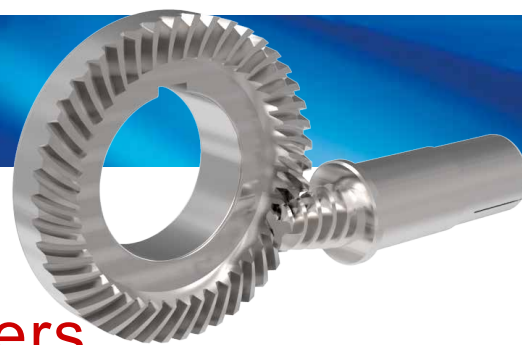


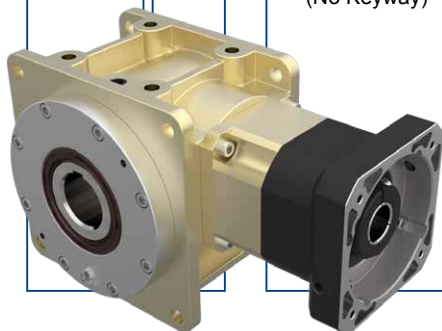
HY series



Indication of Model Numbers

機種型號表示

HY	55	F	O	B	5	L	P0
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	軸向 Shaft Direction	背隙等級 Backlash Class
HY	55	F: 入力法蘭	O: 出力中空軸	B: 滾珠軸承	單段 1-Stage	L: 左軸	P0
	75	Input Flange	Hollow Output Shaft	Ball Bearing	5, 10, 15	Left Shaft	P1
	90	R44: 減速機 Reducer	N: 單邊免鍵軸套	(55#~190#)	-----	R: 右軸	P2
	115	1-Stage:	Single Clamping			Right Shaft	
	130	R44、R62...	M: 雙邊免鍵軸套	T: 滾錐軸承	搭配單段	-----	
	140	2-Stage:	Double Clamping	Taper	行星減速機		
	160	R62S...	S: 單出力軸心 (有鍵槽)	Bearing	With 1-Stage	1. 出力形式 N、S 可以選擇軸向	
	190	2-Stage (A-Type):	Single Output Shaft (Keyway)	(90#~190#)	Planetary Reducer	Shaft direction is optional for output type N, S.	
		R44A、R62A...	S1: 單出力軸心 (無鍵槽)		25 ~ 150		
		D: 單入力軸心 (有鍵槽)	Single Input Shaft (Keyway)		搭配雙段	2. 出力形式 P 為 R 軸向	
		D1: 單入力軸心 (無鍵槽)	Single Input Shaft (No Keyway)		行星減速機	Output type P only for R shaft.	
			V: 雙出力軸心 (有鍵槽)		With 2-Stage		
			Double Output Shaft (Keyway)		Planetary Reducer		
			V1: 雙出力軸心 (無鍵槽)		250 ~ 1500		
			Double Output Shaft (No Keyway)				
			P: 螺桿式 (75#~190#)				
			Ball Screw				
			限用滾錐軸承				
			Taper Bearing Only				



The Model & Ratio Table of Hypoid Gear Reducer Assembly Planetary Reducer

蝕齒輪減速機搭配行星減速機型號及速比一覽表

型號 Model	減速比 Ratio	法蘭盤框號 Flange Model	減速機框號 Planetary Reducer Model	單段行星減速機減速比 Ratio of 1-Stage Planetary Reducer 5、10	雙段行星減速機減速比 Ratio of 2-Stage Planetary Reducer 25、50、100
55	5 10 15	44	44	搭配單段行星減速機減速比 Ratio of Bevel Gear Recucer with 1-Stage Planetary Reducer 25、50、75、100、150	搭配雙段行星減速機減速比 Ratio of Bevel Gear Recucer with 2-Stage Planetary Reducer 250、500、750、1000、1500
75		62	62		
90		90	80		
115		90	90		
130		120	120		
140		142	142		
160		142	142		
190		180	180		

Selection of Type

產品樣式選擇

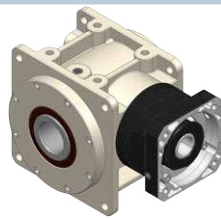
入力形式 Input Type

F 入力法蘭
Input Flange

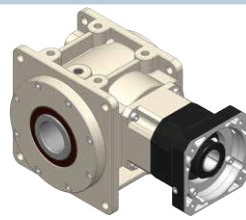
R 減速機
Reducer

D 單入力軸心
Single Input Shaft

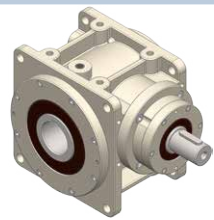
O
出力中空軸
Hollow
Output
Shaft



FO

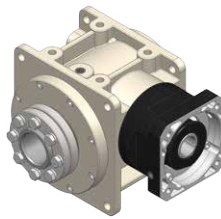


RO

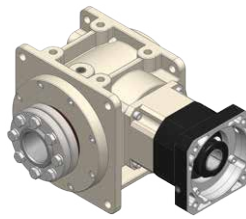


DO

N
單邊
免鍵軸套
Single
Clamping



FN

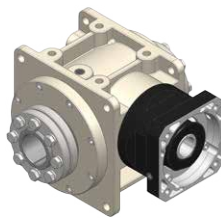


RN

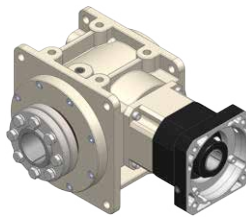


DN

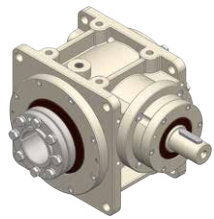
M
雙邊
免鍵軸套
Double
Clamping



FM

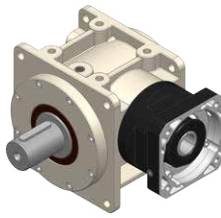


RM

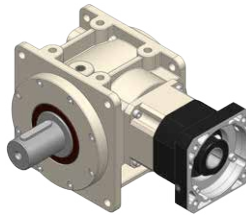


DM

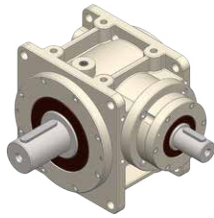
S
單出力軸心
Single
Output Shaft



FS

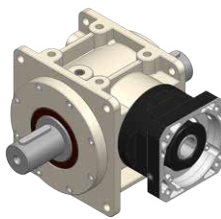


RS

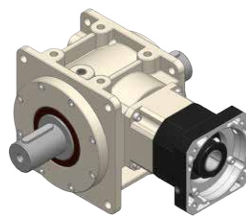


DS

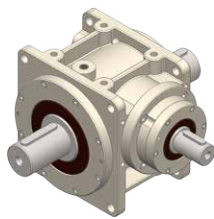
V
雙出力軸心
Double
Output Shaft



FV

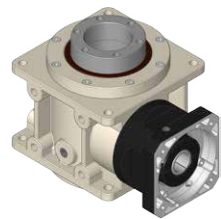


RV



DV

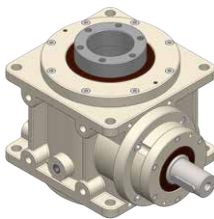
P
螺桿式
Ball Screw



FP



RP



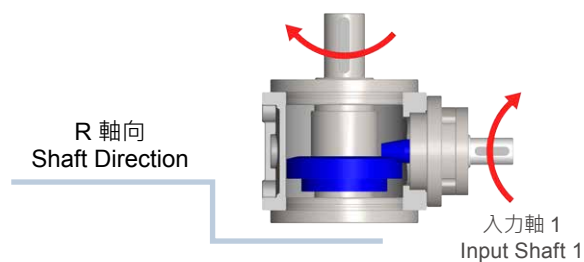
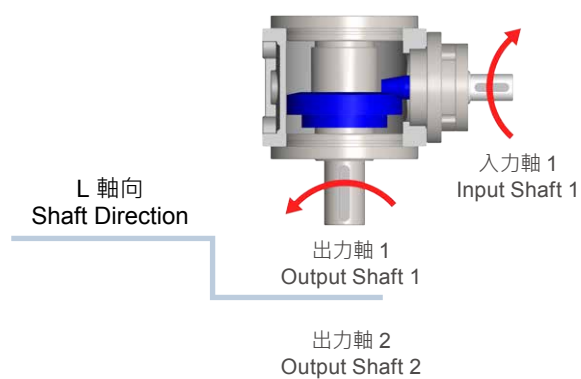
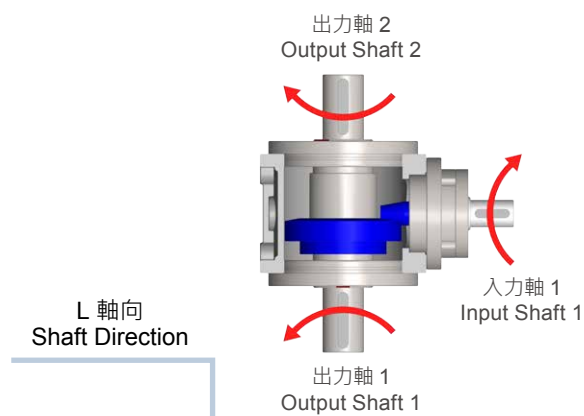
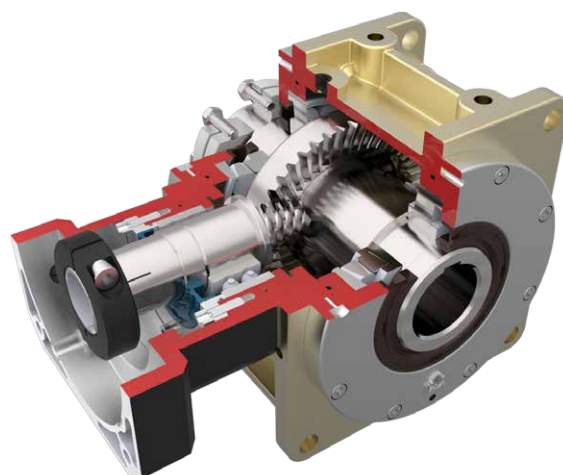
DP

出力形式
Output Type

1. 出力形式 N、S 可以選擇軸向。Shaft direction is optional for output type N, S.
2. 出力形式 P 為 R 軸向。Output type P only for R shaft.

Rotating Direction

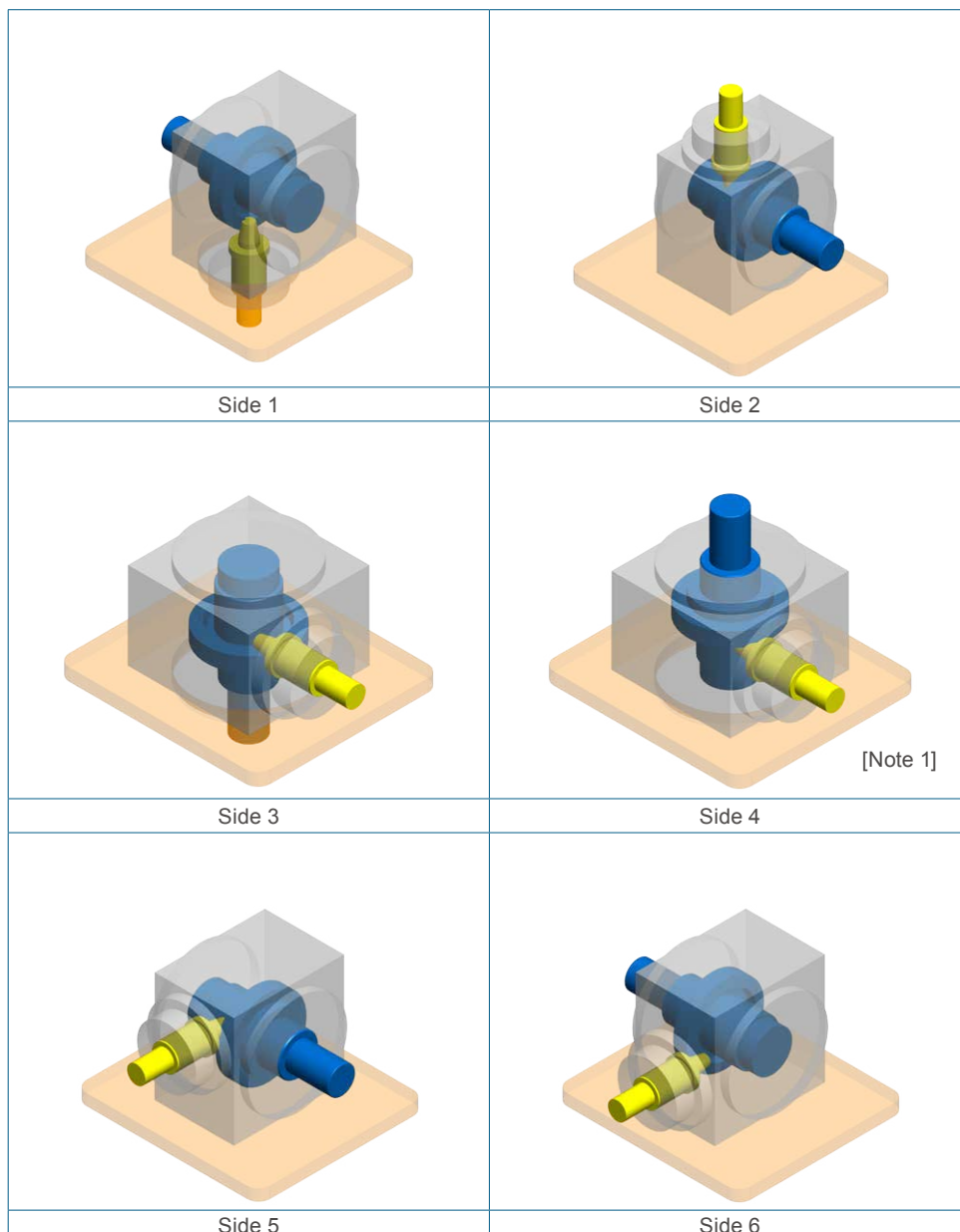
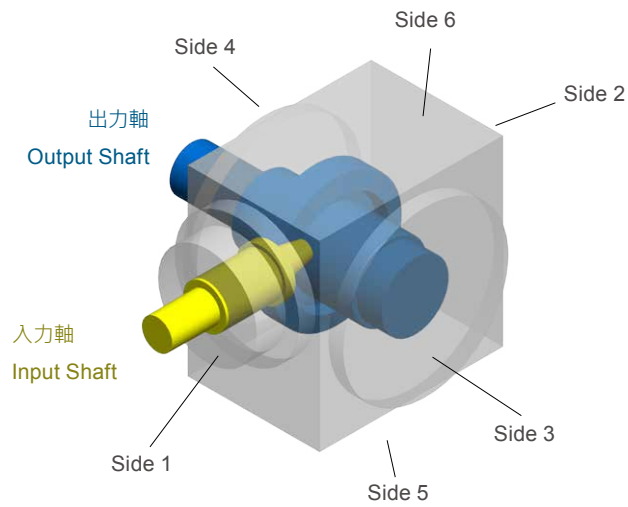
旋轉方向說明



本公司出廠標準品使用「標準軸向」・R 軸向請於訂單上註明。
Standard product is L shaft direction, R shaft direction is optional.

Selection Direction of Installation

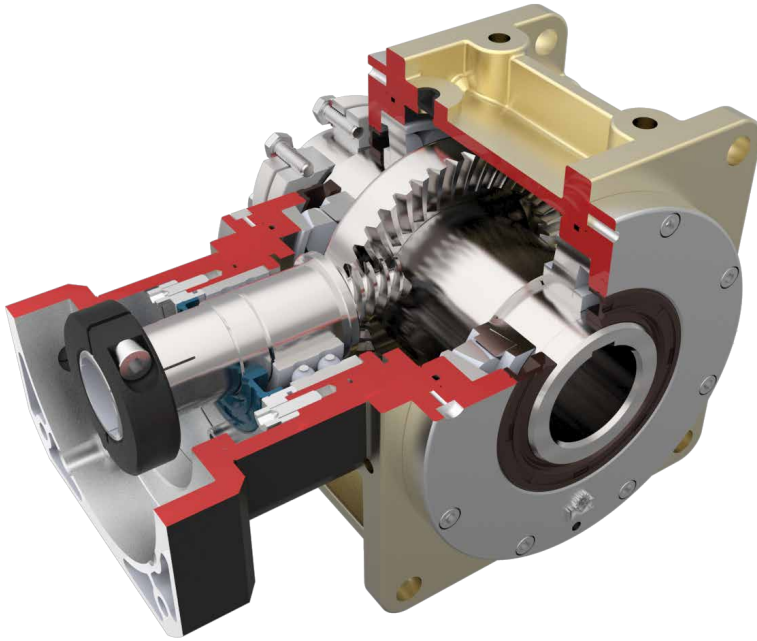
安裝方向選擇



[Note 1] 出力軸端端面基準線朝上時，需特別告知其使用方式。
Side 4 operation shall be avoid.

Features of HY Series

HY 系列產品特點



在設計 HYGear 時，已充分考慮到它將運用在及其廣泛的領域中。特別是在高動力伺服驅動應用中，將帶給用戶獨一無二的優勢。

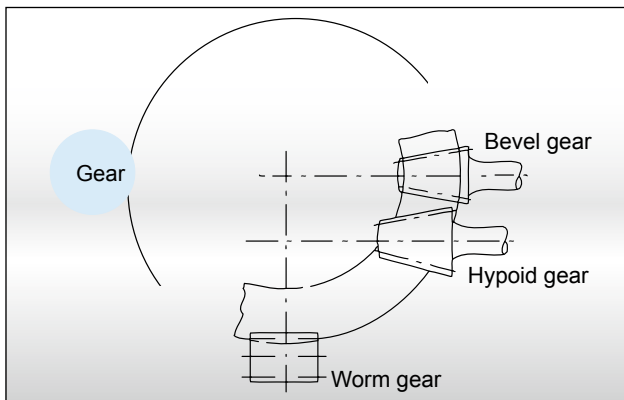


低背隙

- 格里森高減速比蝕齒輪，標準品單級可達 1/15。
- 可訂製減速比單級 1/20~1/60。

Super-Reduction-Hypoid Gear

- Gleason super-reduction-hypoid gear tooth system, the max. single stage ratio is 1/15.
- Single stage ratio 1/20~1/60 is optional.

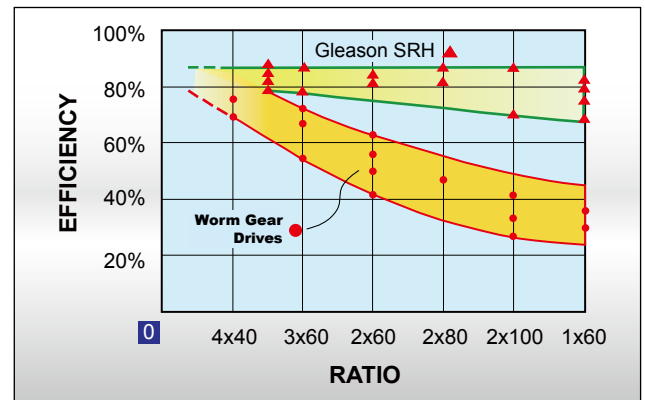


高扭矩密度

- 一體式齒箱本體確保最大剛性與耐蝕性。
- 結構緊湊，富有剛性的設計保證了在小體積，重量輕的情況下能夠達到最高扭矩及較大的減速比。

High Output Torque

- The gear box is one-piece constructed to ensure the high rigidity and corrosion-resistant capability.



高扭矩密度

- 減速機的效率高達 90% 大大節省能源成本。

High Output Torque

- High running efficiency, the efficiency more then 90%.

Features of HY Series

HY 系列產品特點

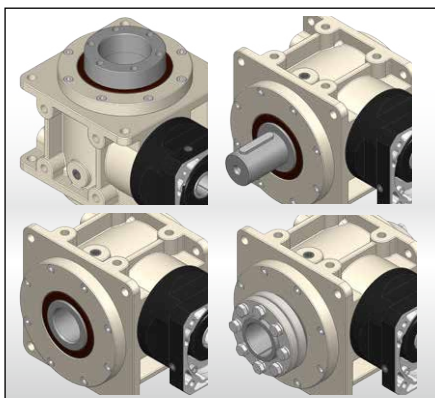


低背隙

- 使用 Gleason 參數齒輪加工設備，加工研磨等級的螺旋傘齒輪，確保低背隙、低噪音。
- 背隙最小可達 2 弧分以內。

Low Backlash

- Using Gleason high precision CNC grinding machine to grinding the spiral bevel gears.
- Torsional backlash depending on design up to <2 arcmin

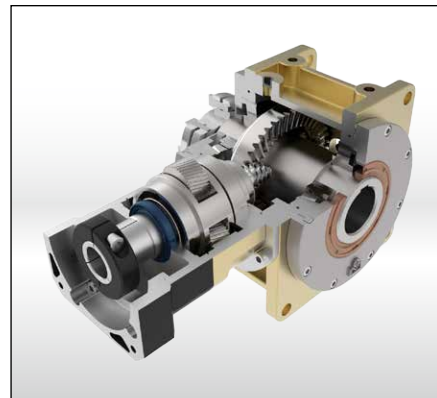


安裝位置

- 多重精密加工表面易於組裝，適用於任意安裝方向。
- 入出力軸的設計可以適用於各種工業上應用的需求。

Mounting Position

- Multiple precision machined surface is easy for assembly, suitable for any optional mounting orientation.
- Output shaft and input shaft are designed to suit for various industries applications.

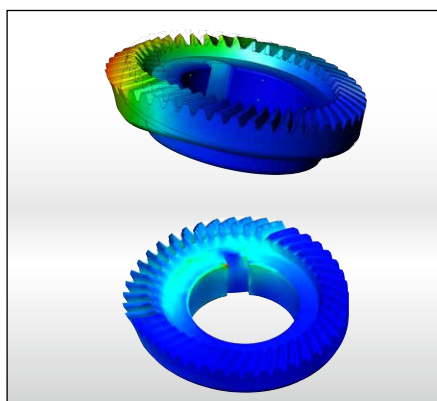


更高的減速比

- 高精密研磨的蝸線傘齒輪組結合最佳化設計的行星式齒輪組可以達到 1500:1 的減速比。

More High Gear Ratio

- High precision grinded and carburized spiral bevel gears with optimal designed planetary gear can do ratio 1500: 1.

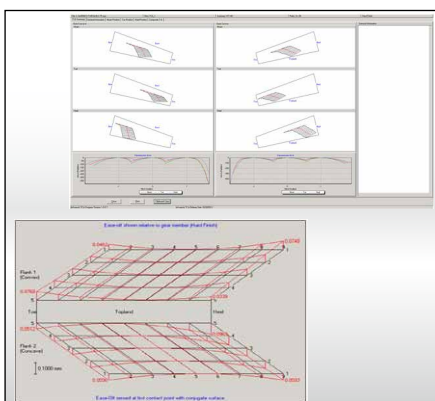


CAE 設計分析技術

- 利用 3D-CAE 軟體的設計分析技術，對減速機整體強度及螺旋傘齒輪進行分析，增加齒輪系及減速機的使用壽命。

CAE Design and Analysis

- Employs 3D-CAE software for analysis and design, the software allows for analyzing the strength of the entire gear reducer and helical teeth. Increasing the service life of gears and the gear reducer.

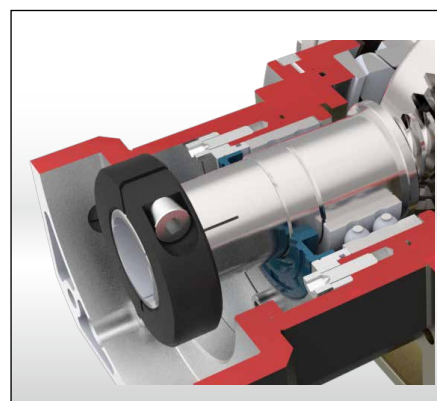


最優化的設計

- 採用 Gleason 參數齒輪設計軟件，得到最佳化接觸面積的齒印參數，保證了最高扭矩以及最小噪音。

Optimized Design

- Use Gleason's design software to design new spiral bevel gears. Through the ideal gear contact pattern for application, achieve high permissible output torque.



筒夾式連結機構

- 輸入端與馬達的連結採用筒夾式的鎖緊機構，並經動平衡分析，以確保在高輸入轉速下結合界面的同心度和平衡度，及零背隙的動力傳遞。

Collet Locking Mechanism

- The input-end and the motor are coupled through a collet locking mechanism. It has passed dynamical balance analysis to assure concentricity and balance on the connection and no backlash for power transmission while running at high speed.

Characteristic of HY Series

HY 系列產品特性

單段減速機 1-Stage

規格 Model No.	代號	單位 Unit	速比 Ratio	55	75	90	115	130	140	160	190
額定輸出扭矩 / Rated Output Torque (Nominal output torque)	T_{2N}	Nm	5	35	70	140	260	430	720	1,100	1,440
			10	30	60	117	220	365	615	957	1,230
			15	25	50	95	180	300	510	815	1,020
最大加速扭矩 / Max. Acceleration Torque	T_{2B}	Nm	5~15	1.5 倍額定輸出扭矩 1.5 Times of Rated Output Torque							
最大輸出扭矩 / Max. Output Torque 急停扭矩 / Emergency Stop Torque	T_{2NOT}	Nm	5~15	3 倍額定輸出扭矩 3 Times of Rated Output Torque							
額定輸入轉速 / Rated Input Speed	n_{1N}	rpm	5~15	3,000	3,000	3,000	3,000	2,500	2,500	2,000	2,000
最大輸入轉速 / Max. Input Speed	n_{1B}	rpm	5~15	6,000	6,000	6,000	6,000	5,000	5,000	4,000	4,000
背隙 / Backlash	J_t	arcmin	P0	-	-	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
			P1	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
			P2	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
容許徑向力 / Max. Radial Force 滾珠軸承 Ball Bearing	F_{2rB}	N	5~15	1,495	2,366	2,691	4,797	5,837	7,020	9,490	12,337
容許軸向力 / Max. Axial Force 滾珠軸承 Ball Bearing	F_{2aB}	N	5~15	748	1,183	1,346	2,399	2,919	3,510	4,745	6,169
容許徑向力 / Max. Radial Force 滾錐軸承 Taper Bearing	F_{2rB}	N	5~15	-	- 5,000(P)	5,523 6,545(P)	9,100	12,320	14,420	18,620	24,080
容許軸向力 / Max. Axial Force 滾錐軸承 Taper Bearing	F_{2aB}	N	5~15	-	- 2,500(P)	2,762 3,273(P)	4,550	6,160	7,210	9,310	12,040
使用壽命 / Service Life	L_{H1}	hr	5~15	S5 周期運轉 : >30,000 (S1 連續運轉 : >15,000 hrs) S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)							
效 率 / Efficiency	η	%	5	$\geq 96\%$							
			10~15	$\geq 93\%$							
使用溫度 / Operating Temperature		°C	5~15	-10°C ~ +90°C							
潤 滑 / Lubrication			5~15	全合成潤滑油 Synthetic Oil							
噪 音 值 / Noise Level		dB	5~15	≤ 67	≤ 67	≤ 69	≤ 69	≤ 71	≤ 71	≤ 72	≤ 72

註 : (P) 螺桿式 NOTE: (P) Ball Screw

轉動慣量 Mass Moments of Inertia (kgcm²)

速比 Ratio	55	75	90	115	130	140	160	190
5	0.23	0.58	1.41	4.00	7.12	13.53	24.76	44.29
10	0.15	0.38	1.00	2.46	4.27	7.38	12.47	21.43
15	0.13	0.34	0.81	2.07	3.45	5.76	9.23	15.53

Characteristic of HY Series

HY 系列產品特性

雙段減速機 2-Stage

規格 Model No.	代號	單位 Unit	速比 Ratio	55	75	90	115	130	140	160	190
額定輸出扭矩 / Rated Output Torque (Nominal output torque)	T_{2N}	Nm	25, 50	35	70	140	260	430	720	1,100	1,440
			100	30	60	117	220	365	615	957	1,230
			75, 150	25	50	95	180	300	510	815	1,020
最大加速扭矩 / Max. Acceleration Torque	T_{2B}	Nm	25~150	1.5 倍額定輸出扭矩 1.5 Times of Rated Output Torque							
最大輸出扭矩 / Max. Output Torque 急停扭矩 / Emergency Stop Torque	T_{2NOT}	Nm	25~150	3 倍額定輸出扭矩 3 Times of Rated Output Torque							
額定輸入轉速 / Rated Input Speed	n_{1N}	rpm	25~150	3,000	3,000	3,000	3,000	3,000	3,000	2,000	3,000
最大輸入轉速 / Max. Input Speed	n_{1B}	rpm	25~150	6,000	6,000	6,000	6,000	5,000	5,000	4,000	4,000
背隙 / Backlash	J_t	arcmin	P0	-	-	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
			P1	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
			P2	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
容許徑向力 / Max. Radial Force 滾珠軸承 Ball Bearing	F_{2rB}	N	25~150	1,495	2,366	2,691	4,797	5,837	7,020	9,490	12,337
容許軸向力 / Max. Axial Force 滾珠軸承 Ball Bearing	F_{2aB}	N	25~150	748	1,183	1,346	2,399	2,919	3,510	4,745	61,69
容許徑向力 / Max. Radial Force 滾錐軸承 Taper Bearing	F_{2rB}	N	25~150	-	- 5,000(P)	5,523 6,545(P)	9,100	12,320	14,420	18,620	24,080
容許軸向力 / Max. Axial Force 滾錐軸承 Taper Bearing	F_{2aB}	N	25~150	-	- 2,500(P)	2,762 3,273(P)	4,550	6,160	7,210	9,310	12,040
使用壽命 / Service Life	L_H	hr	25~150	S5 周期運轉 : >30,000 (S1 連續運轉 : >15,000 hrs) S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)							
效 率 / Efficiency	η	%	25, 50	$\geq 92\%$							
			75, 100, 150	$\geq 90\%$							
使用溫度 / Operating Temperature		°C	25~150	-10°C ~ +90°C							
潤 滑 / Lubrication			25~150	全合成潤滑油 Synthetic Oil							
噪 音 值 / Noise Level		dB	25~150	≤ 67	≤ 67	≤ 69	≤ 69	≤ 71	≤ 71	≤ 72	≤ 72

註 : (P) 螺桿式 NOTE: (P) Ball Screw

轉動慣量 Mass Moments of Inertia (kgcm²)

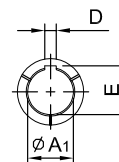
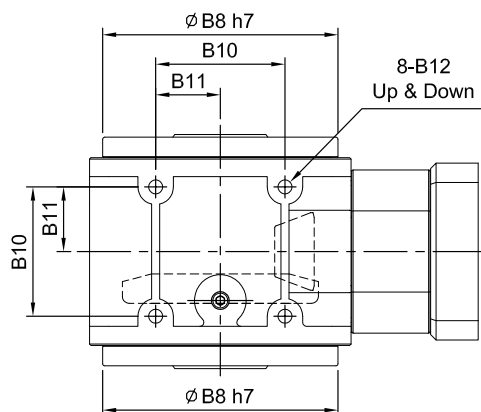
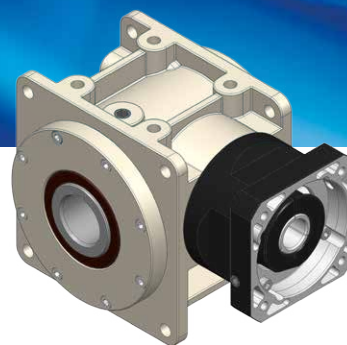
速比 Ratio	55	75	90	115	130	140	160	190
25	0.39	1.15	1.18	4.9	4.99	7.99	8.27	8.75
50	0.36	1.05	1.06	4.07	4.09	6.31	6.36	6.45
75	0.35	0.94	0.96	3.17	3.24	4.04	4.23	4.56
100	0.34	0.93	0.94	3.12	3.14	3.87	3.92	4.01
150	0.33	0.92	0.93	3.08	3.06	3.73	3.68	3.59

HY-FO series

RATIO : 5.10.15 (單段 1-Stage)

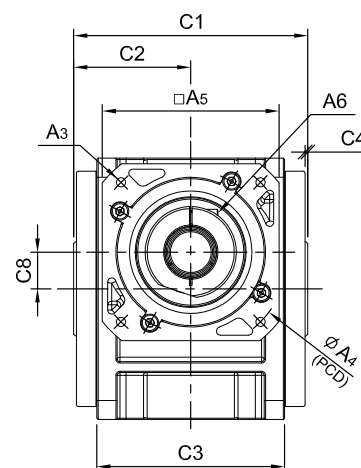
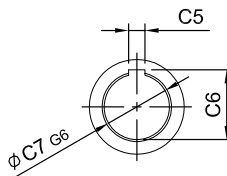
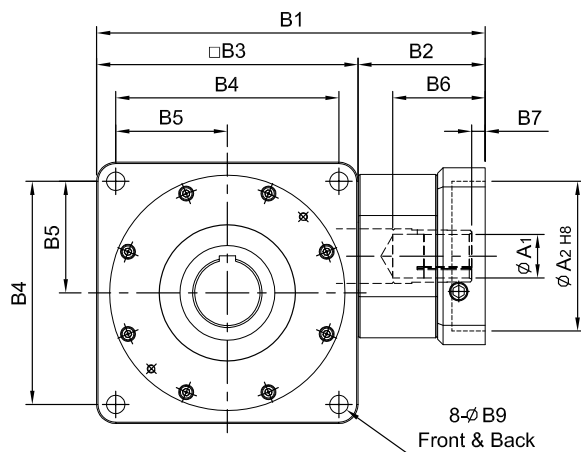
入力法蘭 - 出力中空軸

Input Flange - Hollow Output Shaft



(入力孔φ35(含)以上)

φA1	D	E
φ35	10	38.3
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8



unit: mm

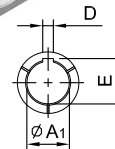
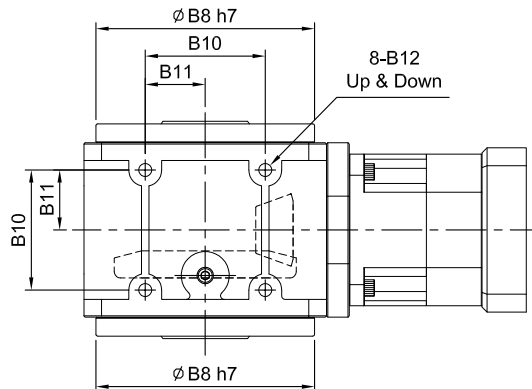
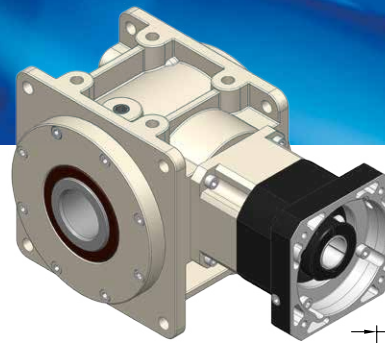
	Model Code	55	75	90	115	130	140	160	190
	A1	8・11	14	14・19	19・24	28・32	35	35・38	42・48
A	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P.0.8	M5 x P.0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B1	135	172	202	241	286	333	358	417・419
B	B2	45	57	62	71	94	118	118	153・155
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	28	38	49	58	69.5	81.5	81.5	114.5・116.5
	B7	5	6	9	8	10	10	10	11.5・13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
	C	C1	88	108	132	156	172	187	212
C2		44	54	66	78	86	93.5	106	121
C3		60	80	100	120	138	146	166	196
C4		2	2	2	2	2	2	2	2
C5		6	8	10	12	14	16	18	20
C6		22.8	28.3	33.3	43.3	51.3	58.8	63.8	74.3
C7		20	25	30	40	48	55	60	70
C8		9	14	18	23	27	32	38	42
Weight	重量	3.0	4.6	8.3	12.3	18.2	26.6	37.6	59.5

HY-RO series

RATIO : 25.50.75.100.150 (雙段 2-Stage)

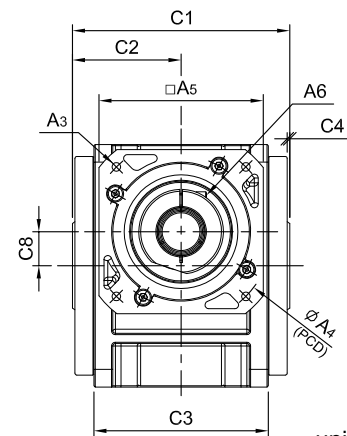
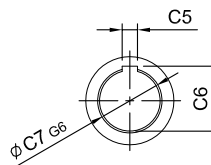
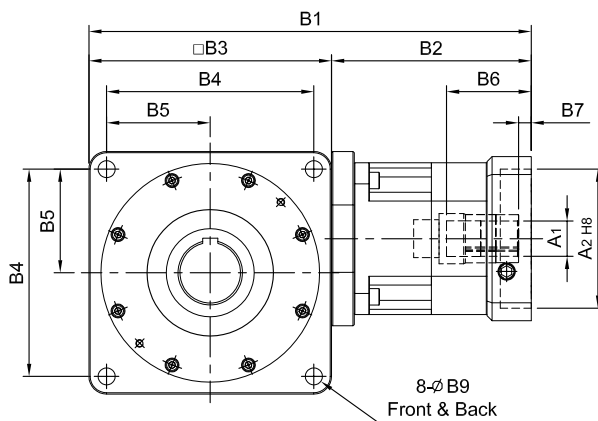
搭配行星減速機 - 出力中空軸

Fitted with Planetary Reducer - Hollow Output Shaft



(入力軸$\phi 38$(含)以上)

$\phi A1$	D	E
$\phi 38$	10	41.3
$\phi 42$	12	45.3
$\phi 48$	14	51.8
$\phi 55$	16	59.3



unit: mm

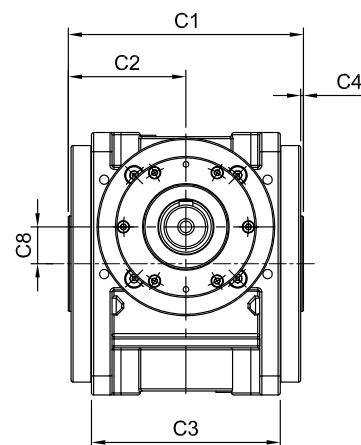
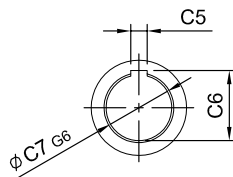
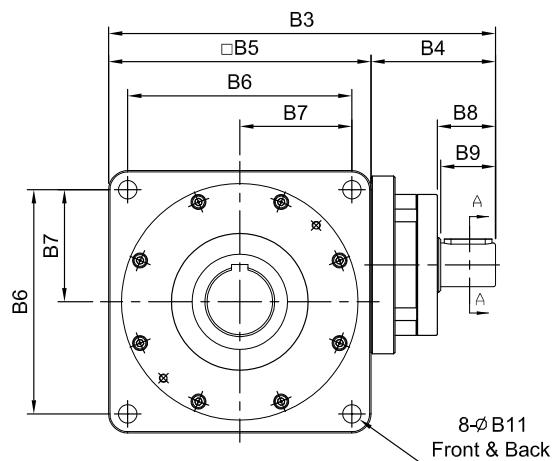
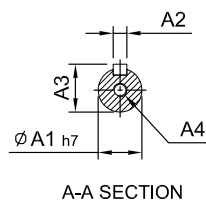
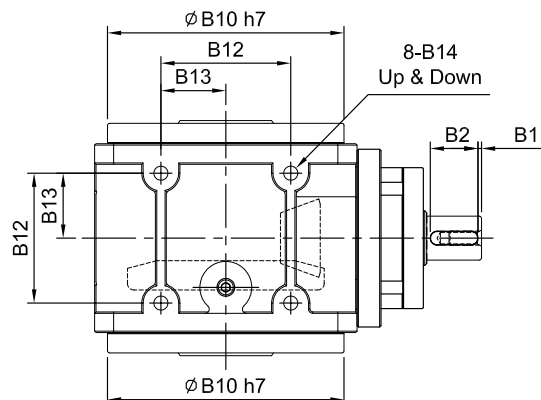
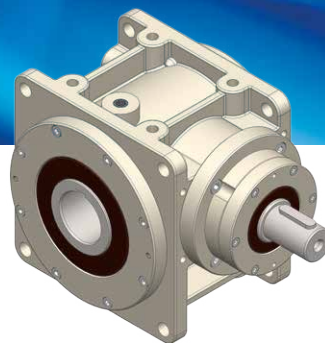
	Model Code	55	75	90	115	130	140	160	190
	A1	8・11	14	(14)・19	19・24	28・32	32・35	32・35	38・42・48・55
A	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B	B1	157	201	(224.5)・237	287	340	405	430
B2		67	86	(84.5)・97	117	148	190	190	244・246
B3		90	115	140	170	192	215	240	264
B4		78	98	118	144	164	182	206	224
B5		39	49	59	72	82	91	103	112
B6		26	32	(33.5)・45.5	59	67	84.5	84.5	114.5・116.5
B7		5	6	(6)・10	9	10	10	10	11.5・13.5
B8		84	103	128	148	173	200	227	254
B9		6.8	9	11	11	13.5	15	17.5	17.5
B10		44	54	66	80	95	104	120	140
B11		22	27	33	40	47.5	52	60	70
B12		M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	88	108	132	156	172	187	212	242
	C2	44	54	66	78	86	93.5	106	121
	C3	60	80	100	120	138	146	166	196
	C4	2	2	2	2	2	2	2	2
	C5	6	8	10	12	14	16	18	20
	C6	22.8	28.3	33.3	43.3	51.3	58.8	63.8	74.3
	C7	20	25	30	40	48	55	60	70
	C8	9	14	18	23	27	32	38	42
Weight	重量	3.5	5.8	10.0	16.0	26.8	41.2	52.1	86.1

HY-DO series

RATIO : 5.10.15 (單段 1-Stage)

單入力軸心 - 出力中空軸

Single Input Shaft - Hollow Output Shaft



unit: mm

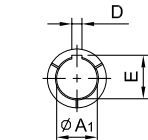
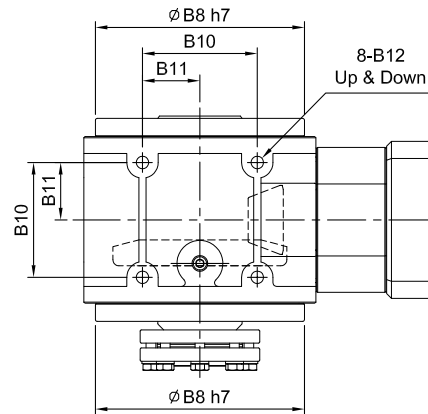
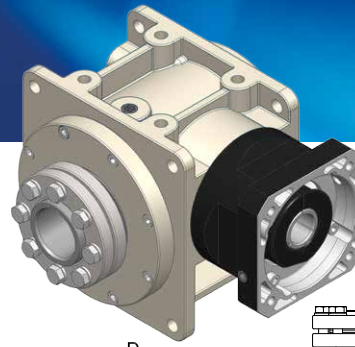
Model Code	55	75	90	115	130	140	160	190
A1	14	19	24	28	32	32	38	40
A2	5	6	8	8	10	10	12	12
A3	16	21.5	27	31	35	35	41	43
A4	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
B1	2.5	2.5	2.5	2.5	5	5	5	5
B2	20	25	35	35	40	40	50	50
B3	147	181	218	260	293	315	367	403
B4	57	66	78	90	101	100	127	139
B5	90	115	140	170	192	215	240	264
B6	78	98	118	144	164	182	206	224
B7	39	49	59	72	82	91	103	112
B8	27	32	42.5	42.5	52.5	51.5	63	63.5
B9	25	30	40	40	50	50	60	60
B10	84	103	128	148	173	200	227	254
B11	6.8	9	11	11	13.5	15	17.5	17.5
B12	44	54	66	80	95	104	120	140
B13	22	27	33	40	47.5	52	60	70
B14	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C1	88	108	132	156	172	187	212	242
C2	44	54	66	78	86	93.5	106	121
C3	60	80	100	120	138	146	166	196
C4	2	2	2	2	2	2	2	2
C5	6	8	10	12	14	16	18	20
C6	22.8	28.3	33.3	43.3	51.3	58.8	63.8	74.3
C7	20	25	30	40	48	55	60	70
C8	9	14	18	23	27	32	38	42
Weight	2.9	4.6	8.1	11.0	18.7	25.9	36.8	56.1

HY-FN series

RATIO : 5.10.15 (單段 1-Stage)

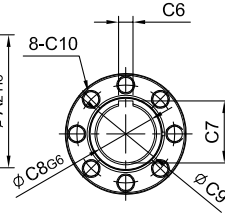
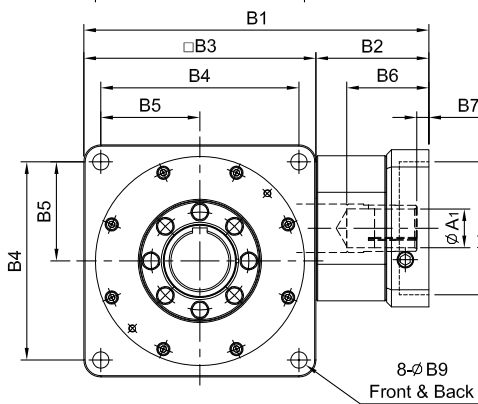
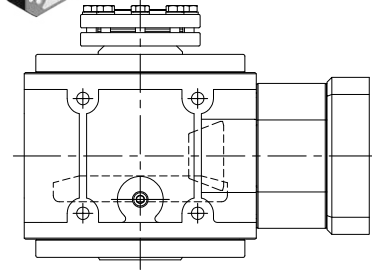
入力法蘭 - 單邊免鍵軸套

Input Flange - Single Clamping

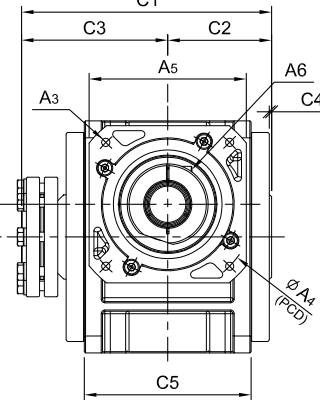


(入力孔φ35(含)以上)

φA1	D	E
φ35	10	38.3
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8



R 軸
Shaft Direction
C1



unit: mm

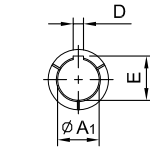
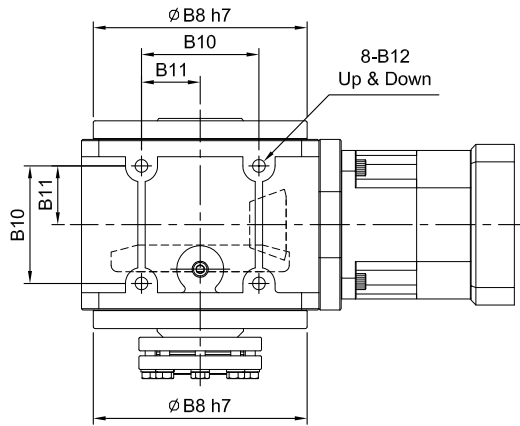
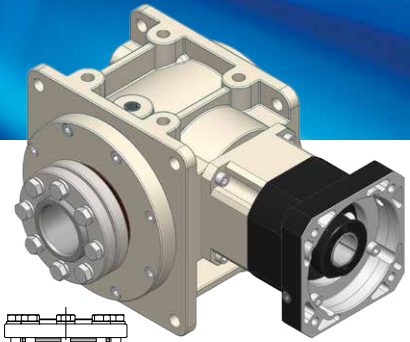
	Model Code	55	75	90	115	130	140	160	190
	A1	8 · 11	14	14 · 19	19 · 24	28 · 32	35	35 · 38	42 · 48
A	A2	30 · 40 · 50	50 · 60 · 70	50 · 70 · 80 · 95	70 · 80 · 95 · 110	95 · 110 · 130	110 · 130 · 180	110 · 130 · 180	114.3 · 180 · 230 · 250
	A3	M3 · M4 · M5	M4 · M5 · M6	M5 · M6	M5 · M6 · M8	M6 · M8 · M10	M8 · M10 · M12	M8 · M10 · M12	M12 · M16
	A4	46 · 60 · 63	70 · 75 · 90	70 · 90 · 100 · 115	90 · 100 · 115 · 145	115 · 145 · 165	145 · 165 · 200	145 · 165 · 200	200 · 215 · 265 · 300
	A5	46 · 55	64 · 70 · 80	80 · 92 · 110	92 · 110 · 130	122 · 130 · 150	146 · 150 · 190	146 · 150 · 190	182 · 200 · 250 · 265
	A6	M3 x P.05	M5 x P.0.8	M5 x P.0.8	M6 x P.1.0	M8 x P.1.25	M10 x P.1.5	M10 x P.1.5	M10 x P.1.5
	A7	M12 x P.1.5	M16 x P.2.0	M16 x P.2.0	M16 x P.2.0	M16 x P.2.0	M16 x P.2.0	M16 x P.2.0	M16 x P.2.0
B	B1	135	172	202	241	286	333	358	417 · 419
	B2	45	57	62	71	94	118	118	153 · 155
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	28	38	49	58	69.5	81.5	81.5	114.5 · 116.5
	B7	5	6	9	8	10	10	10	11.5 · 13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	109	134	160	189	207	224	249	281
	C2	44	54	66	78	86	93.5	106	121
	C3	65	80	94	111	121	130.5	143	160
	C4	2	2	2	2	2	2	2	2
	C5	60	80	100	120	138	146	166	196
	C6	6	8	10	12	14	16	18	20
	C7	22.8	28.3	33.3	43.3	51.3	58.8	63.8	74.3
	C8	20	25	30	40	48	55	60	70
	C9	28	34	44	52	60	65	73	83
	C10	M6	M6	M6	M8	M8	M8	M8	M10
	C11	9	14	18	23	27	32	38	42
Weight	重量	3.2	5.0	8.7	13.0	19.3	27.4	39.4	61.7

HY-RN series

RATIO : 25.50.75.100.150 (雙段 2-Stage)

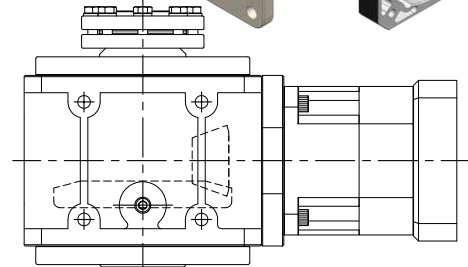
搭配行星減速機 - 單邊免鍵軸套

Fitted with Planetary Reducer - Single Clamping

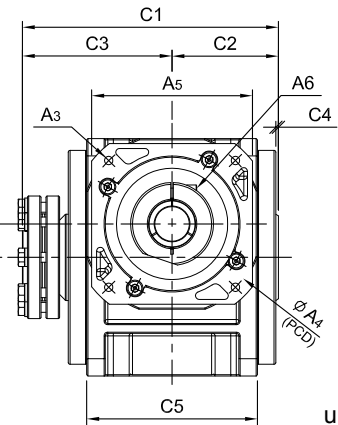
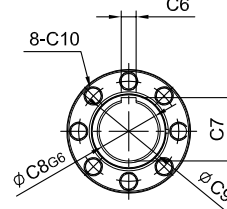
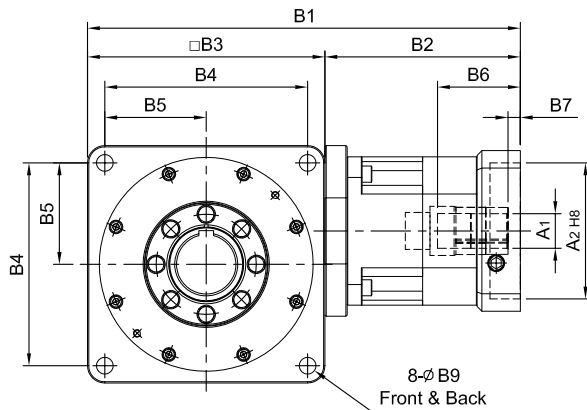


(入力用φ38(含)以上)

φA1	D	E
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8
φ55	16	59.3



R 軸
Shaft Direction



unit: mm

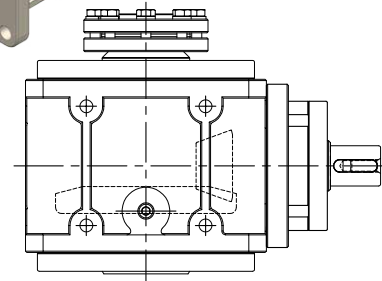
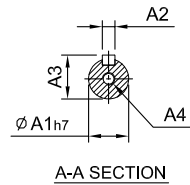
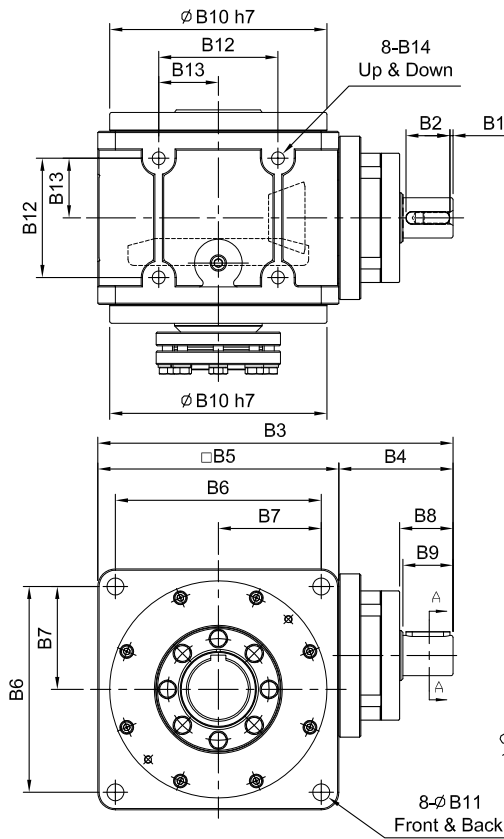
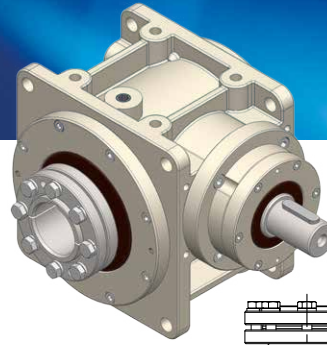
	Model Code	55	75	90	115	130	140	160	190
	A1	8・11	14	(14)・19	19・24	28・32	32・35	32・35	38・42・48・55
A	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B1	157	201	(224.5)・237	287	340	405	430	508・510
B	B2	67	86	(84.5)・97	117	148	190	190	244・246
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	26	32	(33.5)・45.5	59	67	84.5	84.5	114.5・116.5
	B7	5	6	(6)・10	9	10	10	10	11.5・13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
	C	C1	109	134	160	189	207	224	249
C2		44	54	66	78	86	93.5	106	121
C3		65	80	94	111	121	130.5	143	160
C4		2	2	2	2	2	2	2	2
C5		60	80	100	120	138	146	166	196
C6		6	8	10	12	14	16	18	20
C7		22.8	28.3	33.3	43.3	51.3	58.8	63.8	74.3
C8		20	25	30	40	48	55	60	70
C9		28	34	44	52	60	65	73	83
C10		M6	M6	M6	M8	M8	M8	M8	M10
C11		9	14	18	23	27	32	38	42
Weight	重量	3.8	6.2	10.5	16.7	28.0	41.9	53.9	88.4

HY-DN series

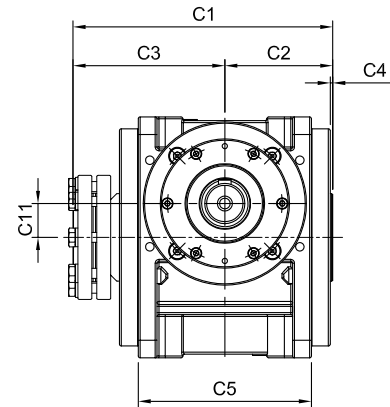
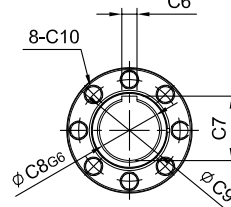
RATIO : 5.10.15 (單段 1-Stage)

單入力軸心 - 單邊免鍵軸套

Single Input Shaft - Single Clamping



R 軸
Shaft Direction



unit: mm

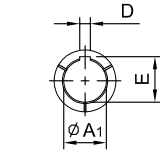
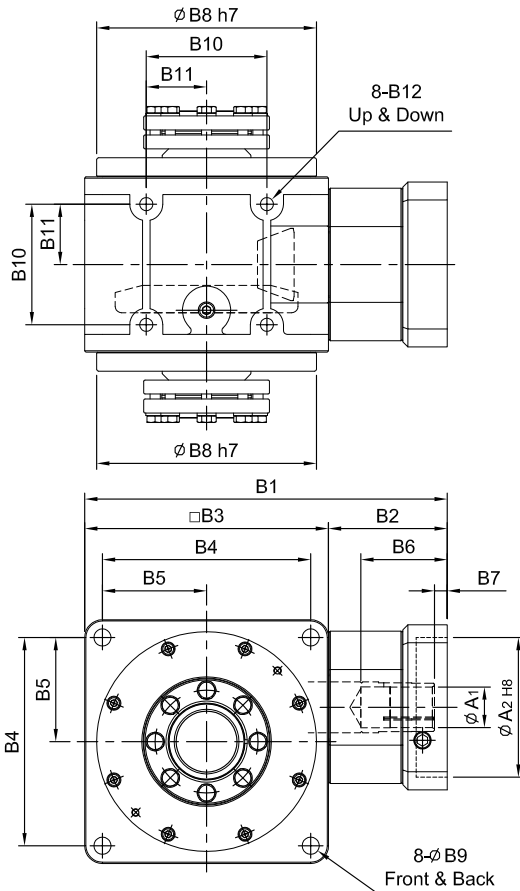
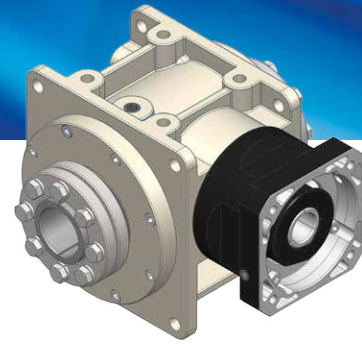
Model Code	55	75	90	115	130	140	160	190
A								
A1	14	19	24	28	32	32	38	40
A2	5	6	8	8	10	10	12	12
A3	16	21.5	27	31	35	35	41	43
A4	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
B								
B1	2.5	2.5	2.5	2.5	5	5	5	5
B2	20	25	35	35	40	40	50	50
B3	147	181	218	260	293	315	367	403
B4	57	66	78	90	101	100	127	139
B5	90	115	140	170	192	215	240	264
B6	78	98	118	144	164	182	206	224
B7	39	49	59	72	82	91	103	112
B8	27	32	42.5	42.5	52.5	51.5	63	63.5
B9	25	30	40	40	50	50	60	60
B10	84	103	128	148	173	200	227	254
B11	6.8	9	11	11	13.5	15	17.5	17.5
B12	44	54	66	80	95	104	120	140
B13	22	27	33	40	47.5	52	60	70
B14	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C								
C1	109	134	160	189	207	224	249	281
C2	44	54	66	78	86	93.5	106	121
C3	65	80	94	111	121	130.5	143	160
C4	2	2	2	2	2	2	2	2
C5	60	80	100	120	138	146	166	196
C6	6	8	10	12	14	16	18	20
C7	22.8	28.3	33.3	43.3	51.3	58.8	63.8	74.3
C8	20	25	30	40	48	55	60	70
C9	28	34	44	52	60	65	73	83
C10	M6	M6	M6	M8	M8	M8	M8	M10
C11	9	14	18	23	27	32	38	42
Weight 重量	3.1	5.0	8.6	11.6	19.9	27.8	38.6	58.4

HY-FM series

RATIO : 5.10.15 (單段 1-Stage)

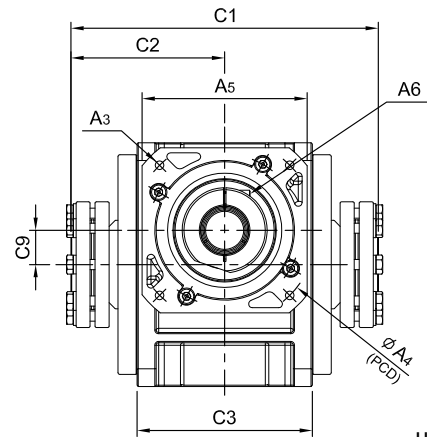
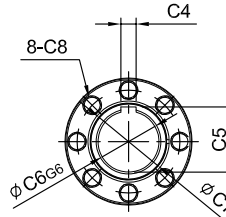
入力法蘭 - 雙邊免鍵軸套

Input Flange - Double Clamping



(入力孔φ35(含)以上)

φA1	D	E
φ35	10	38.3
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8



unit: mm

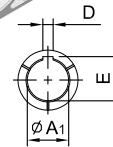
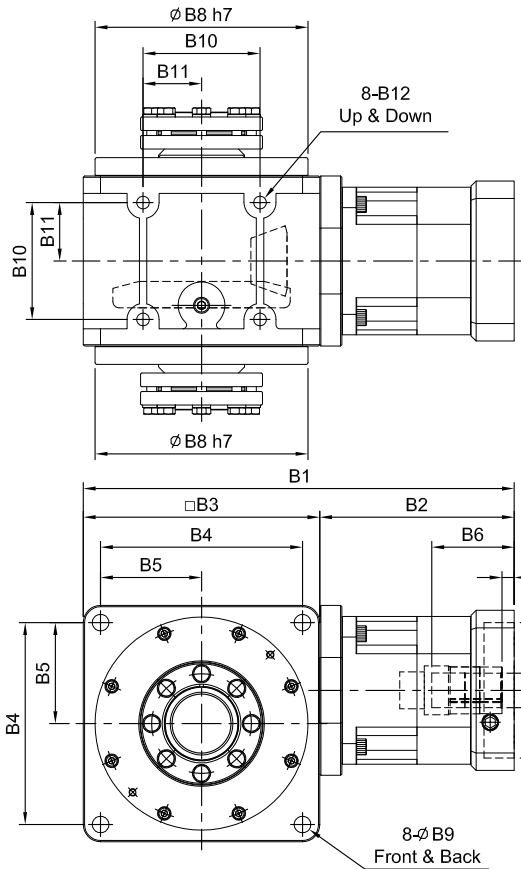
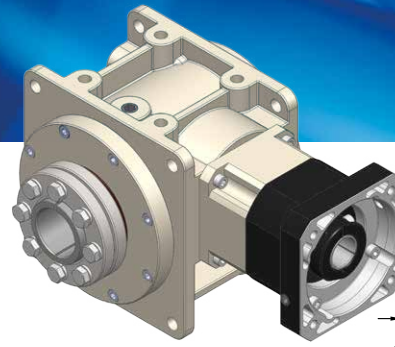
	Model	55	75	90	115	130	140	160	190
	Code								
A	A1	8・11	14	14・19	19・24	28・32	35	35・38	42・48
	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110,130,180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
B	B1	135	172	202	241	286	333	358	417・419
	B2	45	57	62	71	94	118	118	153・155
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	28	38	49	58	69.5	81.5	81.5	114.5・116.5
	B7	5	6	9	8	10	10	10	11.5・13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	130	160	188	222	242	261	286	320
	C2	65	80	94	111	121	130.5	143	160
	C3	60	80	100	120	138	146	166	196
	C4	-	-	-	-	14	16	18	20
	C5	-	-	-	-	51.3	58.8	63.8	74.3
	C6	20	25	30	40	48	55	60	70
	C7	28	34	44	52	60	65	73	83
	C8	M6	M6	M6	M8	M8	M8	M8	M10
	C9	9	14	18	23	27	32	38	42
Weight	重量	3.5	5.3	9.2	13.7	20.5	28.6	41.0	64.0

HY-RM series

RATIO : 25.50.75.100.150 (雙段 2-Stage)

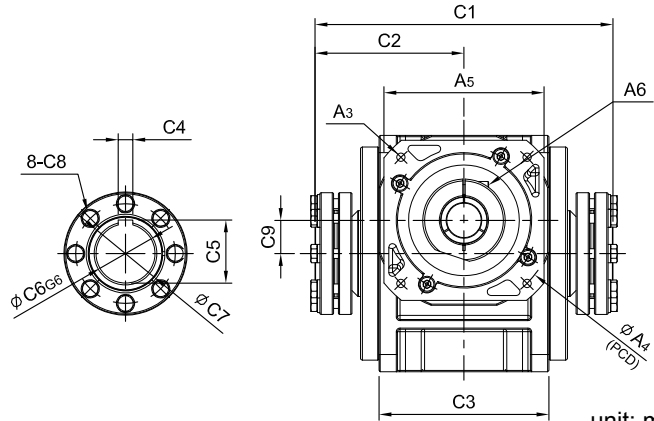
搭配行星減速機 - 雙邊免鍵軸套

Fitted with Planetary Reducer - Double Clamping



(入力軸φ38(含)以上)

φA1	D	E
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8
φ55	16	59.3



unit: mm

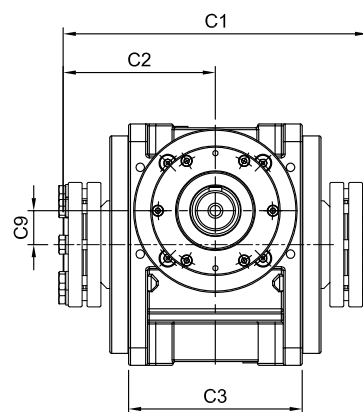
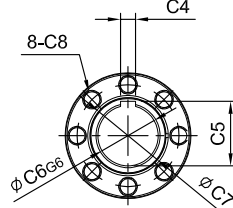
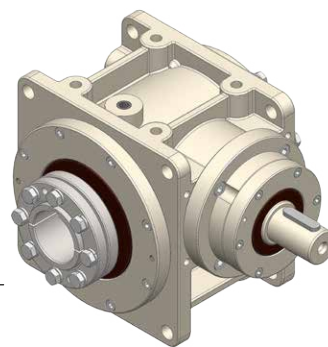
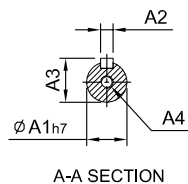
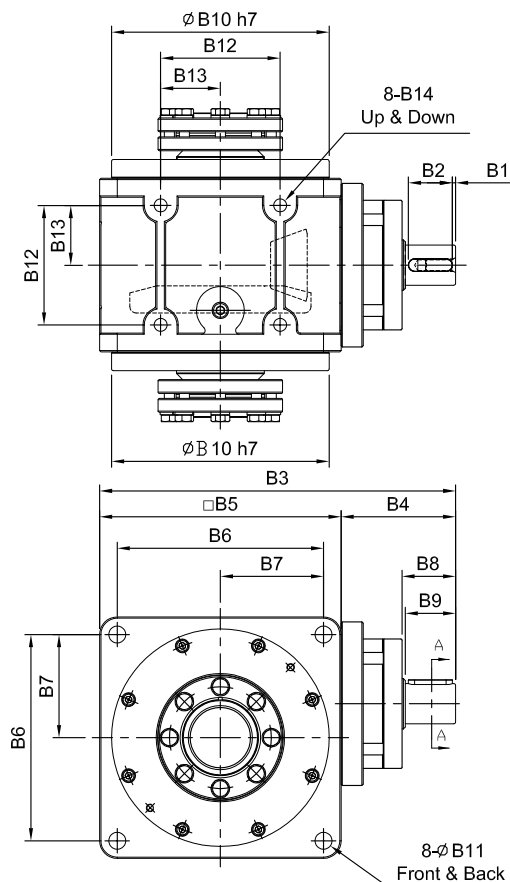
	Model Code	55	75	90	115	130	140	160	190
A	A1	8 · 11	14	(14) · 19	19 · 24	28 · 32	32 · 35	32 · 35	38 · 42 · 48 · 55
	A2	30 · 40 · 50	50 · 60 · 70	50 · 70 · 80 · 95	70 · 80 · 95 · 110	95 · 110 · 130	110 · 130 · 180	110 · 130 · 180	114.3 · 180 · 230 · 250
	A3	M3 · M4 · M5	M4 · M5 · M6	M5 · M6	M5 · M6 · M8	M6 · M8 · M10	M8 · M10 · M12	M8 · M10 · M12	M12 · M16
	A4	46 · 60 · 63	70 · 75 · 90	70 · 90 · 100 · 115	90 · 100 · 115 · 145	115 · 145 · 165	145 · 165 · 200	145 · 165 · 200	200 · 215 · 265 · 300
	A5	46 · 55	64 · 70 · 80	80 · 92 · 110	92 · 110 · 130	122 · 130 · 150	146 · 150 · 190	146 · 150 · 190	182 · 200 · 250 · 265
	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
B	B1	157	201	(224.5) · 237	287	340	405	430	508 · 510
	B2	67	86	(84.5) · 97	117	148	190	190	244 · 246
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	26	32	(33.5) · 45.5	59	67	84.5	84.5	114.5 · 116.5
	B7	5	6	(6) · 10	9	10	10	10	11.5 · 13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	130	160	188	222	242	261	286	320
	C2	65	80	94	111	121	130.5	143	160
	C3	60	80	100	120	138	146	166	196
	C4	-	-	-	-	14	16	18	20
	C5	-	-	-	-	51.3	58.8	63.8	74.3
	C6	20	25	30	40	48	55	60	70
	C7	28	34	44	52	60	65	73	83
	C8	M6	M6	M6	M8	M8	M8	M8	M10
	C9	9	14	18	23	27	32	38	42
Weight	重量	4.1	6.6	11.0	17.4	29.1	43.1	55.6	90.7

HY-DM series

RATIO : 5.10.15 (單段 1-Stage)

單入力軸心 - 雙邊免鍵軸套

Single Input Shaft - Double Clamping



unit: mm

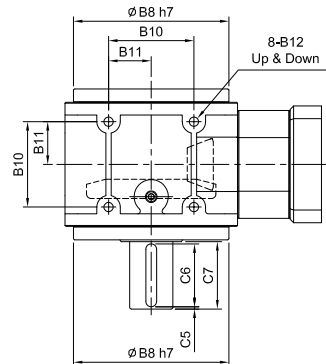
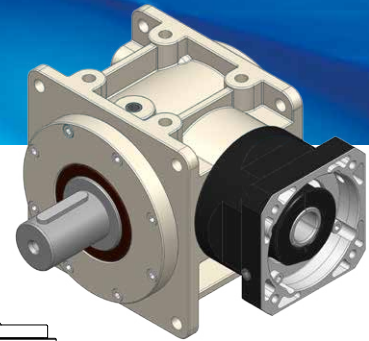
Model Code	55	75	90	115	130	140	160	190
A1	14	19	24	28	32	32	38	40
A2	5	6	8	8	10	10	12	12
A3	16	21.5	27	31	35	35	41	43
A4	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
B1	2.5	2.5	2.5	2.5	5	5	5	5
B2	20	25	35	35	40	40	50	50
B3	147	181	218	260	293	315	367	403
B4	57	66	78	90	101	100	127	139
B5	90	115	140	170	192	215	240	264
B6	78	98	118	144	164	182	206	224
B7	39	49	59	72	82	91	103	112
B8	27	32	42.5	42.5	52.5	51.5	63	63.5
B9	25	30	40	40	50	50	60	60
B10	84	103	128	148	173	200	227	254
B11	6.8	9	11	11	13.5	15	17.5	17.5
B12	44	54	66	80	95	104	120	140
B13	22	27	33	40	47.5	52	60	70
B14	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C1	130	160	188	222	242	261	286	320
C2	65	80	94	111	121	130.5	143	160
C3	60	80	100	120	138	146	166	196
C4	-	-	-	-	14	16	18	20
C5	-	-	-	-	51.3	58.8	63.8	74.3
C6	20	25	30	40	48	55	60	70
C7	28	34	44	52	60	65	73	83
C8	M6	M6	M6	M8	M8	M8	M8	M10
C9	9	14	18	23	27	32	38	42
Weight	3.4	5.3	8.9	11.9	20.7	29.7	41	60.7

HY-FS series

RATIO : 5.10.15 (單段 1-Stage)

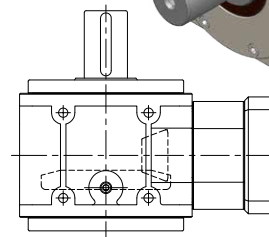
入力法蘭 - 單出力軸心

Input Flange - Single Output Shaft

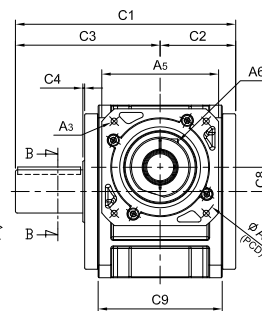
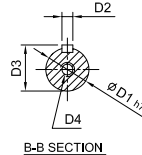
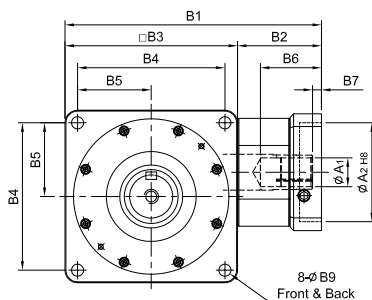


(入力用φ35(含)以上)

φA1	D	E
φ35	10	38.3
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8



R 軸
Shaft Direction



unit: mm

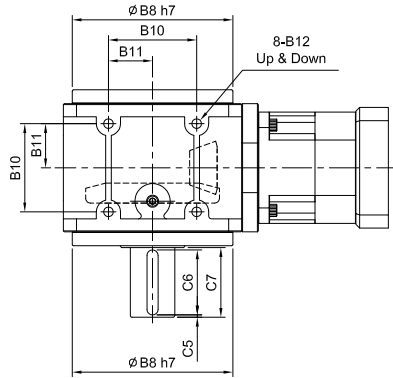
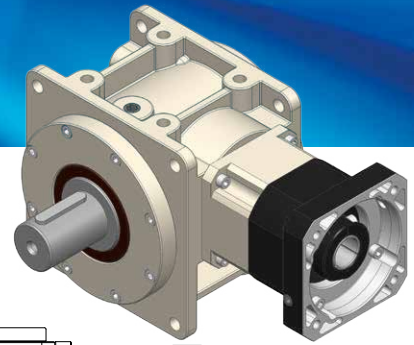
	Model Code	55	75	90	115	130	140	160	190
	A1	8・11	14	14・19	19・24	28・32	35	35・38	42・48
A	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B	B1	135	172	202	241	286	333	358
B2		45	57	62	71	94	118	118	153・155
B3		90	115	140	170	192	215	240	264
B4		78	98	118	144	164	182	206	224
B5		39	49	59	72	82	91	103	112
B6		28	38	49	58	69.5	81.5	81.5	114.5・116.5
B7		5	6	9	8	10	10	10	11.5・13.5
B8		84	103	128	148	173	200	227	254
B9		6.8	9	11	11	13.5	15	17.5	17.5
B10		44	54	66	80	95	104	120	140
B11		22	27	33	40	47.5	52	60	70
B12		M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	121	146	180	214	245	275	310	350
	C2	42	52	64	76	84	91.5	103	118
	C3	79	94	120	138	161	183.5	206	231
	C4	2	2	2	2	2	2	2	2
	C5	5	5	5	5	5	5	5	5
	C6	25	30	40	50	65	80	90	100
	C7	35	40	50	60	75	90	100	110
	C8	9	14	18	23	27	32	38	42
	C9	60	80	100	120	138	146	166	196
D	D1	20	24	32	40	48	55	60	70
	D2	6	8	10	12	14	16	18	20
	D3	22.5	27	35	43	51	58.5	63.5	74
	D4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M12 x P1.75	M16 x P2.0	M20 x P2.5	M20 x P2.5
Weight	重量	3.2	5.0	9.1	14.0	21.0	30.6	42.8	67.9

HY-RS series

RATIO : 25.50.75.100.150 (雙段 2-Stage)

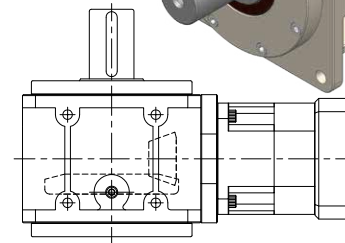
搭配行星減速機 - 單出力軸心

Fitted with Planetary Reducer - Single Output Shaft

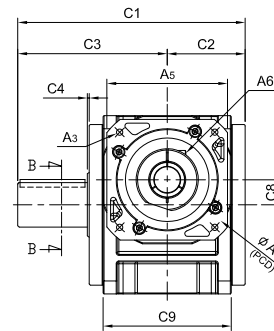
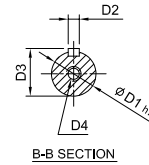
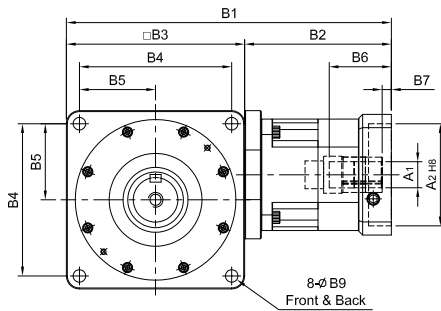


(入力 $\phi 38$ (ϕ)以上)

$\phi A1$	D	E
$\phi 38$	10	41.3
$\phi 42$	12	45.3
$\phi 48$	14	51.8
$\phi 55$	16	59.3



R 軸
Shaft Direction



unit: mm

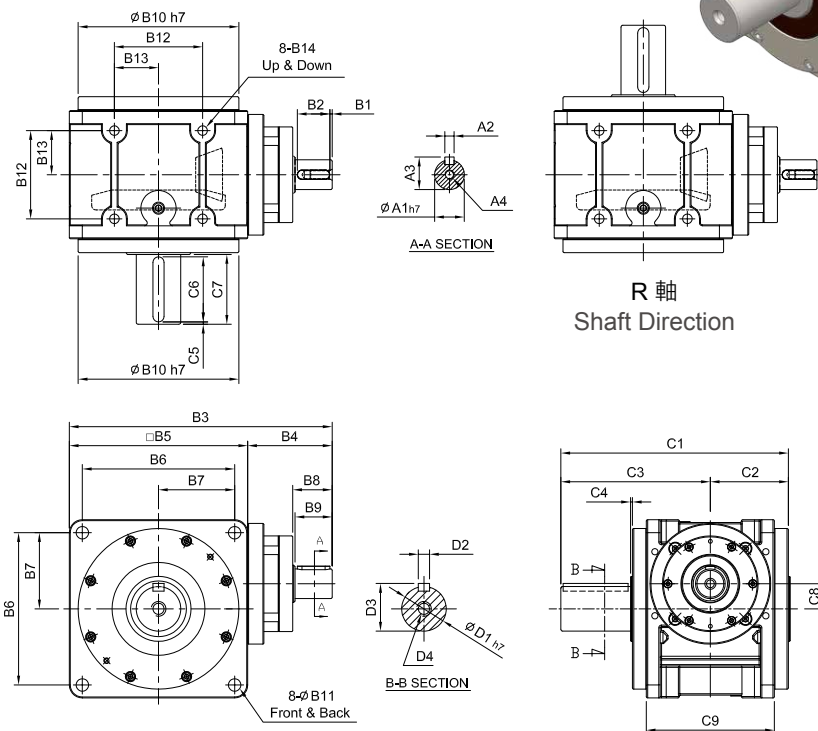
	Model Code	55	75	90	115	130	140	160	190
	A1	8・11	14	(14)・19	19・24	28・32	32・35	32・35	38・42・48・55
A	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B1	157	201	(224.5)・237	287	340	405	430	508・510
B	B2	67	86	(84.5)・97	117	148	190	190	244・246
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	26	32	(33.5)・45.5	59	67	84.5	84.5	114.5・116.5
	B7	5	6	(6)・10	9	10	10	10	11.5・13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
	C	C1	121	146	180	214	245	275	310
C2		42	52	64	76	84	91.5	103	118
C3		79	94	120	138	161	183.5	206	231
C4		2	2	2	2	2	2	2	2
C5		5	5	5	5	5	5	5	5
C6		25	30	40	50	65	80	90	100
C7		35	40	50	60	75	90	100	110
C8		9	14	18	23	27	32	38	42
C9		60	80	100	120	138	146	166	196
D	D1	20	24	32	40	48	55	60	70
	D2	6	8	10	12	14	16	18	20
	D3	22.5	27	35	43	51	58.5	63.5	74
	D4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M12 x P1.75	M16 x P2.0	M20 x P2.5	M20 x P2.5
Weight	重量	3.8	6.3	10.9	17.7	29.6	45.2	57.4	94.6

HY-DS series

RATIO : 5.10.15 (單段 1-Stage)

單入力軸心 - 單出力軸心

Single Input Shaft - Single Output Shaft



R 軸
Shaft Direction

unit: mm

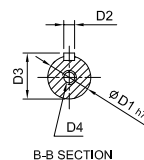
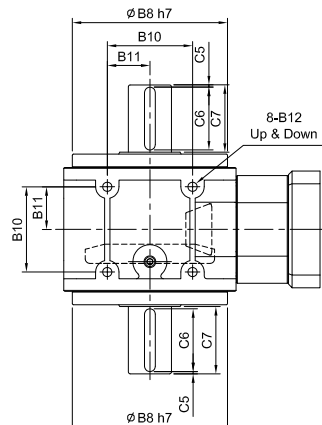
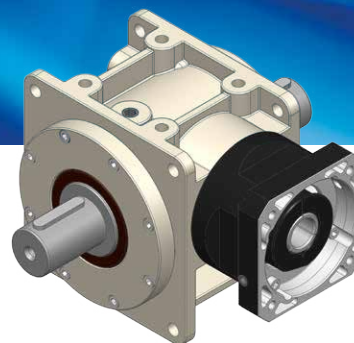
A	Model Code	55	75	90	115	130	140	160	190
	A1	14	19	24	28	32	32	38	40
B	A2	5	6	8	8	10	10	12	12
	A3	16	21.5	27	31	35	35	41	43
	A4	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
	B1	2.5	2.5	2.5	2.5	5	5	5	5
	B2	20	25	35	35	40	40	50	50
	B3	147	180.5	218	260	293	315	367	402.5
	B4	57	65.5	78	90	101	100	127	138.5
	B5	90	115	140	170	192	215	240	264
	B6	78	98	118	144	164	182	206	224
	B7	39	49	59	72	82	91	103	112
	B8	27	32	42.5	42.5	52.5	51.5	63	63.5
	B9	25	30	40	40	50	50	60	60
	B10	84	103	128	148	173	200	227	254
	B11	6.8	9	11	11	13.5	15	17.5	17.5
C	B12	44	54	66	80	95	104	120	140
	B13	22	27	33	40	47.5	52	60	70
	B14	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
	C1	121	146	180	214	245	275	310	350
	C2	42	52	64	76	84	91.5	103	118
	C3	79	94	120	138	161	183.5	206	231
	C4	2	2	2	2	2	2	2	2
	C5	5	5	5	5	5	5	5	5
	C6	25	30	40	50	65	80	90	100
D	C7	35	40	50	60	75	90	100	110
	C8	9	14	18	23	27	32	38	42
	C9	60	80	100	120	138	146	166	196
	D1	20	24	32	40	48	55	60	70
Weight	D2	6	8	10	12	14	16	18	20
	D3	22.5	27	35	43	51	58.5	63.5	74
	D4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M12 x P1.75	M16 x P2.0	M20 x P2.5	M20 x P2.5
	重量	2.9	5.0	8.7	12.0	21.1	32.8	42.0	64.6

HY-FV series

RATIO : 5.10.15 (單段 1-Stage)

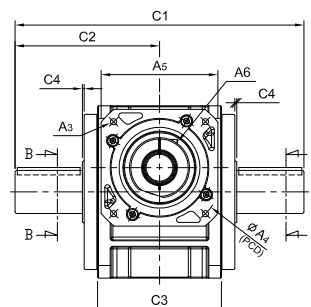
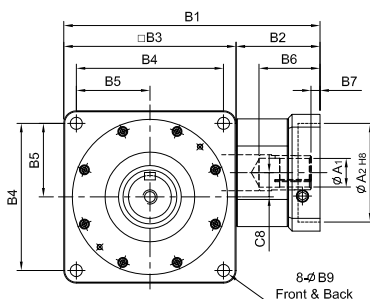
入力法蘭 - 雙出力軸心

Input Flange - Double Output Shaft



φA1	D	E
φ35	10	38.3
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8

(入力用φ35(金)以上)



unit: mm

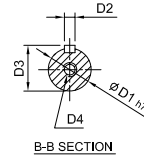
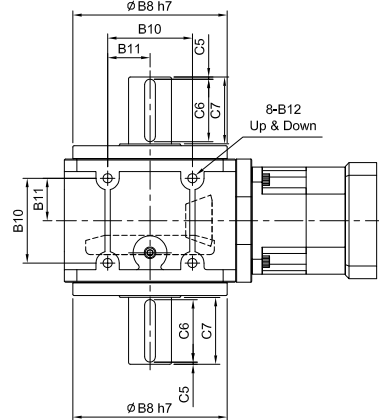
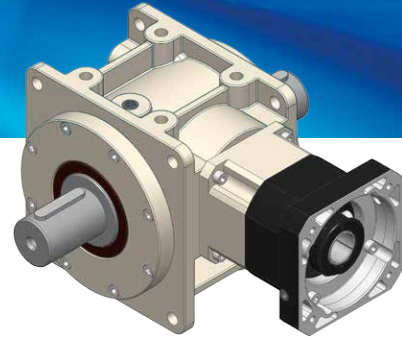
	Model Code	55	75	90	115	130	140	160	190	
	A	A1	8・11	14	14・19	19・24	28・32	35	35・38	42・48
	A	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A	A6	M3 x P.05	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
		B	B1	135	172	202	241	286	333	358
B		B2	45	57	62	71	94	118	118	153・155
B		B3	90	115	140	170	192	215	240	264
B		B4	78	98	118	144	164	182	206	224
B		B5	39	49	59	72	82	91	103	112
B		B6	28	38	49	58	69.5	81.5	81.5	114.5・116.5
B		B7	5	6	9	8	10	10	10	11.5・13.5
B		B8	84	103	128	148	173	200	227	254
B		B9	6.8	9	11	11	13.5	15	17.5	17.5
B		B10	44	54	66	80	95	104	120	140
B		B11	22	27	33	40	47.5	52	60	70
B		B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
	C	C1	158	188	232	276	322	367	412	462
	C	C2	79	94	116	138	161	183.5	206	231
	C	C3	60	80	100	120	138	146	166	196
	C	C4	2	2	2	2	2	2	2	2
	C	C5	5	5	5	5	5	5	5	5
	C	C6	25	30	40	50	65	80	90	100
	C	C7	35	40	50	60	75	90	100	110
	C	C8	9	14	18	23	27	32	38	42
	D	D1	20	24	32	40	48	55	60	70
	D	D2	6	8	10	12	14	16	18	20
	D	D3	22.5	27	35	43	51	58.5	63.5	74
	D	D4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M12 x P1.75	M16 x P2.0	M20 x P2.5	M20 x P2.5
Weight	重量	3.4	5.4	9.7	15.3	23.1	34.7	47.1	74.0	

HY-RV series

RATIO : 25.50.75.100.150 (雙段 2-Stage)

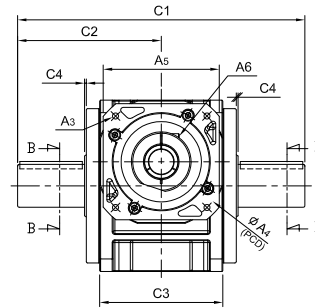
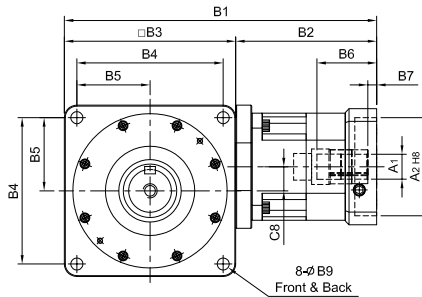
搭配行星減速機 - 雙出力軸心

Fitted with Planetary Reducer - Double Output Shaft



(入力用φ38(含)以上)

φA1	D	E
φ38	10	41.3
φ42	12	45.3
φ48	14	51.8
φ55	16	59.3



unit: mm

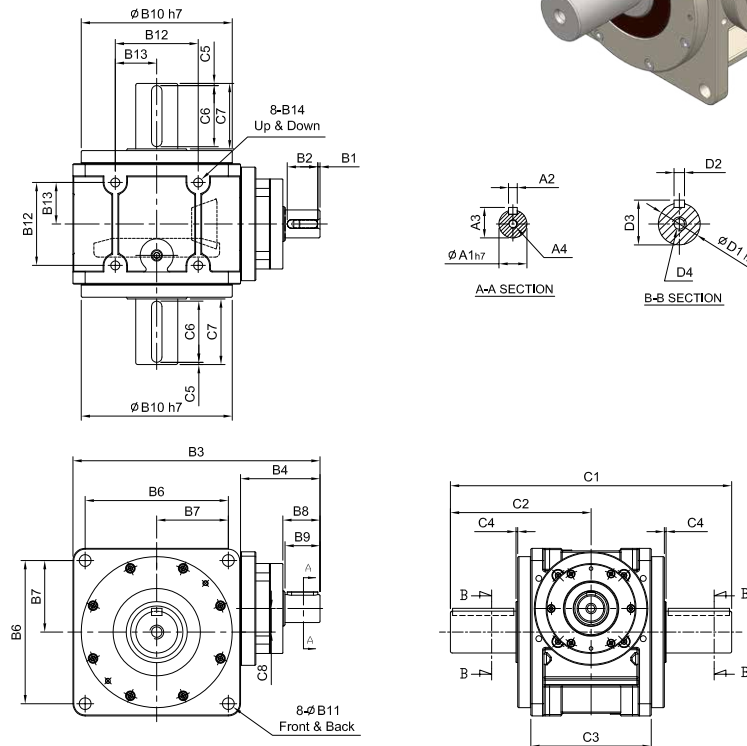
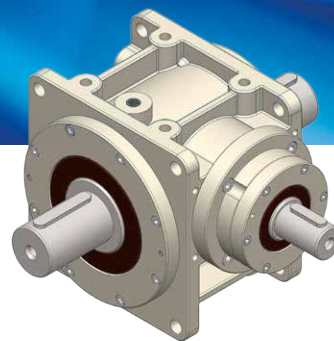
	Model Code	55	75	90	115	130	140	160	190
A	A1	8・11	14	(14)・19	19・24	28・32	32・35	32・35	38・42・48・55
	A2	30・40・50	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M3・M4・M5	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	46・60・63	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	46・55	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M3 x P.05	M5 x P.0.8	M5 x P.0.8	M6 x P.1.0	M8 x P.1.25	M10 x P.1.5	M10 x P.1.5	M10 x P.1.5
B	B1	157	201	(224.5)・237	287	340	405	430	508・510
	B2	67	86	(84.5)・97	117	148	190	190	244・246
	B3	90	115	140	170	192	215	240	264
	B4	78	98	118	144	164	182	206	224
	B5	39	49	59	72	82	91	103	112
	B6	26	32	(33.5)・45.5	59	67	84.5	84.5	114.5・116.5
	B7	5	6	(6)・10	9	10	10	10	11.5・13.5
	B8	84	103	128	148	173	200	227	254
	B9	6.8	9	11	11	13.5	15	17.5	17.5
	B10	44	54	66	80	95	104	120	140
	B11	22	27	33	40	47.5	52	60	70
	B12	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	158	188	232	276	322	367	412	462
	C2	79	94	116	138	161	183.5	206	231
	C3	60	80	100	120	138	146	166	196
	C4	2	2	2	2	2	2	2	2
	C5	5	5	5	5	5	5	5	5
	C6	25	30	40	50	65	80	90	100
	C7	35	40	50	60	75	90	100	110
	C8	9	14	18	23	27	32	38	42
D	D1	20	24	32	40	48	55	60	70
	D2	6	8	10	12	14	16	18	20
	D3	22.5	27	35	43	51	58.5	63.5	74
	D4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M12 x P1.75	M16 x P2.0	M20 x P2.5	M20 x P2.5
Weight	重量	4.0	6.6	11.5	18.9	31.7	41.2	61.6	100.6

HY-DV series

RATIO : 5.10.15 (單段 1-Stage)

單入力軸心 - 雙出力軸心

Single Input Shaft - Double Output Shaft



unit: mm

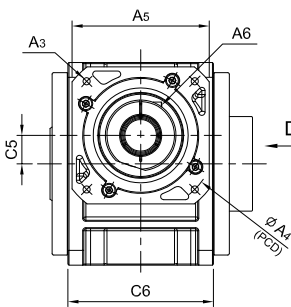
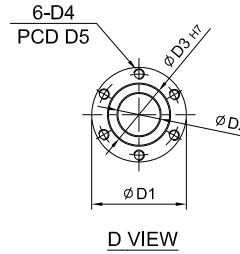
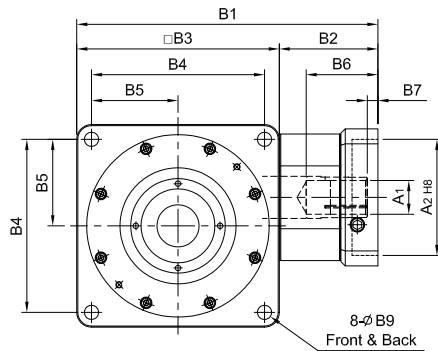
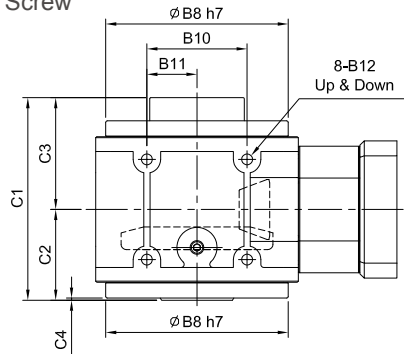
	Model Code	55	75	90	115	130	140	160	190
A	A1	14	19	24	28	32	32	38	40
	A2	5	6	8	8	10	10	12	12
	A3	16	21.5	27	31	35	35	41	43
	A4	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
B	B1	2.5	2.5	2.5	2.5	5	5	5	5
	B2	20	25	35	35	40	40	50	50
	B3	147	181	218	260	293	315	367	403
	B4	57	66	78	90	101	100	127	139
	B5	90	115	140	170	192	215	240	264
	B6	78	98	118	144	164	182	206	224
	B7	39	49	59	72	82	91	103	112
	B8	27	32	42.5	42.5	52.5	51.5	63	63.5
	B9	25	30	40	40	50	50	60	60
	B10	84	103	128	148	173	200	227	254
	B11	6.8	9	11	11	13.5	15	17.5	17.5
	B12	44	54	66	80	95	104	120	140
	B13	22	27	33	40	47.5	52	60	70
	B14	M6 x P1.0	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	158	188	232	276	322	367	412	462
	C2	79	94	116	138	161	183.5	206	231
	C3	60	80	100	120	138	146	166	196
	C4	2	2	2	2	2	2	2	2
	C5	5	5	5	5	5	5	5	5
	C6	25	30	40	50	65	80	90	100
	C7	35	40	50	60	75	90	100	110
	C8	9	14	18	23	27	32	38	42
D	D1	20	24	32	40	48	55	60	70
	D2	6	8	10	12	14	16	18	20
	D3	22.5	27	35	43	51	58.5	63.5	74
	D4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M12 x P1.75	M16 x P2.0	M20 x P2.5	M20 x P2.5
Weight	重量	3.1	5.3	9.2	14.7	23.6	37.7	47.8	70.6

HY-FP series

RATIO : 5.10.15 (單段 1-Stage)

入力法蘭 - 螺桿式

Input Flange - Ball Screw



unit: mm

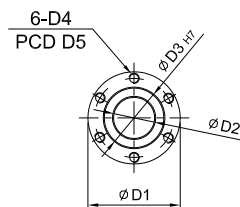
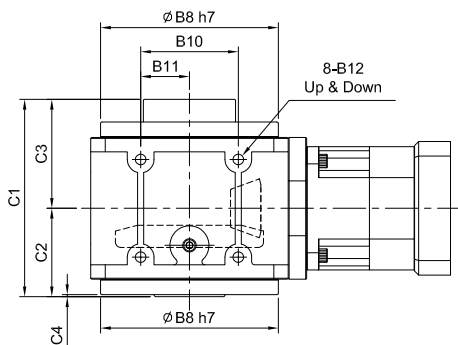
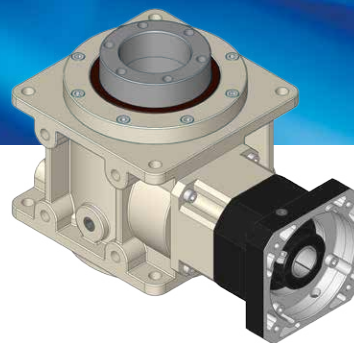
	Model Code	75	90	115	130	140	160	190
	A1	14	14、19	19、24	28、32	35	35、38	42、48
A	A2	50、60、70	50、70、80、95	70、80、95、110	95、110、130	110、130、180	110、130、180	114.3、180、230、250
	A3	M4、M5、M6	M5、M6	M5、M6、M8	M6、M8、M10	M8、M10、M12	M8、M10、M12	M12、M16
	A4	70、75、90	70、90、100、115	90、100、115、145	115、145、165	145、165、200	145、165、200	200、215、265、300
	A5	64、70、80	80、92、110	92、110、130	122、130、150	146、150、190	146、150、190	182、200、250、265
	A6	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B	B1	172	202	241	286	333	358
B2		57	62	71	94	118	118	153、155
B3		115	140	170	192	215	240	264
B4		98	118	144	164	182	206	224
B5		49	59	72	82	91	103	112
B6		38	49	58	69.5	81.5	81.5	114.5、116.5
B7		6	9	8	10	10	10	11.5、13.5
B8		103	128	148	173	200	227	254
B9		9	11	11	13.5	15	17.5	17.5
B10		54	66	80	95	104	120	140
B11		27	33	40	47.5	52	60	70
B12		M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	125	140	177	193	205	230	260
	C2	58	66	78.5	87	94	107	123
	C3	67	74	98.5	106	111	123	137
	C4	3.25	2	2.5	2	2.5	2.5	3
	C5	50	58	72	72	82	92	117
	C6	75	82	105	121	123	138	143
	C7	14	18	23	27	32	38	42
	C8	80	100	120	138	146	166	196
D	D1	54.7	64.7	89.7	89.7	99.7	117.7	129.7
	D2	22	30	38	40	44	54	65
	D3	34	40	58	58	64	75	90
	D4	M5 x P0.8	M5 x P0.8	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
	D5	45	51	77	77	84	97	112
Weight	重量	4.3	8.3	12.7	18.7	26.9	37.9	58.9

HY-RP series

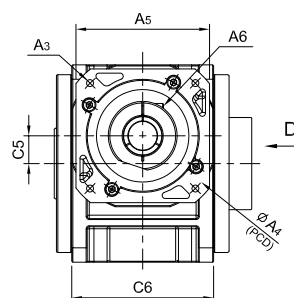
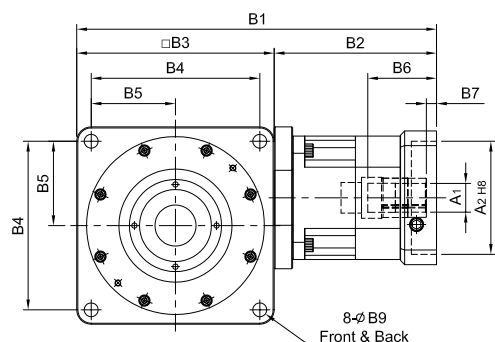
RATIO : 25.50.75.100.150 (雙段 2-Stage)

搭配行星減速機 - 螺桿式

Fitted with Planetary Reducer - Ball Screw



D VIEW



unit: mm

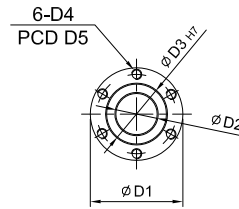
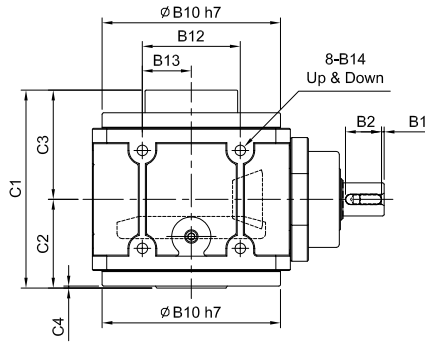
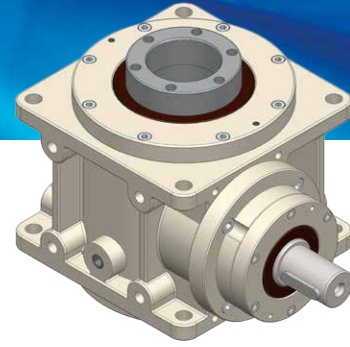
	Model Code	75	90	115	130	140	160	190
	A1	14	(14)・19	19・24	28・32	32・35	32・35	38・42・48・55
A	A2	50・60・70	50・70・80・95	70・80・95・110	95・110・130	110・130・180	110・130・180	114.3・180・230・250
	A3	M4・M5・M6	M5・M6	M5・M6・M8	M6・M8・M10	M8・M10・M12	M8・M10・M12	M12・M16
	A4	70・75・90	70・90・100・115	90・100・115・145	115・145・165	145・165・200	145・165・200	200・215・265・300
	A5	64・70・80	80・92・110	92・110・130	122・130・150	146・150・190	146・150・190	182・200・250・265
	A6	M5 x P0.8	M5 x P0.8	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5
	B	B1	201	(224.5)・237	287	340	405	430
B2		86	(84.5)・97	117	148	190	190	244・246
B3		115	140	170	192	215	240	264
B4		98	118	144	164	182	206	224
B5		49	59	72	82	91	103	112
B6		32	(33.5)・45.5	59	67	84.5	84.5	114.5・116.5
B7		6	(6)・10	9	10	10	10	11.5・13.5
B8		103	128	148	173	200	227	254
B9		9	11	11	13.5	15	17.5	17.5
B10		54	66	80	95	104	120	140
B11		27	33	40	47.5	52	60	70
B12		M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0	M16 x P2.0
C	C1	125	140	177	193	205	230	260
	C2	58	66	78.5	87	94	107	123
	C3	67	74	98.5	106	111	123	137
	C4	3.25	2	2.5	2	2.5	2.5	3
	C5	50	58	72	72	82	92	117
	C6	75	82	105	121	123	138	143
	C7	14	18	23	27	32	38	42
	C8	80	100	120	138	146	166	196
D	D1	54.7	64.7	89.7	89.7	99.7	117.7	129.7
	D2	22	30	38	40	44	54	65
	D3	34	40	58	58	64	75	90
	D4	M5 x P0.8	M5 x P0.8	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75	M12 x P1.75
	D5	45	51	77	77	84	97	112
Weight	重量	5.5	10.1	16.4	27.3	41.5	52.5	85.5

HY-DP series

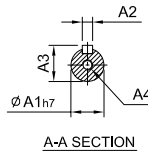
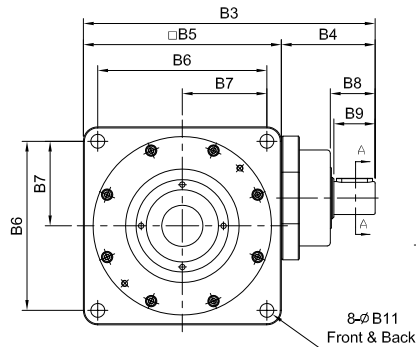
RATIO : 5.10.15 (單段 1-Stage)

單入力軸心 - 螺桿式

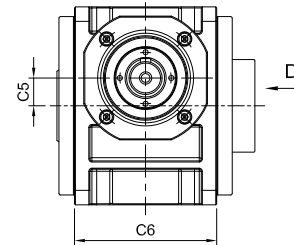
Single Input Shaft - Ball Screw



D VIEW



A-A SECTION

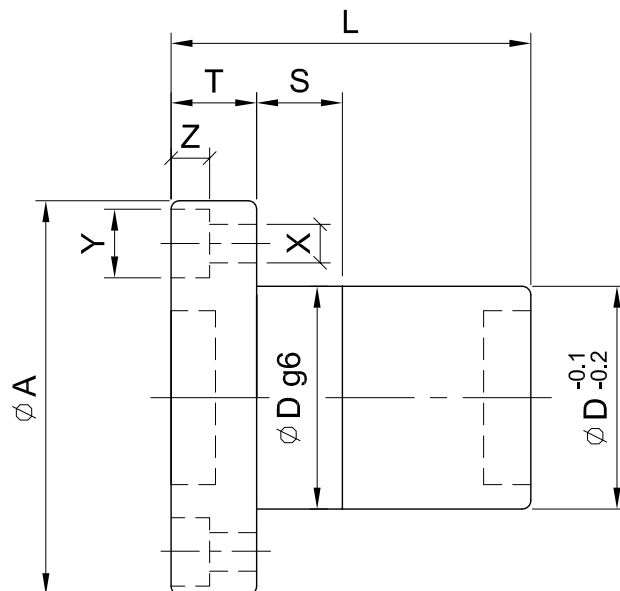
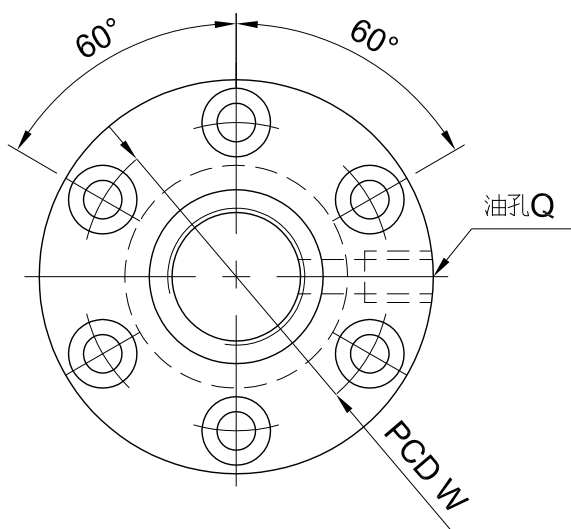
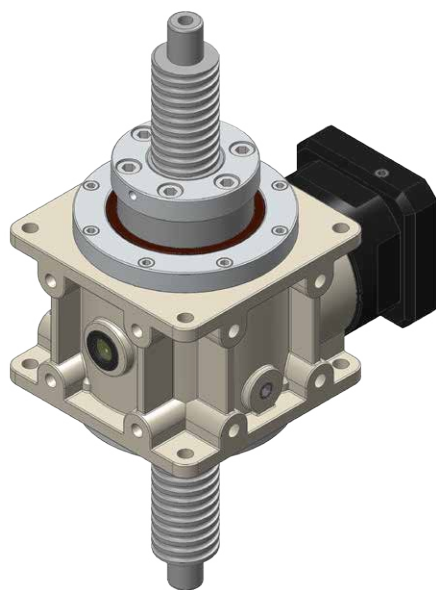


unit: mm

Model Code	75	90	115	130	140	160	190
A	A1	19	24	28	32	32	40
	A2	6	8	8	10	10	12
	A3	21.5	27	31	35	35	43
	A4	M6 x P1.0	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75
B	B1	2.5	2.5	2.5	5	5	5
	B2	25	35	35	40	40	50
	B3	181	218	260	293	315	403
	B4	66	78	90	101	100	127
	B5	115	140	170	192	215	264
	B6	98	118	144	164	182	206
	B7	49	59	72	82	91	103
	B8	32	42.5	42.5	52.5	51.5	63
	B9	30	40	40	50	50	60
	B10	103	128	148	173	200	227
	B11	9	11	11	13.5	15	17.5
	B12	54	66	80	95	104	120
	B13	27	33	40	47.5	52	60
	B14	M8 x P1.25	M10 x P1.5	M12 x P1.75	M12 x P1.75	M14 x P2.0	M16 x P2.0
C	C1	125	140	177	193	205	260
	C2	58	66	78.5	87	94	107
	C3	67	74	98.5	106	111	123
	C4	3.25	2	2.5	2	2.5	3
	C5	50	58	72	72	82	92
	C6	75	82	105	121	123	138
	C7	14	18	23	27	32	38
	C8	80	100	120	138	146	166
D	D1	54.7	64.7	89.7	89.7	99.7	117.7
	D2	22	30	38	40	44	54
	D3	34	40	58	58	64	75
	D4	M5 x P0.8	M5 x P0.8	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.75
	D5	45	51	77	77	84	97
Weight	重量	4.2	7.8	12.2	19.2	29.6	38.7

Reference Information of Ball Screw

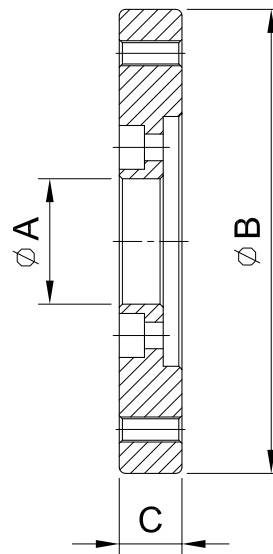
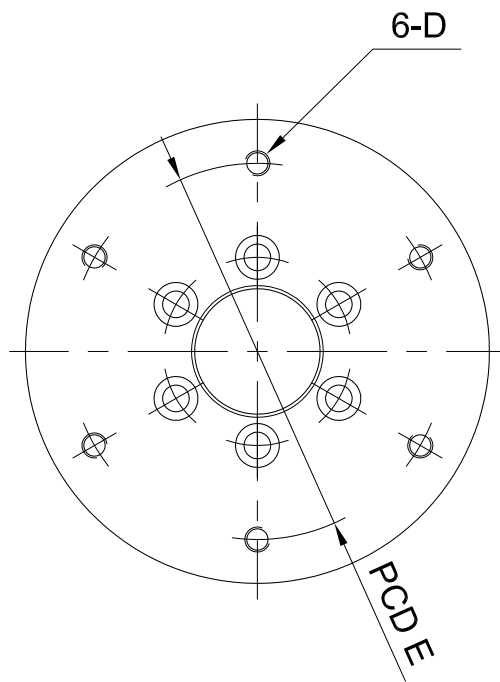
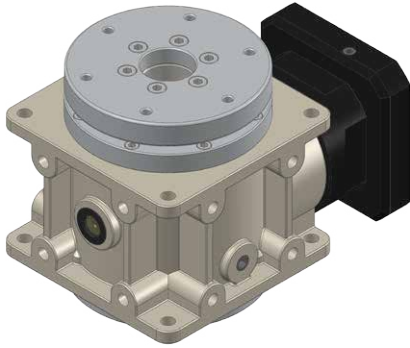
滾珠螺桿參考資料



配合 減速機 型號 Model of Reducer	螺桿尺寸 Screw Size		基本額定負荷 Basic Rate Load (kgf)		螺帽 Nut		法蘭 Flange			配合 FIT	螺絲孔 Screw Bolt			油孔 Oil Hole	螺桿 長度 Length
	外徑 O.D.	導程 Lead	動負荷 Dynamic	靜負荷 Static	Dg6	L	A	T	W	S	X	Y	Z	Q	
55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	20	6	1,380	2,730	34	61	57	12	45	12	5.5	9.5	5.5	M6 x P1	≤ 1500
90	25	8	1,630	3,650	40	69	63.5	12	51	15	5.5	9.5	5.5	M8 x P1	≤ 1500
115	36	10	3,600	8,280	58	89	98	18	77	20	11	17.5	11	M8 x P1	≤ 1500
130	36	10	3,600	8,280	58	89	98	18	77	20	11	17.5	11	M8 x P1	≤ 1500
140	40	10	4,670	11,830	64	99	106	18	84	20	11	17.5	11	M8 x P1	≤ 1500
160	50	12	5,770	14,870	75	111	121	22	97	20	14	20	13	1/8"PT	≤ 1500
190	63	12	9,320	29,150	90	136	136	22	112	20	14	20	13	1/8"PT	≤ 1500

Flange (B)

旋盤 (B)



Model Code	55	75	90	115	130	140	160	190
A	-	25	30	40	45	50	55	60
B	-	102	128	148	168	198	228	248
C	-	15	16	20	23	24	23	27
D	-	M6 x P1.0	M8 x P1.25	M8 x P1.25	M10 x P1.5	M10 x P1.5	M10 x P1.5	M12 x P1.25
E	-	80	100	120	140	160	180	200