



GPDR Series



型號說明 / MODEL

GPDR	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)	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
	047		4K	25K	a 馬達輸出軸直徑 Motor Shaft diameter		
	064		5K	35K	b 馬達止口直徑 Motor Spigot diameter		
	090		7K	40K	c 馬達安裝孔 PCD Motor Mounting Hole PCD		
	110		10K	50K	d 馬達安裝螺紋孔 Motor mounting threaded hole		
	140		14K	70K			
			20K	100K			
				140K			
				200K			

例 Example : (19-70-90-M5)

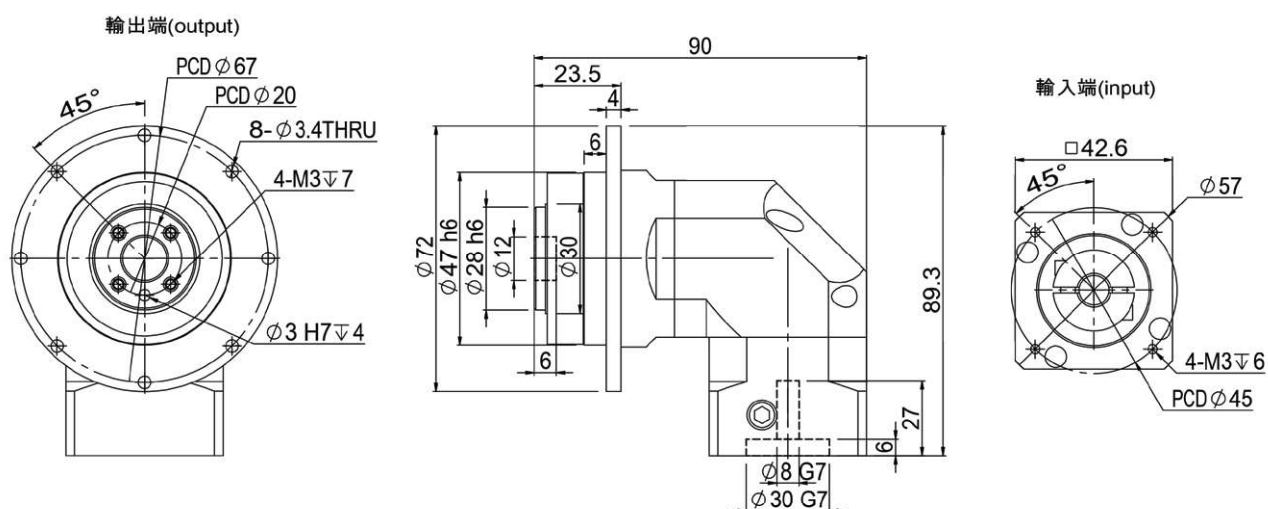
轉動慣量總表 / MOMENT OF INERTIA

規格 specification		級數 stage	減速比 Ratio	GPDR047	GPDR064	GPDR090	GPDR110	GPDR140
轉動慣量 J1 Moment of inertia J1	kg·cm ²	1	4K	0.04	0.35	2.25	6.84	23.4
			5K	0.04	0.35	2.25	6.84	23.4
			7K	0.04	0.35	2.25	6.84	23.4
			10K	0.04	0.35	2.25	6.84	23.4
			14K	-	0.07	1.87	6.25	21.8
			20K	-	0.07	1.87	6.25	21.8
		2	25K	0.04	0.09	0.35	2.25	6.84
			35K	0.04	0.09	0.35	2.25	6.84
			40K	0.04	0.09	0.35	2.25	6.84
			50K	0.04	0.09	0.35	2.25	6.84
			70K	0.04	0.09	0.35	2.25	6.84
			100K	0.04	0.09	0.35	2.25	6.84
			140K	0.04	0.09	0.31	1.87	6.25
			200K	0.04	0.09	0.31	1.87	6.25

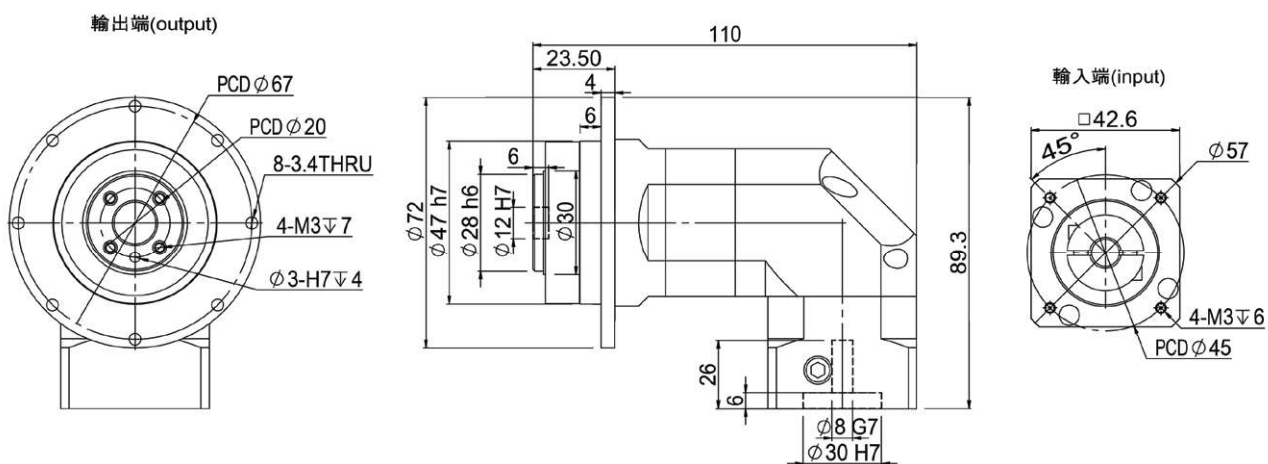
減速機性能資料 / PERFORMANCE

規格 specification		節數 stage	減速比 ratio	GPDR047	GPDR064	GPDR090	GPDR110	GPDR140
額定輸出力矩 Rated output torque T_{2N}	Nm	1	4K	20	48	130	270	560
			5K	20	60	160	330	650
			7K	19	50	140	300	550
			10K	14	40	100	230	450
			14K	-	42	140	300	550
			20K	-	40	100	230	450
		2	25K	20	60	160	330	650
			35K	20	50	140	300	550
			40K	20	48	130	270	560
			50K	20	60	160	330	650
			70K	19	50	140	300	550
			100K	14	40	100	230	450
			140K	-	50	140	300	550
			200K	-	40	100	230	450
急停扭矩 T_{2NOT} Emergency stop torque T_{2NOT}	Nm	1 & 2	4 ~ 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	4 ~ 200K	3000	5000	4000	4000	3000
最大輸入轉速 n_{1B} Max input speed n_{1B}		1 & 2	4 ~ 200K	6000	10000	8000	8000	6000
精密背隙 P1 Precision backlash P1	arcmin	1	4 ~ 20K	-	≤ 4	≤ 4	≤ 4	≤ 4
		2	25 ~ 200K	-	≤ 7	≤ 7	≤ 7	≤ 7
標準背隙 P2 Standard backlash P2	arcmin	1	4 ~ 20K	≤ 9	≤ 6	≤ 6	≤ 6	≤ 6
		2	25 ~ 200K	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
扭轉剛性 Torsional rigidity	Nm/arcmin	1 & 2	4 ~ 200K	7	13	31	82	151
最大彎曲力矩 Max bending torque	N	1 & 2	4 ~ 200K	42.5	125	325	430	1300
容許軸向力 F_{2aB} Allowable axial force F_{2aB}	N	1 & 2	4 ~ 200K	750	1050	2850	2990	10590
使用壽命 Lifespan	Hr	1 & 2	4 ~ 200K	20000				
效率 Efficiency	%	1	4 ~ 20K	≥ 95%				
		2	25 ~ 200K	≥ 92%				
重量 Weight	kg	1	4 ~ 20K	1.0	1.9	4.5	9.8	20.1
		2	25 ~ 200K	1.3	2.1	5.9	10.5	21.9
使用溫度 Working temperature	°C	1 & 2	4 ~ 200K	-10°C ~ 90°C				
潤滑 Grease		1 & 2	4 ~ 200K	合成潤滑油脂 / Synthetic lubricating grease				
防護等級 IP Grade		1 & 2	4 ~ 200K	IP65				
安裝方向 Installation direction		1 & 2	4 ~ 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	4 ~ 200K	≤ 60	≤ 63	≤ 65	≤ 68	≤ 70

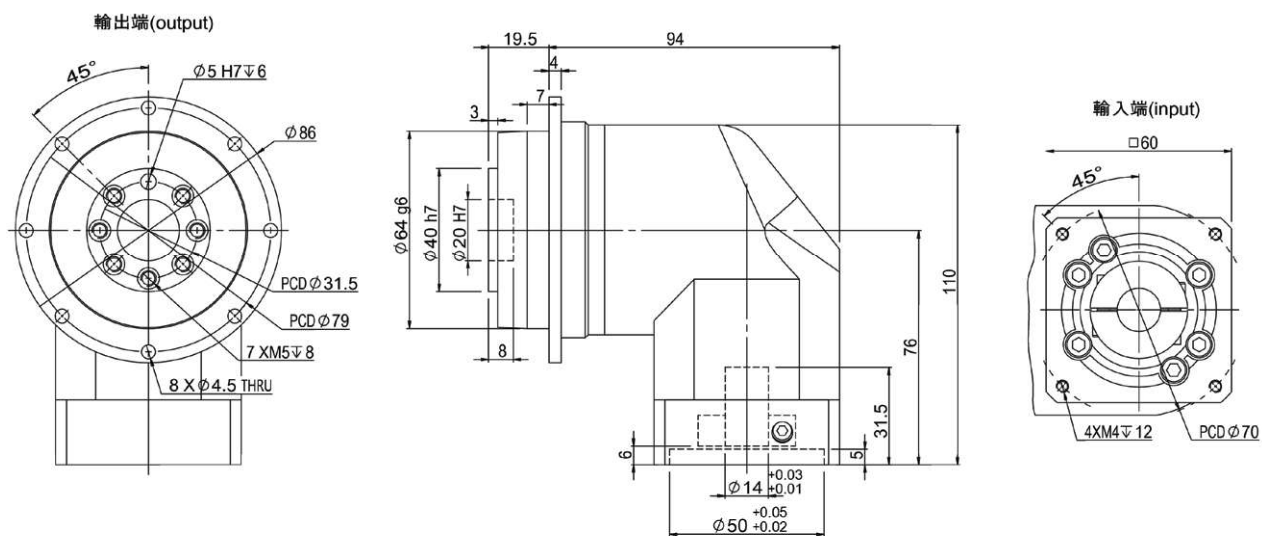
■ GPDR047-L1



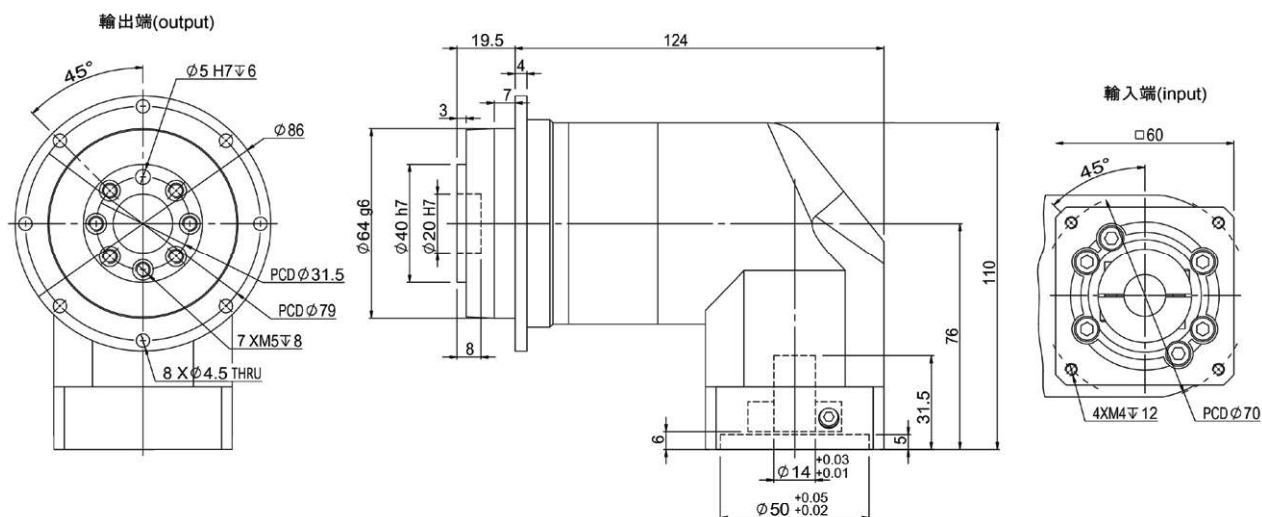
■ GPDR047-L2



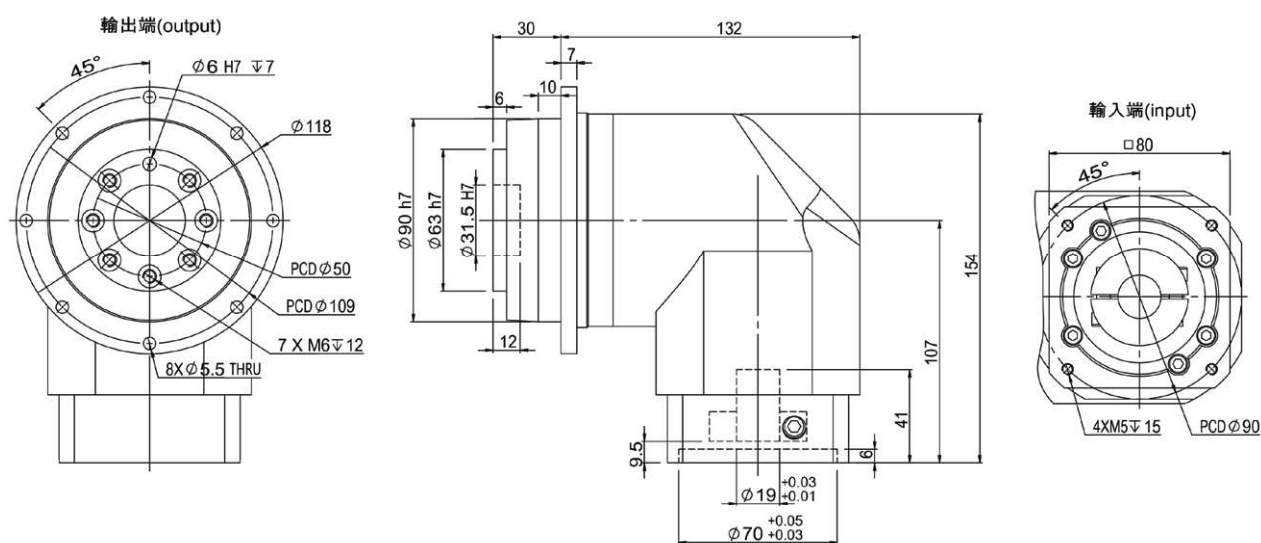
■ GPDR064-L1



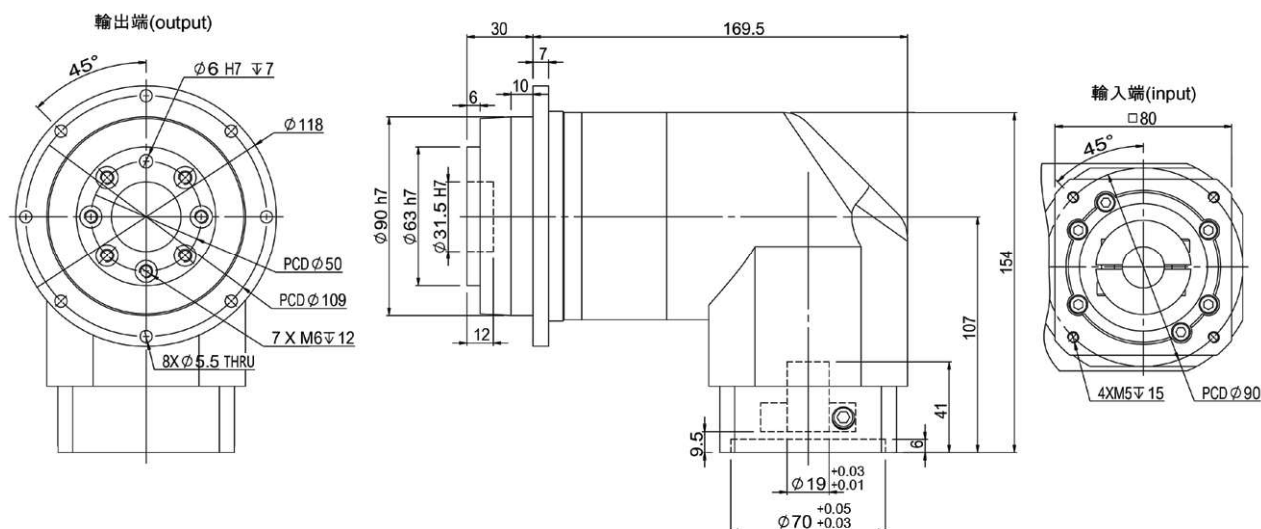
■ GPDR064-L2



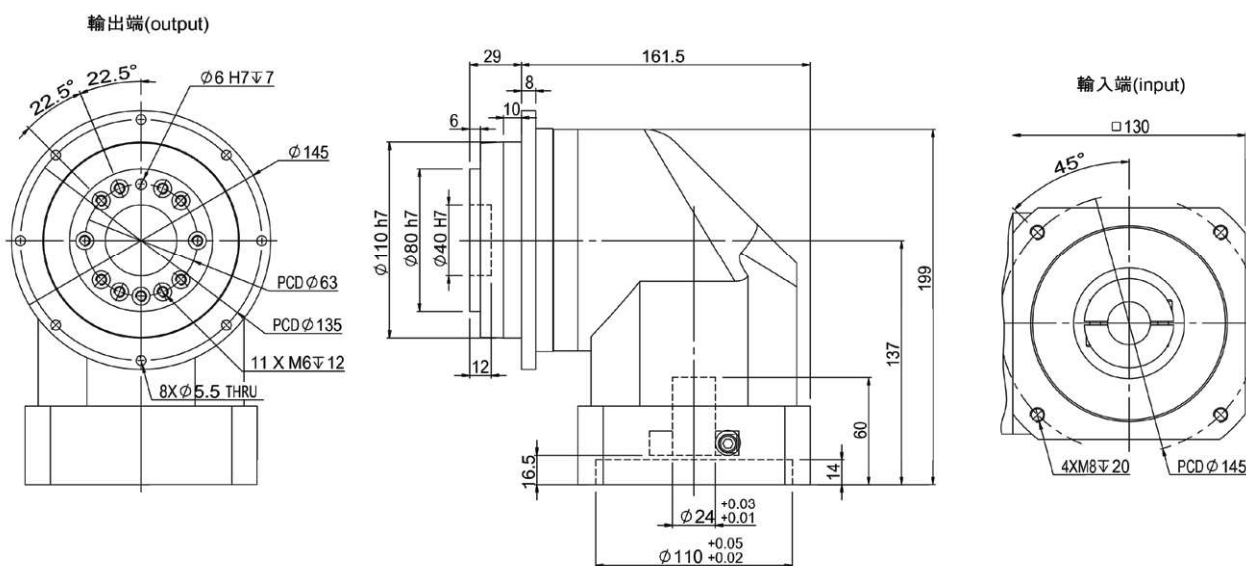
■ GPDR090-L1



■ GPDR090-L2



■ GPDR110-L1



■ GPDR110-L2

