



GPF Series



型號說明 / MODEL

GPF	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				
		單級 Single (L1)	25K		依據馬達連接尺寸確認 According to the motor connection size		
			28K		a 馬達輸出軸直徑 Motor Shaft diameter		
			30K		b 馬達止口直徑 Motor Spigot diameter		
			35K		c 馬達安裝孔 PCD Motor Mounting Hole PCD		
			40K		d 馬達安裝螺紋孔 Motor mounting threaded hole		
			50K				依據尺寸圖確認 According to the drawing
			70K				空白 : 標準品 Blank : Standard
	042		100K				
	060						
	080						
	090						
	120						
	160						

轉動慣量總表 / MOMENT OF INERTIA

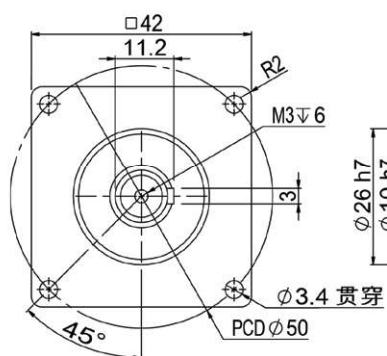
規格 specification	級數 stage	減速比 Ratio	GPF042	GPF060	GPF080	GPF090	GPF120	GPF160
轉動慣量 J1 Moment of inertia J1	1	3K	0.03	0.16	0.61	0.61	3.25	9.21
		4K	0.03	0.14	0.48	0.48	2.74	7.54
		5K	0.03	0.13	0.47	0.47	2.71	7.42
		7K	0.03	0.13	0.45	0.45	2.62	-
		10K	0.03	0.13	0.44	0.44	2.57	-
	2	12K	-	0.03	0.13	0.13	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	-
		30K	-	0.03	0.13	0.13	0.47	-
		35K	0.03	0.03	0.13	0.13	0.47	-
		40K	0.03	0.03	0.13	0.13	0.47	2.71
		50K	0.03	0.03	0.13	0.13	0.44	-
		70K	0.03	0.03	0.13	0.13	0.44	-
		100K	-	0.03	0.13	0.13	0.44	-

減速機性能資料 / PERFORMANCE

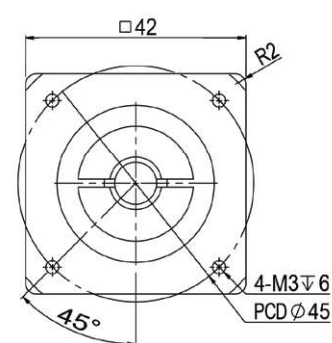
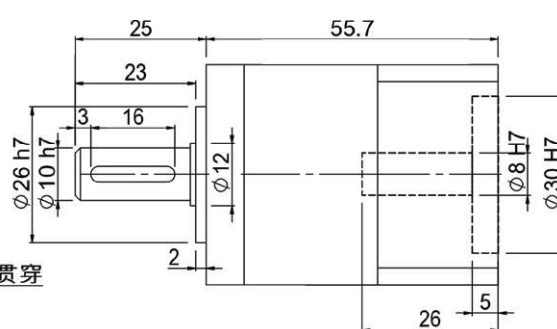
規格 specification		節數 stage	減速比 ratio	GPF042	GPF060	GPF080	GPF090	GPF120	GPF160
額定輸出力矩 T_{2N} Rated output torque T_{2N}	Nm	1	3K	12	15.8	56	60	150	310
			4K	12	25.5	80	88	225	605
			5K	11.2	27.5	85	95	240	420
			7K	9	19.2	60	66	160	-
			10K	7.5	12	36	40	90	-
		2	12K	-	28	36	98	250	680
			15K	-	15.8	56	60	150	460
			16K	-	29.5	88	98	250	680
			20K	12	29.5	88	98	250	680
			25K	11.2	31.5	95	105	270	460
			28K	-	29.5	88	98	250	-
			30K	-	15.8	56	60	150	-
			35K	9	31.5	95	105	270	-
			40K	12	29.5	88	98	250	460
			50K	11.2	31.5	95	105	270	-
			70K	7.5	22.5	68	75	180	-
			100K	-	12	36	40	90	-
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

■ GPF042-L1

輸出端(output)

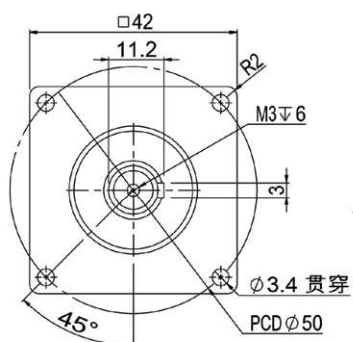


輸入端(input)

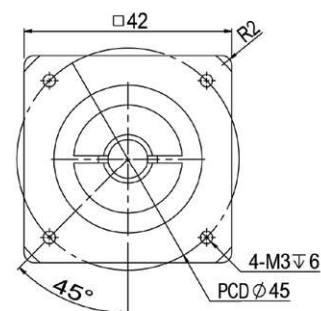
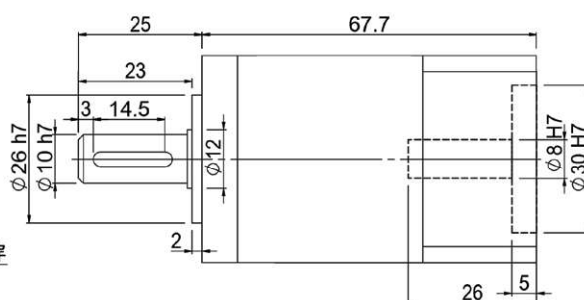


■ GPF042-L2

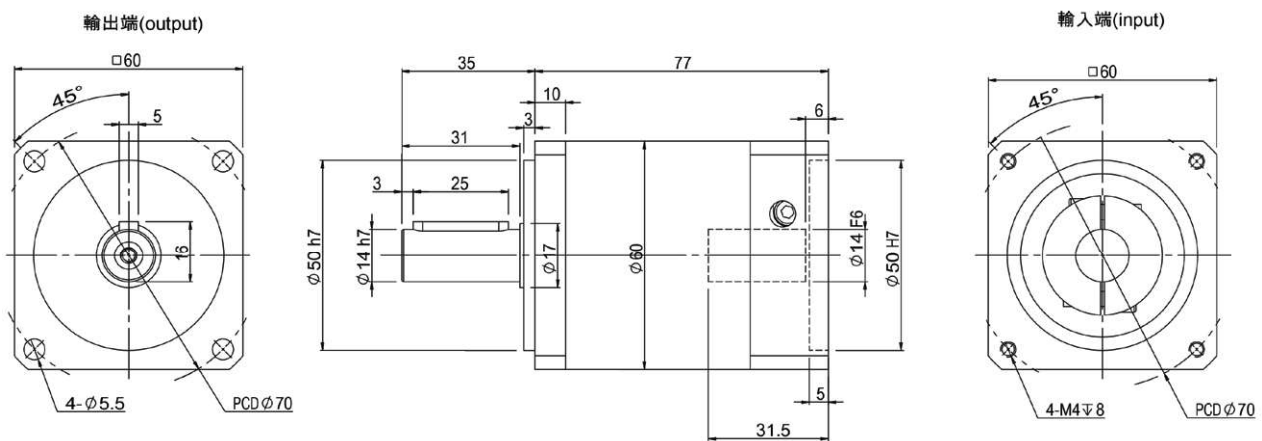
輸出端(output)



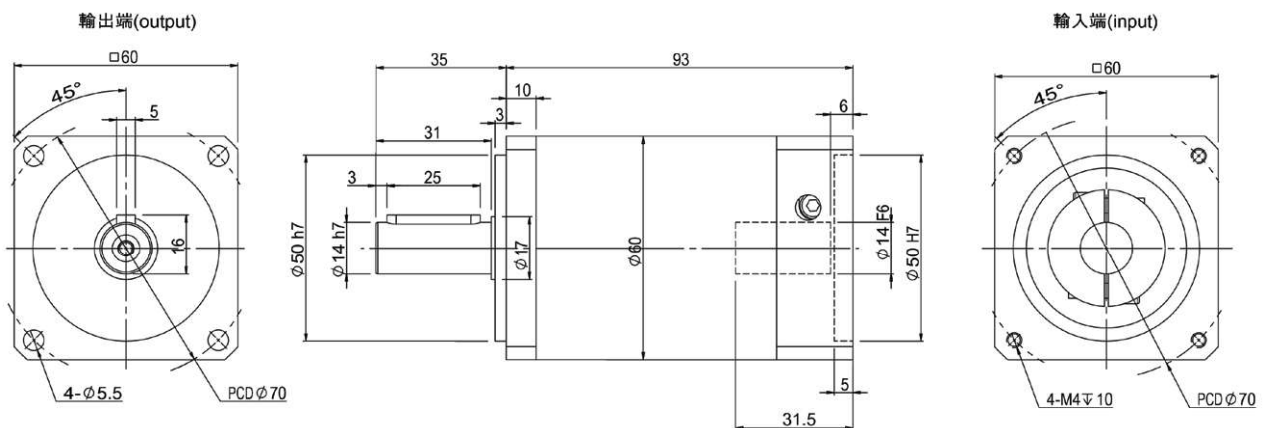
輸入端(input)



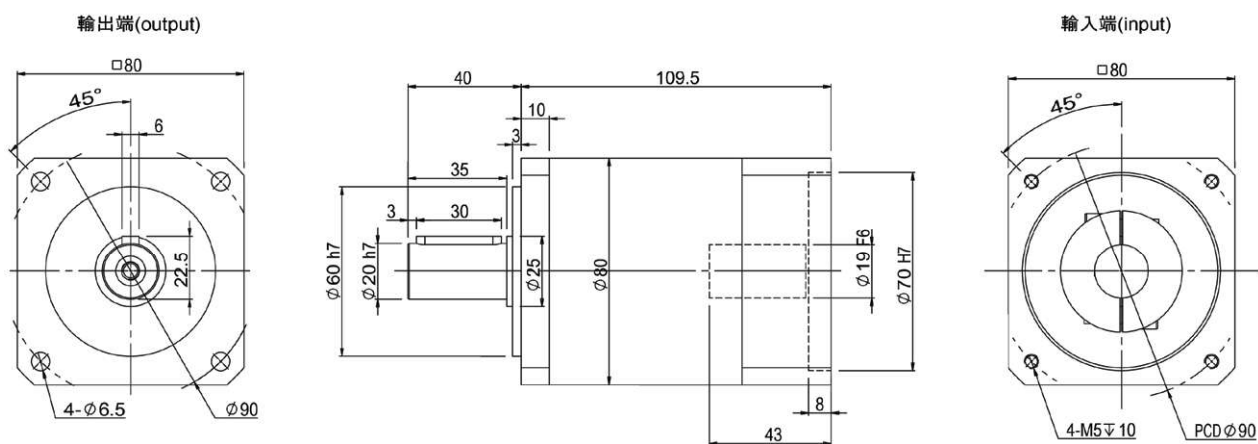
■ GPF060-L1



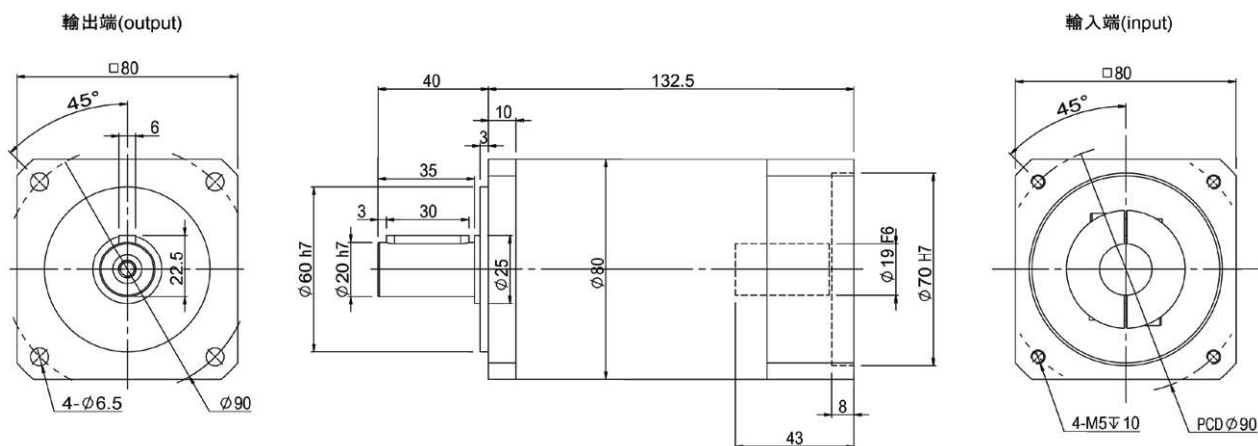
■ GPF060-L2



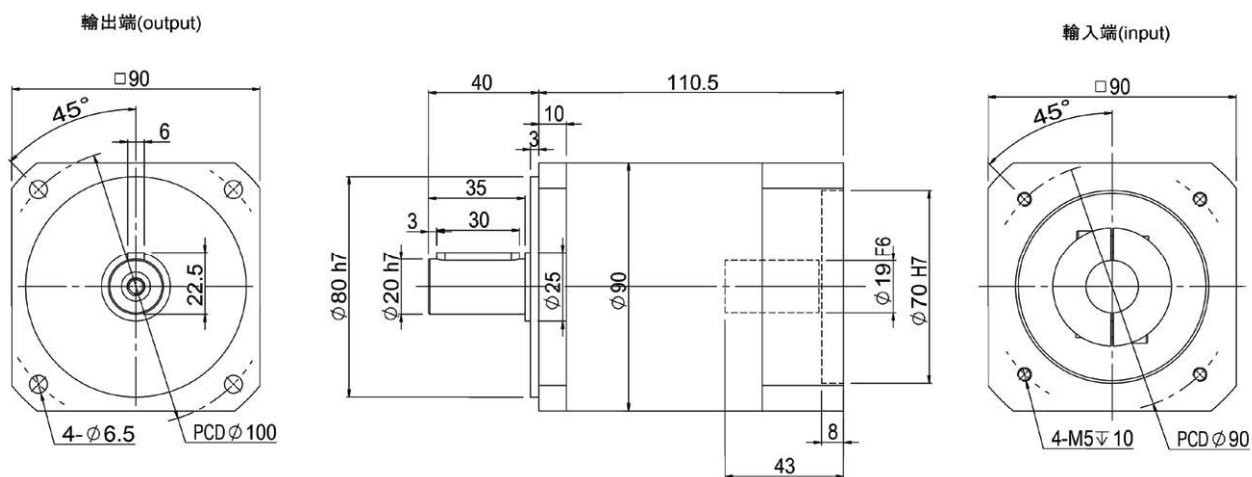
■ GPF080-L1



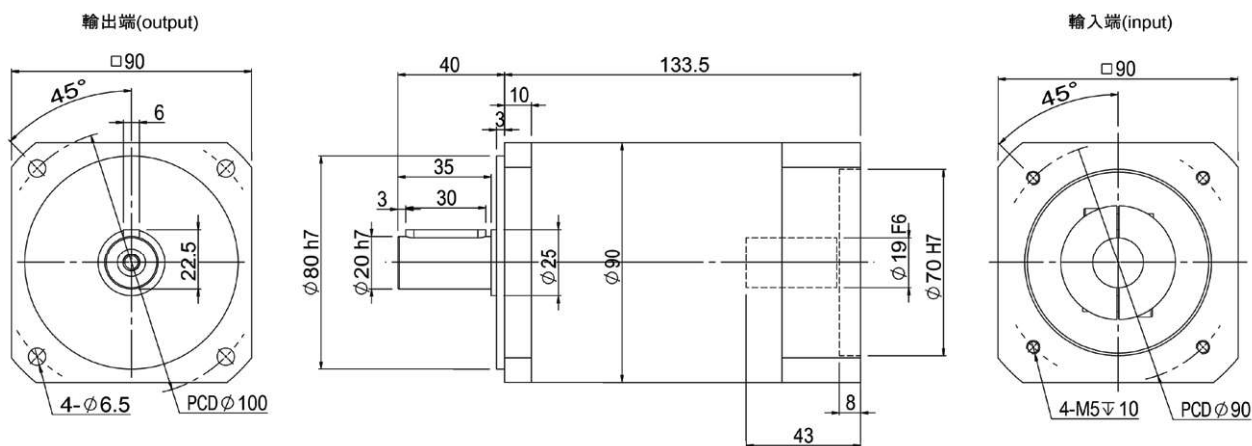
■ GPF080-L2



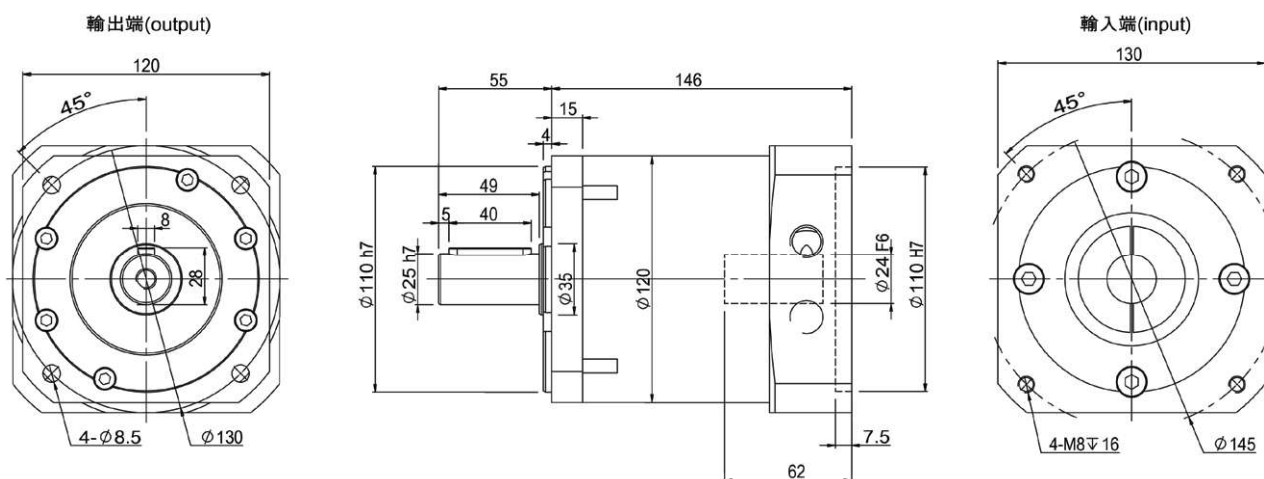
■ GPF090-L1



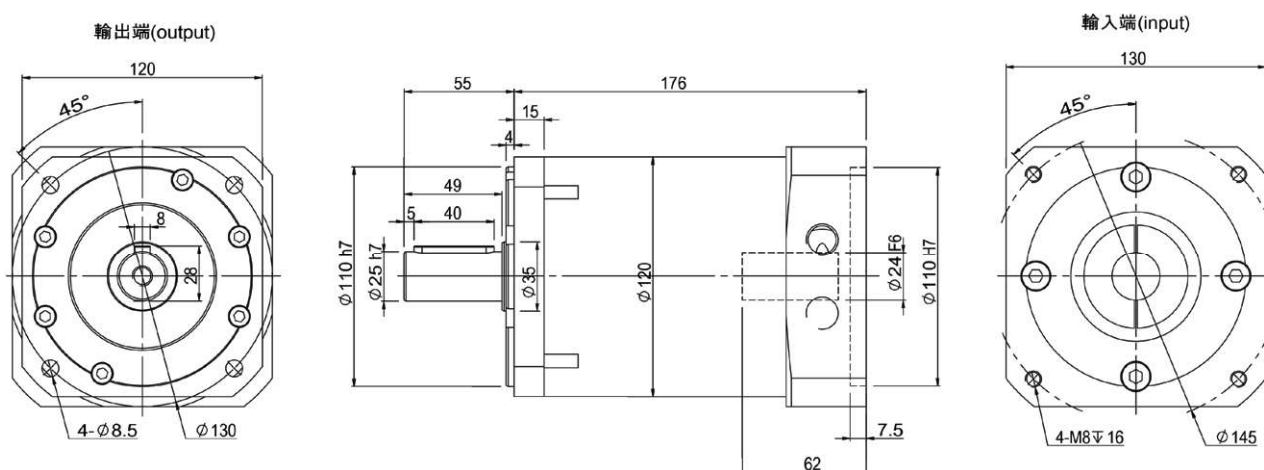
■ GPF090-L2



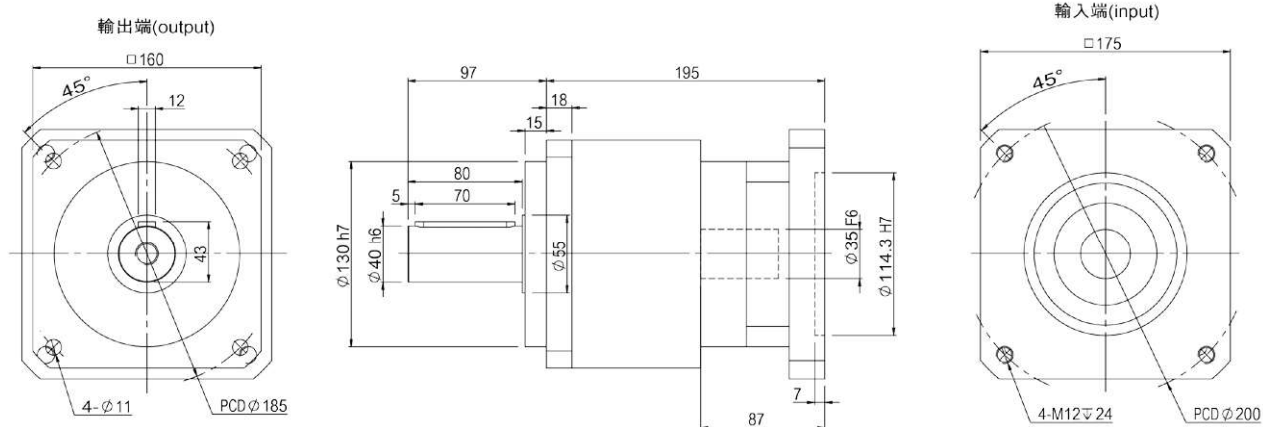
■ GPF120-L1



■ GPF120-L2



■ **GPF160-L1**



■ **GPF160-L2**

