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VARiTRON® 驅動科技系列產品 Gear Transmission Technologies

VARiTRON®
Take Control In Speed

驅動科技系列產品
Power Transmission Technologies

台灣 中國變速工程股份有限公司
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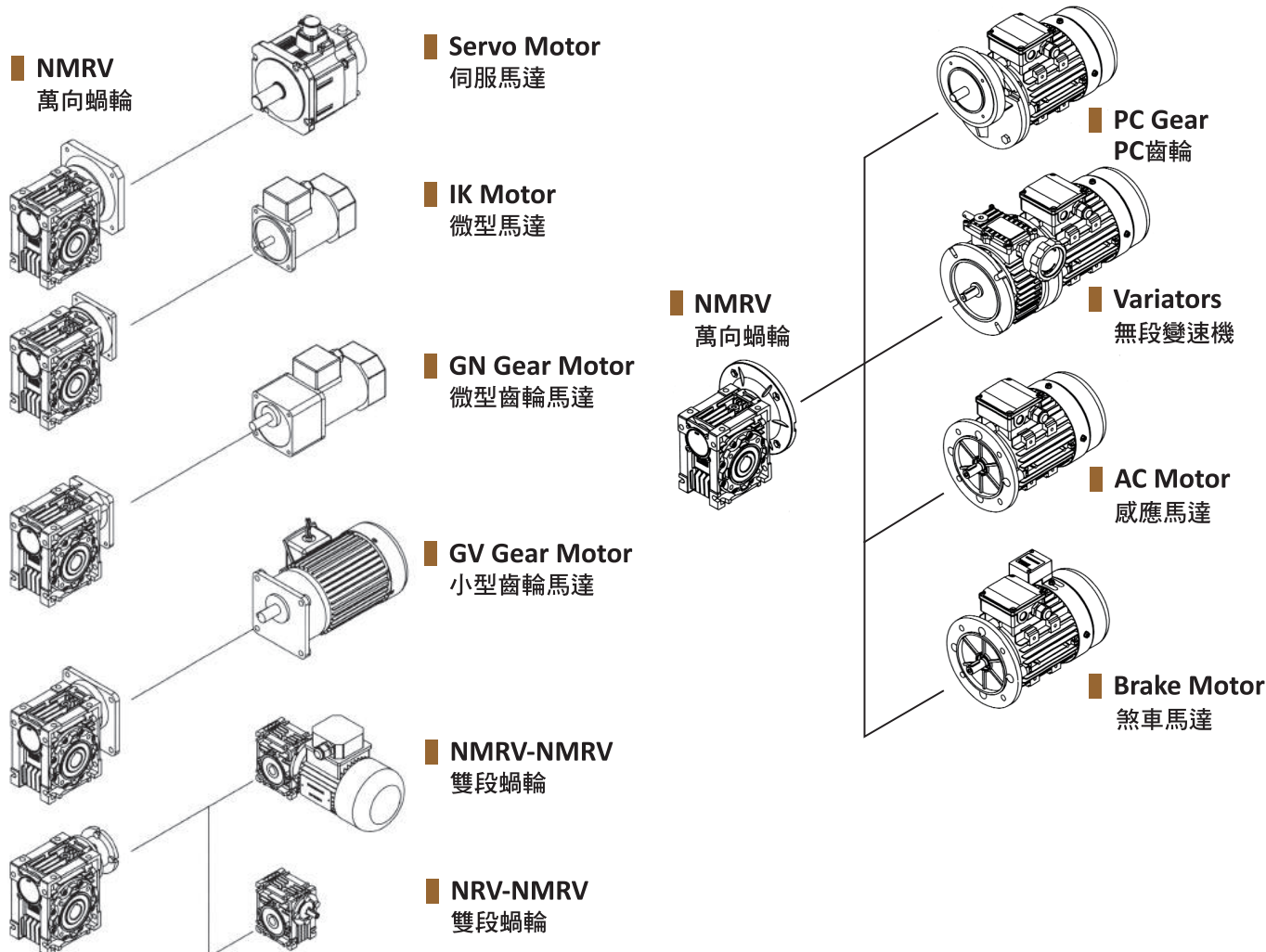
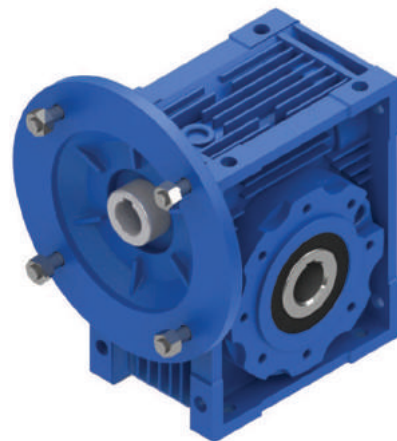


NMRV Worm Gear Reducer

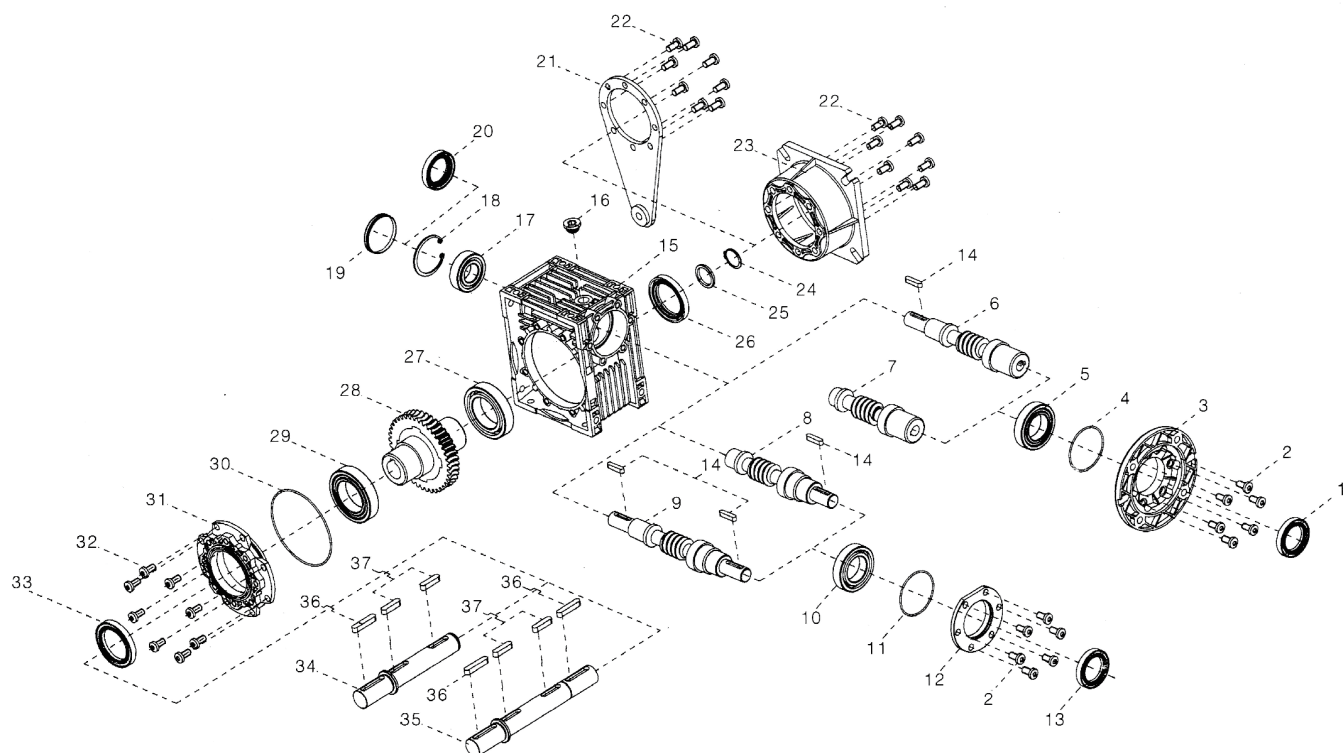
NMRV 萬向蝸輪減速機

Varitron NMRV Worm gear reducers provide market advance solution with efficiency and flexibility. NMRV worm gear series also available as compact integral helical/worm option, has been designed with a view to modularity: low number of basic models can be applied to a wide range of power ratings guaranteeing top performance and reduction ratios from 5 to 1000.

NMRV鋁合金蝸輪減速機，是在本廠原有鑄鐵蝸輪產品系列的基礎上開發而成的新一代產品。機體用優質的鋁合金壓鑄成形，體積小、散熱快，表面經粉體塗裝處理、不生銹、美觀耐用，蝸桿使用鉻鉍合金鋼，經滲碳熱處理及研磨，傳動平穩、噪音小，輸出扭矩大，可適應全方位安裝。

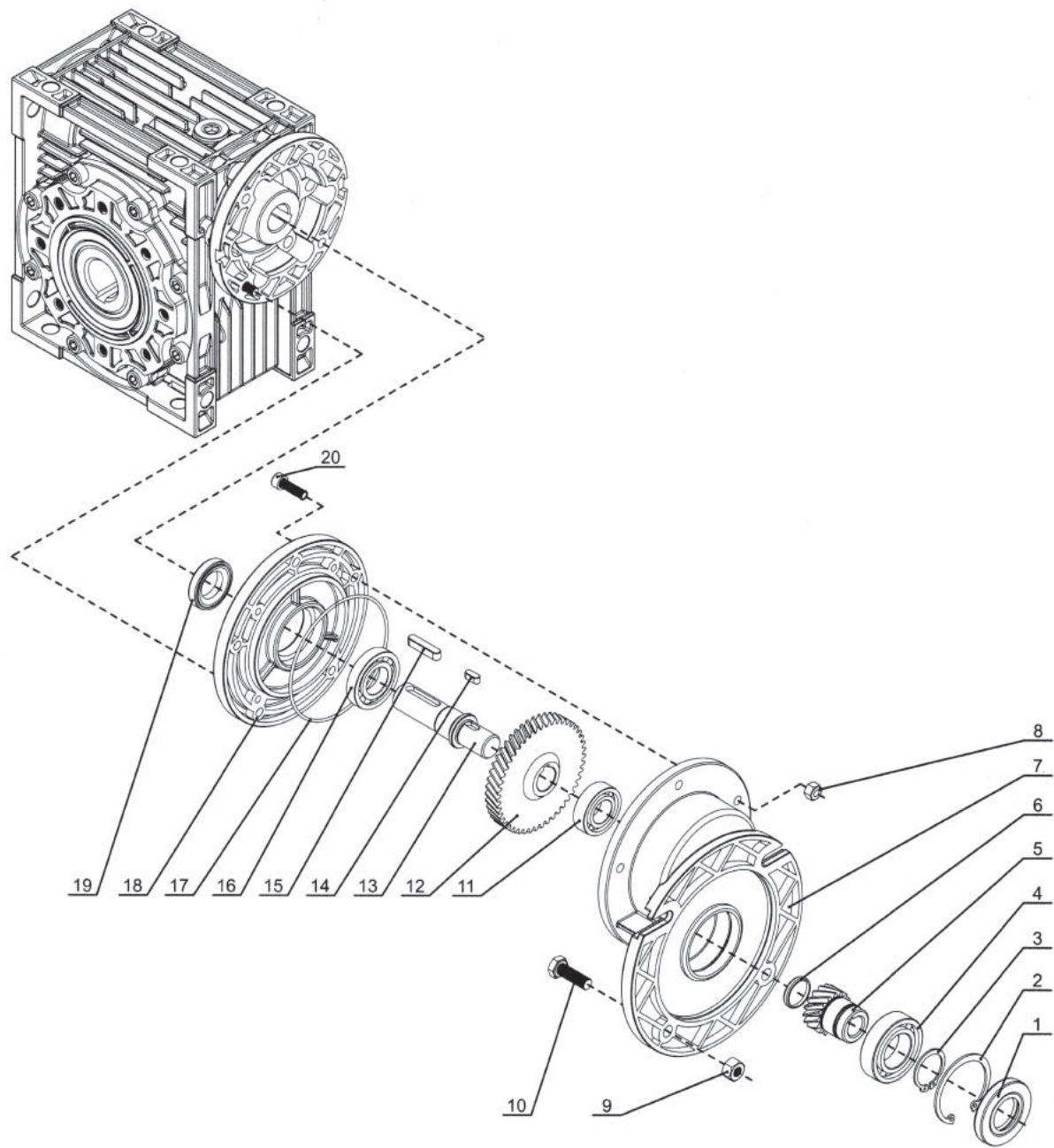


NMRV Construction Drawing 構造圖



Item 項次	Component 零組件		Item 項次	Component 零組件		Item 項次	Component 零組件	
1	Oil seal	油封	14	Parallel key	平鍵	27	Bearing	軸承
2	Inner hex screw	內六角螺絲	15	Housing	本體	28	Worm wheel	蝸輪
3	Motor Input Cover	馬達入力蓋	16	Plug	油塞	29	Bearing	軸承
4	O-ring	O形橡膠密封圈	17	Bearing	軸承	30	O-Ring	O形橡膠密封圈
5	Bearing	軸承	18	Hole-Circlip	R型扣環	31	Bearing support cover	側蓋
6	NMRV-VS Worm Shaft	孔雙入力軸蝸桿	19	Seal Cap	油封蓋	32	Inner hex screw	內六角螺絲
7	NMRV Worm Shaft	孔入力軸蝸桿	20	Oil seal	油封	33	Oil seal	油封
8	NRV Worm Shaft	入力軸蝸桿	21	Torque arm	扭力臂	34	Single output Shaft	單向出力軸
9	NRV-VS Worm Shaft	雙入力軸蝸桿	22	Hexagon bolt	六角頭螺栓	35	Double output Shaft	雙向出力軸
10	Bearing	軸承	23	Output flange	出力法蘭	36	Parallel key	平鍵
11	O-ring	O形橡膠密封圈	24	Shaft-Circlip	C型扣環	37	Parallel key	平鍵
12	NRV Input Cover	N R V 入力蓋	25	Washer	墊圈			
13	Oil seal	油封	26	Oil seal	油封			

PC Gear Unit Construction Drawing 構造圖



Item 項次	Component 零組件		Item 項次	Component 零組件		Item 項次	Component 零組件	
1	Oil seal	油封	8	Hexagon nuts	六角螺母	15	Parallel key	平鍵
2	Hole-Circlip	R型扣環	9	Hexagon nuts	六角螺母	16	Bearing	軸承
3	Shaft-Circlip	C型扣環	10	Hexagon screw	外六角螺絲	17	O-Ring	O形橡膠密封圈
4	Bearing	軸承	11	Bearing	軸承	18	Output cover	出力軸端蓋
5	Hollow pinion	孔入力小齒輪	12	Gear	大齒輪	19	Oil seal	油封
6	Seal Cap	油封蓋	13	Low speed shaft	出力軸	20	Inner hex screw	內六角螺絲
7	Housing	本體	14	Parallel key	平鍵			

How to order 選型

NMRV 063 – 30 – VS – 80B5 – FA(1) – AS(1) – B3

①

②

③

④
Option 選配

⑤

⑥
Option 選配⑦
Option 選配

⑧



①	Worm Gear Model 蝸輪型式	NMRV: Worm Gear With IEC Motor Adaptor NMRV-NMRV: Double Stage Worm Gear With IEC Motor Adaptor NRV: Worm Gear With Input Shaft NRV-NMRV: Double Stage Worm Gear With Input Shaft PC-NMRV: Helical - Worm Gear With IEC Motor Adaptor		蝸輪減速機附入力法蘭 雙段蝸輪減速機附入力法蘭 蝸輪減速機附入力軸 雙段蝸輪減速機附入力軸 斜齒輪蝸輪減速機附入力法蘭
②	Frame Size 型號	025,030,040,050,063,075,090,110,130,150 Refer to Performances Table on Page 163~166. 請參閱第 163~166 頁性能表		
③	Ratio 減速比	5,7.5,10,15,20,25,30,40,50,60,80,100,⋯ Refer to Specifications Table Page 162~166. 請參閱第 162~166 頁規格表性能及馬達選配表		
④	Double Input Shaft 雙入力軸 (Option 選配)	Empty if non 無記號: 無 VS		Refer to page 169 參考第 169 頁
⑤	Input Motor Flange PAM 馬達盤	Refer to Disposition and Combinations Table (NMRV). 請參閱馬達選配表 (NMRV)		
⑥	Output Flange 出力法蘭 (Option 選配)	FA: FA Flange 法蘭 FB: FB Flange 法蘭 FC: FC Flange 法蘭	FD: FD Flange 法蘭 FE: FE Flange 法蘭 TA: Torque Arm 扭力臂 OC: Output Cover 出力軸蓋	Direction 方向 (1) (Standard 標準) (2) Refer to page 172 參考第 172 頁
⑦	Output Shaft 出力軸 (Option 選配)	AS: Single Output Shaft 單向出力軸 AB: Double Output Shaft 雙向出力軸		(1) (Standard 標準) (2) Refer to page 173 參考第 173 頁
⑧	Operation Direction 使用方向	NRV,NMRV,NMRV-PC: B3 (Standard 標準),B6,B7,B8,V5,V6 NMRV-NMRV,NRV-NMRV: AS1 (Standard 標準),AS2,BS1,BS2,VS1,VS2,PS1,PS2 Refer to page 167. 參考第 167 頁		

※ For INCH Size Series, contact Varitron® or your sales personal. 如需英制尺寸請洽中國變速。

※ Dimensions and specifications in the catalog are subject to change without notice. 尺寸及規格若有變動，將不另行通知。

※ Optional Smart Monitoring System can be integrated, contact Varitron® or your sales personal. 如需加購智能監控系統，請洽中國變速。

Model 型式 ①

NMRV



NRV



PC-NMRV



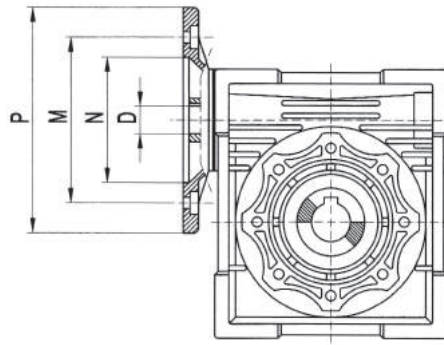
NMRV-NMRV



NRV-NMRV



NMRV Disposition and Combinations 馬達選配表

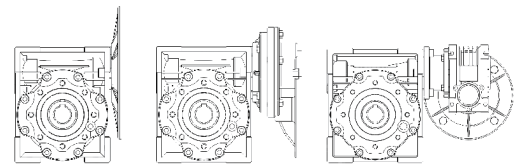


Frame Size 型號	HP (4P)	PAM IEC	N	M	P	Reduction Ratio 減速比 (i)											
						5	7.5	10	15	20	25	30	40	50	60	80	100
						Input Bore 入力孔 (D)											
NMRV025	1/8 HP	56B14	50	65	80	9	9	9	9	9	-	9	+	-	-	-	-
NMRV030	1/4 HP	63B5	95	115	140	11	11	11	11	11	11	11	11	11	-	-	-
		63B14	60	75	90												
	1/8 HP	56B5	80	100	120	9	9	9	9	9	9	9	9	9	+	-	-
NMRV040	1/2 HP	71B5	110	130	160	14	14	14	14	14	+	+	+	-	-	-	-
		71B14	70	85	105												
	1/4 HP	63B5	95	115	140	11	11	11	11	11	11	11	11	11	+	+	+
		63B14	60	75	90												
	1/8 HP	56B5	80	100	120	-	-	-	-	-	-	-	-	9	9	9	9
NMRV050	1 HP	80B5	130	165	200	19	19	19	19	+	+	+	-	-	-	-	-
		80B14	80	100	120												
	1/2 HP	71B5	110	130	160	14	14	14	14	14	14	14	14	+	+	+	-
		71B14	70	85	105												
	1/4 HP	63B5	95	115	140	-	-	-	-	-	-	-	11	11	11	11	+
NMRV063	2 HP	90B5	130	165	200	-	24	24	24	+	+	+	-	-	-	-	-
		90B14	95	115	140												
	1 HP	80B5	130	165	200	-	19	19	19	19	19	19	19	+	+	+	+
		80B14	80	100	120												
	1/2 HP	71B5	110	130	160	-	-	-	-	-	-	-	14	14	14	14	+
NMRV075	3 HP/5 HP	100B5/112	180	215	250	-	28	28	28	-	-	-	-	-	-	-	-
		100B14/112	110	130	160												
	2 HP	90B5	130	165	200	-	24	24	24	24	24	24	+	-	-	-	-
		90B14	95	115	140												
	1 HP	80B5	130	165	200	-	-	-	-	19	19	19	19	19	19	+	+
NMRV090	5 HP	112B5	180	215	250	-	28	28	28	+	+	+	-	-	-	-	-
		112B14	110	130	160												
	3 HP	100B5	180	215	250	-	28	28	28	28	28	28	-	-	-	-	-
		100B14	110	130	160												
	2 HP	90B5	130	165	200	-	24	24	24	24	24	24	24	+	+	-	-
NMRV110	10 HP	132B5	230	265	300	-	38	38	38	+	-	-	-	-	-	-	-
		132B14	230	265	300	-	38	38	38	38	38	38	38	38	38	38	38
	7.5 HP	112B5	180	215	250	-	28	28	28	28	28	28	28	28	28	28	28
	5 HP	100B5	180	215	250	-	28	28	28	28	28	28	28	28	28	28	28
	3 HP	90B5	130	165	200	-	-	-	-	-	-	24	24	24	24	+	+
NMRV130	10 HP	132B5	230	265	300	-	38	38	38	38	38	38	38	38	38	38	38
		132B14	230	265	300	-	38	38	38	38	38	38	38	38	38	38	38
	7.5 HP	112B5	180	215	250	-	-	-	-	-	28	28	28	28	28	28	28
	5 HP	100B5	180	215	250	-	-	-	-	-	28	28	28	28	28	28	28
	3 HP	90B5	130	165	200	-	-	-	-	-	-	-	-	-	-	24	24
NMRV150	15 HP	160B5	250	300	350	-	42	42	42	42	+	-	-	-	-	-	-
		160B14	250	300	350	-	42	42	42	42	42	42	42	42	42	42	42
	10 HP	132B5	230	265	300	-	-	-	-	38	38	+	38	+	+	-	-
	7.5 HP	112B5	180	215	250	-	-	-	-	38	38	38	38	38	38	38	38
	5 HP	100B5	180	215	250	-	-	-	-	-	-	-	-	28	28	28	28

※ The above Hp is for motor flange sizes, refer to selection table for accurate selection of model. 上述馬達是安裝法蘭尺寸，請依對照表選型。

※ (+) Refer to Motor-Ratio combination out of warranty terms due to service factor. (+)符號為此馬達減速比組合安全係數低於1,超出保固範圍。

NMRV Performances Table 性能表



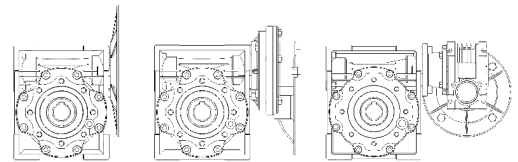
NMRV

PC- NMRV

NMRV- NMRV

HP (kW)	Frame Size 型號	Ratio 減速比 i	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Service Factor 安全係數 SF	Dia. Pg. 尺寸 頁數	PAM 馬達盤 IEC Motor	Frame Size 型號	Ratio 減速比 i	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Service Factor 安全係數 SF	Dia. Pg. 尺寸 頁數	PAM 馬達盤 IEC Motor
1/8HP4P (0.09kW)	NMRV 030	5	597	2.7	6.7	168	56B5 56B14	NMRV 040	50	2475	19	2	168	56B5 56B14
		7.5	683	3.9	4.6	168			60	2630	21	1.7	168	
		10	752	5	3.6	168			80	2895	26	1.3	168	
		15	861	7.1	2.5	168			100	3118	29	1	168	
		20	948	9	2	168		NMRV 030-040	300	3490	88	0.8	169	
		25	1021	10	2	168			400	4840	107	1.2	169	
		30	1085	12	1.7	168		NMRV 030-050	500	4840	123	1	169	
		40	1194	14	1.2	168			600	4840	159	0.9	169	
		50	1286	17	1	168			750	4840	185	0.8	169	
		60	1367	19	0.9	168			900	4840	212	0.7	169	
	NMRV 025-030	100	1620	38	0.8	169		NMRV 030-063	900	6270	200	1	169	
		150	1830	49	0.6	169			1200	6270	263	0.9	169	
		200	1830	62	0.5	169			1500	6270	305	0.7	169	
		250	1830	66	0.5	169		NMRV 040-075	1500	7380	360	1.1	169	
		300	1830	75	0.4	169			1800	7380	404	1	169	
		400	1830	107	0.3	169			2400	7380	496	0.7	169	
		500	1830	115	0.3	169		NMRV 040-090	3000	8180	609	0.9	169	
		600	1830	135	0.2	169			4000	8180	548	0.8	169	
		750	1830	151	0.2	169			-	-	-	-	-	
		900	1830	178	0.2	169			-	-	-	-	-	
		1200	1830	212	0.1	169			-	-	-	-	-	
		1500	1830	247	0.1	169			-	-	-	-	-	
		1800	1830	304	0.1	169			-	-	-	-	-	
		2400	1830	340	0.1	169			-	-	-	-	-	
		3000	1830	405	0.1	169			-	-	-	-	-	
1/4HP4P (0.18kW)	NMRV 030	5	597	5.3	3.4	168	63B5 63B14 71B5 71B14	PC063- NMRV 050	75	3889	64	1.4	171	63B5 63B14
		7.5	683	7.8	2.3	168			90	4132	71	1.5	171	
		10	752	10	1.8	168			120	4548	87	1.1	171	
		15	861	14	1.3	168			150	4840	101	0.9	171	
		20	948	18	1	168			180	4840	113	0.7	171	
		25	1021	21	1	168			240	4840	133	0.6	171	
	NMRV 040	30	1085	24	0.8	168		PC063- NMRV 063	150	6270	103	1.7	171	
		20	1824	19	2	168			180	6270	117	1.4	171	
		25	1964	23	1.7	168			240	6270	139	1	171	
		30	2087	26	1.7	168			300	6270	155	0.8	171	
		40	2298	32	1.3	168		NMRV 030-063	400	6270	222	1	169	
		50	2475	38	1	168			500	6270	257	0.8	169	
	PC063- NMRV 040	60	2630	43	0.8	168			600	7380	362	1.1	169	
		75	2833	64	0.8	171		NMRV 040-075	750	7380	435	0.9	169	
		90	3011	70	0.8	171			900	7380	487	0.8	169	
		120	3314	85	0.6	171			1200	8180	629	1	169	
1/2HP4P (0.37kW)	NMRV 040	40	3153	33	2.3	168		NMRV 040-090	1500	8180	735	0.8	169	
		50	3397	39	1.9	168			1800	10320	861	1.5	169	
		60	3610	43	1.6	168		NMRV 050-110	2400	10320	1113	1.1	169	
		80	3973	52	1.2	168			-	-	-	-	-	
		100	4280	60	0.9	168			-	-	-	-	-	
		5	1149	11	3	168	71B5 71B14	NMRV 050	10	1987	22	3.3	168	71B5 71B14
		7.5	1315	16	2.4	168			15	2274	31	2.4	168	
		10	1447	21	1.9	168			20	2503	40	1.8	168	
		15	1657	21	1.3	168			25	2696	48	1.5	168	
		20	1824	39	1	168			30	2865	55	1.5	168	
		25	1964	47	0.8	168			40	3153	68	1.1	168	
		30	2087	53	0.8	168			50	3397	80	0.9	168	
		-	-	-	-	-			60	3610	89	0.8	168	

NMRV Performances Table 性能表



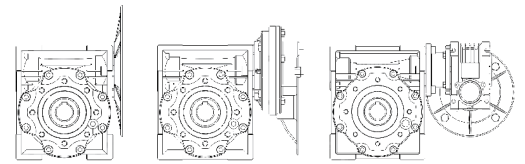
NMRV

PC-NMRV

NMRV-NMRV

HP (kW)	Frame Size 型號	Ratio 減速比 i	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Service Factor 安全係數 SF	Dia. Pg. 尺寸 頁數	PAM 馬達盤 IEC Motor	Frame Size 型號	Ratio 減速比 i	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Service Factor 安全係數 SF	Dia. Pg. 尺寸 頁數	PAM 馬達盤 IEC Motor	
1/2HP4P (0.37kW)	NMRV 063	40	4122	71	2.1	168	71B5 71B14	NMRV	300	7380	405	1	169	71B5 71B14	
		50	4440	83	1.6	168		040-075	400	7380	498	0.7	169		
		60	4719	94	1.4	168		PC071-	180	8180	238	1.5	171		
		80	5193	115	1.1	168		NMRV	240	8180	321	1.1	171		
		100	5595	129	0.9	168		090	300	8180	371	0.9	171		
	PC071- NMRV 063	75	5083	134	1.2	171		NMRV	300	8180	402	1.5	169		
		90	5401	148	1.4	171			040-090	400	8180	523	1.2		169
		120	5945	185	1	171			500	8180	611	0.9	169		
		150	6270	212	0.8	171			600	8180	757	0.8	169		
	NMRV 075	60	5569	98	2	168		NMRV	750	10320	950	1.3	169		
		80	6130	121	1.6	168			050-110	900	10320	1079	1.2		169
		100	6603	139	1.3	168			1200	10320	1396	0.8	169		
		75	6000	138	1.8	171			NMRV	1500	13500	1674	1.1		169
	PC071- NMRV 075	90	6375	154	1.9	171		063-130		1800	13500	1887	0.9		169
		120	7017	191	1.5	171		NMRV		1800	18000	1775	1.2		169
		150	7380	223	1.1	171				063-150	2400	18000	2141		1.2
		180	7380	254	0.9	171			3000	18000	1535	0.9	169		
1HP4P (0.75kW)		NMRV 050	5	1577	23	2.7	168	80B5 80B14	PC080- NMRV 090	84	7054	327	1.7	171	80B5 80B14
	7.5		1805	34	2.1	168	112			7764	405	1.2	171		
	10		1987	44	1.6	168	140			8180	483	0.9	171		
	15		2274	63	1.2	168	168			8180	543	0.7	171		
	20		2503	81	0.9	168	NMRV		80	8571	274	1.9	168		
	NMRV 063	15	2973	64	2.2	168			100	9232	322	1.5	168		
		20	3272	83	1.6	168	PC080- NMRV 110		112	9811	430	2.2	171		
		25	3524	100	1.3	168			140	10320	506	1.7	171		
		30	3745	114	1.4	168			168	10320	580	1.3	171		
	40	4122	143	1	168	224			10320	700	0.9	171			
	NMRV 075	25	4160	102	2	168	NMRV		300	10320	871	1.5	169		
		30	4421	117	2	168			050-110	400	10320	1126	1.1	169	
		40	4865	147	1.5	168			PC080- NMRV 130	224	13500	712	1.4	171	
		50	5241	177	1.2	168			280	13500	813	1.1	171		
		PC080- NMRV 075	60	5569	200	1	168		NMRV	500	13500	1358	1.1	169	
	70		6000	280	0.9	171	600			13500	1631	1	169		
	84		6375	313	1	171	750			13500	2005	0.9	169		
	NMRV 090	50	5799	184	1.8	168	NMRV		900	13500	2283	0.8	169		
		60	6163	212	1.5	168			500	18000	1291	1.8	169		
80		6783	258	1.1	168	600		18000	1529	1.7	169				
100		7306	302	0.9	168	750		18000	1783	1.3	169				
-		-	-	-	-	900		18000	2215	0.9	169				
-		-	-	-	-	1200		18000	2680	1	169				
-		-	-	-	-	-		-	-	-	-	-			
2HP4P (1.5kW)	NMRV 063	7.5	2359	68	1.9	168	90B5 90B14	NMRV	40	6803	319	2.2	168	90B5 90B14	
		10	2597	89	1.5	168			50	7328	384	1.7	168		
		15	2973	127	1.1	168			60	7787	442	1.4	168		
		20	3272	166	0.8	168			80	8571	548	0.9	168		
	NMRV 075	10	3065	90	2.2	168		PC090- NMRV 110	61.3	8298	535	1.9	171		
		15	3509	130	1.5	168			73.5	9133	693	1.3	171		
		20	3862	168	1.3	168			98	9838	817	1.1	171		
		25	4160	205	1	168			122.5	10320	936	0.8	171		
		30	4421	233	1	168			80	11210	557	1.5	168		
		20	4273	172	2.1	168			NMRV	100	12076	655	1.1		168
		25	4603	210	1.6	168				PC090- NMRV 130	61.3	10853	542		2.6
	30	4891	239	1.7	168	73.5		11945			693	1.9	171		
	40	5383	307	1.2	168	98		12868	830		1.5	171			
	50	5799	368	0.9	168	122.5		13500	936		1.1	171			
	60	6163	424	0.8	168	147		13500	1149	0.8	171				

NMRV Performances Table 性能表

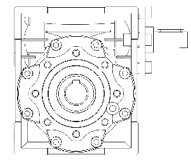


NMRV

PC- NMRV

NMRV- NMRV

HP (kW)	Frame Size 型號	Ratio 減速比 i	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Service Factor 安全係數 SF	Dia. Pg. 尺寸 頁數	PAM 馬達盤 IEC Motor	Frame Size 型號	Ratio 減速比 i	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Service Factor 安全係數 SF	Dia. Pg. 尺寸 頁數	PAM 馬達盤 IEC Motor	
2HP4P (1.5kW)	NMRV 063-130	300	13500	1789	1	169	90B5 90B14	NMRV 063-150	150	18000	1026	2.3	169	90B5 90B14	
		400	13500	2279	0.7	169			200	18000	1317	1.8	169		
		-	-	-	-	-			250	18000	1602	1.3	169		
		-	-	-	-	-			300	18000	1860	1.3	169		
		-	-	-	-	-			400	18000	2208	1.2	169		
		-	-	-	-	-			500	18000	2582	0.9	169		
		-	-	-	-	-			600	18000	3057	0.9	169		
3HP4P (2.2KW)	NMRV 075	7.5	2785	100	1.8	168	100B5 100B14	NMRV 110	20	5399	255	2.5	168	100B5	
		10	3065	132	1.5	168			25	5816	315	2.2	168		
		15	3509	191	1	168			30	6181	356	2	168		
	NMRV 090	7.5	3081	101	2.9	168			40	6803	468	1.5	168		
		10	3391	134	2.3	168			50	7328	563	1.2	168		
		15	3882	194	1.9	168			60	7787	648	1	168		
	NMRV 130	20	4273	252	1.4	168		40	8897	468	2.2	168			
		25	4603	308	1.1	168		50	9584	563	1.7	168			
		30	4891	351	1.2	168		60	10185	648	1.4	168			
		NMRV 150	-	-	-	-		-	80	11210	816	1	168		
			-	-	-	-		-	50	13103	570	2.5	168		
	-		-	-	-	-		60	13924	657	1.9	168			
	-		-	-	-	-		80	15325	816	1.4	168			
	-	-	-	-	-	100		16508	960	1	168				
5.5HP4P (4KW)	NMRV 090	7.5	3081	184	1.6	168	112B5 112B14	NMRV 130	25	7607	573	1.6	168	112B5	
		10	3391	243	1.3	168			30	8084	655	1.6	168		
		15	3882	352	1	168			40	8897	851	1.2	168		
		20	4273	458	0.8	168			50	9584	1023	1	168		
	NMRV 110	10	4285	243	2.5	168	60		10185	1179	0.8	168			
		15	4905	352	1.9	168	50		13103	1037	1.4	168			
		20	5399	464	1.4	168	60	13924	1195	1.1	168				
		25	5816	573	1.2	168	80	15325	1484	0.8	168				
		30	6181	647	1.1	168	-	-	-	-	-				
7.5HP4P (5.5KW)	NMRV 110	7.5	3893	253	2.2	168	132B5	NMRV 150	20	9654	645	2	168	132B5	
		10	4285	334	1.8	168			25	10400	788	1.5	168		
		15	4905	484	1.4	168			30	11051	934	1.3	168		
		20	5399	638	1	168			40	12163	1171	1.3	168		
	NMRV 130	10	5605	334	2	168			50	13103	1426	1	168		
		15	6416	490	1.9	168			60	13924	1643	0.8	168		
		20	7062	645	1.4	168			-	-	-	-	-		
		25	7607	788	1.2	168			-	-	-	-	-		
		30	8084	900	1.2	168			-	-	-	-	-		
		40	8897	1171	0.9	168			-	-	-	-	-		
10HP4P (7.5KW)	NMRV 110	7.5	3893	345	1.6	168	132B5	NMRV 150	20	9654	880	1.5	168	132B5	
		10	4285	455	1.3	168			25	10400	1074	1.1	168		
		15	4905	660	1	168			30	11051	1274	0.9	168		
	NMRV 130	7.5	5092	349	2.1	168			40	12163	1596	1	168		
		10	5605	455	1.8	168			-	-	-	-	-		
		15	6416	668	1.4	168			-	-	-	-	-		
		20	7062	880	1	168			-	-	-	-	-		
		25	7607	1074	0.9	168			-	-	-	-	-		
		30	8084	1228	0.8	168			-	-	-	-	-		
		40	8897	1596	0.7	168			-	-	-	-	-		
15HP4P (11KW)	NMRV 150	7.5	6962	512	2.3	168	160B5		-	-	-	-	-		
		10	7663	675	1.8	168			-	-	-	-	-		
		15	8771	990	1.3	168			-	-	-	-	-		
		20	9654	1291	1	168			-	-	-	-	-		
		25	10400	1576	0.8	168			-	-	-	-	-		
20HP4P (15kW)	NMRV 150	7.5	6962	698	1.7	168	160B5		-	-	-	-	-		
		10	7663	921	1.3	168			-	-	-	-	-		
		15	8771	1351	0.9	168			-	-	-	-	-		



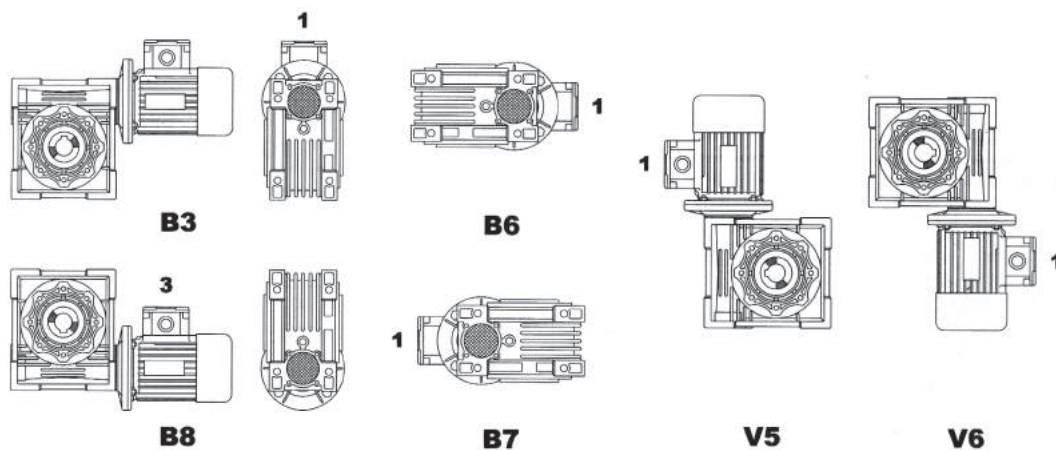
NRV

NRV Performances Table 性能表

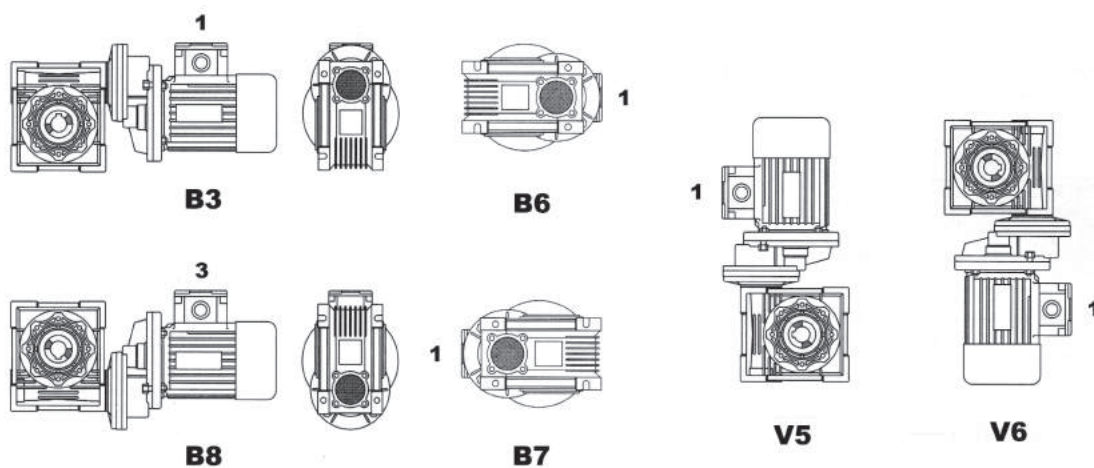
Frame Size 型號	Ratio 減速比 i	Input Power 輸入功率 P1 (kW)	Input Radial Load 輸入徑向負荷 Fr1 (N)	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Dia. Pg. 尺寸 頁數	Frame Size 型號	Ratio 減速比 i	Input Power 輸入功率 P1 (kW)	Input Radial Load 輸入徑向負荷 Fr1 (N)	Output Radial Load 輸出徑向負荷 Fr2 (N)	Output Torque 輸出扭矩 M2 (Nm)	Dia. Pg. 尺寸 頁數
NRV 030	5	0.61	150	597	18	170	NRV 040	5	1.1	250	1149	34	170
	7.5	0.41	150	683	18	170		7.5	0.90	294	1315	40	170
	10	0.32	169	752	18	170		10	0.69	331	1447	40	170
	15	0.23	169	861	18	170		15	0.48	331	1657	40	170
	20	0.18	190	948	18	170		20	0.37	350	1824	39	170
	25	0.18	210	1021	21	170		25	0.30	350	1964	38	170
	30	0.15	210	1085	20	170		30	0.31	350	2087	45	170
	40	0.11	210	1194	18	170		40	0.23	350	2298	41	170
	50	0.09	210	1286	17	170		50	0.18	350	2475	39	170
	60	0.08	210	1367	16	170		60	0.15	350	2630	36	170
	80	0.05	210	1504	13	170		80	0.12	350	2895	33	170
	100	0.05	210	1504	13	170		100	0.09	350	3118	29	170
NRV 050	5	2.0	350	1577	62	170	NRV 063	7.5	2.8	500	2359	128	170
	7.5	1.6	401	1805	71	170		10	2.2	571	2597	130	170
	10	1.2	490	1987	72	170		15	1.6	615	2973	140	170
	15	0.88	490	2274	74	170		20	1.2	667	3272	135	170
	20	0.68	490	2503	73	170		25	1.0	700	3524	130	170
	25	0.54	490	2696	70	170		30	1.1	700	3745	160	170
	30	0.57	490	2865	84	170		40	0.76	700	4122	145	170
	40	0.42	490	3153	76	170		50	0.60	700	4440	135	170
	50	0.34	490	3397	73	170		60	0.51	700	4719	130	170
	60	0.28	490	3610	68	170		80	0.39	700	5193	122	170
	80	0.22	490	3973	65	170		100	0.34	700	5595	118	170
	100	0.16	490	4280	55	170		7.5	6.3	900	3081	290	170
NRV 075	7.5	4.1	700	2785	185	170	NRV 090	10	5.1	1082	3391	310	170
	10	3.2	830	3065	195	170		15	4.1	1257	3882	360	170
	15	2.3	851	3509	200	170		20	3.1	1270	4273	355	170
	20	1.9	980	3862	210	170		25	2.4	1270	4603	340	170
	25	1.5	980	4160	200	170		30	2.6	1270	4891	410	170
	30	1.5	980	4421	230	170		40	1.8	1270	5383	360	170
	40	1.1	980	4865	220	170		50	1.4	1270	5799	340	170
	50	0.89	980	5241	210	170		60	1.1	1270	6163	320	170
	60	1.75	980	5569	200	170		80	0.83	1270	6783	285	170
	80	0.58	980	6130	190	170		100	0.67	1270	7306	270	170
	100	0.48	980	6603	180	170		7.5	16.1	1500	5092	750	170
	100	0.48	980	6603	180	170		10	13.5	1845	5605	820	170
NRV 110	10	9.8	1463	4285	598	170	NRV 130	15	10.3	2070	6416	920	170
	15	7.5	1604	4905	656	170		20	7.8	2100	7062	910	170
	20	5.6	1700	5399	644	170		25	6.5	2100	7607	930	170
	25	4.7	1700	5816	679	170		30	6.4	2100	8084	1040	170
	30	4.5	1700	6181	725	170		40	4.9	2100	8897	1050	170
	40	3.3	1700	6803	702	170		50	3.8	2100	9584	980	170
	50	2.6	1700	7328	660	170		60	3.1	2100	10185	900	170
	60	2.1	1700	7787	616	170		80	2.3	2100	11210	840	170
	80	1.4	1700	8571	515	170		100	1.7	2100	12076	740	170
	100	1.1	1700	9232	483	170		-	-	-	-	-	-
	100	1.1	1700	9232	483	170		-	-	-	-	-	-
	100	1.1	1700	9232	483	170		-	-	-	-	-	-
NRV 150	7.5	25.8	1950	6962	1200	170	NRV 150	-	-	-	-	-	-
	10	20.2	2267	7663	1240	170		-	-	-	-	-	-
	15	13.9	2285	8771	1250	170		-	-	-	-	-	-
	20	11.1	2674	9654	1300	170		-	-	-	-	-	-
	25	8.4	2800	10400	1200	170		-	-	-	-	-	-
	30	7.1	2800	11051	1200	170		-	-	-	-	-	-
	40	7.3	2800	12163	1550	170		-	-	-	-	-	-
	50	5.4	2800	13103	1400	170		-	-	-	-	-	-
	60	4.2	2800	13924	1260	170		-	-	-	-	-	-
	80	3.1	2800	15325	1150	170		-	-	-	-	-	-
	100	2.3	2800	16508	1000	170		-	-	-	-	-	-
	100	2.3	2800	16508	1000	170		-	-	-	-	-	-

Operation Direction 使用方向 ④

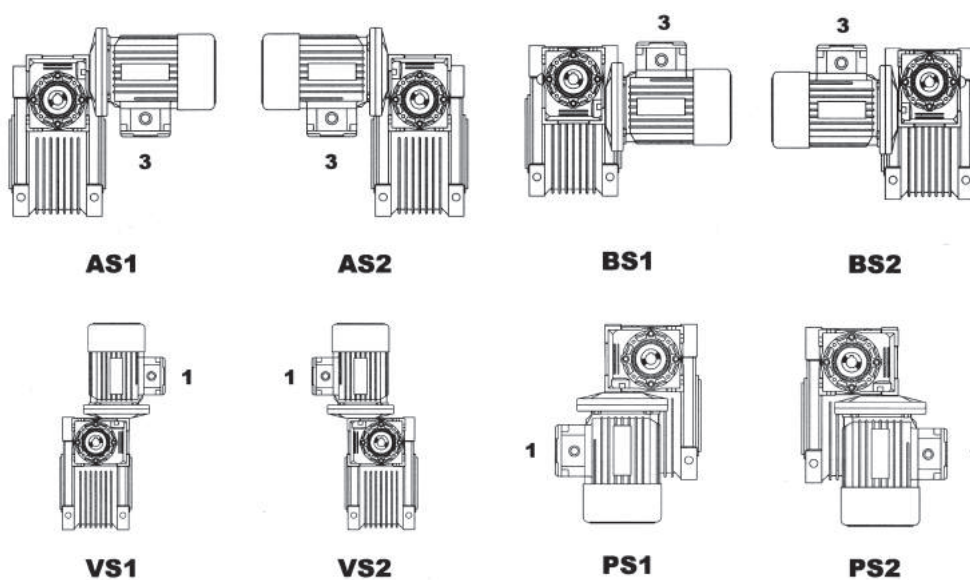
NMRV / NRV / NMHV / NHV



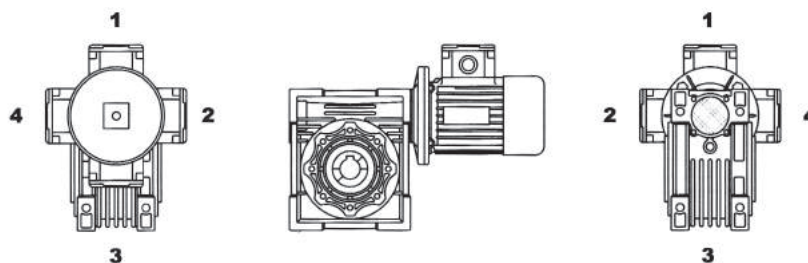
PC-NMRV



NMRV-NMRV / NRV-NMRV

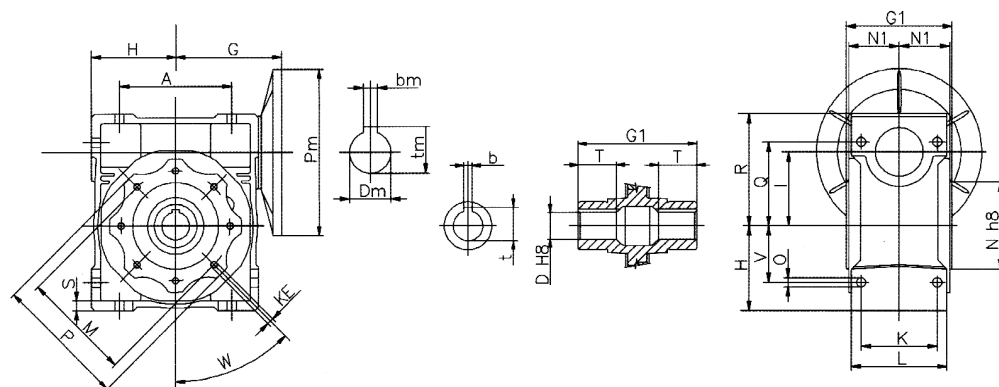


Terminal box 電機接線盒



NMRV Worm Gear With IEC Motor Adaptor 萬向蝸輪減速機 附入力法蘭型

Dimensions 外型尺寸表



CAD 尺寸
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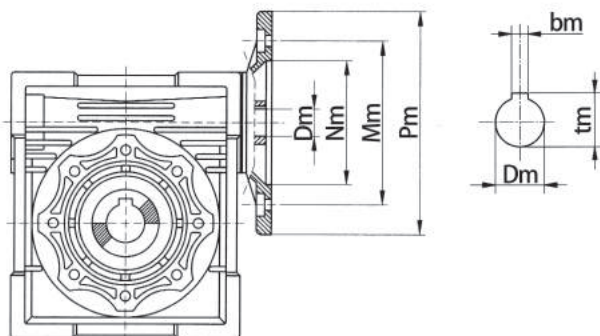
Frame Size 型號	A	G	H	I	K	KE	L	M	N	N1	O	P	Q	R	S	V	W	Output Bore 出力孔					kg
																		D	t	b	T	G1	
NMRV025	45	45	35	25	34	6.5(3)	42	55	45 ^{h9}	22.5	6	-	33.5	48	5	22.5	100°	11	12.8	4	16	50	0.7
NMRV030	54	55	40	30	44	M6x11(4)	56	65	55	29	6.5	75	44	57	5.5	27	0°	14	16.3	5	21	63	1.2
NMRV040	70	70	50	40	60	M6x10(4)	71	75	60	36.5	6.5	87	55	71.5	6.5	35	45°	18(19)	20.8(21.8)	6	26	78	2.3
NMRV050	80	80	60	50	70	M8x10(4)	85	85	70	43.5	8.5	100	64	84	7	40	45°	25(24)	28.3(27.3)	8	30	92	3.5
NMRV063	100	95	72	63	85	M8x14(8)	103	95	80	53	8.5	110	80	102	8	50	45°	25(28)	28.3(31.3)	8	36	112	6.2
NMRV075	120	112.5	86	75	90	M8x14(8)	112	115	95	57	11.5	140	93	119	10	60	45°	28(35)	31.3(38.3)	8(10)	40	120	9
NMRV090	140	129.5	103	90	100	M10x18(8)	130	130	110	67	13	160	102	135	11	70	45°	35(38)	38.3(41.3)	10	45	140	13
NMRV110	170	160	127.5	110	115	M10x18(8)	144	165	130	74	14	200	125	167.5	14.5	85	45°	42	45.3	12	50	155	35
NMRV130	200	180	147.5	130	120	M12x21(8)	155	215	180	81	16	250	140	187.5	15.5	100	45°	45	48.8	14	60	170	48
NMRV150	240	210	170	150	145	M12x21(8)	185	215	180	96	18	250	180	230	18	120	45°	50	53.8	14	72.5	200	84

※ () Custom Size. 訂製規格

※ kg: Weight not include motor. 重量 (不含馬達)

IEC Pam Motor Flange 馬達盤

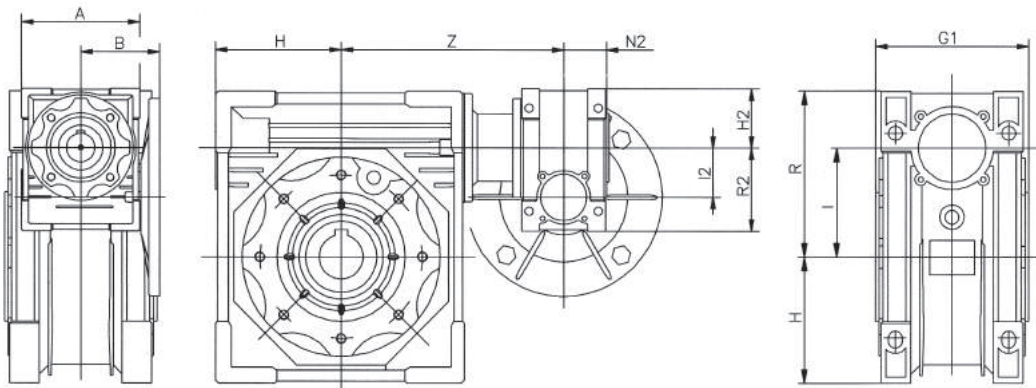
Dimensions 外型尺寸表



IEC	B5 Flange 法蘭			B14 Flange 法蘭			Input Bore 入力孔		
	Pm	Nm	Mm	Pm	Mm	Nm	Dm	bm	tm
056	120	80	100	80	65	50	9	3	10.4
063	140	95	115	90	75	60	11	4	12.8
071	160	110	130	105	85	70	14	5	16.3
080	200	130	165	120	100	80	19	6	21.8
090	200	130	165	140	115	95	24	8	27.3
100	250	180	215	160	130	110	28	8	31.3
112	250	180	215	160	130	110	28	8	31.3
132	300	230	265	200	-	-	38	10	41.3
160	350	250	300	-	-	-	42	12	45.3

NMRV-NMRV Double Stage Worm Gear With IEC Motor Adaptor 雙段附入力法蘭型

Dimensions 外型尺寸表



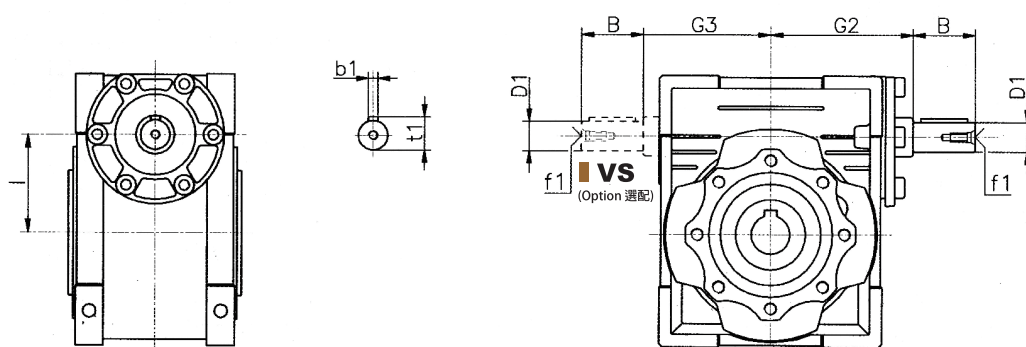
Frame Size 型號	A	B	G1	H	I	R	H2	I2	N2	R2	Z	kg
NMRV025-030	70	45	63	40	30	57	35	25	22.5	48	100	1.9
NMRV025-040	70	45	78	50	40	71.5	35	25	22.5	48	115	3
NMRV030-040	80	55	78	50	40	71.5	40	30	29	57	122	3.5
NMRV030-050	80	55	92	60	50	84	40	30	29	57	132	4.7
NMRV030-063	80	55	112	72	63	102	40	30	29	57	145	7.4
NMRV040-075	100	70	120	86	75	119	50	40	36.5	71.5	167.5	11.3
NMRV040-090	100	70	140	103	90	135	50	40	36.5	71.5	184.5	15.3
NMRV050-105	120	80	155	127.5	110	167.5	60	50	43.5	84	226	24.5
NMRV050-110	120	80	155	127.5	110	167.5	60	50	43.5	84	226	38.5
NMRV063-130	144	95	170	147.5	130	187.5	72	63	53	102	245	54.2
NMRV063-150	144	95	200	170	150	230	72	63	53	102	275	90.2

※ For more detailed dimensions refer to NMRV Dimension (Page168). 其它詳細尺寸請參考 NMRV 尺寸圖(168 頁)。

※ kg Weight not include motor. 重量 (不含馬達)。

NRV Worm Gear With Input Shaft 附入力軸型

Dimensions 外型尺寸表

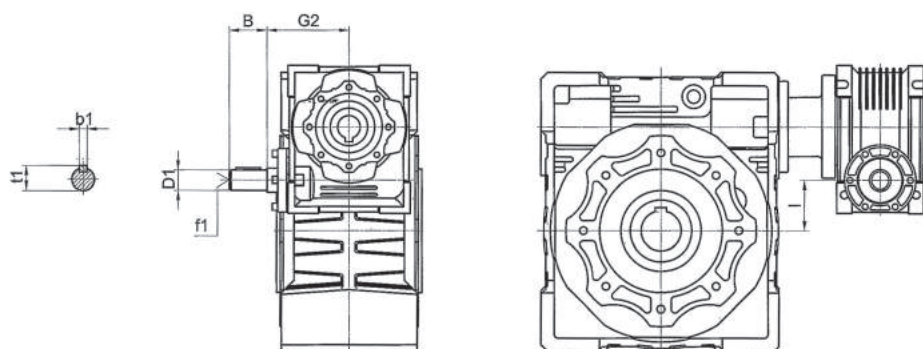


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Frame Size 型號	B	D1	G2	G3	I	b1	f1	t1
NRV025	20	9	38	37	25	3	-	10.2
NRV030	20	9	51	45	30	3	-	10.2
NRV040	23	11	60	53	40	4	-	12.5
NRV050	30	14	74	64	50	5	M6	16
NRV063	40	19	90	75	63	6	M6	21.5
NRV075	50	24	105	90	75	8	M8	27
NRV090	50	24	125	108	90	8	M8	27
NRV105	60	28	142	135	110	8	M10	31
NRV110	60	28	142	135	110	8	M10	31
NRV130	80	30	162	155	130	8	M10	33
NRV150	80	35	195	175	150	10	M12	38

NRV-NMRV Double Stage Worm Gear With Input Shaft 雙段附入力軸型

Dimensions 外型尺寸表



gear.fyi/nrm

Frame Size 型號	B	D1	G2	I	b1	f1	t1
NRV030-040	20	9	51	10	3	-	10.2
NRV030-050	20	9	51	20	3	-	10.2
NRV030-063	20	9	51	33	3	-	10.2
NRV040-075	23	11	60	35	4	-	12.5
NRV040-090	23	11	60	50	4	-	12.5
NRV050-105	30	14	74	60	5	M6	16
NRV050-110	30	14	74	60	5	M6	16
NRV063-130	40	19	90	67	6	M6	21.5
NRV063-150	40	19	90	87	6	M6	21.5

※ For more detailed dimensions refer to NMRV Dimension (Page168). 其它詳細尺寸請參考 NMRV 尺寸圖(168 頁)。

PC-NMRV Helical – Worm Gear With IEC Motor Adaptor 斜齒輪附入力法蘭型

Dimensions 外型尺寸表

The PC construction is modular and therefore it can be supplied as separate unit to be mounted on any type of fitted geared motor (PAM). In this connection, the various possibilities of flange/output shafts can be found on page 172~173.

Fitting the pre-stage helical module on the main reduction unit is easily done as for any motor of type B14. The Pre-stage unit cannot be used by itself, but only coupled with another reduction unit.

Materials

Case in aluminium alloy.

Gears in case hardened, tempered steel 20CrMnTi accurately

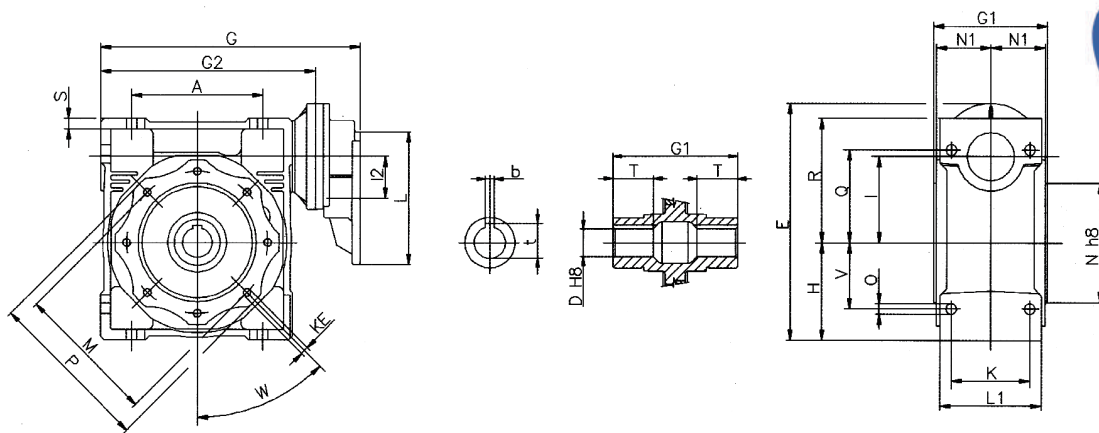
PC 結構是一種標準元件(模組)的產品，因此他可與任何型號的齒輪電機組合，組合使用時，各種不同的法蘭/輸出軸可以參見第 172~173 頁。

前置減速裝置主要適合用於安裝方式為 B14 的所有馬達。該裝置不能單獨使用，只能與減速機配套使用。

材料

壓鑄鋁合金外殼

回火鋼 20CrMnTi 表層硬化齒輪，精密漸開線齒形。



gear.fyi/pcc

Frame Size 型號		A	E	G	G2	H	I	I2	L	L1	K	KE	M	N	N1	O	P	Q	R	S	V	W	Output Bore 出力孔						kg
																							D	t	b	T	G1		
PC063 - NMRV	040	70	147	167	120	50	40	43	140	71	60	M6x10(4)	75	60	365	65	87	55	715	65	35	45°	18	208	6	26	78	34	
	050	80	168	187	140	60	50	43	140	85	70	M8x10(4)	85	70	435	85	100	64	84	7	40	45°	25	283	8	30	92	46	
	063	100	192	214	167	72	63	43	140	103	85	M8x14(8)	95	80	53	85	110	80	102	8	50	45°	25	283	8	36	112	73	
PC071 - NMRV	050	80	177.5	200	140	60	50	54	160	85	70	M8x10(4)	85	70	435	85	100	64	84	7	40	45°	25	283	8	30	92	53	
	063	100	202.5	227	167	72	63	54	160	103	85	M8x14(8)	95	80	53	85	110	80	102	8	50	45°	25	283	8	36	112	80	
	075	120	228.5	258.5	198.5	86	75	54	160	112	90	M8x14(8)	115	95	57	115	140	93	119	10	60	45°	28	313	8	40	120	108	
	090	140	260.5	292.5	232.5	103	90	54	160	130	100	M10x18(8)	130	110	67	13	160	102	135	11	70	45°	35	383	10	45	140	148	
PC080 / PC090 - NMRV	075	120	241	275.5	198.5	86	75	66	200	112	90	M8x14(8)	115	95	57	115	140	93	119	10	60	45°	28	313	8	40	120	127	
	090	140	273	309.5	232.5	103	90	66	200	130	100	M10x18(8)	130	110	67	13	160	102	135	11	70	45°	35	383	10	45	140	167	
	110	170	317.5	364.5	287.5	127.5	110	66	200	144	115	M10x18(8)	165	130	74	14	200	125	167.5	14.5	85	45°	42	453	12	50	155	387	
	130	200	357.5	404.5	327.5	147.5	130	66	200	155	120	M12x21(8)	215	180	81	16	250	140	187.5	15.5	100	45°	45	488	14	60	170	547	

※ kg: Motor weight is not included. 重量不含馬達。

combinations 組合方式



gear.fyi/pcc

More possible combinations.
組合方式請參閱 QR code 內資訊

Output Flange 出力法蘭

Dimensions 外型尺寸表

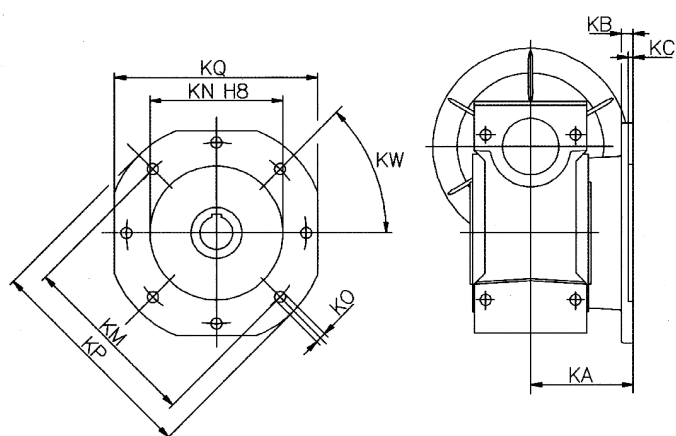


Fig. 圖 1

Fig. 圖 2

Direction 方向

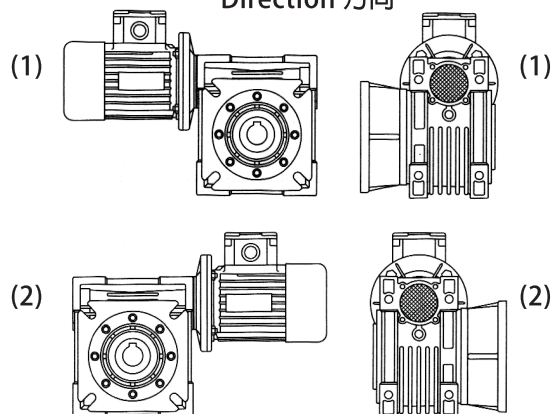
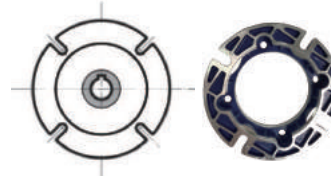
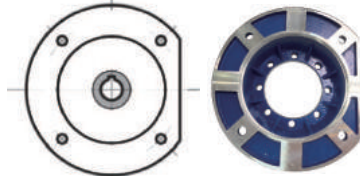
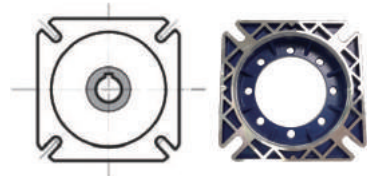


Fig. 圖 3



gear.fyi/fab

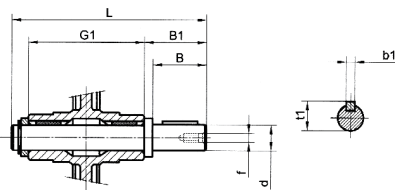
Frame Size 型號		025	030	040	050	063	075	090	110	130	150
FA	KA	45	54.5	67	90	82	111	111	131	140	155
	KB	6	6	7	9	10	13	13	15	15	15
	KC	3	4	4	5	6	6	6	6	6	6
	KN	40	50	60	70	115	130	152	170	180	180
	KM	55	68	75	85	150	165	175	230	255	255
	KO	6.5(N° 4)	6.5(N° 4)	9(N° 4)	11(N° 4)	11(N° 4)	14(N° 4)	14(N° 4)	14(N° 8)	16(N° 8)	16(N° 8)
	KP	75	80	110	125	180	200	210	280	320	320
	KQ	70	70	95	110	142	170	200	260	290	290
	KW	45°	45°	45°	45°	45°	45°	45°	45°	22.5°	22.5°
	Fig. 圖	1	1	1	1	1	1	1	1	1	1
FB	KA	-	-	97	120	112	90	122	180	-	-
	KB	-	-	7	9	10	13	18	15	-	-
	KC	-	-	4	5	6	6	6	6	-	-
	KN	-	-	60	70	115	110	180	170	-	-
	KM	-	-	75	85	150	130	215	230	-	-
	KO	-	-	9(N° 4)	11(N° 4)	11(N° 4)	14(N° 4)	14(N° 4)	14(N° 8)	-	-
	KP	-	-	110	125	180	160	250	280	-	-
	KQ	-	-	95	110	142	-	-	260	-	-
	KW	-	-	45°	45°	45°	45°	45°	45°	-	-
	Fig. 圖	-	-	1	1	1	3	2	1	-	-
FC	KA	-	-	80	89	98	-	110	-	-	-
	KB	-	-	9	10	10	-	17	-	-	-
	KC	-	-	5	5	5	-	6	-	-	-
	KN	-	-	95	110	130	-	130	-	-	-
	KM	-	-	115	130	165	-	165	-	-	-
	KO	-	-	9.5(N° 4)	9.5(N° 4)	11(N° 4)	-	11(N° 4)	-	-	-
	KP	-	-	140	160	200	-	200	-	-	-
	KQ	-	-	45°	45°	45°	-	45°	-	-	-
	KW	-	-	45°	45°	45°	-	45°	-	-	-
	Fig. 圖	-	-	2	2	2	-	3	-	-	-
FD	KA	-	-	58	72	107	-	151	-	-	-
	KB	-	-	12	14.5	10	-	13	-	-	-
	KC	-	-	5	5	5	-	6	-	-	-
	KN	-	-	80	95	130	-	152	-	-	-
	KM	-	-	100	115	165	-	175	-	-	-
	KO	-	-	9(N° 4)	11(N° 4)	11(N° 4)	-	14(N° 4)	-	-	-
	KP	-	-	120	140	200	-	210	-	-	-
	KQ	-	-	45°	45°	45°	-	45°	-	-	-
	KW	-	-	45°	45°	45°	-	45°	-	-	-
	Fig. 圖	-	-	2	2	2	-	1	-	-	-
FE	KA	-	-	-	-	80.5	-	-	-	-	-
	KB	-	-	-	-	16.5	-	-	-	-	-
	KC	-	-	-	-	5	-	-	-	-	-
	KN	-	-	-	-	110	-	-	-	-	-
	KM	-	-	-	-	130	-	-	-	-	-
	KO	-	-	-	-	11(N° 4)	-	-	-	-	-
	KP	-	-	-	-	160	-	-	-	-	-
	KQ	-	-	-	-	45°	-	-	-	-	-
	KW	-	-	-	-	45°	-	-	-	-	-
	Fig. 圖	-	-	-	-	3	-	-	-	-	-

Output Shaft 出力軸

Dimensions 外型尺寸表

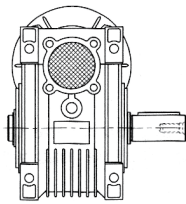
AS

(Option 選配)

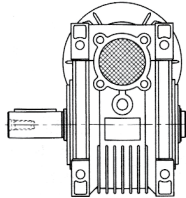


Direction 方向

(1)

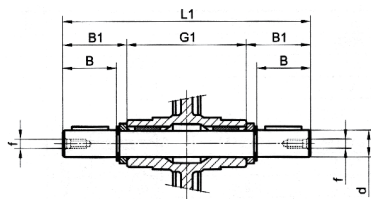


(2)

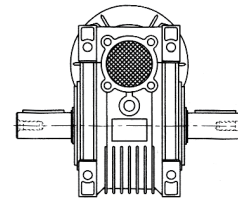


AB

(Option 選配)



Direction 方向



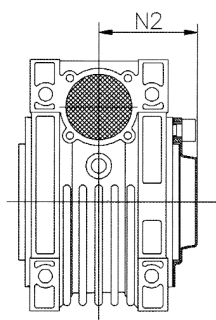
Frame Size 型號	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	-	4 (3)	12.5 (10.2)
030	14h6	30	32.5	63	102	128	M6	5	16
040	18h6	40	43	78	128	164	M6	6	20.5
050	25h6	50	53.5	92	153	199	M10	8	28
063	25h6	50	53.5	112	173	219	M10	8	28
075	28h6	60	63.5	120	192	247	M10	8	31
090	35h6	80	84.5	140	234	309	M12	10	38
105	42h6	80	84.5	155	249	324	M16	12	45
110	42h6	80	84.5	155	249	324	M16	12	45
130	45h6	80	85	170	265	340	M16	14	48.5
150	50h6	82	87	200	297	374	M16	14	53.5

※ () Custom Size. 訂製規格

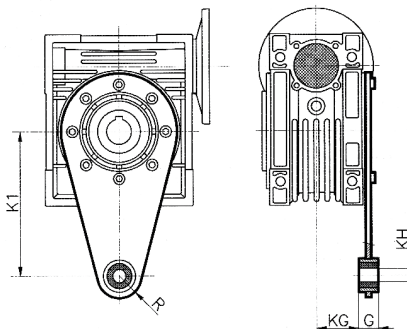
Output Cover / Torque Arm Dimensions 出力軸蓋/扭力臂尺寸表

Dimensions 外型尺寸表

OC: Output Cover 出力軸蓋



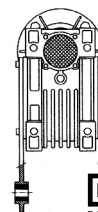
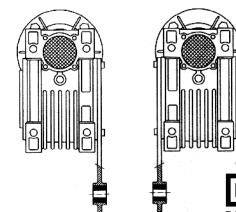
TA: Torque Arm 扭力臂



Direction 方向

(1)

(2)



Frame Size 型號	K1	G	KG	KH	R	N2
025	70	14	17.5	8	15	-
030	85	14	24	8	15	42
040	100	14	31.5	10	18	50
050	100	14	38.5	10	18	57.5
063	150	14	49	10	18	68.5
075	200	25	47.5	20	30	73.5
090	200	25	57.5	20	30	85.5
105	250	30	62	25	35	94
110	250	30	62	25	35	94
130	250	30	69	25	35	102
150	250	30	84	25	35	117

POWER TRANSMISSION INDEX

VARITRON®
Take Control In Speed

A1

Cycloidal Drive Reducer

賽驅樂減速機

HM



Pg.47

HX



Pg.55

H



Pg.61

VM



Pg.64

VX



Pg.72

V



Pg.78

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A2

RV Precision Cycloidal Gear

高精密擺線減速機

RV-E



Pg.84

RV-C



Pg.84

Page
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B1

Precision Planetary Gearbox

精密行星減速機

DA



Pg.91

DM



Pg.93

DF



Pg.95

DH



Pg.97

DL



Pg.99

DN



Pg.101

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RAM-S



Pg.103

RAM-SS



Pg.104

RAM-H



Pg.105

RAM-D



Pg.106

RAM-F



Pg.107

RAH-S



Pg.109

RAH-SS



Pg.110

RAH-H



Pg.111

RAH-D



Pg.112

RAH-F



Pg.113

B2

Planetary Gear Reducer

遊星式減速機

HF



Pg.121

VF



Pg.122

HS



Pg.123

VS



Pg.124

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C1

Compact Helical Gear Motor Reducers

小型齒輪減速機

GH



Pg.130

GHM



Pg.131

GHD



Pg.132

GV



Pg.133

GVM



Pg.134

GVD



Pg.135

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C2

Helical Gear Motor Reducers

齒輪減速機

AMH



Pg.138

ADH



Pg.139

AMV



Pg.140

ADV



Pg.141

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POWER TRANSMISSION INDEX

C3

SEW Type Gear Reducer

歐規齒輪減速機

K



Pg.143

S



Pg.144

R



Pg.145

F



Pg.146

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C4

Industrial Helical Bevel Gearbox

齒輪箱

H



Pg.148

B



Pg.148

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D1

NMHV Hypoid-Helical Gear Reducer

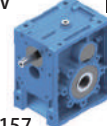
萬向螺旋齒輪減速機

NMHV



Pg.156

NHV



Pg.157

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D2

NMRV Worm Gear Reducer

萬向蝸輪減速機

NMRV



Pg.168

NMRV-NMRV



Pg.169

NRV



Pg.170

NRV-NMRV



Pg.170

PC-NMRV



Pg.171

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D3

Worm Gear Speed Reducer

蝸輪減速機

HW



Pg.181

HMW



Pg.182

HOM



Pg.183

LW



Pg.184

LMW



Pg.185

HOW



Pg.186

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LOW



Pg.186

VW



Pg.187

VMW



Pg.188

VOW



Pg.189

VOM



Pg.190

UW



Pg.191

UMW



Pg.192

TW



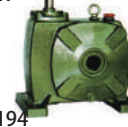
Pg.193

TMW



Pg.193

TOW



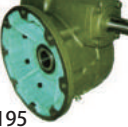
Pg.194

TOM



Pg.194

VOF



Pg.195

VOFM



Pg.195

LH



Pg.196

LHM



Pg.196

LOH



Pg.197

LOHM



Pg.197

VH



Pg.198

UH



Pg.198

VHM



Pg.199

UHM



Pg.199

VOH



Pg.200

VOHM



Pg.200

E1

Disco Speed Variator

無段變速機

AM



Pg.208

AK



Pg.208

AVM



Pg.208

AV



Pg.208

AHM



Pg.208

TXF



Pg.209

TKF



Pg.209

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E2

Belt Stepless Variable Speed Drive

皮帶變速機

APH



Pg.210

LW



Pg.211

HV



Pg.211

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E3

Five Steps Buffered Speed Changer

五段緩衝式變速機

LM



Pg.212

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E4

PIV Chain Variable Speed Drive

鍊條無段變速機

PIV-H



Pg.214

PIV-V



Pg.214

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F1

Spiral Bevel Gear Box

十字轉向機

LG



Pg.218

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216~218

F2

Spiral Screw Rod Actuators

螺桿升降機

SR



Pg.221

SRM



Pg.221

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G

Induction Electric Motor

感應馬達

AEEH/AEEP/AEES



Pg.228

AEVH/AEVP/AEVS



Pg.229

AEEH-ALB3



Pg.231

AEVH-ALB5



Pg.232

AEVH-ALB14



Pg.232

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H

Agitator Mixer

攪拌機

HHM



Pg.237

LW



Pg.238

GVV



Pg.239

CS/CSS



Pg.240

HMB



Pg.241

SC/SCB



Pg.242

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