



GPB Series



型號說明 / MODEL

GPB	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 60K 70K 80K 100K				
	042 060 090 115 142 180 220	單級 Single (L1) 3K 4K 5K 7K 10K			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
					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)		

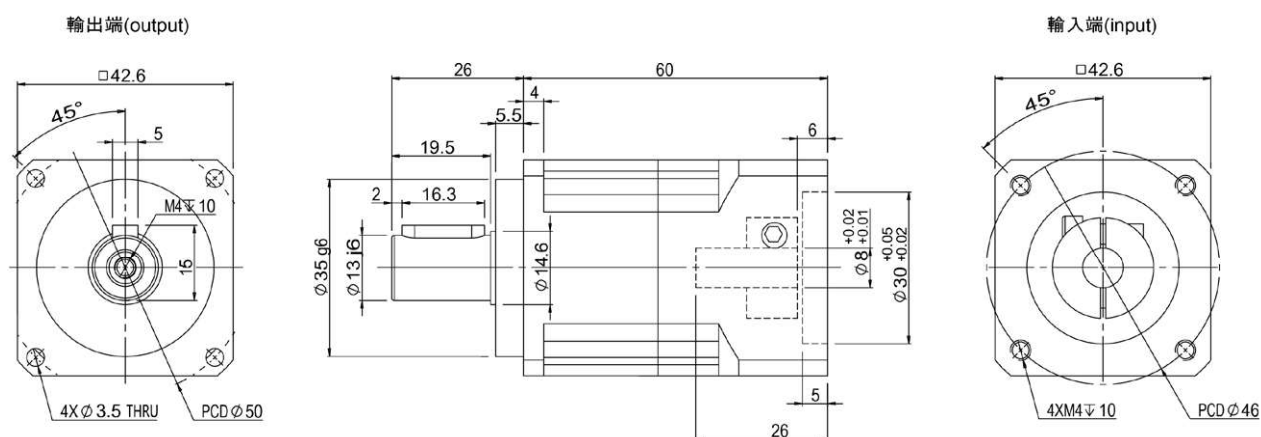
轉動慣量總表 / MOMENT OF INERTIA

規格 specification	級數 stage	減速比 Ratio	GPB042	GPB060	GPB090	GPB115	GPB142	GPB180	GPB220
轉動慣量 J1 Moment of inertia J1	1	3K	0.03	0.16	0.61	3.25	9.21	28.98	69.61
		4K	0.03	0.14	0.48	2.74	7.54	23.67	54.37
		5K	0.03	0.13	0.47	2.71	7.42	23.29	53.27
		7K	0.03	0.13	0.45	2.62	7.14	22.48	50.97
		10K	0.03	0.13	0.44	2.57	7.03	22.51	50.56
	2	12K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		15K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		16K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		20K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		25K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		28K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		30K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		35K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		40K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
		50K	0.03	0.03	0.13	0.44	2.57	7.03	22.51
		60K	0.03	0.03	0.13	0.44	2.57	7.03	22.51
		70K	0.03	0.03	0.13	0.44	2.57	7.03	22.51
		80K	0.03	0.03	0.13	0.44	2.57	7.03	22.51
		100K	0.03	0.03	0.13	0.44	2.57	7.03	22.51

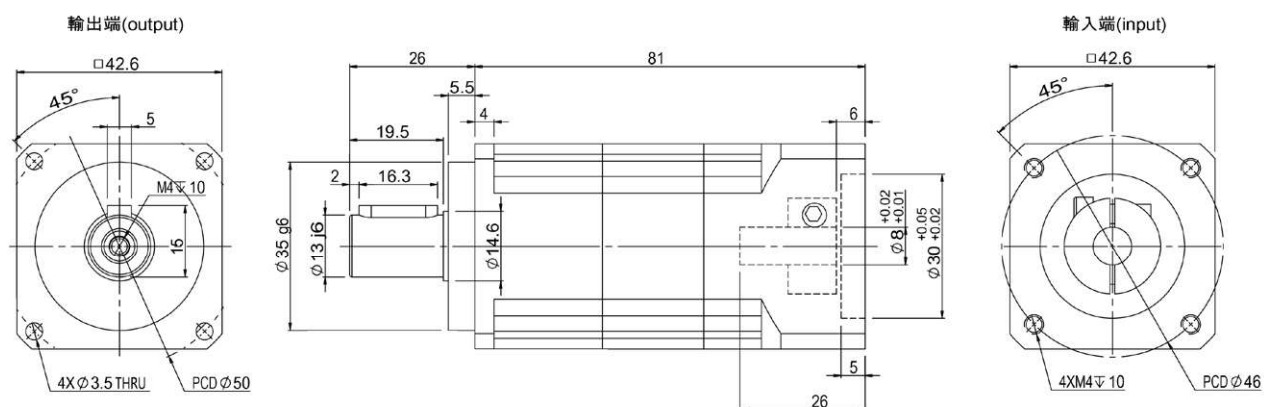
減速機性能資料 / PERFORMANCE

規格 specification		節數 stage	減速比 ratio	GPB042	GPB060	GPB090	GPB115	GPB142	GPB180	GPB220
額定輸出力矩 Rated output torque T_{2N}	Nm	1	3K	20	55	130	208	342	588	1140
			4K	19	50	140	290	543	1050	1700
			5K	22	60	160	330	650	1200	2000
			7K	19	50	140	300	550	1100	1800
			10K	14	40	100	230	450	900	1500
		2	12K	20	55	130	208	342	588	1140
			15K	20	55	130	208	342	588	1140
			16K	19	50	140	290	543	1050	1700
			20K	19	50	140	290	542	1050	1700
			25K	22	60	160	330	650	1200	2000
			28K	19	50	140	290	543	1050	1700
			30K	20	55	150	310	600	1100	1900
			35K	19	50	140	300	550	1100	1800
			40K	17	45	120	260	500	1000	1600
			50K	22	60	160	330	650	1200	2000
			60K	20	55	150	310	600	1100	1900
			70K	19	50	140	300	550	1100	1800
			80K	17	45	120	260	500	1000	1600
			100K	14	40	100	230	450	900	1500
急停扭矩 T_{2NOT} Emergency stop torque T_{2NOT}	Nm	1 & 2	3 ~ 100K	3 倍額定輸出力矩 / 3 times rated output torque						
額定輸入轉速 n_{1N} Rated input speed n_{1N}	rpm	1 & 2	3 ~ 100K	5000	5000	4000	4000	3000	3000	2000
最大輸入轉速 n_{1B} Max input speed n_{1B}		1 & 2	3 ~ 100K	10000	10000	8000	8000	6000	6000	4000
精密背隙 P1 Precision backlash P1	arcmin	1	3 ~ 10K	-	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
		2	12 ~ 100K	-	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
標準背隙 P2 Standard backlash P2	arcmin	1	3 ~ 10K	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
		2	12 ~ 100K	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
扭轉剛性 Torsional rigidity	Nm/arcmin	1 & 2	3 ~ 100K	3	7	14	25	50	145	225
容許徑向力 F_{2rB} Allowable radial force F_{2rB}	N	1 & 2	3 ~ 100K	780	1530	3250	6700	9400	14500	50000
容許軸向力 F_{2aB} Allowable axial force F_{2aB}	N	1 & 2	3 ~ 100K	390	765	1625	3350	4700	7250	25000
使用壽命 Lifespan	Hr	1 & 2	3 ~ 100K	20000						
效率 Efficiency	%	1	3 ~ 10K	≥ 97%						
		2	12 ~ 100K	≥ 94%						
重量 Weight	kg	1	3 ~ 10K	0.6	1.3	3.7	7.8	14.5	29	48
		2	12 ~ 100K	0.8	1.5	4.1	9	17.5	33	60
使用溫度 Working temperature	°C	1 & 2	3 ~ 100K	-10°C ~ 90°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	≤ 56	≤ 58	≤ 60	≤ 63	≤ 65	≤ 67	≤ 70

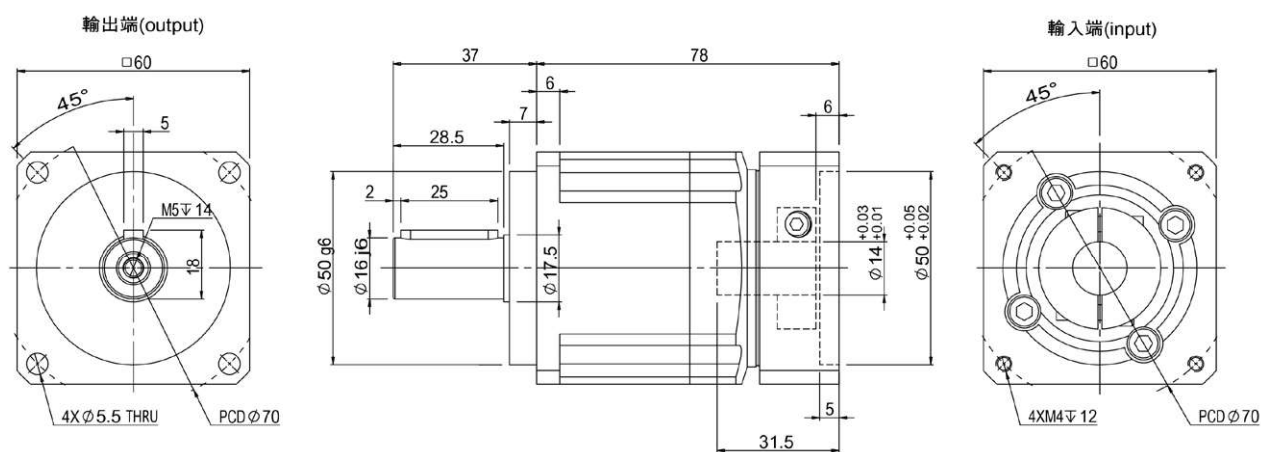
■ GPB042-L1



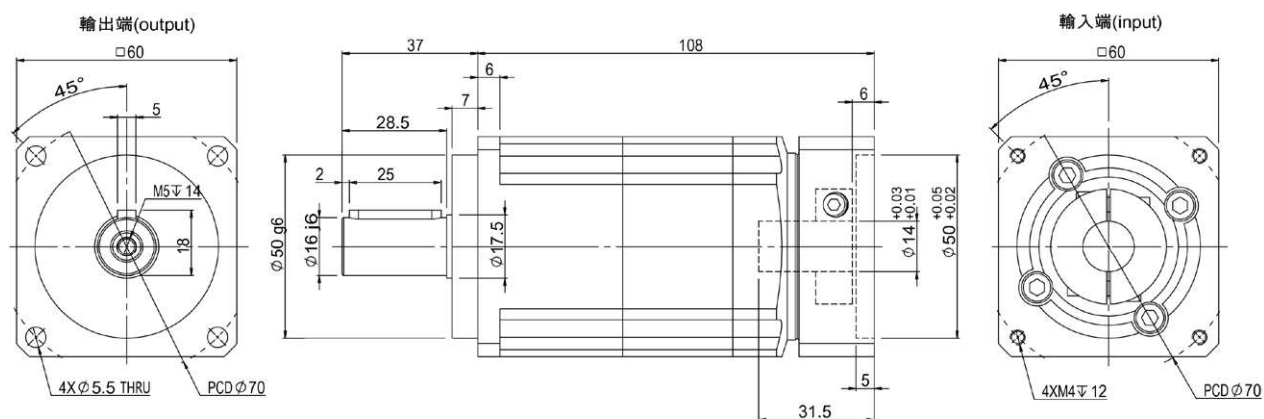
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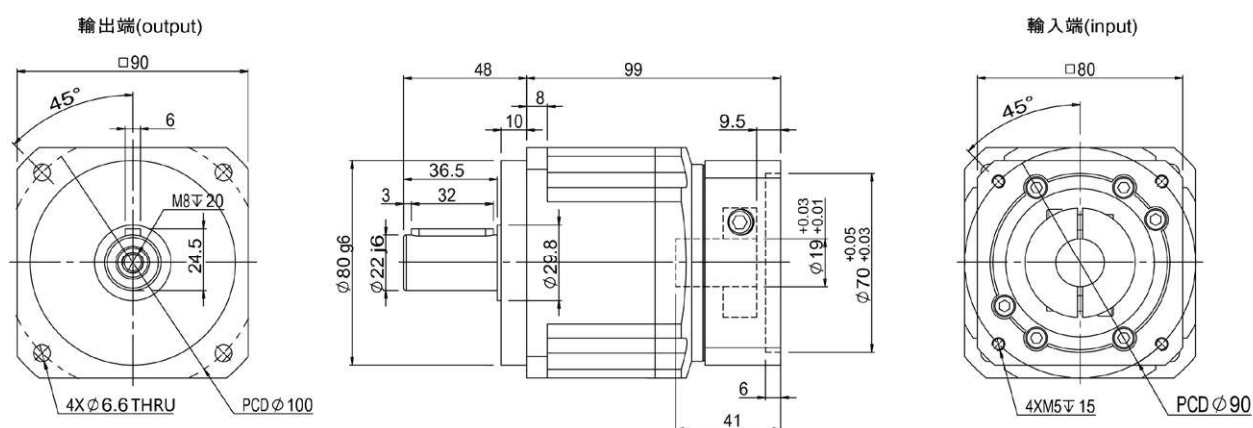
■ GPB060-L1



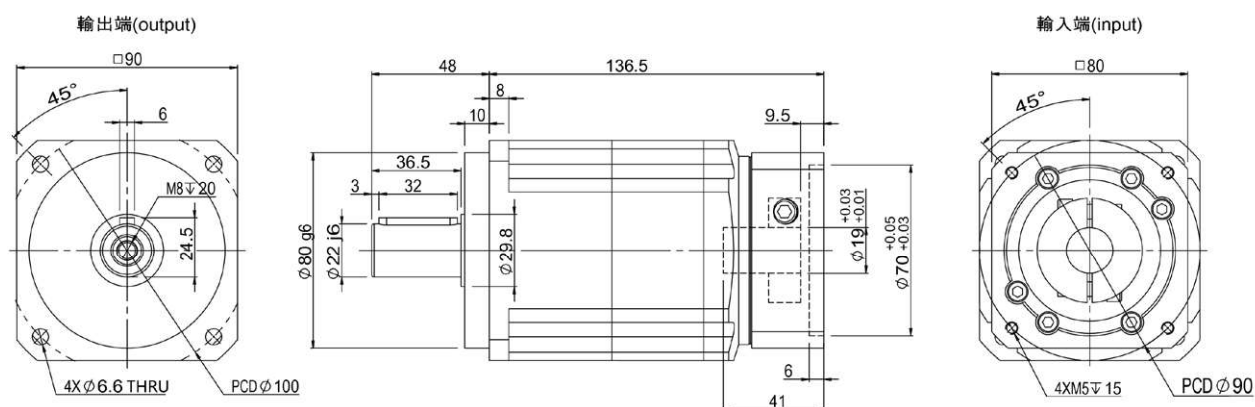
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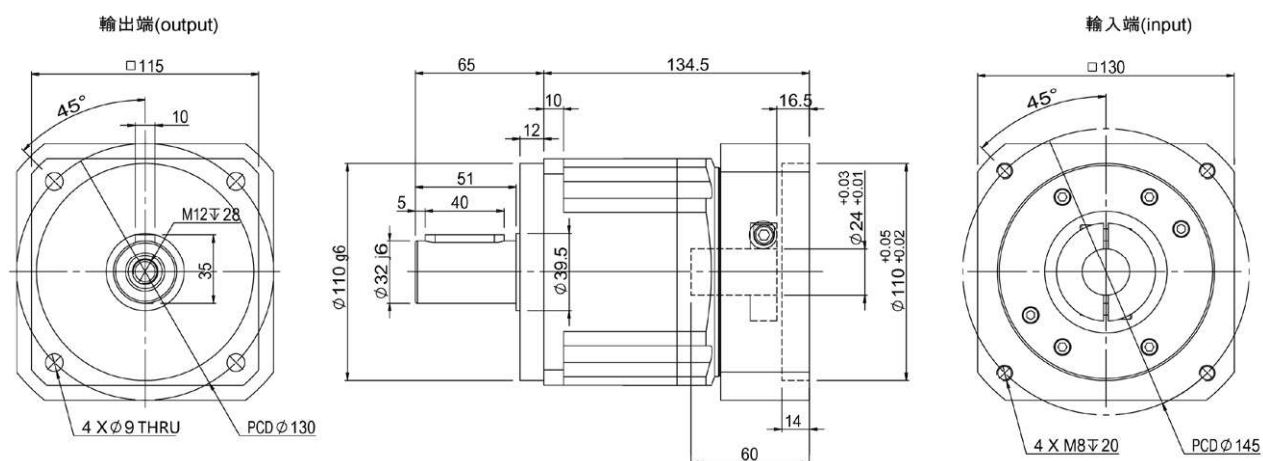
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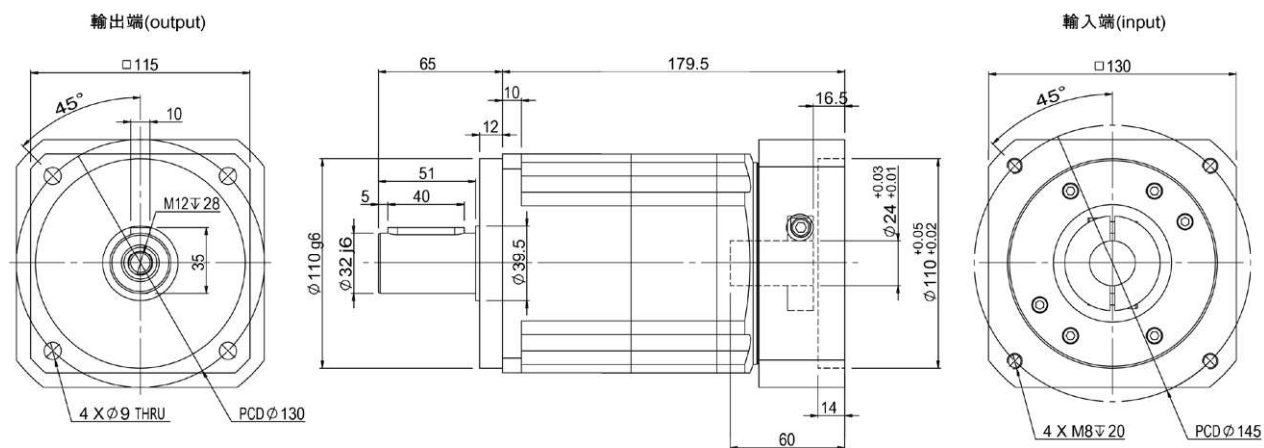
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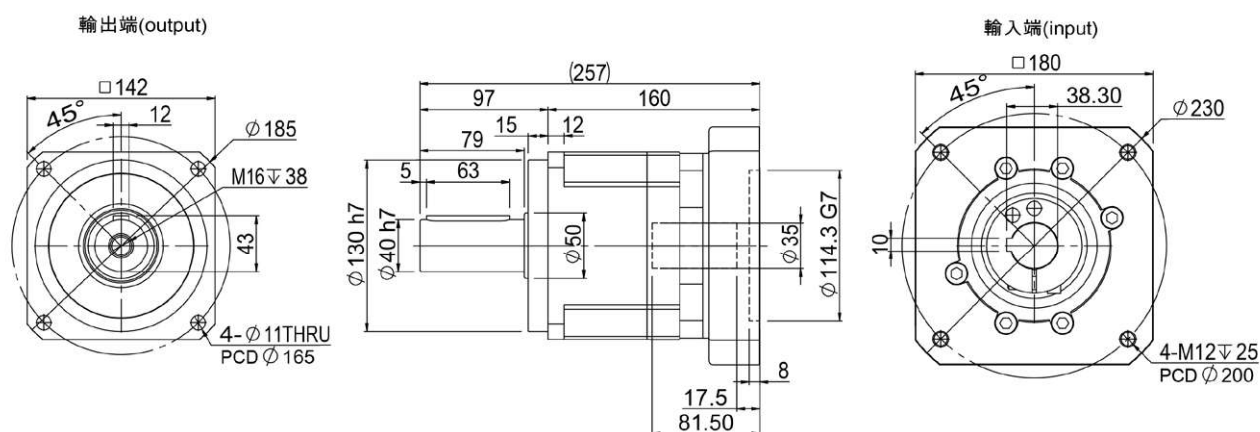
■ GPB115-L1



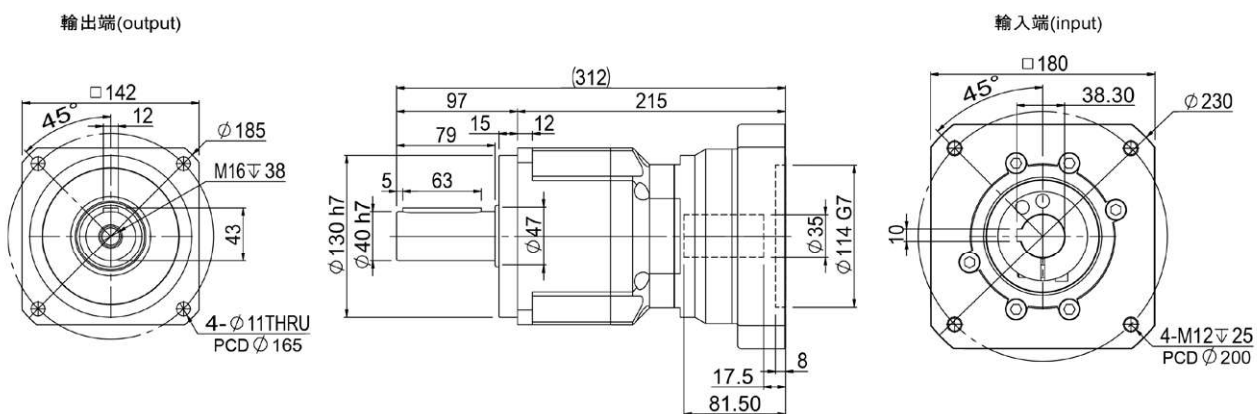
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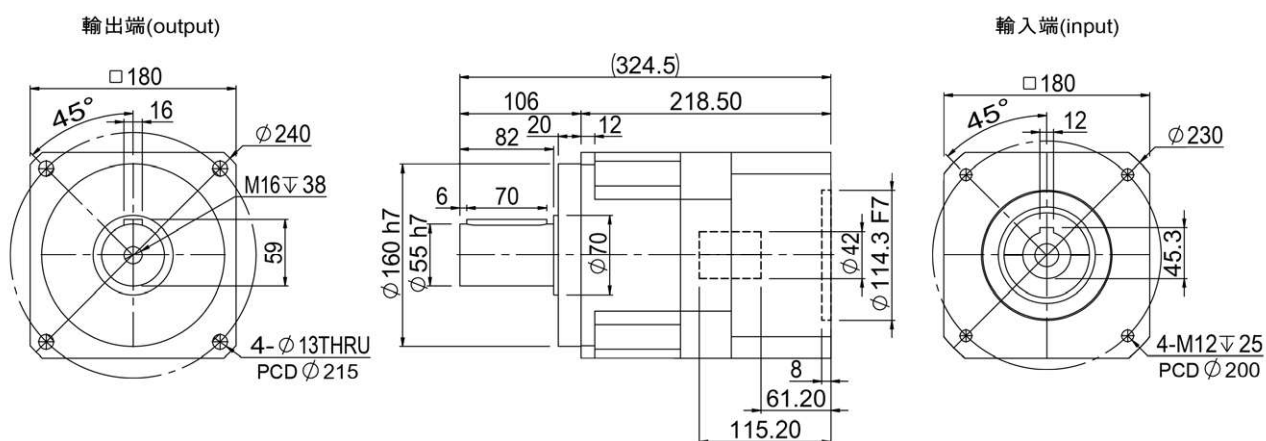
■ GPB142-L1



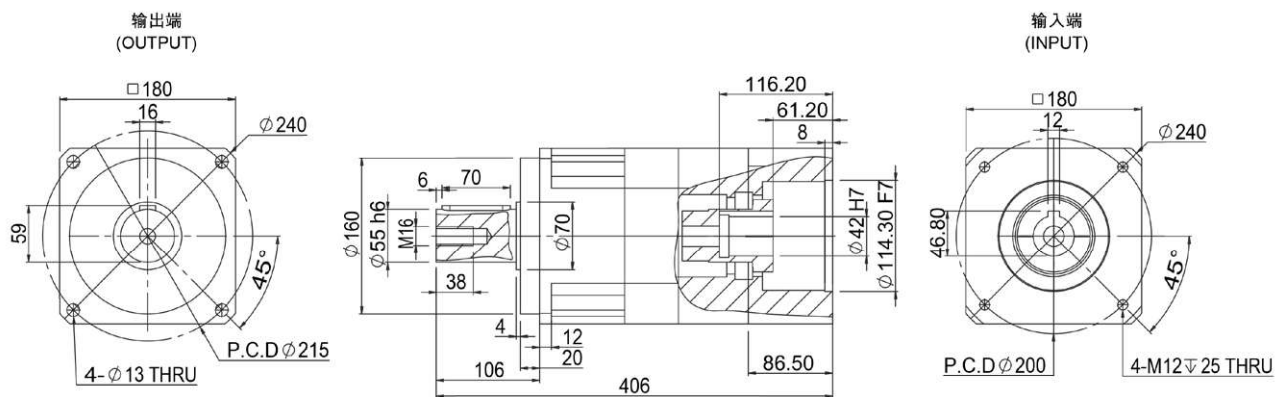
■ GPB142-L2



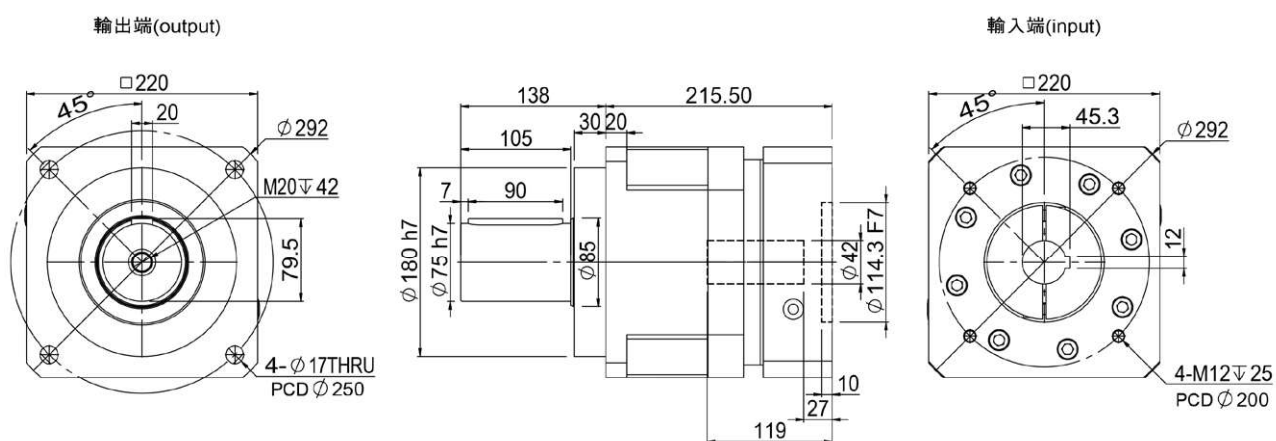
■ GPB180-L1



■ GPB180-L2



■ GPB220-L1



■ GPB220-L2

