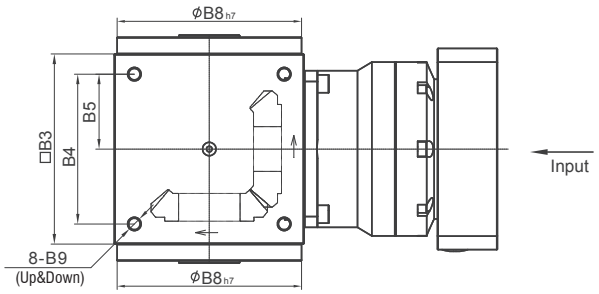


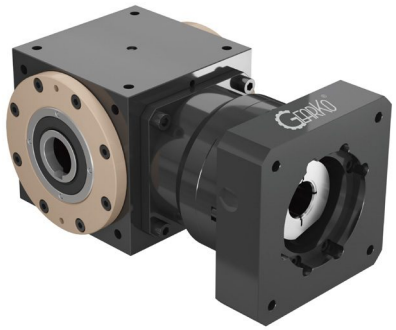


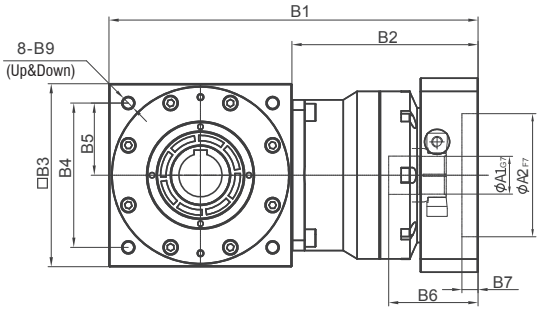


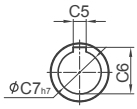
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
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	A2	50	70	110	110	114.3	180	230
	A3	M4	M5	M8	M8	M12	M12	M14
	A4	70	90	145	145	200	215	265
	A5	60	90	130	130	180	200	265
B	B1	115	148	179.5	207.5	268	320	413.5
	B2	40	58	69.5	67.5	98	110	173.5
	B3	75	90	110	140	170	210	240
	B4	60	72	88	110	134	170	190
	B5	30	36	44	55	67	85	95
	B6	35	42	67	67	82	88	117.5
	B7	5	5	10	10	8	12	20
	B8	73	88	108	135	165	205	235
	B9	M6	M6	M8	M10	M12	M16	M16
C	C1	100	118	144	174	204	250	290
	C2	50	59	72	87	102	125	145
	C3	50	59	72	87	102	125	145
	C4	2	2	2	2	2	2	2
	C5	5	6	8	10	12	14	16
	C6	16.3	20.8	25.3	35.3	43.3	53.8	59.3
	C7	14	18	22	32	40	50	55

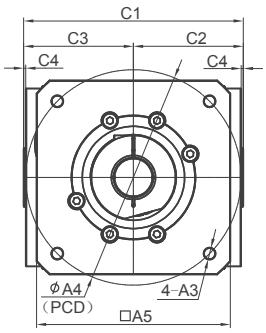
GST-ROT-L1 Specification 規格尺寸表





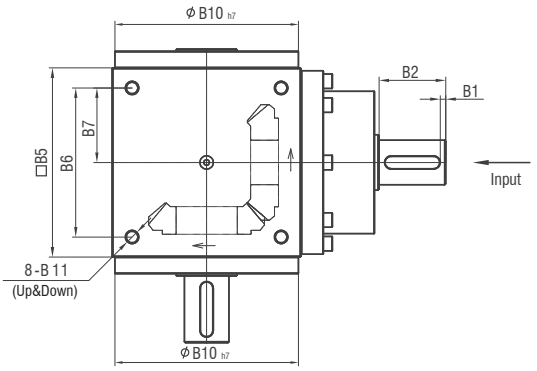


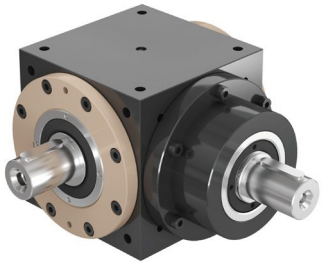


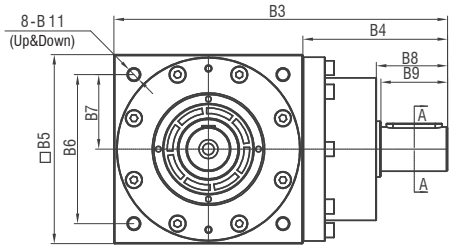


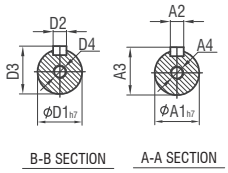
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
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	A2	50	50	70	110	114.3	114.3	230
	A3	M4	M4	M6	M8	M12	M12	M14
	A4	70	70	90	145	200	200	265
	A5	60	60	90	130	180	180	265
B	B1	158.5	173.5	205	268.5	342.7	391	481
	B2	83.5	83.5	95	128.5	172.7	181	241
	B3	75	90	110	140	170	210	240
	B4	60	72	88	110	134	170	190
	B5	30	36	44	55	67	85	95
	B6	34	34	44	64	83	82	117.5
	B7	5	5	4	12	15	8	20
	B8	73	88	106	135	165	205	235
	B9	M6	M6	M8	M10	M12	M16	M16
C	C1	100	118	144	174	204	250	294
	C2	50	59	72	87	102	125	147
	C3	50	59	72	87	102	125	147
	C4	2	2	2	2	2	2	2
	C5	5	6	8	10	12	14	16
	C6	16.3	20.8	25.3	35.3	43.3	53.8	59.3
	C7	14	18	22	32	40	50	55

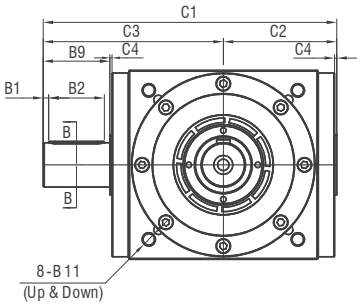
GST-DST-001 Specification 規格尺寸表





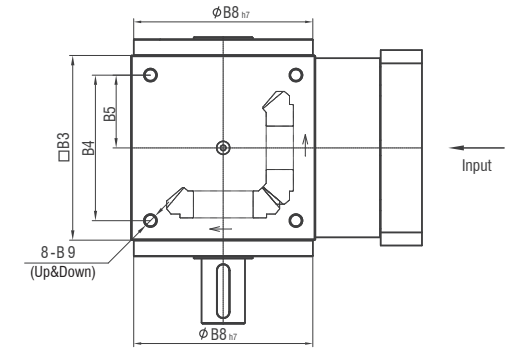


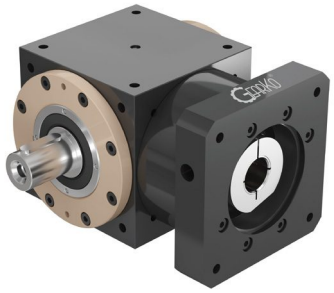


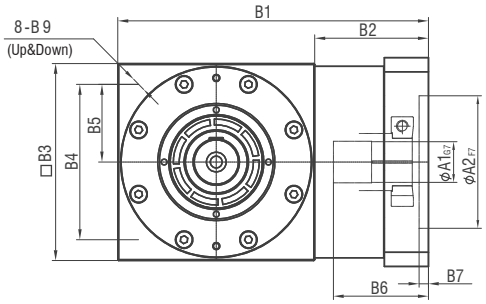


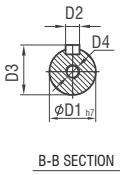
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
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	A2	5	6	6	10	12	14	16
	A3	18	20.5	24.5	35	43	53.5	59
	A4	M5	M5	M8	M10	M12	M12	M16
B	B1	2.5	5	5	5	5	5	2.5
	B2	25	25	30	40	60	65	80
	B3	142.5	168.5	207	250	300	375	430
	B4	67.5	78.5	97	110	130	165	190
	B5	75	90	110	140	170	210	240
	B6	60	72	88	110	134	170	190
	B7	30	36	44	55	67	85	95
	B8	32	38	43	53.5	64	77	87
	B9	30	35	40	50	60	75	85
	B10	73	88	108	135	165	205	235
	B11	M6	M6	M8	M10	M12	M16	M16
C	C1	128	151	182	222	264	323	379
	C2	48	57	70	85	102	123	147
	C3	80	94	112	137	162	200	232
	C4	2	2	2	2	2	2	2
D	D1	16	18	22	32	40	50	55
	D2	5	6	6	10	12	14	16
	D3	18	20.5	24.5	35	43	53.5	59
	D4	M5	M5	M8	M10	M12	M12	M16

GST-FST-001 Specification 規格尺寸表

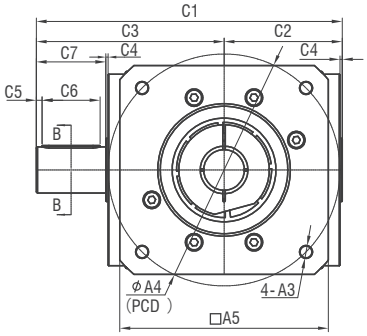






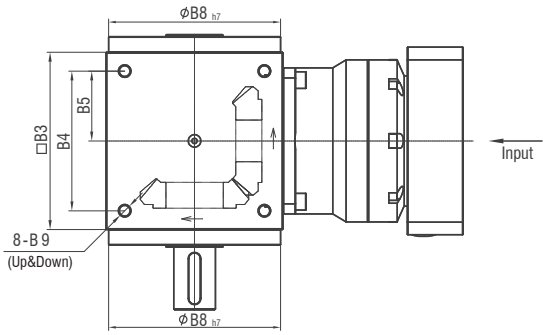


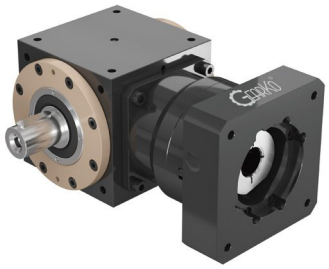
B-B SECTION

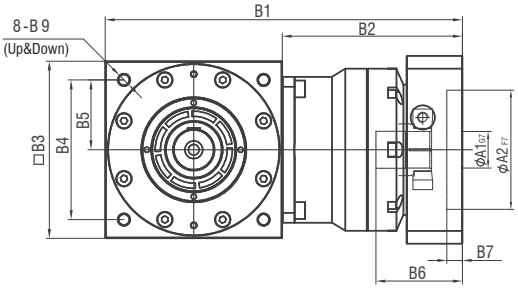


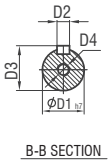
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
A	A1	14	19	24	24	35	42	48
	A2	50	70	110	110	114.3	180	230
	A3	M4	M5	M8	M8	M12	M12	M14
	A4	70	90	145	145	200	215	265
	A5	60	90	130	130	180	200	265
B	B1	115	148	179.5	207.5	268	320	413.5
	B2	40	58	69.5	67.5	98	110	173.5
	B3	75	90	110	140	170	210	240
	B4	60	72	88	110	134	170	190
	B5	30	36	44	55	67	85	95
	B6	35	42	67	67	82	88	117.5
	B7	5	5	10	10	8	12	20
	B8	73	88	108	135	165	205	235
	B9	M6	M6	M8	M10	M12	M16	M16
C	C1	128	151	182	222	264	323	379
	C2	48	57	70	85	102	123	147
	C3	80	94	112	137	162	200	232
	C4	2	2	2	2	2	2	2
	C5	2.5	5	5	5	5	5	2.5
	C6	25	25	30	40	50	65	80
	C7	30	35	40	50	60	75	85
D	D1	16	18	22	32	40	50	55
	D2	5	6	6	10	12	14	16
	D3	18	20.5	24.5	35	43	53.5	59
	D4	M5	M5	M8	M10	M12	M12	M16

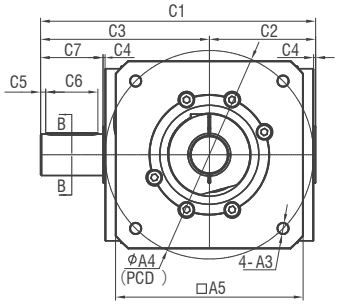
GST-RST-L1 Specification 規格尺寸表





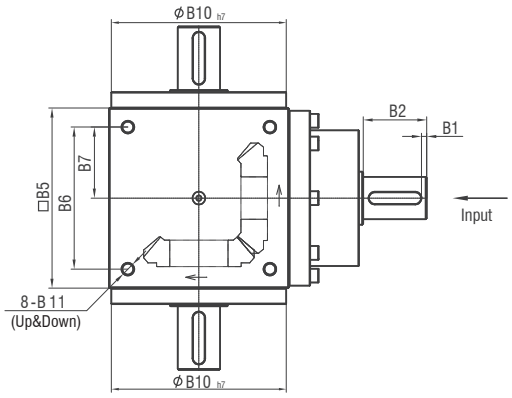


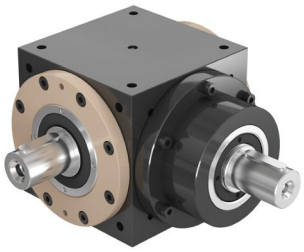


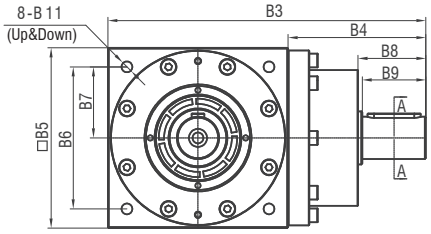


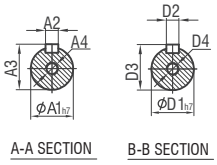
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
A	A1	14	14	19	24	35	42	48
	A2	50	50	70	110	114.3	114.3	230
	A3	M4	M4	M6	M8	M12	M12	M14
	A4	70	70	90	145	200	200	265
	A5	60	60	90	130	180	180	265
B	B1	158.5	173.5	205	268.5	342.5	391	481
	B2	83.5	83.5	95	128.5	172.7	181	241
	B3	75	90	110	140	170	210	240
	B4	60	72	88	110	134	170	190
	B5	30	36	44	55	67	85	95
	B6	34	34	44	64	83	82	117.5
	B7	5	5	4	12	15	8	20
	B8	73	88	108	135	165	205	235
	B9	M6	M6	M8	M10	M12	M16	M16
C	C1	128	151	182	222	264	323	379
	C2	48	57	70	85	102	123	147
	C3	80	94	112	137	162	200	232
	C4	2	2	2	2	2	2	2
	C5	2.5	5	5	5	5	5	2.5
	C6	25	25	30	40	50	65	80
	C7	30	35	40	50	60	75	85
D	D1	16	18	22	32	40	50	55
	D2	5	6	6	10	12	14	16
	D3	18	20.5	24.5	35	43	53.5	59
	D4	M5	M5	M8	M10	M12	M12	M16

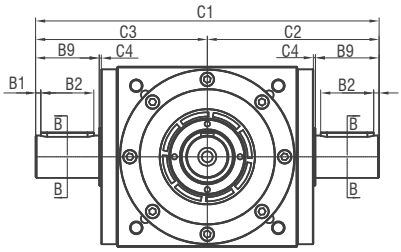
GST-DVT-001 Specification 規格尺寸表





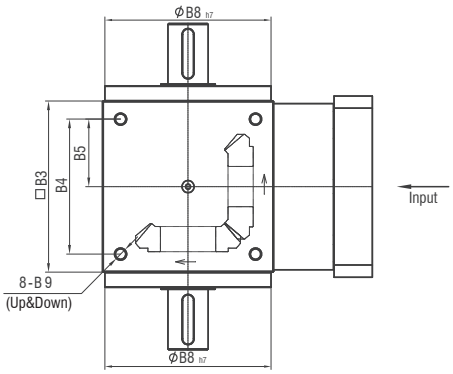


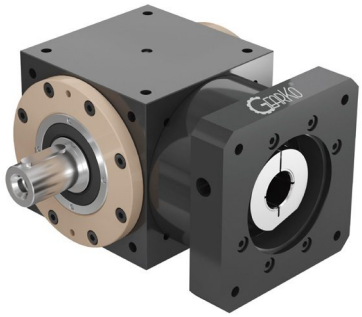


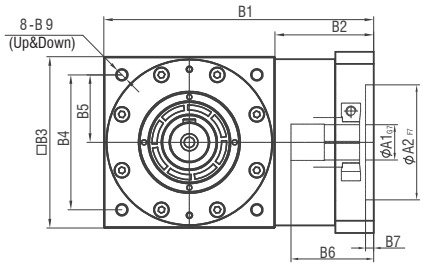


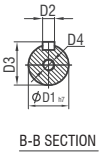
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
A	A1	16	18	22	32	40	50	55
	A2	5	6	6	10	12	14	16
	A3	18	20.5	24.5	35	43	53.5	59
	A4	M5	M8	M8	M10	M12	M12	M16
B	B1	2.5	5	5	5	5	5	2.5
	B2	25	25	30	40	60	65	80
	B3	142.5	168.5	207	250	300	375	430
	B4	67.5	78.5	97	110	130	165	190
	B5	75	90	110	140	170	210	240
	B6	60	72	88	110	134	170	190
	B7	30	36	44	55	67	85	95
	B8	32	38	43	53.5	64	77	87
	B9	30	35	40	50	60	75	85
	B10	73	88	108	135	165	205	235
	B11	M6	M6	M8	M10	M12	M16	M16
C	C1	160	188	224	274	324	400	464
	C2	80	94	112	137	162	200	232
	C3	80	94	112	137	162	200	232
	C4	2	2	2	2	2	2	2
D	D1	16	18	22	32	40	50	55
	D2	5	6	6	10	12	14	16
	D3	18	20.5	24.5	35	43	53.5	59
	D4	M5	M5	M8	M10	M12	M12	M16

GST-FVT-001 Specification 規格尺寸表

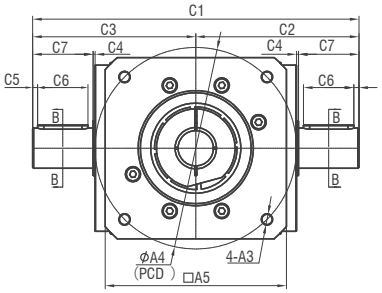






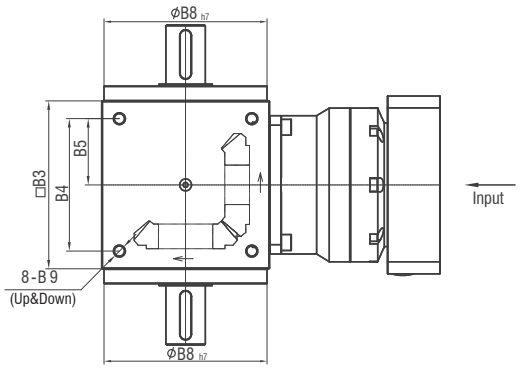


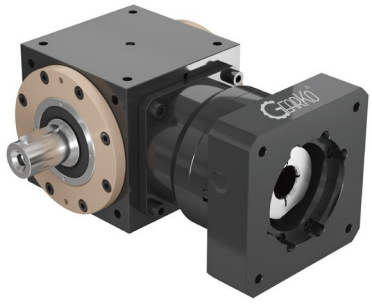
B-B SECTION

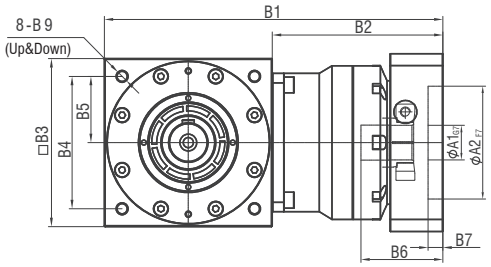


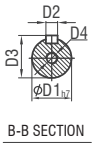
型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
A	A1	14	19	24	24	35	42	48
	A2	50	70	110	110	114.3	180	230
	A3	M4	M5	M8	M8	M12	M12	M14
	A4	70	90	145	145	200	215	265
	A5	60	90	130	130	180	200	265
B	B1	115	148	179.5	207.5	268	320	413.5
	B2	40	58	69.5	67.5	98	110	173.5
	B3	75	90	110	140	170	210	240
	B4	60	72	88	110	134	170	190
	B5	30	36	44	55	67	85	95
	B6	35	42	67	67	82	88	117.5
	B7	5	5	10	10	8	12	20
	B8	73	88	108	135	165	205	235
	B9	M6	M6	M8	M10	M12	M16	M16
C	C1	160	188	224	274	324	400	464
	C2	80	94	112	137	162	200	232
	C3	80	94	112	137	162	200	232
	C4	2	2	2	2	2	2	2
	C5	2.5	5	5	5	5	5	2.5
	C6	25	25	30	40	50	65	80
	C7	30	35	40	50	60	75	85
D	D1	16	18	22	32	40	50	55
	D2	5	6	6	10	12	14	16
	D3	18	20.5	24.5	35	43	53.5	59
	D4	M5	M5	M8	M10	M12	M12	M16

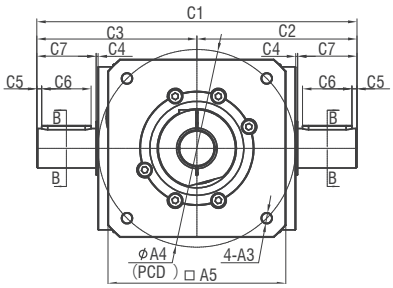
GST-RVT-L1 Specification 規格尺寸表











型號 Model / 單位 Unit:mm		075	090	110	140	170	210	240
A	A1	14	14	19	24	35	42	48
	A2	50	50	70	110	114.3	114.3	230
	A3	M4	M4	M6	M8	M12	M12	M14
	A4	70	70	90	145	200	200	265
	A5	60	60	90	130	180	180	265
B	B1	158.5	173.5	205	268.5	342.7	391	481
	B2	83.5	83.5	95	128.5	172.7	181	241
	B3	75	90	110	140	170	210	240
	B4	60	72	88	110	134	170	190
	B5	30	36	44	55	67	85	95
	B6	34	34	44	64	83	82	117.5
	B7	5	5	4	12	15	8	20
	B8	73	88	108	135	165	205	235
	B9	M6	M6	M8	M10	M12	M16	M16
C	C1	160	188	224	274	324	400	464
	C2	80	94	112	137	162	200	232
	C3	80	94	112	137	162	200	232
	C4	2	2	2	2	2	2	2
	C5	2.5	5	5	5	5	5	2.5
	C6	25	25	30	40	50	65	80
	C7	30	35	40	50	60	75	85
D	D1	16	18	22	32	40	50	55
	D2	5	6	6	10	12	14	16
	D3	18	20.5	24.5	35	43	53.5	59
	D4	M5	M5	M8	M10	M12	M12	M16

Memo
備忘錄

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