

FT series

FT

Indication of Model Numbers

機種型號表示

FT		60	F	O	B	5	MOTOR	
減速機機型 Type	型號 Model	入力表示 Input			出力表示 Output	軸承形式 Bearing	速比 Ratio	馬達型號 Motor Type
FT	42 50 60 70	F: 入力法蘭 Input Flange R44: 減速機 Reducer 1-Stage: R44、R62... 2-Stage: R44S、R62S... 2-Stage (A-Type): R62A...			O: 中空軸 (60#~70#) Hollow Shaft P: 出力盤式 (60#~70#) Fixing Flange C: 迫緊環 (60#~70#) Set Collar S: 單出力軸心 Single Output Shaft V: 雙出力軸心 Double Output Shaft	B: 滾珠軸承 Ball Bearing	2 3 4 5 10 15 20 25 30 40 50	



Characteristic of FT Series

FT 系列產品特性

規格 Parameter	Code	Unit	單段 1-Stage					雙段 2-Stage			
			Ratio	42	50	60	70	Ratio	50	60	70
額定輸出扭矩 / Rated Output Torque (Nominal output torque)	T_{2N}	Nm	2	10	13	15	22	10	13	15	22
			3	9	11	13	18	15	11	13	18
			4	7	9	13	18	20	9	13	18
			5	6	8	12	16	25	8	12	16
			-	-	-	-	-	30	11	13	18
			-	-	-	-	-	40	9	13	18
			-	-	-	-	-	50	8	12	16
最大加速扭矩 / Max. Acceleration Torque	T_{2B}	Nm	2~5, 10~50	1.5 倍額定輸出扭矩 1.5 Times of Rated Output Torque							
額定輸入轉速 / Rated Input Speed	n_{1N}	rpm	2	2,000			10~50	3,000			
			3~5	3,000							
最大輸入轉速 / Max. Input Speed	n_{1B}	rpm	2~5	6,000			10~50	6,000			
背隙 / Backlash		arcmin	2~5	≤ 10			10~50	≤ 12			
容許徑向力 / Max. Radial Force 滾珠軸承 Ball Bearing	F_{2rB}	N	2~5	300	488	600	800	10~50	488	600	800
容許軸向力 / Max. Axial Force 滾珠軸承 Ball Bearing	F_{2aB}	N	2~5	150	244	300	400	10~50	244	300	400
使用壽命 / Service Life	L_H	hr	2~5, 10~50	S5 周期運轉 Cycle Operation: >20,000							
效率 / Efficiency	η	%	2~5	94% ~ 98%			10~50	90% ~ 94%			
使用溫度 / Operating Temperature		°C	2~5, 10~50	-10°C ~ +90°C							
潤滑 / Lubrication			2~5, 10~50	全合成潤滑油脂 Synthetic Grease							
噪音值 / Noise Level		dB	2~5	64	66	68	70	10~50	68	70	72

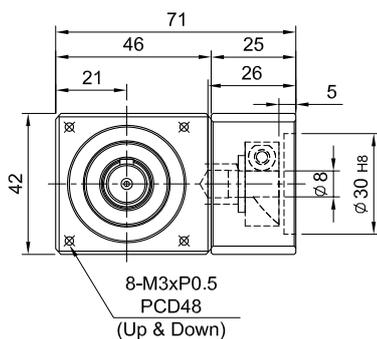
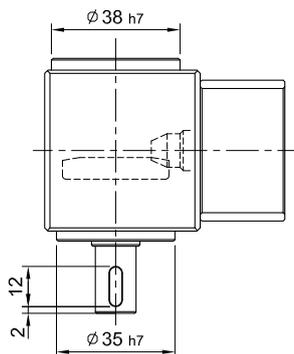
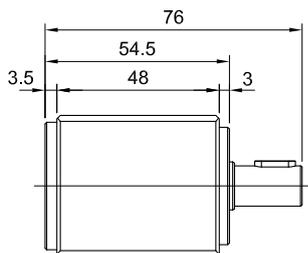
轉動慣量 Mass Moments of Inertia (kgcm²)

單段 1-Stage					雙段 2-Stage			
Ratio	42	50	60	70	Ratio	50	60	70
2	0.08	0.15	0.32	0.80	10	0.04	0.04	0.10
3	0.08	0.15	0.30	0.75	15	0.04	0.04	0.10
4	0.08	0.15	0.30	0.70	20	0.04	0.04	0.10
5	0.09	0.16	0.29	0.68	25	0.04	0.04	0.10
-	-	-	-	-	30	0.04	0.04	0.10
-	-	-	-	-	40	0.04	0.04	0.10
-	-	-	-	-	50	0.04	0.04	0.10

MODEL : FT42

RATIO : 2.3.4.5 (單段 1-Stage)

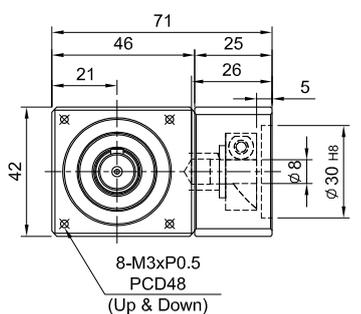
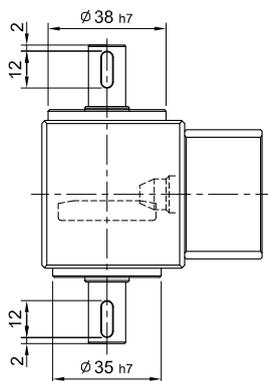
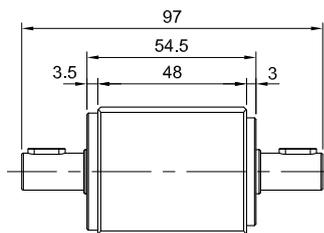
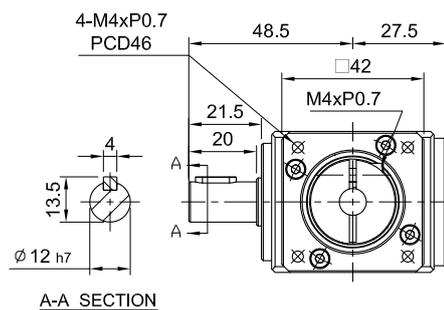
FT



FT-FS

入力法蘭 - 單出力軸心
Input Flange
- Single Output Shaft

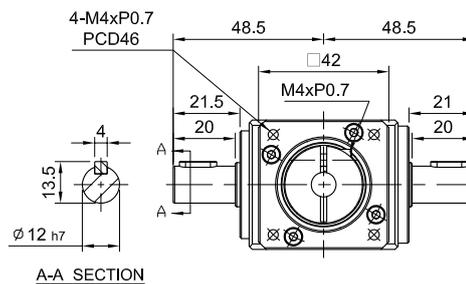
Model Code	42
Weight ±3% (kg)	0.5



FT-FV

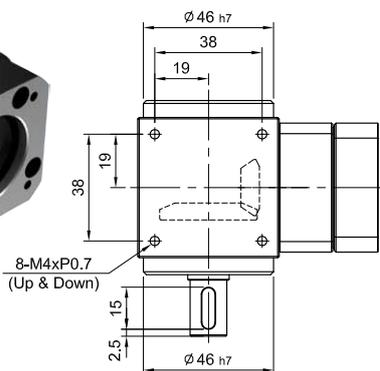
入力法蘭 - 雙出力軸心
Input Flange
- Double Output Shaft

Model Code	42
Weight ±3% (kg)	0.44



MODEL : FT50

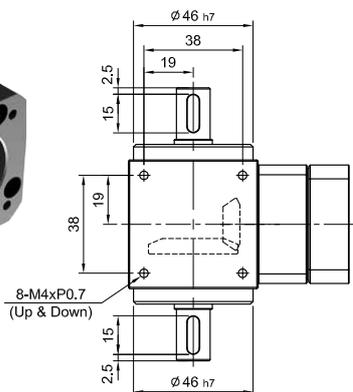
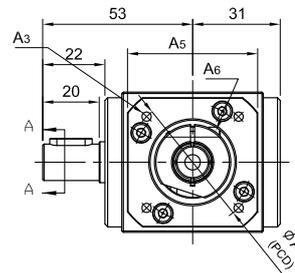
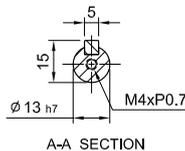
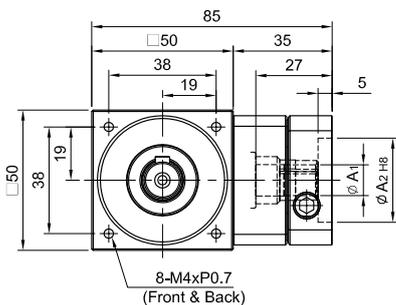
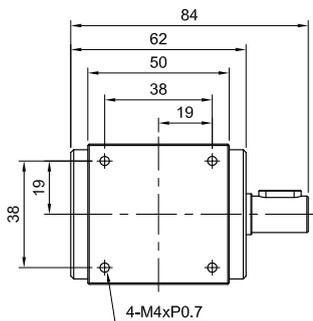
RATIO : 2.3.4.5 (單段 1-Stage)



FT-FS

入力法蘭 - 單出力軸心
Input Flange
- Single Output Shaft

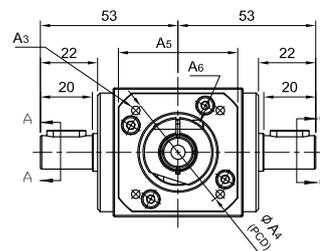
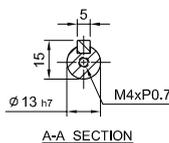
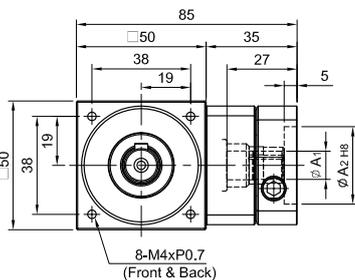
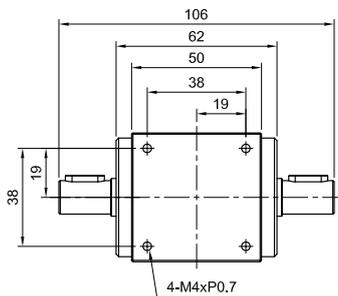
unit:mm	
Model Code	50
A1	11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
Weight	0.77
±3% (kg)	



FT-FV

入力法蘭 - 雙出力軸心
Input Flange
- Double Output Shaft

unit:mm	
Model Code	50
A1	11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
Weight	0.8
±3% (kg)	



MODEL : FT50

RATIO : 10.15.20.25.30.40.50 (雙段 2-Stage)

FT

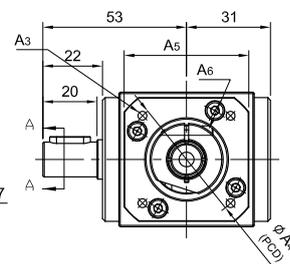
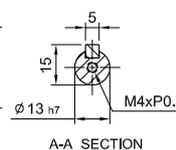
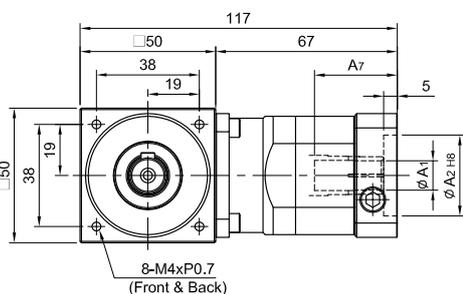
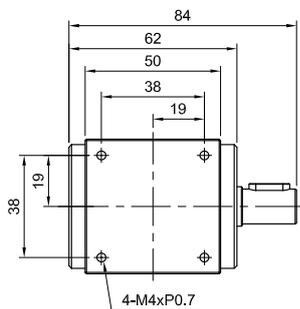
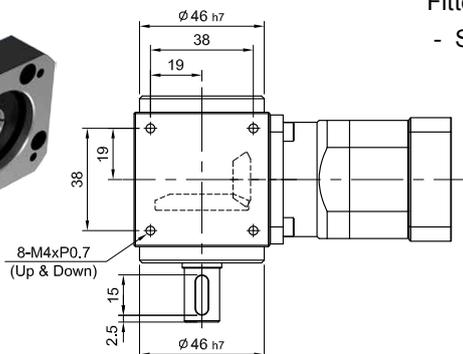


FT-RS

搭配行星減速機 - 單出力軸心
Fitted with Planetary Reducer
- Single Output Shaft

unit:mm

Model Code	50
A1	8 · 11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
A7	26 · 30.5
Weight ±3% (kg)	1.02

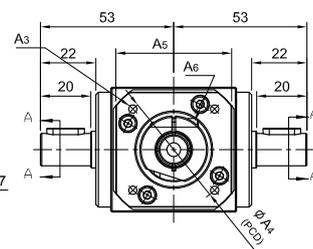
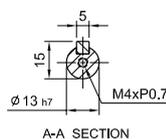
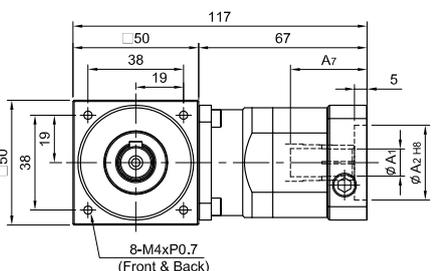
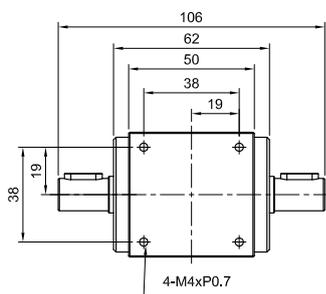
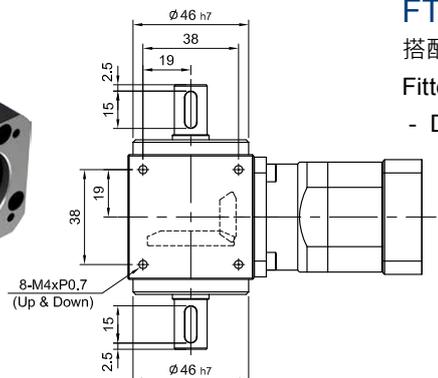


FT-RV

搭配行星減速機 - 雙出力軸心
Fitted with Planetary Reducer
- Double Output Shaft

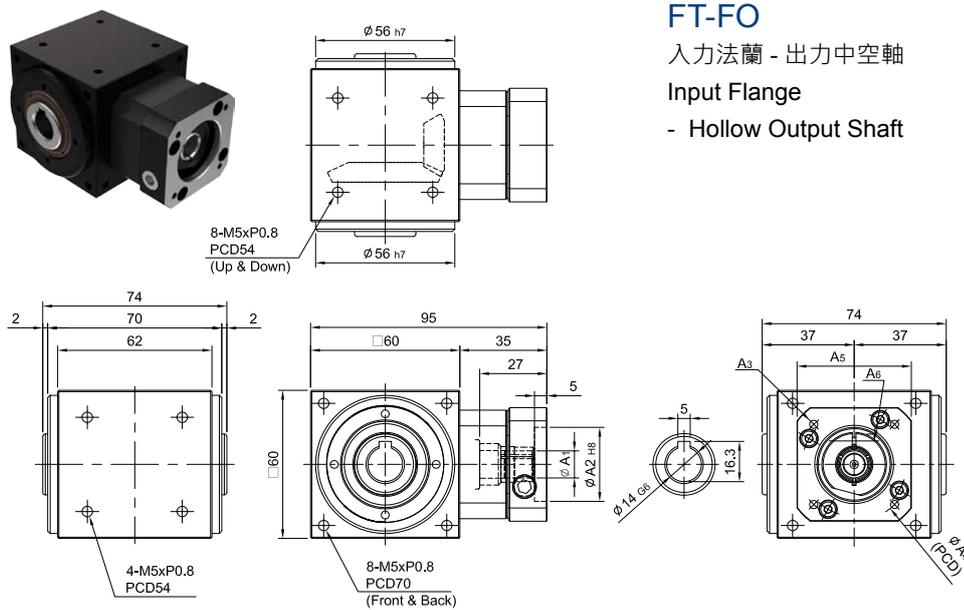
unit:mm

Model Code	50
A1	8 · 11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
A7	26 · 30.5
Weight ±3% (kg)	1.05



MODEL : FT60

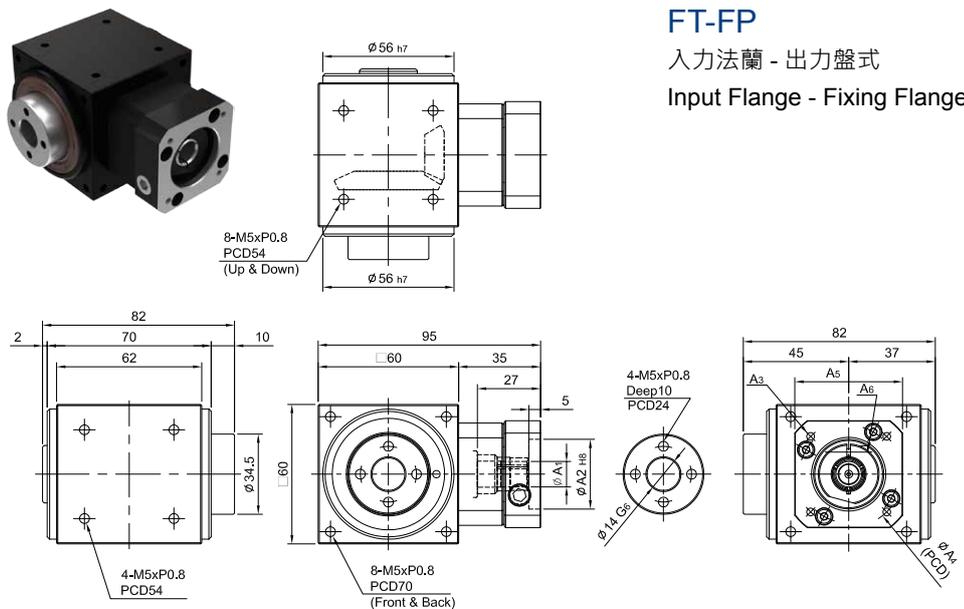
RATIO : 2.3.4.5 (單段 1-Stage)



FT-FO

入力法蘭 - 出力中空軸
Input Flange
- Hollow Output Shaft

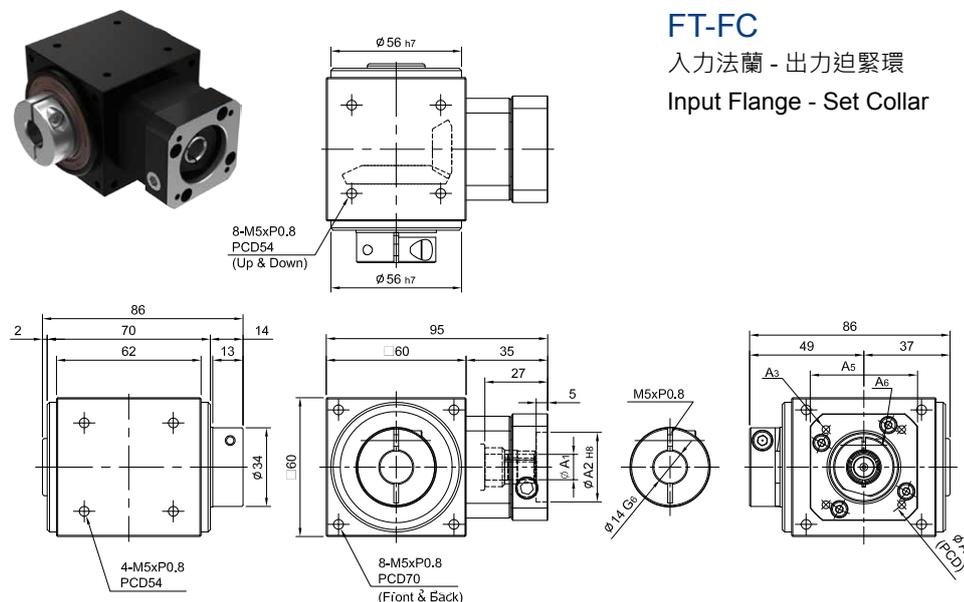
unit:mm	
Model Code	60
A1	11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
Weight	1.1
±3% (kg)	



FT-FP

入力法蘭 - 出力盤式
Input Flange - Fixing Flange

unit:mm	
Model Code	60
A1	11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
Weight	
±3% (kg)	



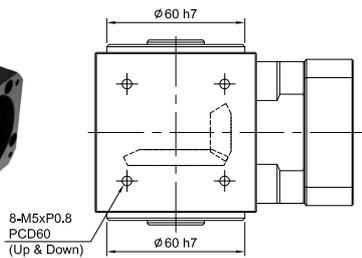
FT-FC

入力法蘭 - 出力迫緊環
Input Flange - Set Collar

unit:mm	
Model Code	60
A1	11
A2	30 · 40 · 50
A3	M3 · M4 · M5
A4	46 · 60 · 63
A5	46 · 55
A6	M4 x P0.7
Weight	
±3% (kg)	

MODEL : FT70

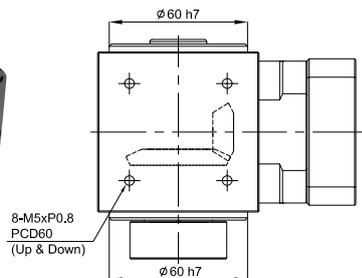
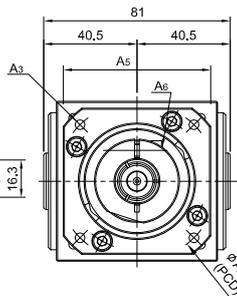
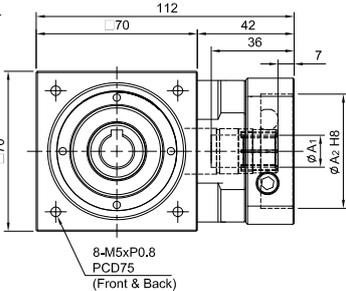
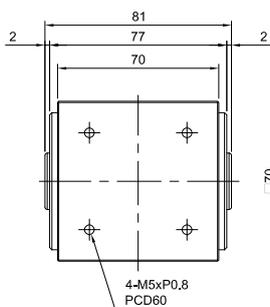
RATIO : 2.3.4.5 (單段 1-Stage)



FT-FO

入力法蘭 - 出力中空軸
Input Flange
- Hollow Output Shaft

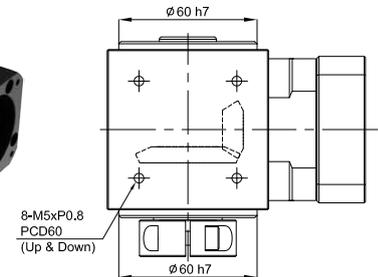
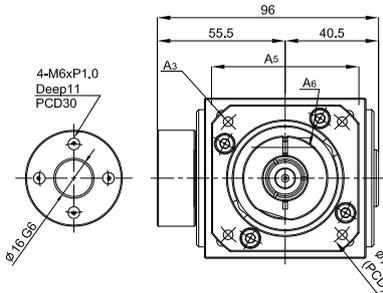
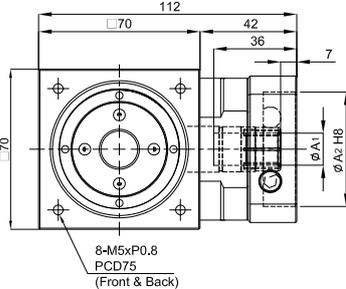
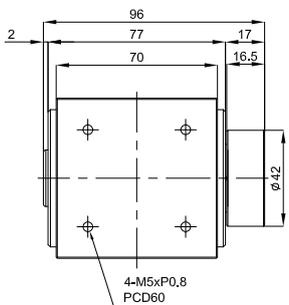
unit:mm	
Model Code	70
A1	14
A2	50 · 60 · 70
A3	M4 · M5 · M6
A4	70 · 75 · 90
A5	64 · 70 · 80
A6	M5 x P0.8
Weight	1.47
±3% (kg)	



FT-FP

入力法蘭 - 出力盤式
Input Flange - Fixing Flange

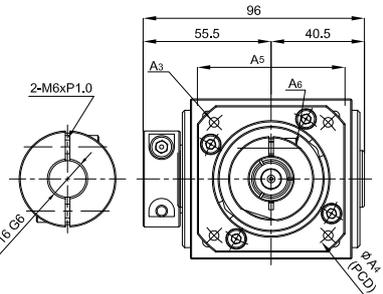
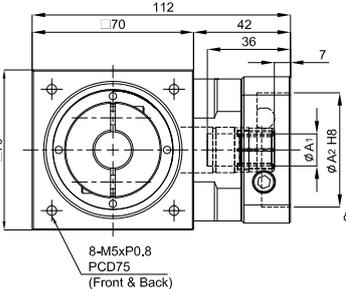
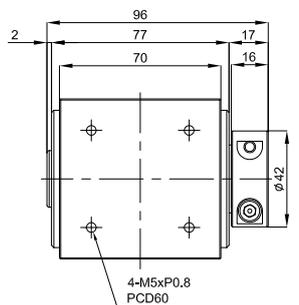
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Model Code	70
A1	14
A2	50 · 60 · 70
A3	M4 · M5 · M6
A4	70 · 75 · 90
A5	64 · 70 · 80
A6	M5 x P0.8
Weight	1.75
±3% (kg)	



FT-FC

入力法蘭 - 出力迫緊環
Input Flange - Set Collar

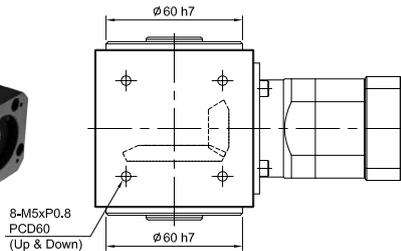
unit:mm	
Model Code	70
A1	14
A2	50 · 60 · 70
A3	M4 · M5 · M6
A4	70 · 75 · 90
A5	64 · 70 · 80
A6	M5 x P0.8
Weight	1.6
±3% (kg)	



MODEL : FT70

RATIO : 10.15.20.25.30.40.50 (雙段 2-Stage)

FT

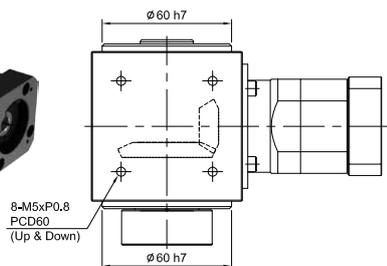
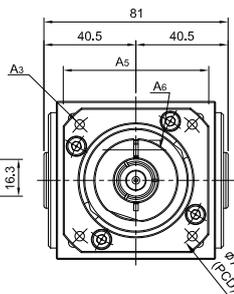
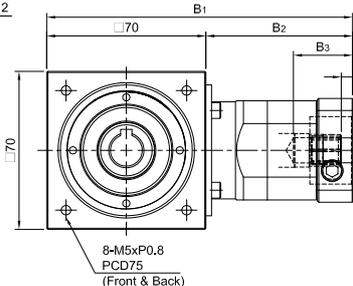
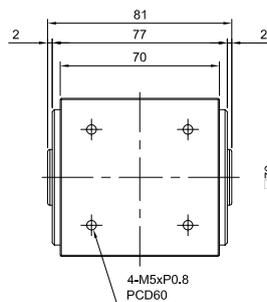


FT-RO

搭配行星減速機 - 出力中空軸
Fitted with Planetary Reducer
- Hollow Output Shaft

unit:mm

Model Code	70	
A1	8 · 11	14
A2	30 · 40 · 50	50 · 60 · 70
A3	M3 · M4 · M5	M4 · M5 · M6
A4	46 · 60 · 63	70 · 75 · 90
A5	46 · 55	64 · 70 · 80
A6	M4 x P0.7	M5 x P0.8
B1	135	146
B2	65	76
B3	26 · 30.5	33.5
B4	5	6
Weight $\pm 3\%$ (kg)	2.2	

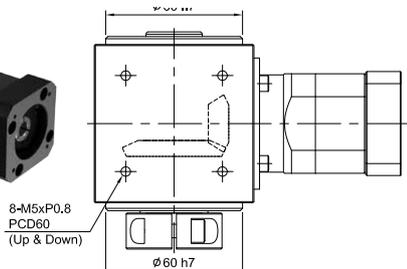
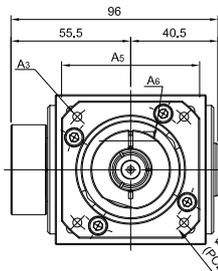
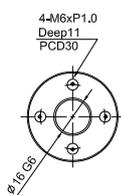
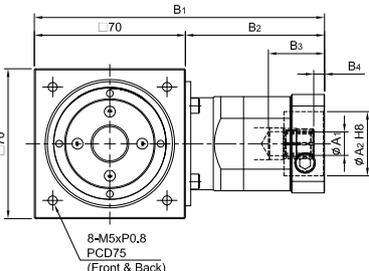
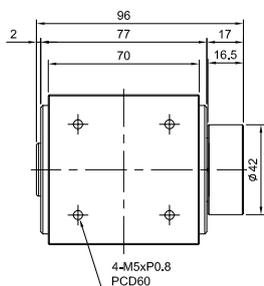


FT-RP

搭配行星減速機 - 出力盤式
Fitted with Planetary Reducer
- Fixing Flange

unit:mm

Model Code	70	
A1	8 · 11	14
A2	30 · 40 · 50	50 · 60 · 70
A3	M3 · M4 · M5	M4 · M5 · M6
A4	46 · 60 · 63	70 · 75 · 90
A5	46 · 55	64 · 70 · 80
A6	M4 x P0.7	M5 x P0.8
B1	135	146
B2	65	76
B3	26 · 30.5	33.5
B4	5	6
Weight $\pm 3\%$ (kg)	2.5	



FT-RC

搭配行星減速機 - 出力迫緊環
Fitted with Planetary Reducer
- Set Collar

unit:mm

Model Code	70	
A1	8 · 11	14
A2	30 · 40 · 50	50 · 60 · 70
A3	M3 · M4 · M5	M4 · M5 · M6
A4	46 · 60 · 63	70 · 75 · 90
A5	46 · 55	64 · 70 · 80
A6	M4 x P0.7	M5 x P0.8
B1	135	146
B2	65	76
B3	26 · 30.5	33.5
B4	5	6
Weight $\pm 3\%$ (kg)	2.35	

