



GPD Series



型號說明 / MODEL

GPD	090	10K	(a - b - c - d)	
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
047	單級	20K	a 馬達輸出軸直徑 Motor Shaft diameter	依據尺寸圖確認 According to the drawing 空白：標準品 Blank：Standard
064	Single	25K	b 馬達止口直徑 Motor Spigot diameter	
090	(L1)	35K	c 馬達安裝孔 PCD Motor Mounting Hole PCD	
110	4K	40K	d 馬達安裝螺紋孔 Motor mounting threaded hole	
140	5K	50K		
200	7K	70K		
255	10K	100K		

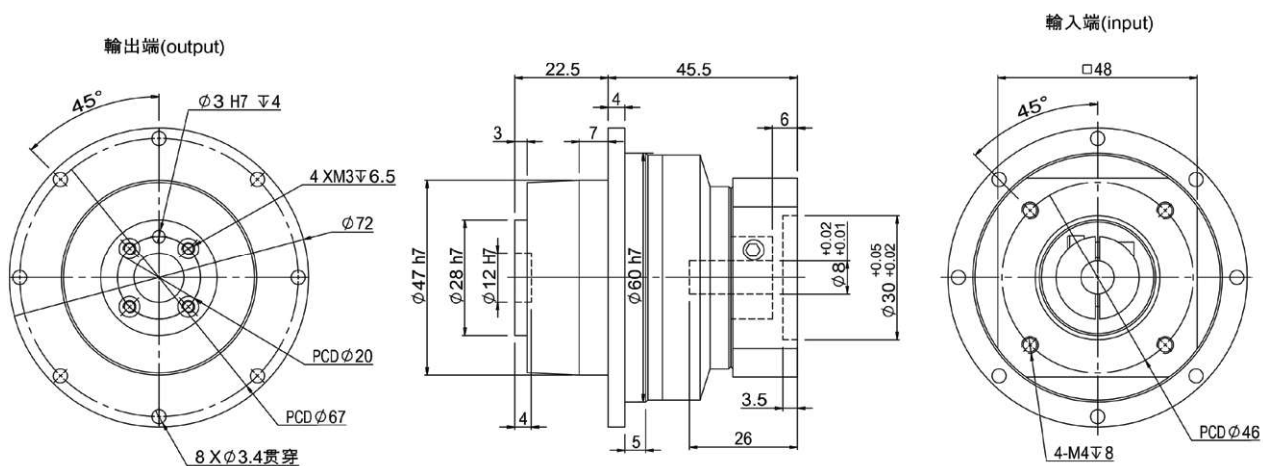
轉動慣量總表 / MOMENT OF INERTIA

規格 specification		級數 stage	減速比 Ratio	GPD047	GPD064	GPD090	GPD110	GPD140	GPD200	GPD255
轉動慣量 J1 Moment of inertia J1	kg·cm ²	1	4K	0.03	0.14	0.51	2.84	7.54	25.03	58.31
			5K	0.03	0.13	0.47	2.71	7.42	23.29	53.27
			7K	0.03	0.13	0.45	2.67	7.14	22.48	50.97
			10K	0.03	0.13	0.44	2.57	7.03	22.51	5056
		2	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
			35K	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			40K	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			50K	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
			100K	0.03	0.03	0.13	0.44	2.57	7.03	22.51

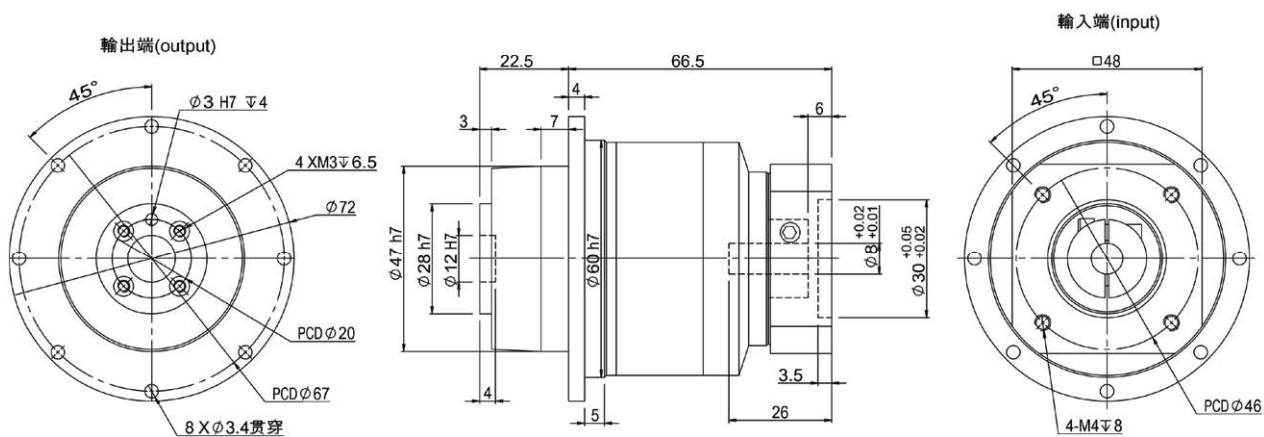
減速機性能資料 / PERFORMANCE

規格 specification		節數 stage	減速比 ratio	GPD047	GPD064	GPD090	GPD110	GPD140	GPD200	GPD255
額定輸出力矩 Rated output torque T_{2N}	Nm	1	4K	19	48	130	270	560	1100	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	20K	19	48	130	270	560	1100	1700
			25K	22	60	160	330	650	1200	2000
			35K	19	50	140	300	550	1100	1800
			40K	19	48	130	270	560	1000	1700
			50K	22	60	160	330	650	1200	2000
			70K	19	50	140	300	550	1100	1800
			100K	14	40	100	230	450	900	1500
急停扭矩 T_{2NOT} Emergency stop torque T_{2NOT}	Nm	1 & 2	4 ~ 100K	3 倍額定輸出力矩 / Triple rated output torque						
額定輸入轉速 n_{1N} Rated input speed n_{1N}	rpm	1 & 2	4 ~ 100K	5000	5000	4000	4000	3000	3000	2000
最大輸入轉速 n_{1B} Max input speed n_{1B}		1 & 2	4 ~ 100K	10000	10000	8000	8000	6000	6000	4000
精密背隙 P1 Precision backlash P1	arcmin	1	4 ~ 10K	-	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
		2	20 ~ 100K	-	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
標準背隙 P2 Standard backlash P2	arcmin	1	4 ~ 10K	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
		2	20 ~ 100K	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
扭轉剛性 Torsional rigidity	Nm/arcmin	1 & 2	4 ~ 100K	7	13	31	82	151	440	1006
最大彎曲力矩 Max bending torque	N	1 & 2	4 ~ 100K	42.5	125	325	430	1300	3064	5900
容許軸向力 F_{2aB} Allowable axial force F_{2aB}	N	1 & 2	4 ~ 100K	990	1050	2850	2990	10590	16660	29430
使用壽命 Lifespan	Hr	1 & 2	4 ~ 100K	20000						
效率 Efficiency	%	1	4 ~ 10K	≥ 97%						
		2	20 ~ 100K	≥ 94%						
重量 Weight	kg	1	4 ~ 10K	0.7	1.2	3	5.6	11.9	31.6	56.1
		2	20 ~ 100K	1	1.6	3.7	7.3	15.9	36.9	70.4
使用溫度 Working temperature	°C	1 & 2	4 ~ 100K	-10°C ~ 90°C						
潤滑 Grease		1 & 2	4 ~ 100K	合成潤滑油脂 / Synthetic lubricating grease						
防護等級 IP Grade		1 & 2	4 ~ 100K	IP65						
安裝方向 Installation direction		1 & 2	4 ~ 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	4 ~ 100K	≤ 56	≤ 58	≤ 60	≤ 63	≤ 65	≤ 67	≤ 70

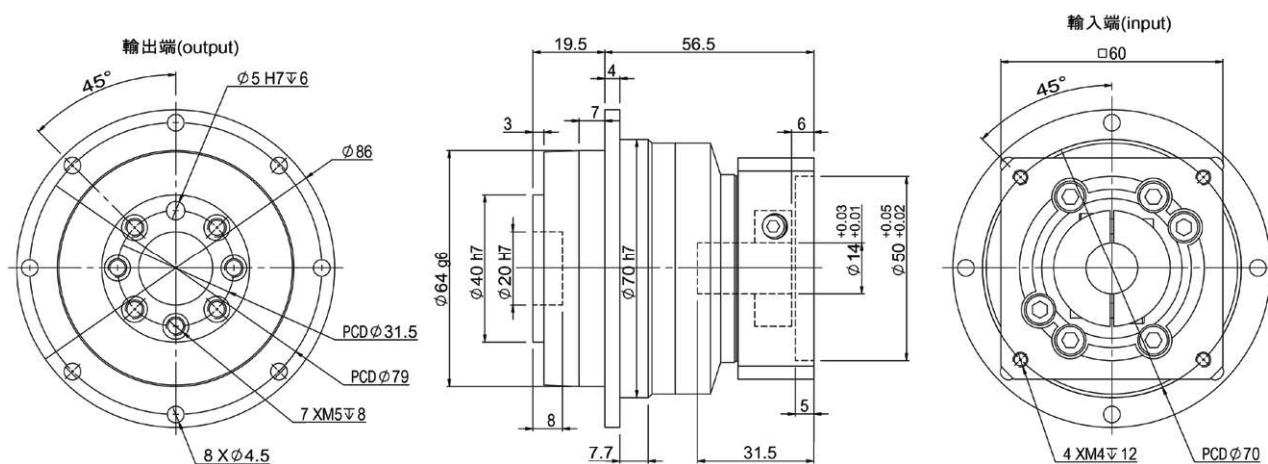
■ GPD047-L1



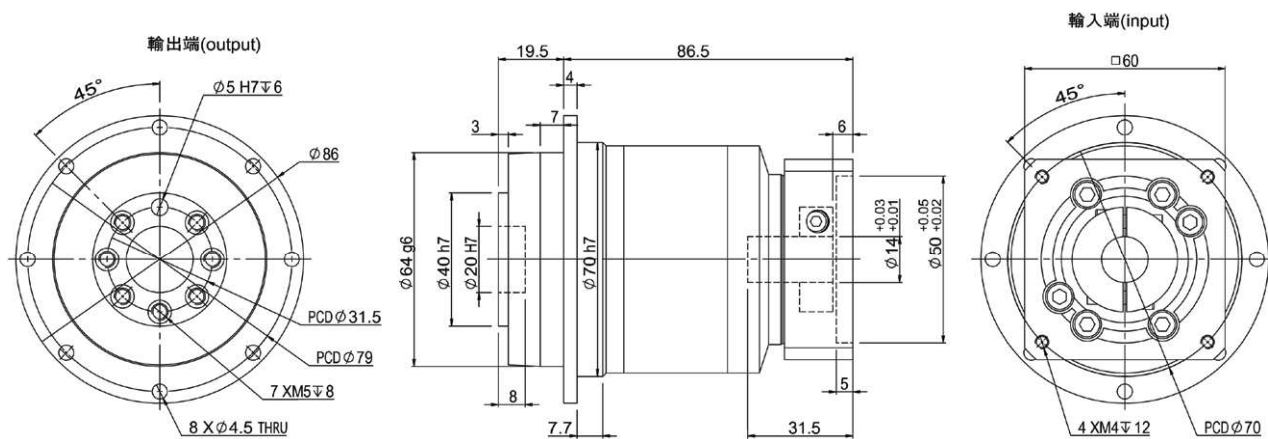
■ GPD047-L2



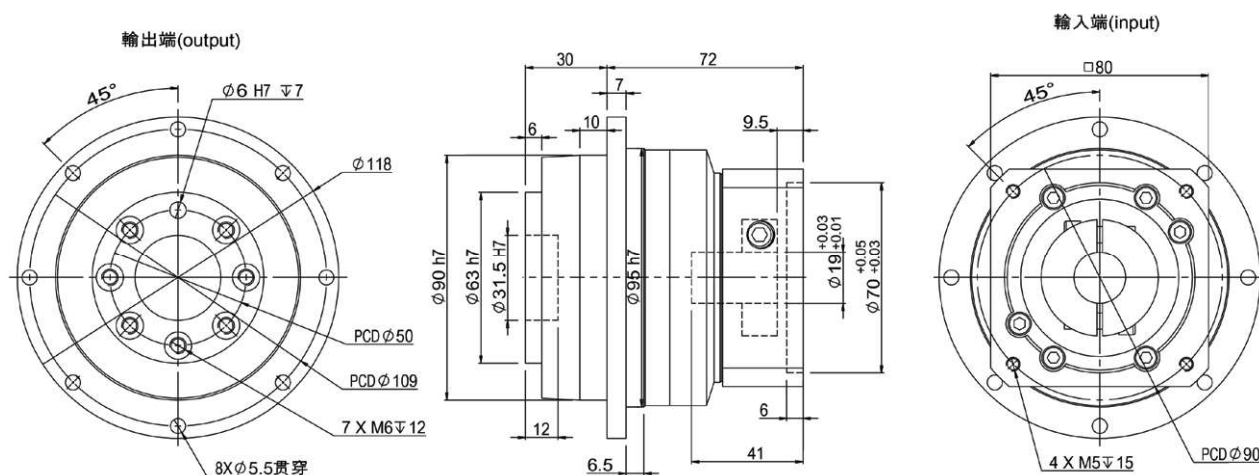
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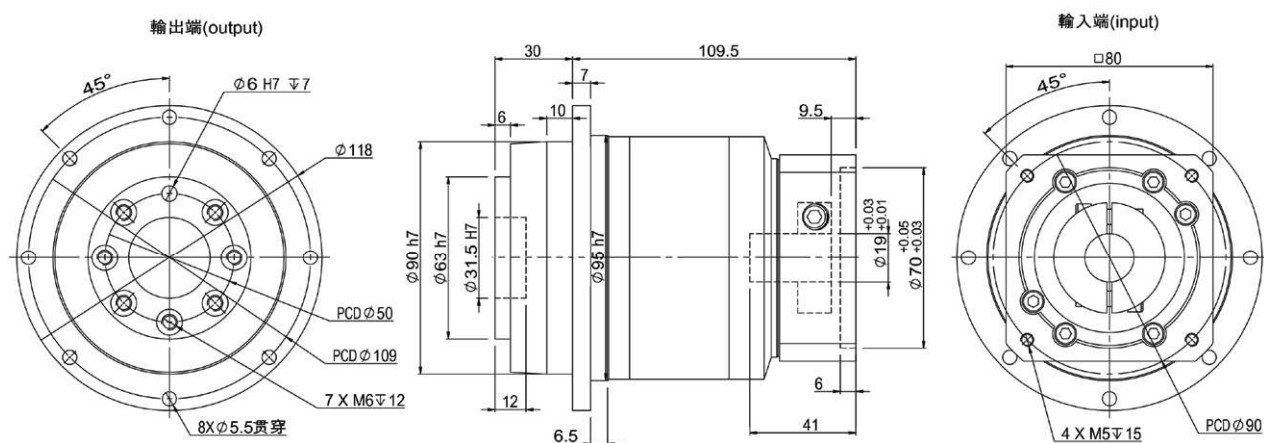
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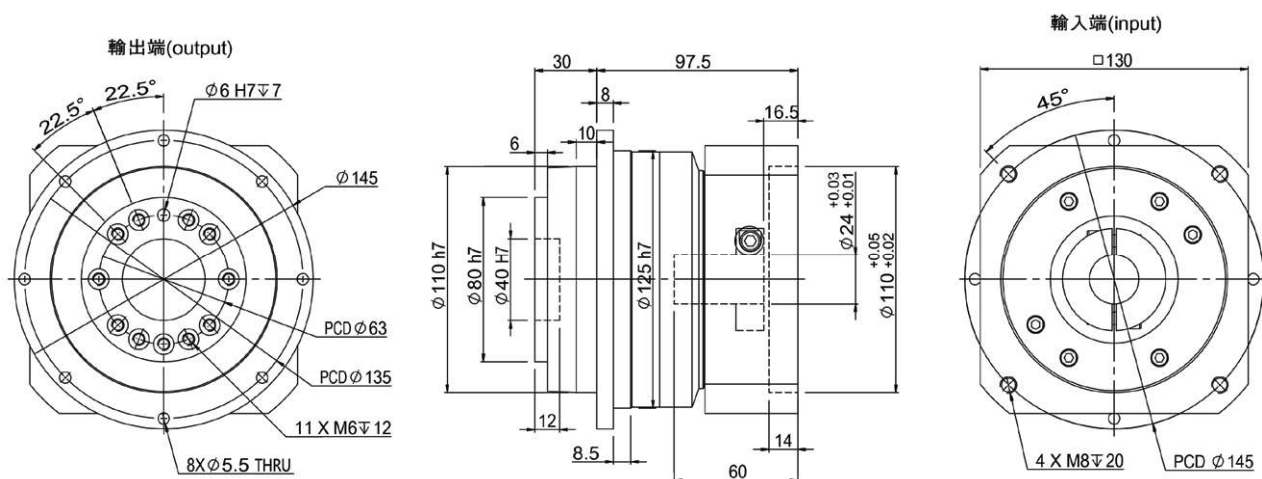
■ GPD090-L1



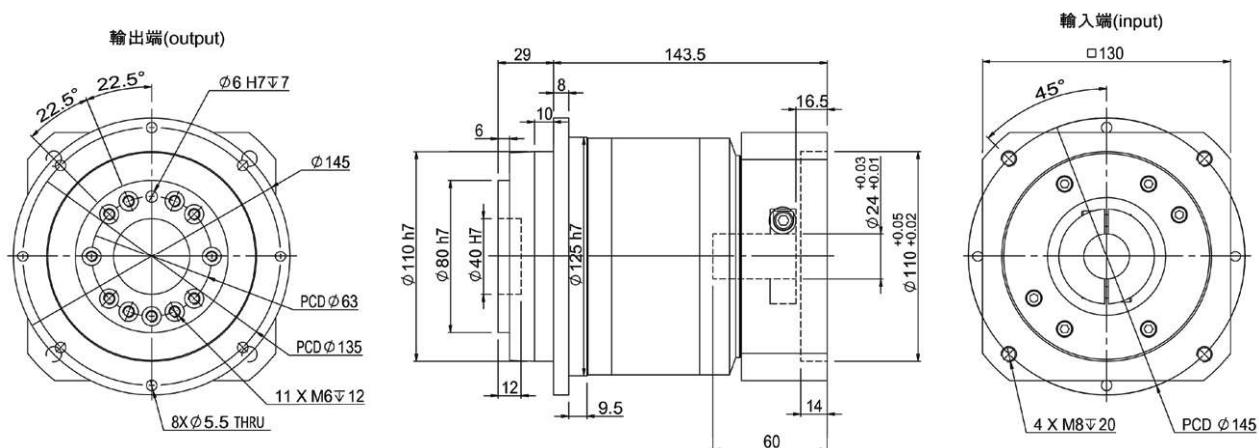
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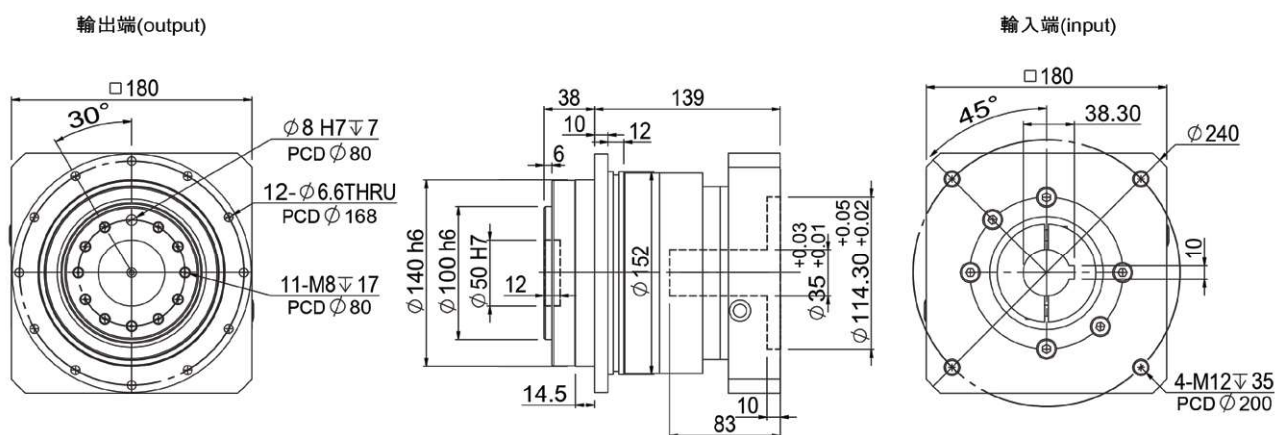
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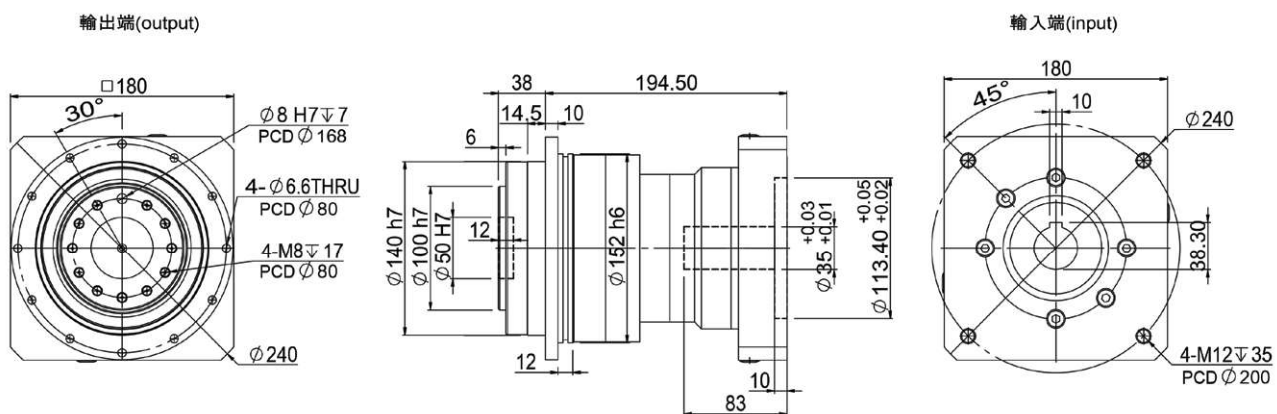
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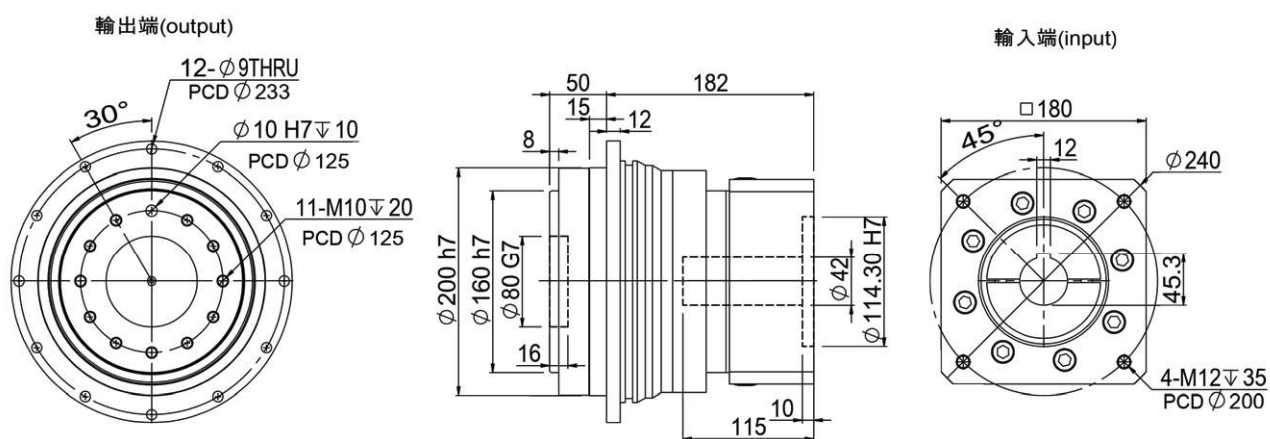
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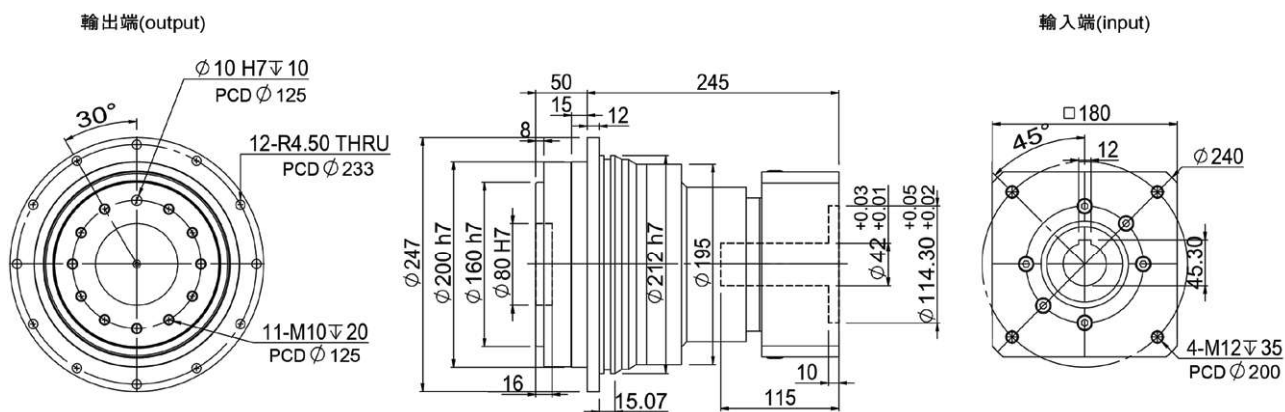
■ GPD140-L2



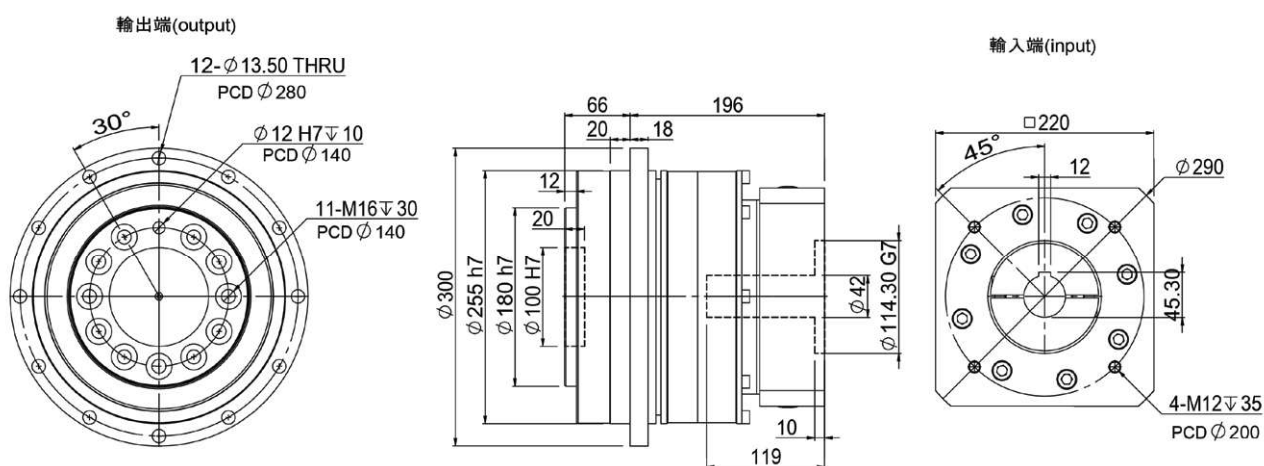
■ GPD200-L1



■ GPD200-L2



■ GPD255-L1



■ GPD255-L2

