



GPFR Series



型號說明 / MODEL

GPFR	090	-	10K	-	(- - -)	-	
系列代碼 Series	規格 Size		減速比 Ratio		輸入端安裝尺寸 Input mounting size		非標定製 Customization
060			雙級 Double (L2)				
090			單級 Single (L1)				
120			3K				
160			4K				
			5K				
			7K				
			10K				
			14K				
			20K				
			15K				
			25K				
			30K				
			35K				
			40K				
			50K				
			70K				
			80K				
			100K				
			140K				
			200K				

依據馬達連接尺寸確認
According to the motor connection size

a	馬達輸出軸直徑 Motor Shaft diameter
b	馬達止口直徑 Motor Spigot diameter
c	馬達安裝孔 PCD Motor Mounting Hole PCD
d	馬達安裝螺紋孔 Motor mounting threaded hole

例 Example : (19-70-90-M5)

依據尺寸圖確認
According to the drawing
空白 : 標準品
Blank : Standard

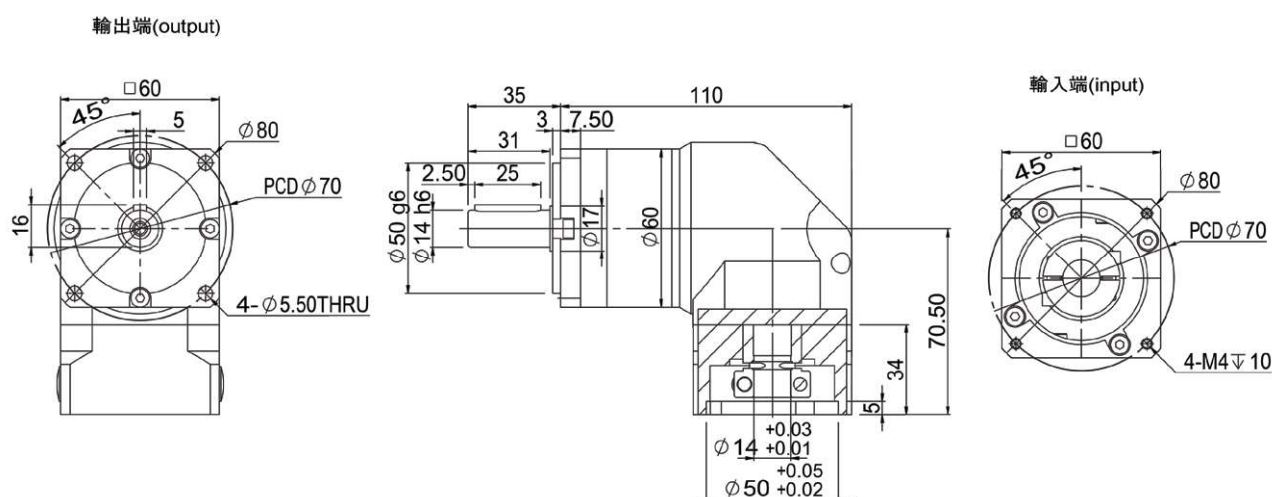
轉動慣量總表 / MOMENT OF INERTIA

規格 specification	級數 stage	減速比 Ratio	GPFR060	GPFR090	GPFR120	GPFR160
轉動慣量 J1 Moment of inertia J1	1	3K	0.135	0.75	2.5	5.8
		4K	0.135	0.75	2.5	5.8
		5K	0.135	0.75	2.5	5.8
		7K	0.135	0.75	2.5	5.8
		10K	0.135	0.75	2.5	5.8
		14K	0.09	0.45	1.3	1.9
		20K	0.09	0.39	1.2	2.73
	2	15K	0.09	0.45	2.4	3.3
		25K	0.035	0.2	1.4	2.3
		30K	0.035	0.2	1.4	2.3
		35K	0.035	0.2	1.4	2.3
		40K	0.035	0.2	1.4	2.3
		50K	0.035	0.2	1.4	2.3
		70K	0.035	0.2	1.4	2.3
		80K	0.035	0.2	1.4	2.3
		100K	0.035	0.2	1.4	2.3
		140K	0.035	0.18	1.3	2.1
		200K	0.035	0.18	1.3	2.1

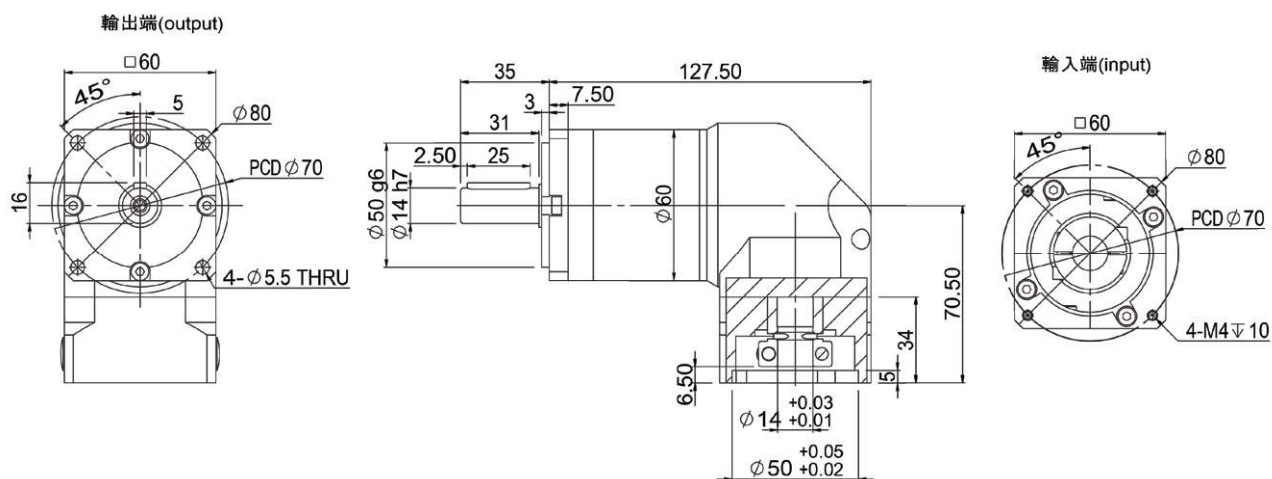
減速機性能資料 / PERFORMANCE

規格 specification		節數 stage	減速比 ratio	GPFR060	GPFR090	GPFR120	GPFR160
額定輸出力矩 T_{2N} Rated output torque T_{2N}	Nm	1	3K	18	40	125	290
			4K	36	90	230	460
			5K	40	110	260	550
			7K	20	40	90	340
			10K	12	22	70	210
			14K	20	40	90	340
			20K	12	22	70	210
		2	15K	36	90	125	550
			25K	36	90	260	550
			30K	36	90	125	290
			35K	36	90	260	550
			40K	36	90	230	460
			50K	36	90	260	550
			70K	36	90	230	340
			80K	36	90	230	460
			100K	36	90	230	550
			140K	22	55	125	340
			200K	12	22	70	210
最大輸出力矩 Maximum output torque	Nm	1 & 2	3 ~ 200K	2 倍額定輸出力矩 / Double rated output torque			
額定輸入轉速 n_{1N} Rated input speed n_{1N}	rpm	1 & 2	3 ~ 200K	4000	3500	3500	2500
背隙 Backlash	arcmin	1	3 ~ 20K	≤ 10	≤ 10	≤ 10	≤ 10
		2	15 ~ 200K	≤ 12	≤ 12	≤ 12	≤ 12
扭轉剛性 Torsional rigidity	Nm/arcmin	1 & 2	3 ~ 200K	1.8	4.7	11	55
容許徑向力 F_{2rB} Allowable radial force F_{2rB}	N	1 & 2	3 ~ 200K	220	400	1000	4500
容許軸向力 F_{2aB} Allowable axial force F_{2aB}	N	1 & 2	3 ~ 200K	240	420	1240	4800
使用壽命 Lifespan	Hr	1 & 2	3 ~ 200K	10000			
效率 Efficiency	%	1	3 ~ 20K	≥ 96%			
		2	15 ~ 200K	≥ 93%			
重量 Weight	kg	1	3 ~ 20K	1.7	4.4	12	26.5
		2	15 ~ 200K	1.9	5	14	29.6
使用溫度 Working temperature	°C	1 & 2	3 ~ 200K	-10°C ~ 80°C			
潤滑 Grease		1 & 2	3 ~ 200K	合成潤滑油脂 / Synthetic lubricating grease			
防護等級 IP Grade		1 & 2	3 ~ 200K	IP65			
安裝方向 Installation direction		1 & 2	3 ~ 200K	任意方向 Any direction			
噪音值 ($n_1=3000\text{rpm}$, 無負載) Noise Value ($n_1=3000\text{rpm}$, off load)	Db	1 & 2	3 ~ 200K	≤ 61	≤ 63	≤ 68	≤ 75

■ GPFR060-L1

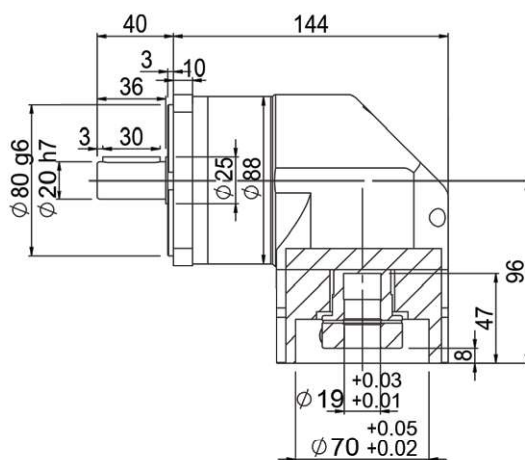
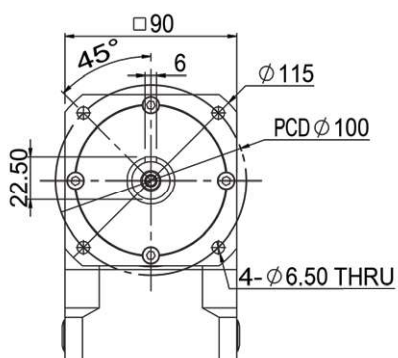


■ GPFR060-L2

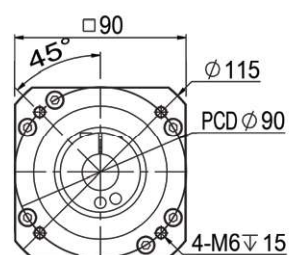


■ GPFR090-L1

輸出端(output)

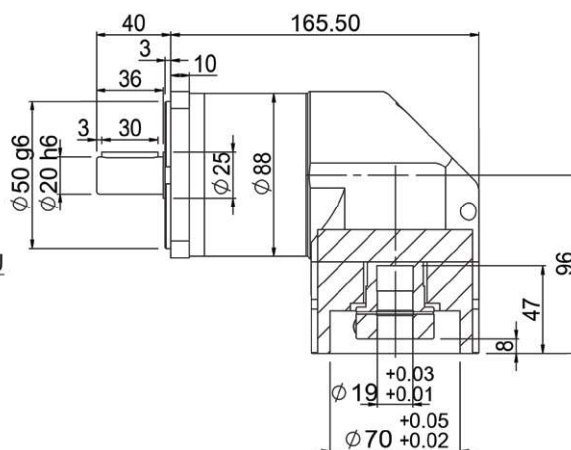
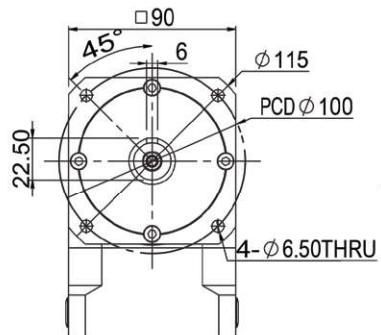


輸入端(input)

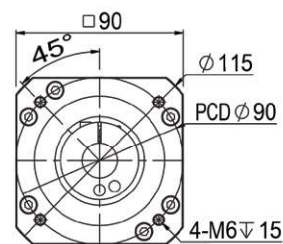


■ GPFR090-L2

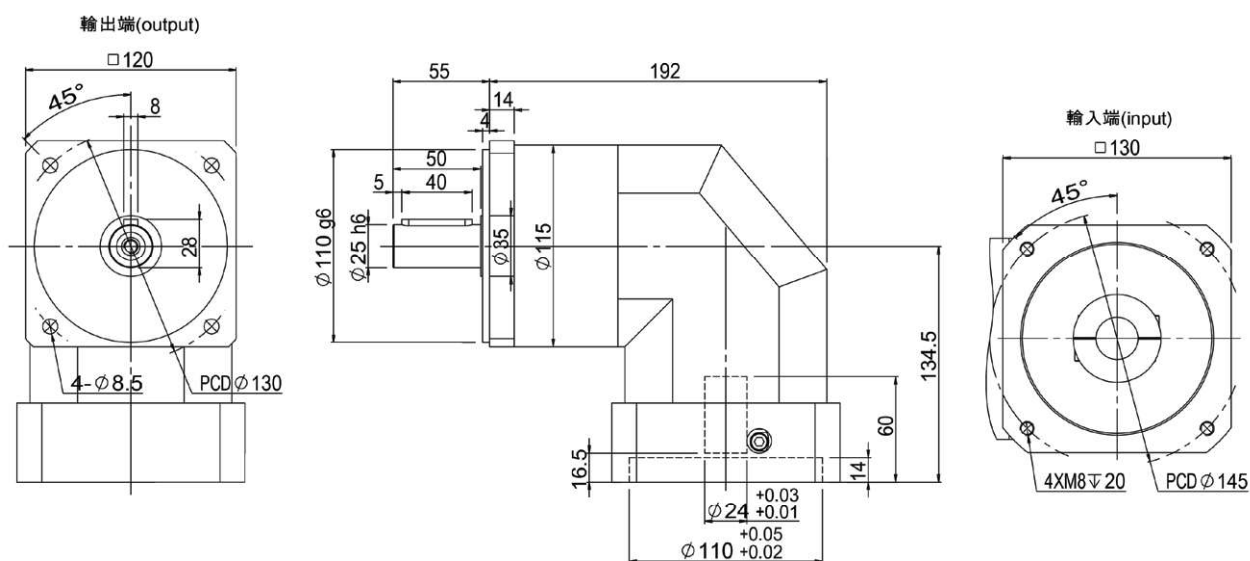
輸出端(output)



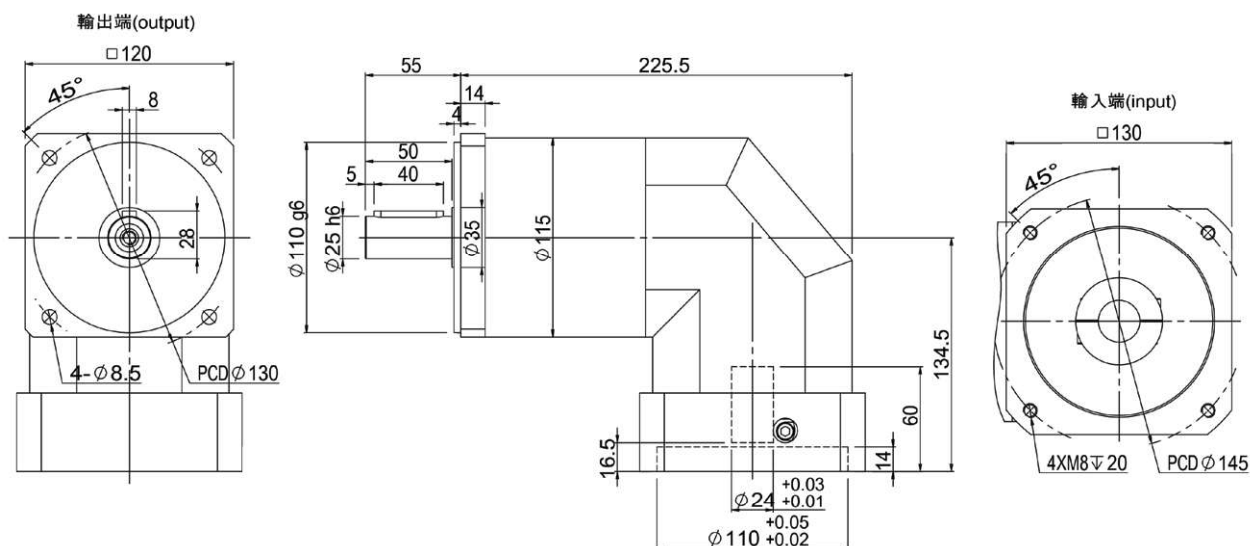
輸入端(input)



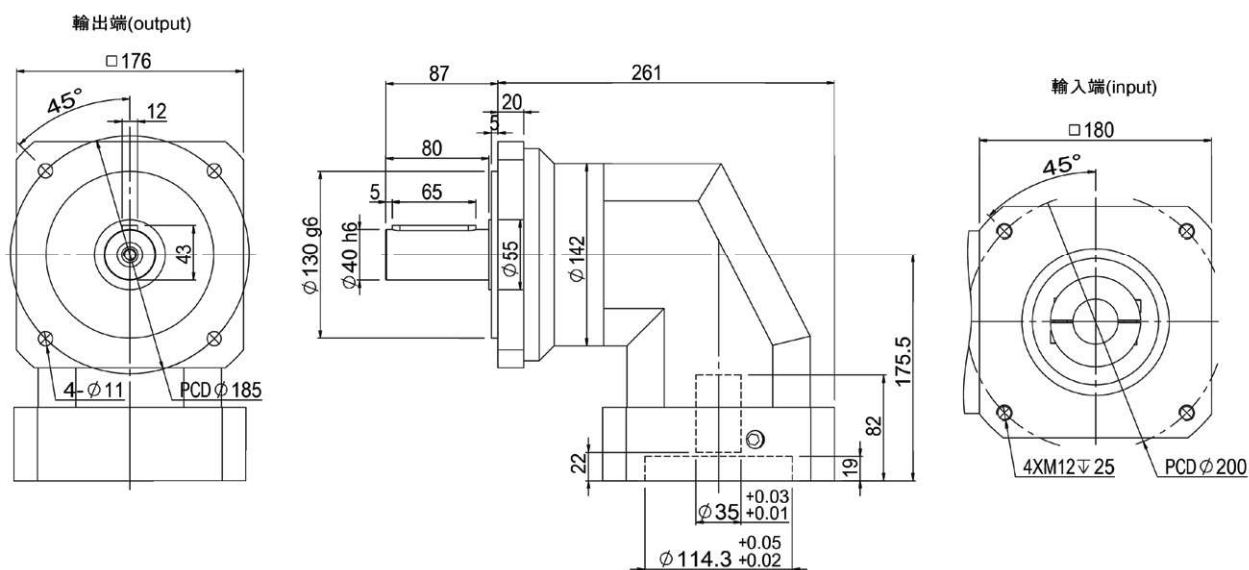
■ GPFR120-L1



■ GPFR120-L2



■ GPFR160-L1



■ GPFR160-L2

