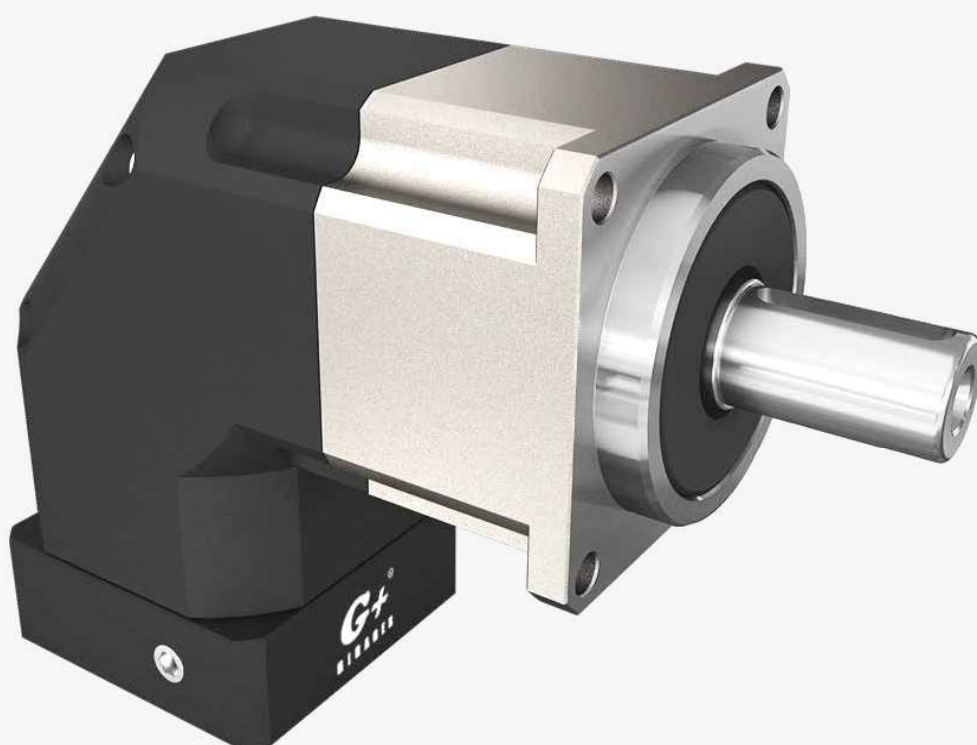




GPBR Series



型號說明 / MODEL

GPBR	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
			單級 Single (L1)	雙級 Double (L2)			
			3K	15K			
			4K	25K			
			5K	30K			
			7K	35K			
			10K	40K			
			14K	50K			
			20K	70K			
				80K			
				100K			
				140K			
				200K			
	042						
	060						
	090						
	115						
	142						
	180						

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

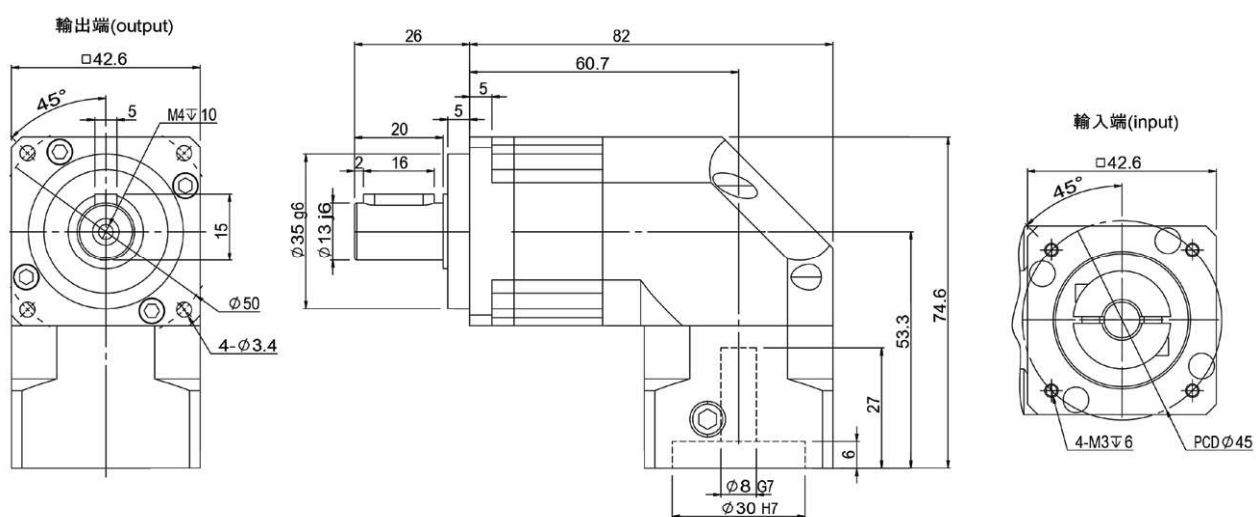
轉動慣量總表 / MOMENT OF INERTIA

規格 specification	級數 stage	減速比 Ratio	GPBR042	GPBR060	GPBR090	GPBR115	GPBR142	GPBR180
轉動慣量 J1 Moment of inertia J1	1	3K	0.04	0.35	2.25	6.84	23.4	68.9
		4K	0.04	0.35	2.25	6.84	23.4	68.9
		5K	0.04	0.35	2.25	6.84	23.4	68.9
		7K	0.04	0.35	2.25	6.84	23.4	68.9
		10K	0.04	0.35	2.25	6.84	23.4	68.9
		14K	-	0.07	1.87	6.25	21.8	65.6
		20K	-	0.07	1.87	6.25	21.8	65.6
	2	15K	0.04	0.35	2.25	6.84	23.4	68.9
		25K	0.04	0.09	0.35	2.25	6.84	23.4
		30K	0.04	0.09	0.35	2.25	6.84	23.4
		35K	0.04	0.09	0.35	2.25	6.84	23.4
		40K	0.04	0.09	0.35	2.25	6.84	23.4
		50K	0.04	0.09	0.35	2.25	6.84	23.4
		70K	0.04	0.09	0.35	2.25	6.84	23.4
		80K	0.04	0.09	0.35	2.25	6.84	23.4
		100K	0.04	0.09	0.35	2.25	6.84	23.4
		140K	0.04	0.01	0.31	1.87	6.25	21.8
		200K	0.04	0.01	0.31	1.87	6.25	21.8

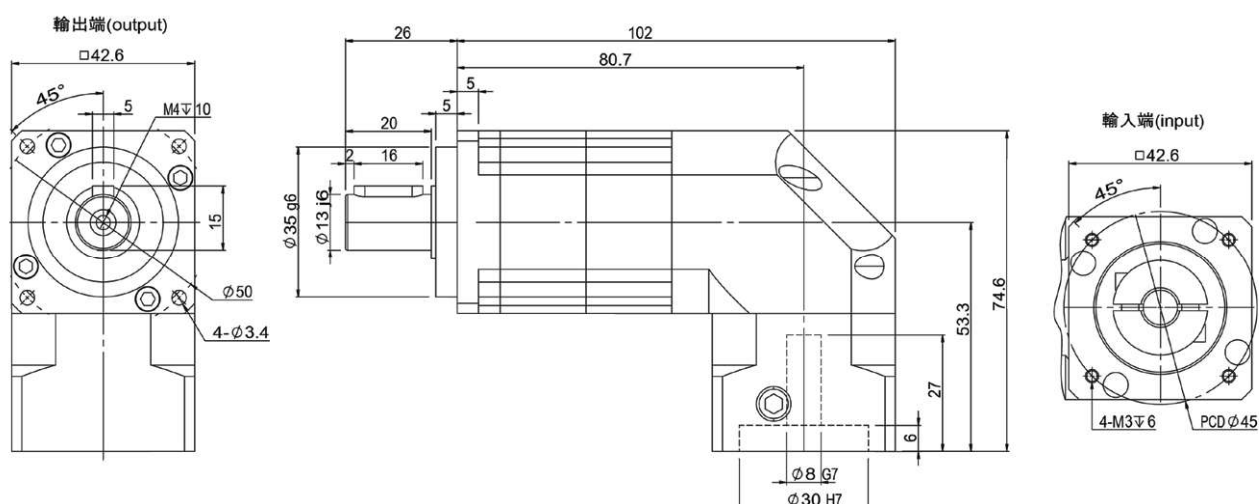
減速機性能資料 / PERFORMANCE

規格 specification		節數 stage	減速比 ratio	GPBR042	GPBR060	GPBR090	GPBR115	GPBR142	GPBR180
額定輸出力矩 T_{2N} Rated output torque T_{2N}	Nm	1	3K	19	36	90	195	342	588
			4K	20	48	120	260	520	1040
			5K	20	60	150	325	650	1200
			7K	19	50	140	300	550	1100
			10K	14	40	100	230	450	900
			14K	-	50	140	300	550	1100
			20K	-	40	100	230	450	900
		2	15K	19	60	150	325	650	1200
			25K	20	60	150	325	650	1200
			30K	19	55	150	310	600	1100
			35K	20	50	140	300	550	1100
			40K	20	45	120	260	500	1000
			50K	20	60	100	230	650	1200
			70K	19	50	140	300	550	1100
			80K	-	45	120	260	500	1000
			100K	14	40	100	230	450	900
			140K	-	50	140	300	550	1100
			200K	-	40	100	230	450	900
急停扭矩 T_{2NOT} Emergency stop torque T_{2NOT}	Nm	1 & 2	3 ~ 200K	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	3 ~ 200K	3000	5000	4000	4000	3000	3000
最大輸入轉速 n_{1B} Max input speed n_{1B}		1 & 2	3 ~ 200K	6000	10000	8000	8000	6000	6000
精密背隙 P1 Precision backlash P1	arcmin	1	3 ~ 20K	-	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
		2	15 ~ 200K	-	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
標準背隙 P2 Standard backlash P2	arcmin	1	3 ~ 20K	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
		2	15 ~ 200K	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
扭轉剛性 Torsional rigidity	Nm/arcmin	1 & 2	3 ~ 200K	3	7	14	25	50	145
容許徑向力 F_{2rB} Allowable radial force F_{2rB}	N	1 & 2	3 ~ 200K	700	1530	3250	6700	9400	14500
容許軸向力 F_{2aB} Allowable axial force F_{2aB}	N	1 & 2	3 ~ 200K	610	765	1625	3350	4700	7250
使用壽命 Lifespan	Hr	1 & 2	3 ~ 200K	20000					
效率 Efficiency	%	1	3 ~ 20K	≥ 95%					
		2	15 ~ 200K	≥ 92%					
重量 Weight	kg	1	3 ~ 20K	0.9	1.5	6.4	13	24.5	51
		2	15 ~ 200K	1.1	2.1	7.8	14.2	27.5	54
使用溫度 Working temperature	°C	1 & 2	3 ~ 200K	-10°C ~ 90°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	≤ 60	≤ 63	≤ 65	≤ 68	≤ 70	≤ 72

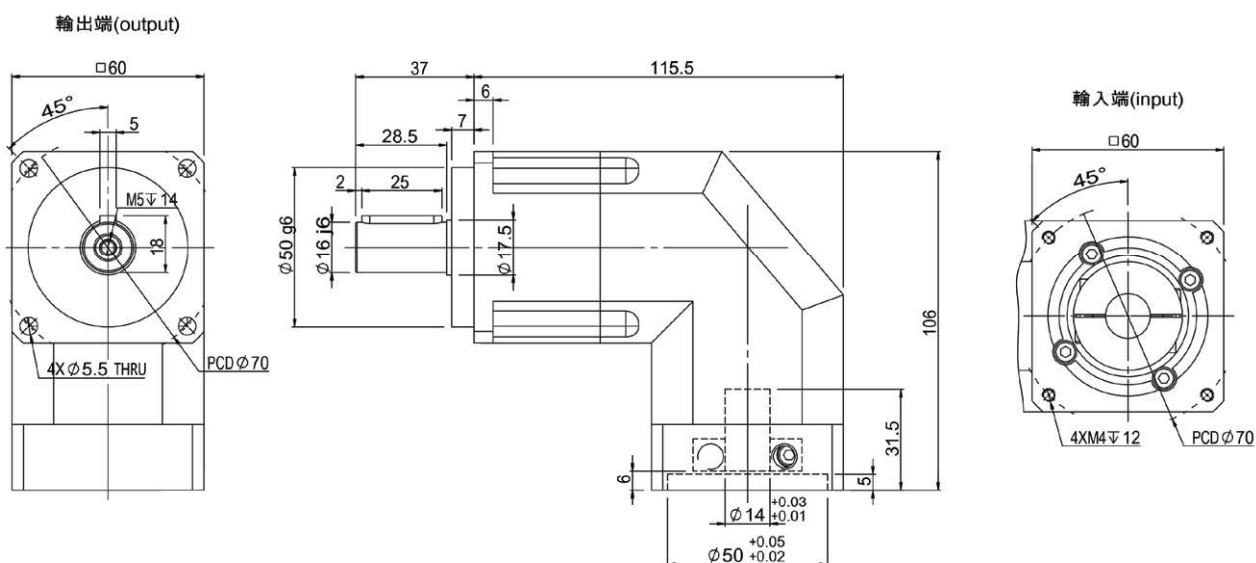
■ GPBR042-L1



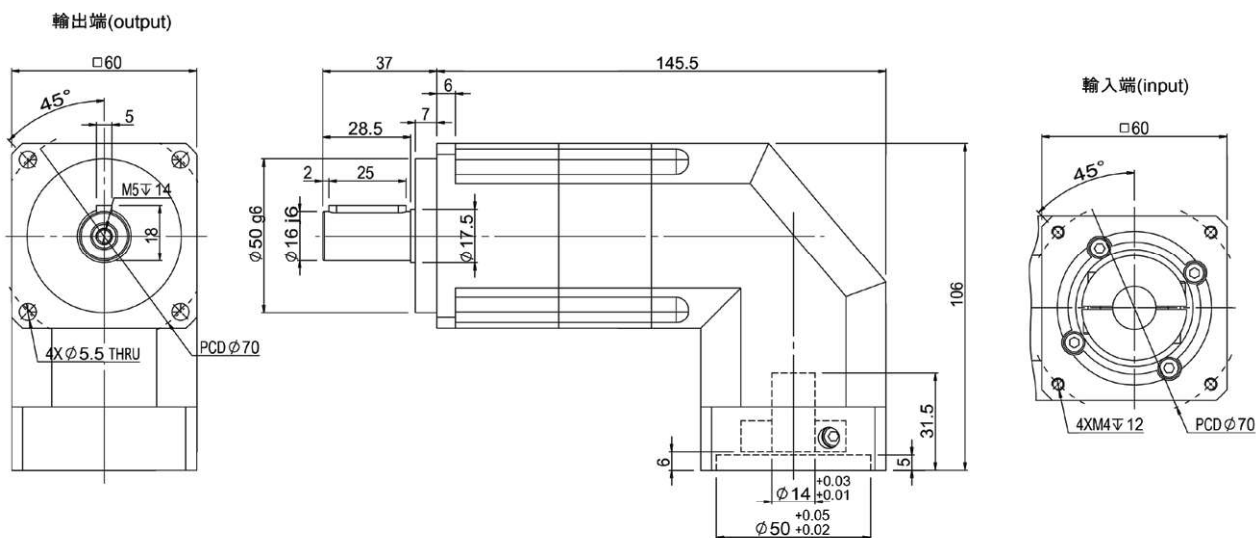
■ GPBR042-L2



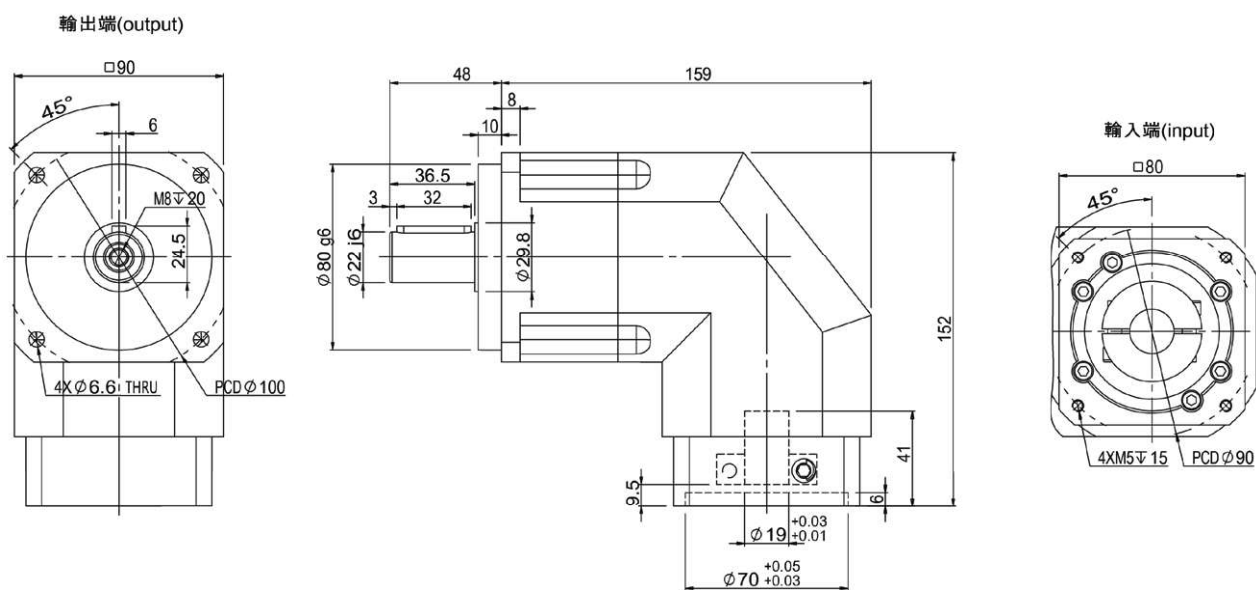
■ GPBR060-L1



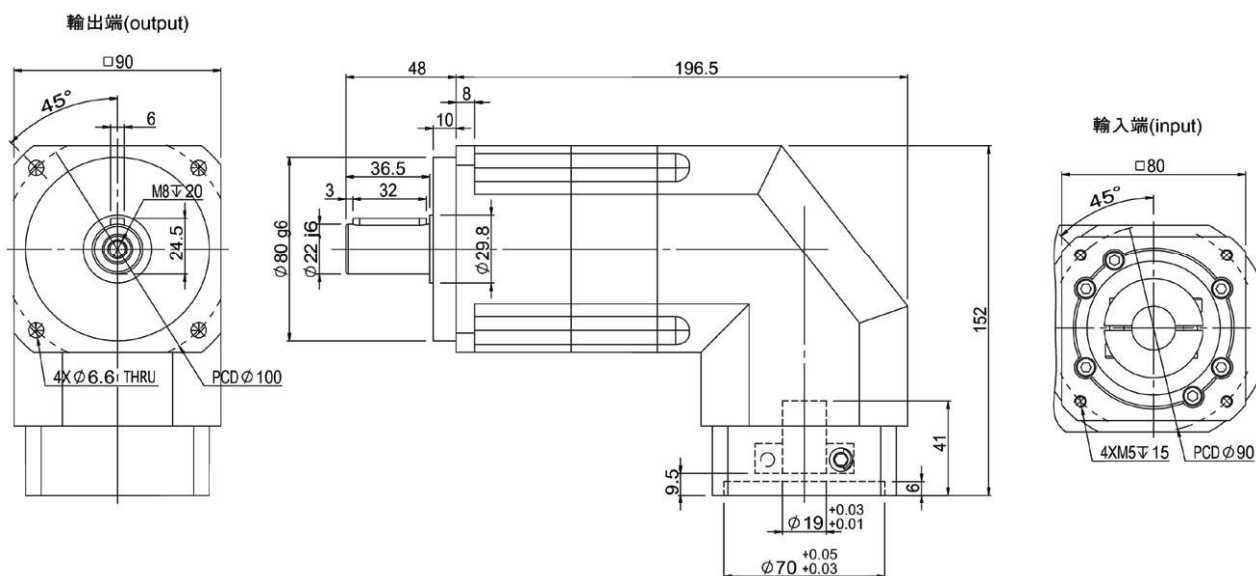
■ GPBR060-L2



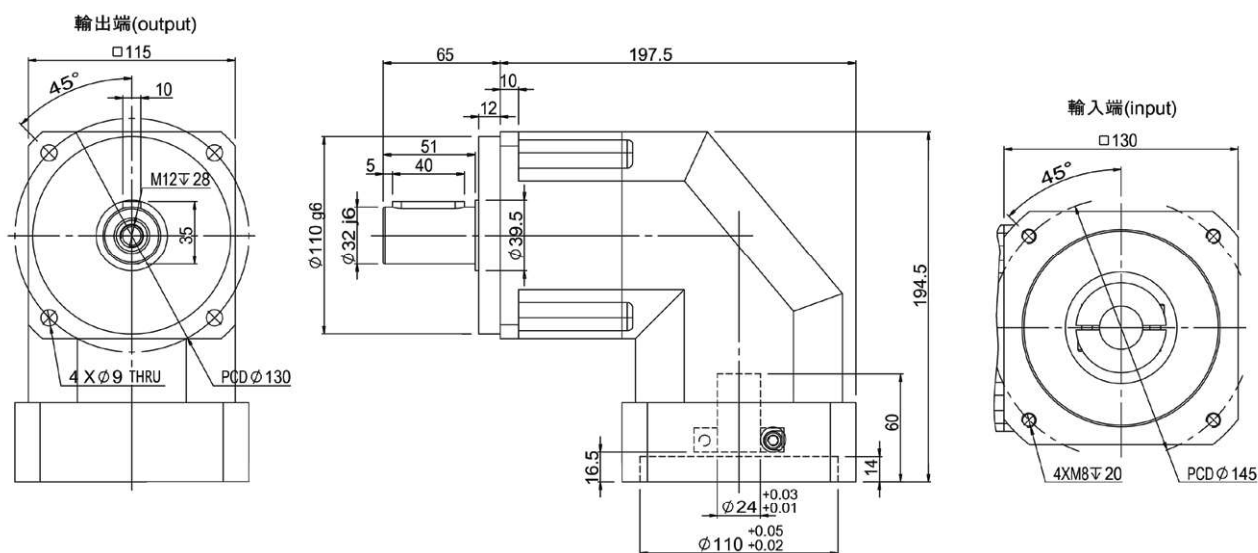
■ GPBR090-L1



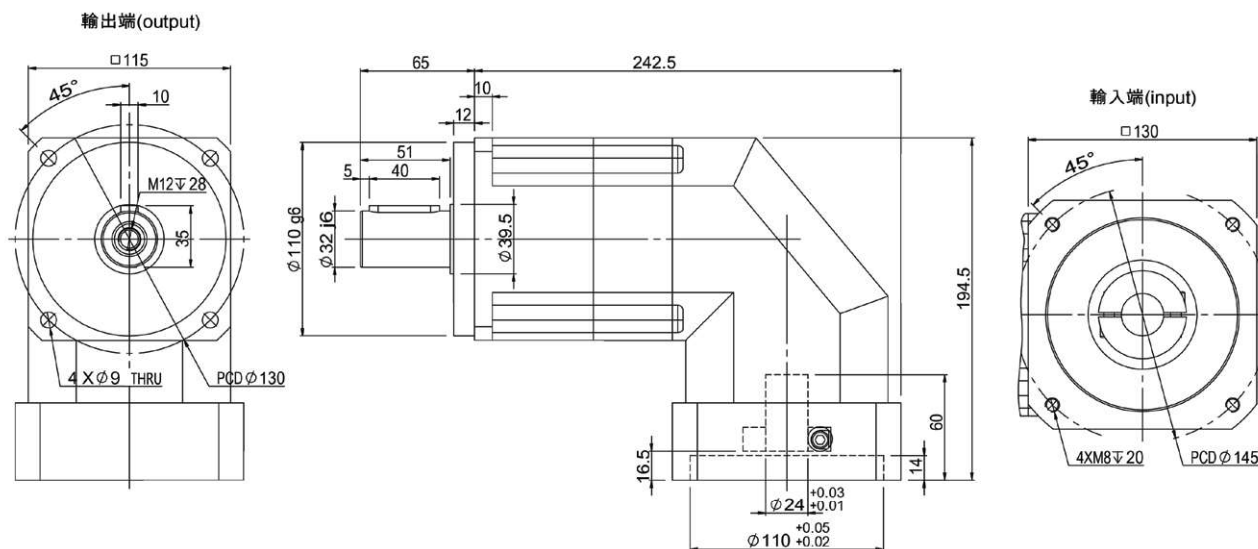
■ GPBR090-L2



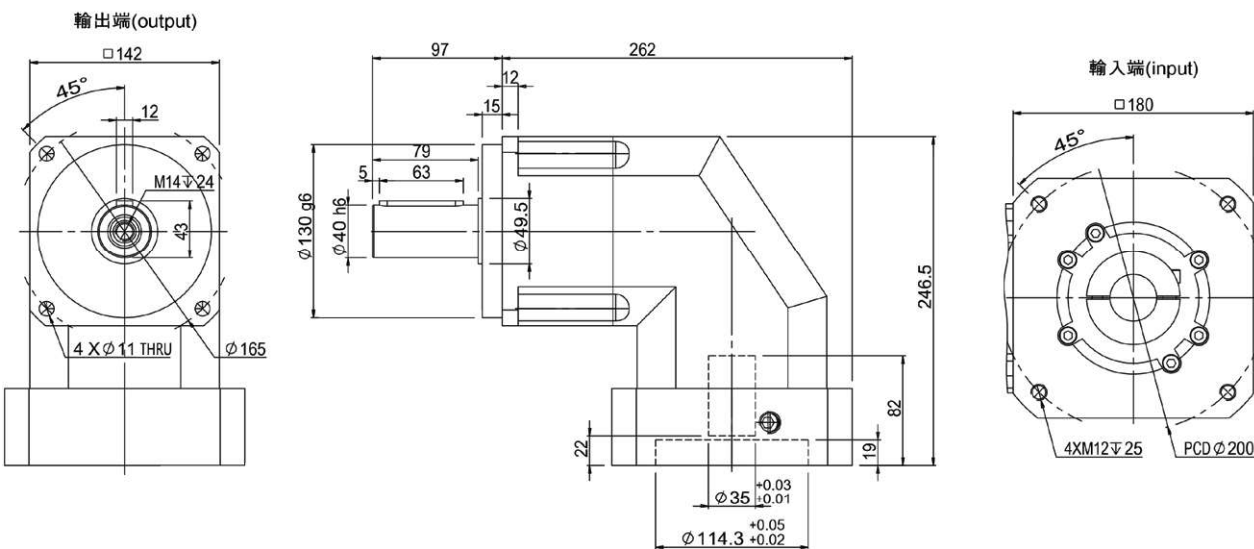
■ GPBR115-L1



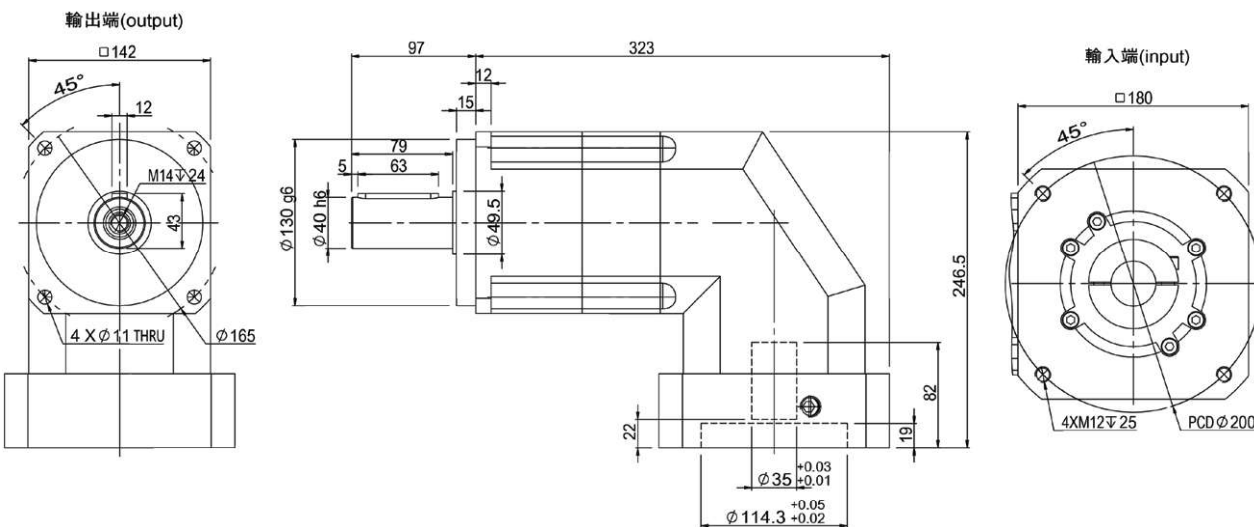
■ GPBR115-L2



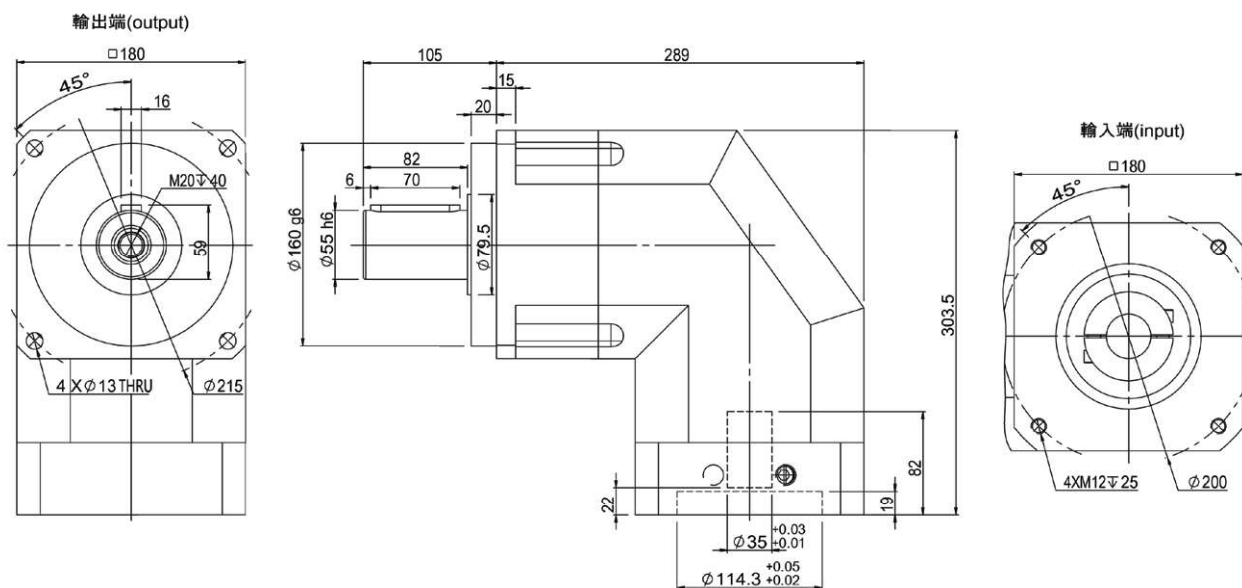
■ GPBR142-L1



■ **GPBR142-L2**



■ GPBR180-L1



■ GPBR180-L2

