



GPL Series



型號說明 / MODEL

GPL	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
			雙級 Double (L2) 12K 15K 16K 20K 25K 28K 30K 35K 40K 50K 70K 100K		依據馬達連接尺寸確認 According to the motor connection size		依據尺寸圖確認 According to the drawing 空白：標準品 Blank：Standard
	042 060 080 090 120 160	單級 Single (L1) 3K 4K 5K 7K 10K			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)

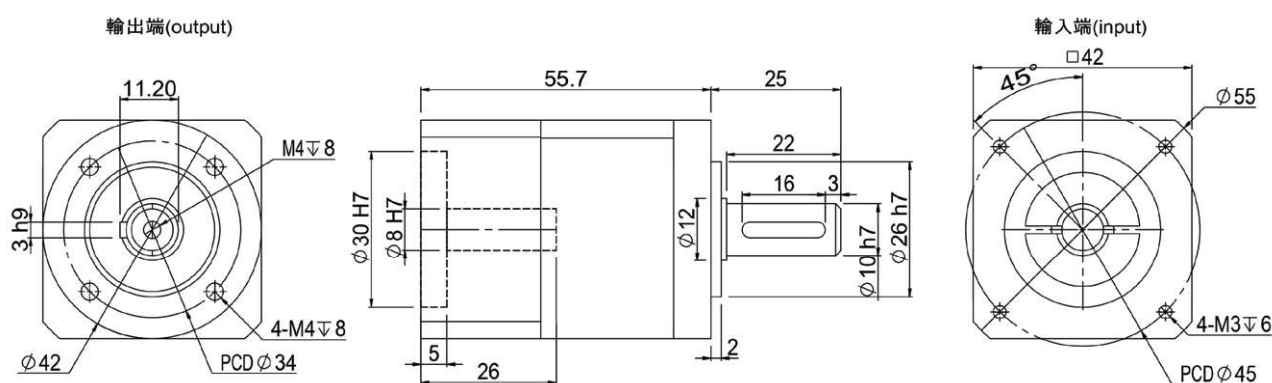
轉動慣量總表 / MOMENT OF INERTIA

規格 specification	級數 stage	減速比 Ratio	GPL042	GPL060	GPL080	GPL090	GPL120	GPL160
轉動慣量 J1 Moment of inertia J1	1	3K	0.03	0.16	0.61	0.61	3.25	9.21
		4K	0.03	0.14	0.48	0.48	2.74	7.54
		5K	0.03	0.13	0.47	0.47	2.71	7.42
		7K	0.03	0.13	0.45	0.45	2.62	7.14
		10K	0.03	0.13	0.44	0.44	2.57	7.03
	2	12K	-	0.03	0.13	0.13	0.47	2.71
		15K	-	0.03	0.13	0.13	0.47	2.71
		16K	-	0.03	0.13	0.13	0.47	2.71
		20K	0.03	0.03	0.13	0.13	0.47	2.71
		25K	0.03	0.03	0.13	0.13	0.47	2.71
		28K	-	0.03	0.13	0.13	0.47	2.71
		30K	-	0.03	0.13	0.13	0.47	2.71
		35K	0.03	0.03	0.13	0.13	0.47	2.71
		40K	0.03	0.03	0.13	0.13	0.47	2.71
		50K	0.03	0.03	0.13	0.13	0.44	2.57
		70K	0.03	0.03	0.13	0.13	0.44	2.57
		100K	-	0.03	0.13	0.13	0.44	2.57

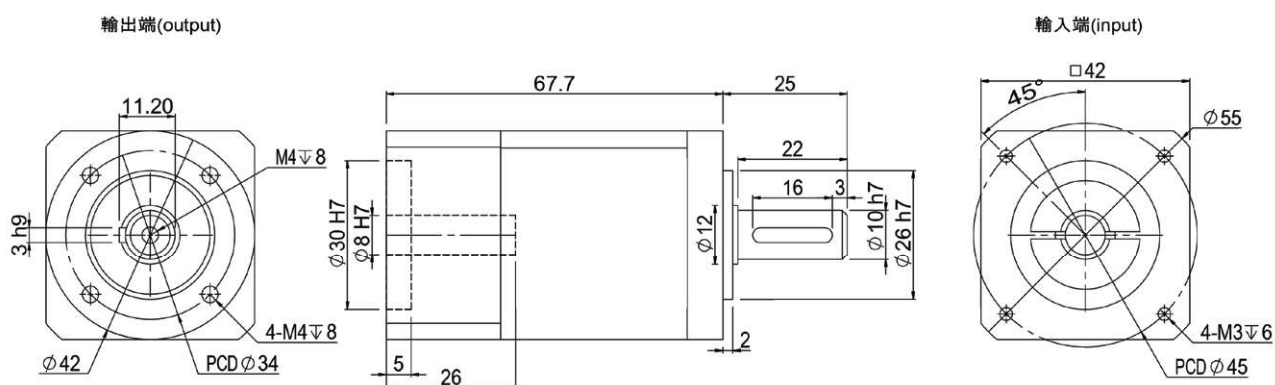
減速機性能資料 / PERFORMANCE

規格 specification		節數 stage	減速比 ratio	GPL042	GPL060	GPL080	GPL090	GPL120	GPL160
額定輸出力矩 T_{2N} Rated output torque T_{2N}	Nm	1	3K	12	15.8	56	60	150	290
			4K	12	25.5	80	88	225	460
			5K	11.2	27.5	85	95	240	550
			7K	9	19.2	60	66	160	340
			10K	7.5	12	36	40	90	210
		2	12K	-	28	36	98	250	230
			15K	-	15.8	56	60	150	550
			16K	-	29.5	88	98	250	460
			20K	12	29.5	88	98	250	550
			25K	11.2	31.5	95	105	270	550
			28K	-	29.5	88	98	250	460
			30K	-	15.8	56	60	150	290
			35K	9	31.5	95	105	270	550
			40K	12	29.5	88	98	250	460
			50K	11.2	31.5	95	105	270	550
			70K	7.5	22.5	68	75	180	340
			100K	-	12	36	40	90	210
最大輸出力矩 Maximum output torque	Nm	1 & 2	3 ~ 100K	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 ~ 100K	4000	4000	3500	3500	3500	2500
背隙 Backlash	arcmin	1	3 ~ 10K	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
		2	12 ~ 100K	≤ 12	≤ 12	≤ 12	≤ 12	≤ 12	≤ 12
扭轉剛性 Torsional rigidity	Nm/arcmin	1 & 2	3 ~ 100K	0.7	1.8	4.7	4.85	11	55
容許徑向力 F_{2rB} Allowable radial force F_{2rB}	N	1 & 2	3 ~ 100K	150	220	400	430	1000	4500
容許軸向力 F_{2aB} Allowable axial force F_{2aB}	N	1 & 2	3 ~ 100K	185	240	420	450	1240	4800
使用壽命 Lifespan	Hr	1 & 2	3 ~ 100K	20000					
效率 Efficiency	%	1	3 ~ 10K	≥ 96%					
		2	12 ~ 100K	≥ 94%					
重量 Weight	kg	1	3 ~ 10K	0.5	0.93	2.35	2.35	6	19
		2	12 ~ 100K	0.8	1.15	2.7	2.7	8	24
使用溫度 Working temperature	°C	1 & 2	3 ~ 100K	-10°C ~ 80°C					
潤滑 Grease		1 & 2	3 ~ 100K	合成潤滑油脂 / Synthetic lubricating grease					
防護等級 IP Grade		1 & 2	3 ~ 100K	IP65					
安裝方向 Installation direction		1 & 2	3 ~ 100K	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 ~ 100K	≤ 58	≤ 61	≤ 63	≤ 63	≤ 68	≤ 75

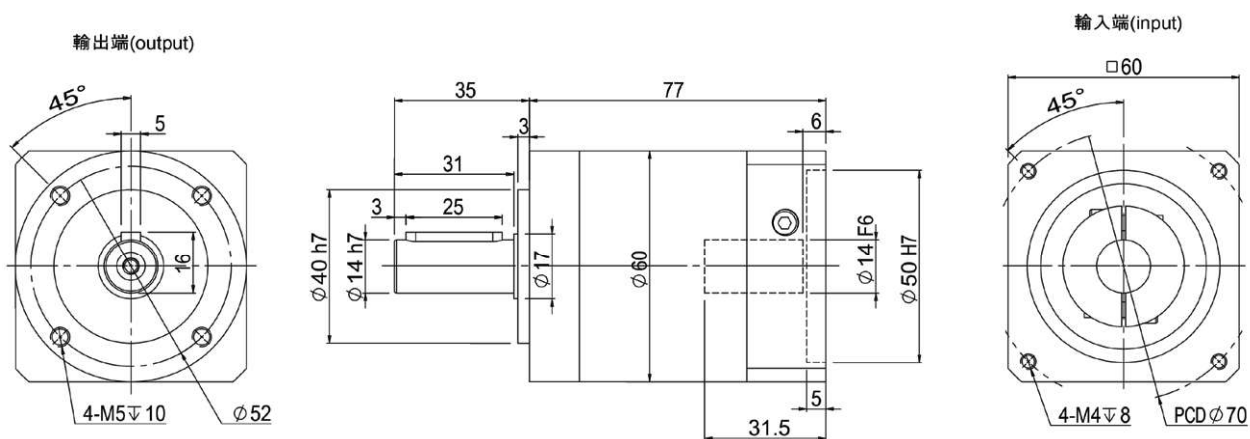
■ GPL042-L1



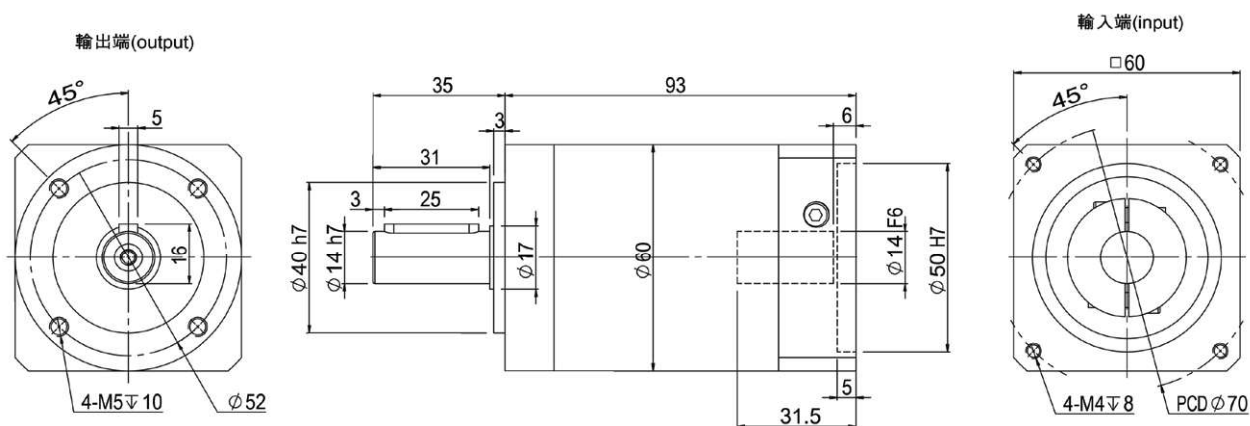
■ GPL042-L2



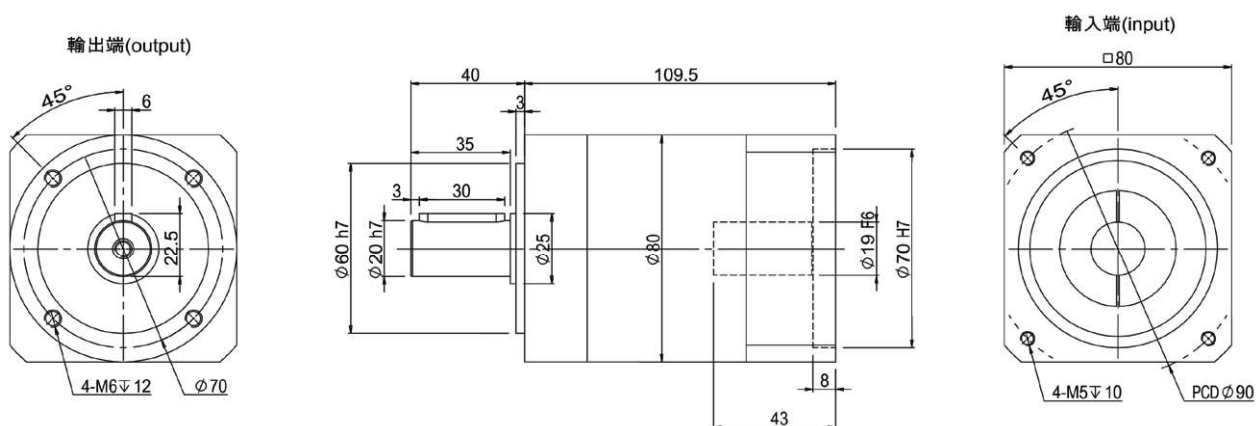
■ GPL060-L1



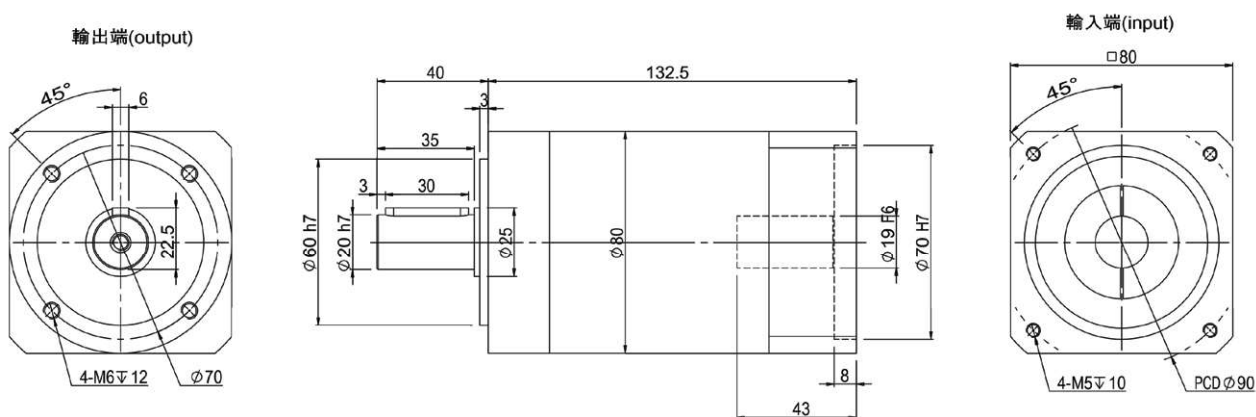
■ GPL060-L2



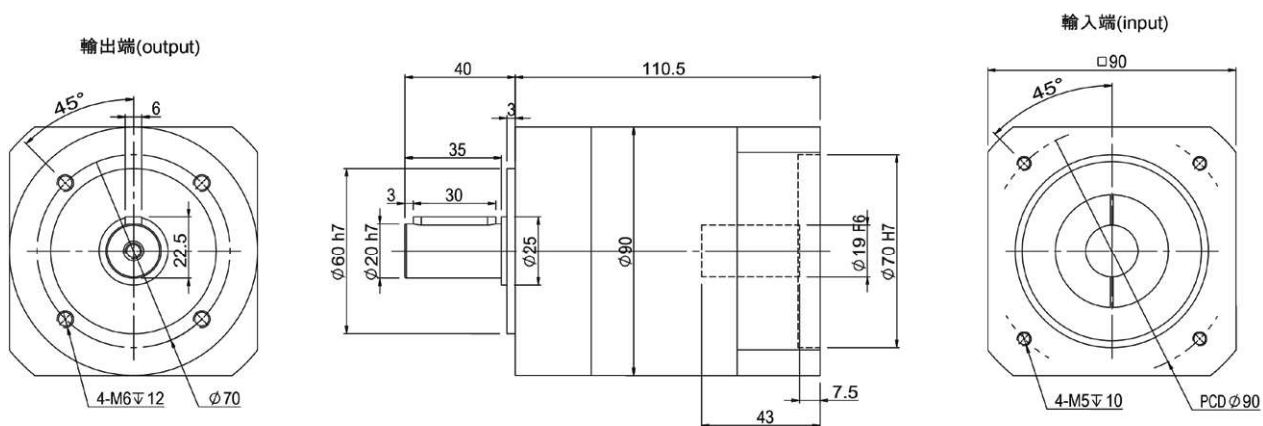
■ GPL080-L1



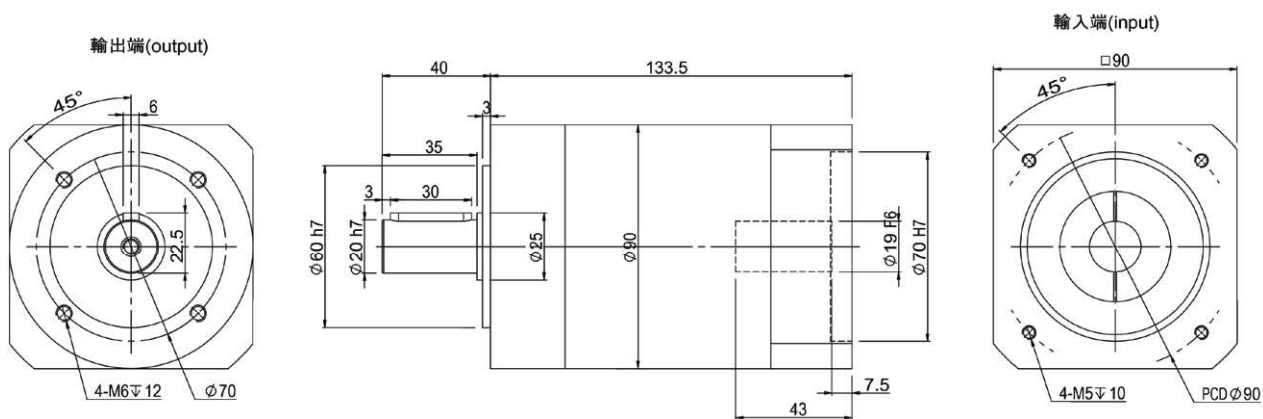
■ GPL080-L2



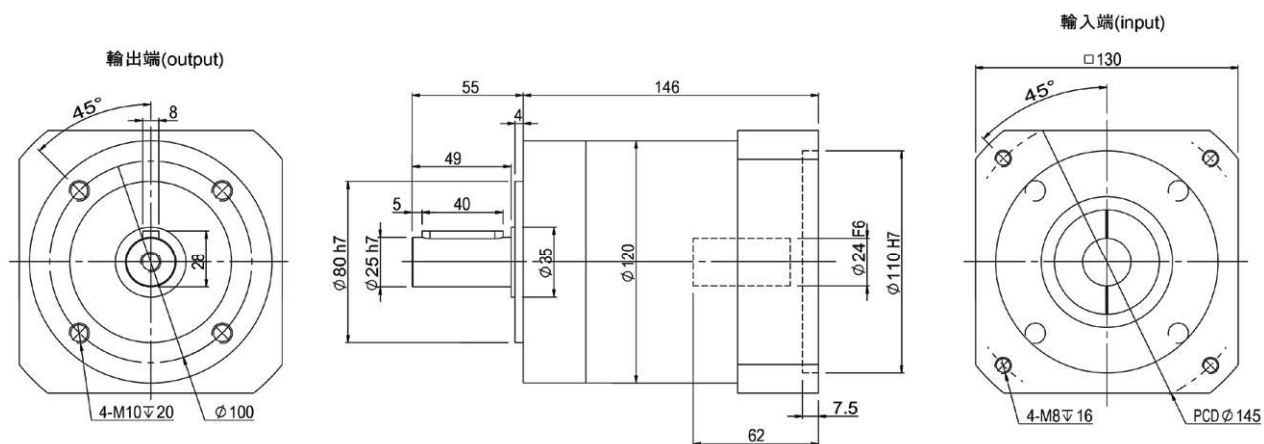
■ GPL090-L1



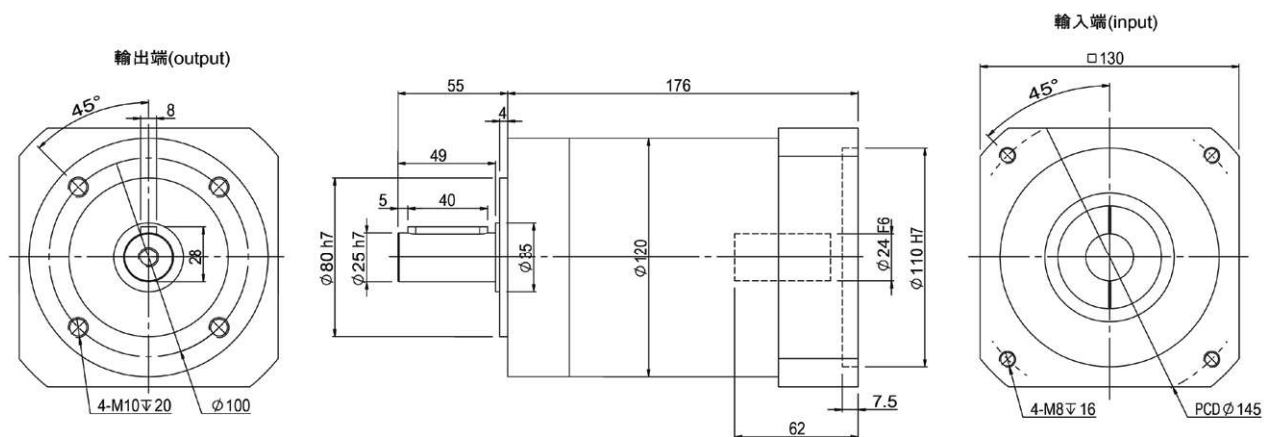
■ GPL090-L2



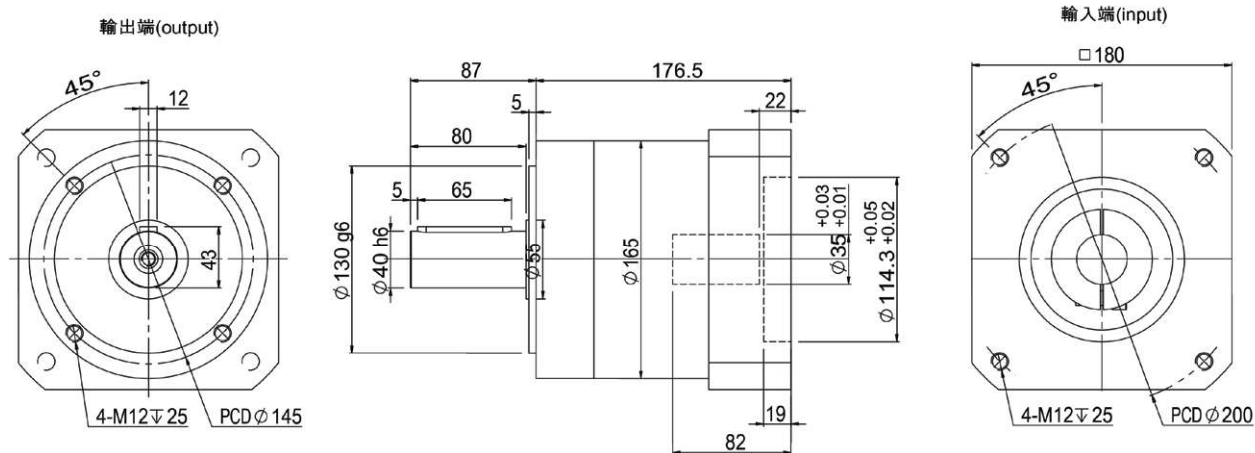
■ GPL120-L1



■ GPL120-L2



■ GPL160-L1



■ GPL160-L2

