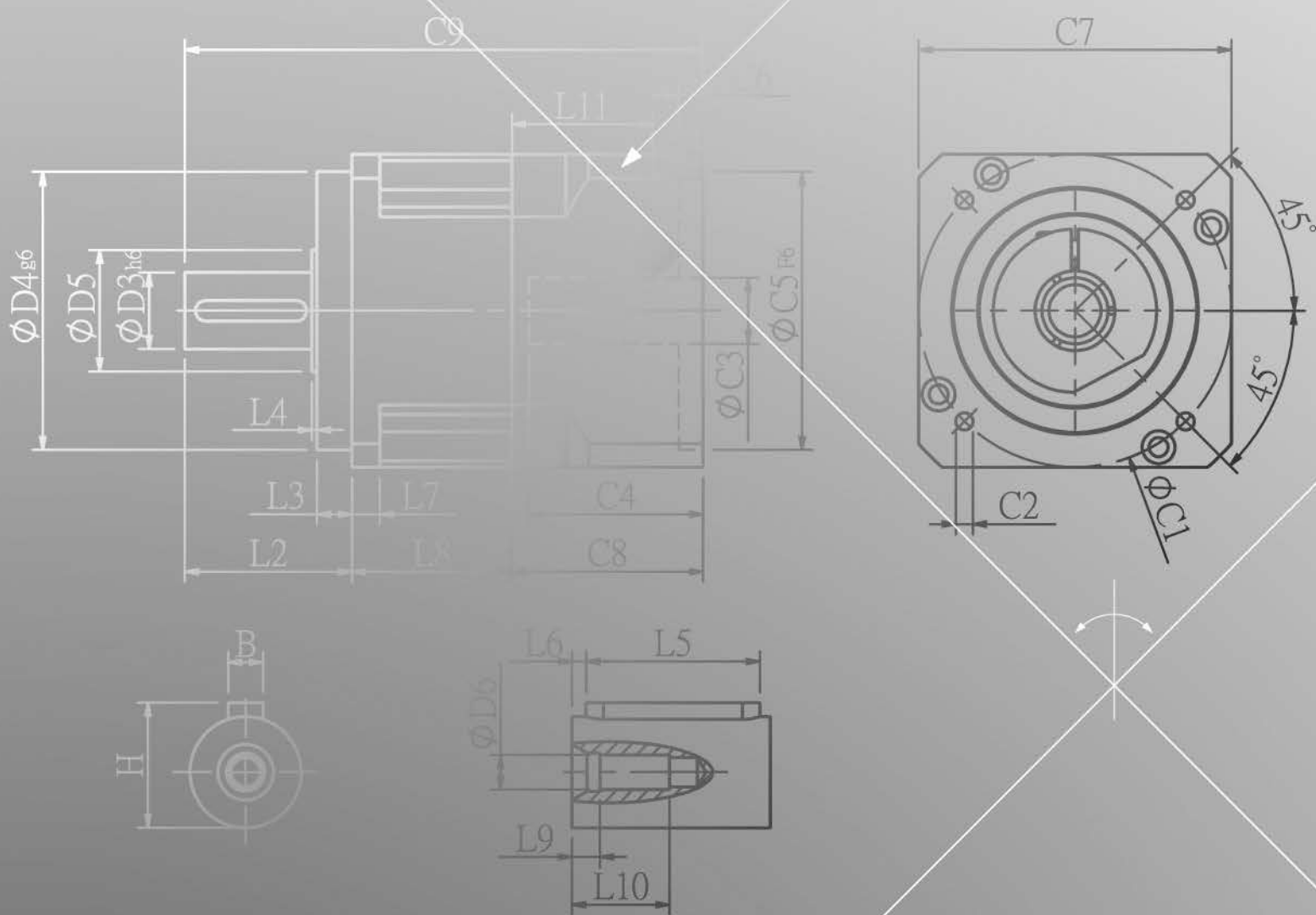
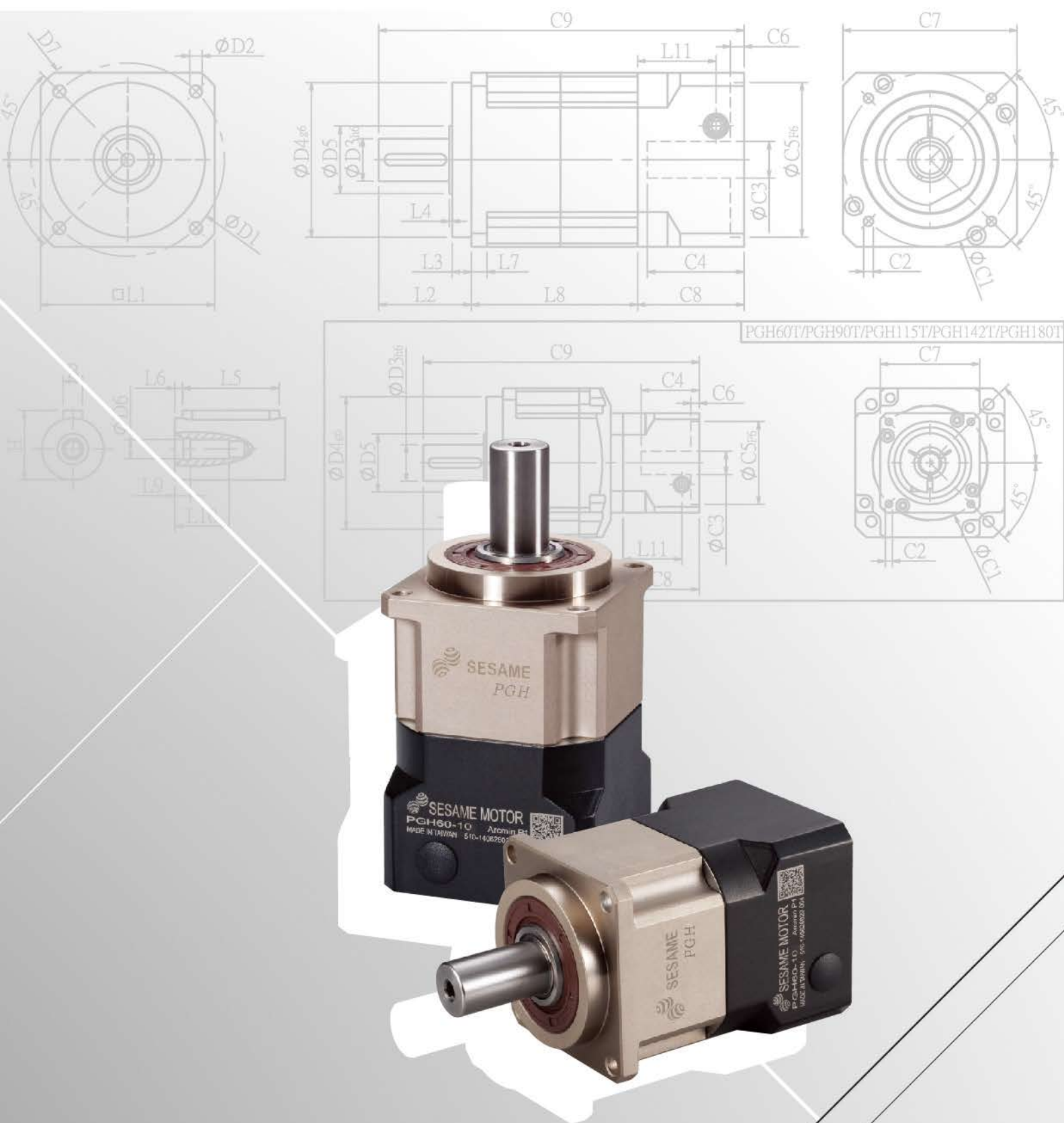
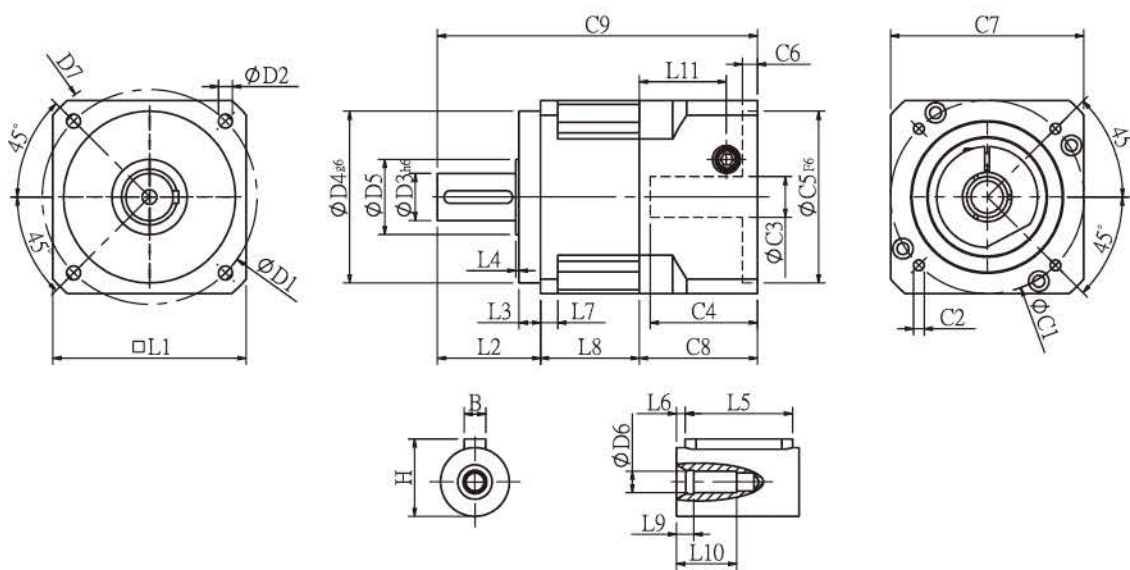


# PGH SERIES





## PGH Single Stage Dimensions PGH單段外型尺寸圖



## Specifications 規格

Unit:mm

尺寸 Dimensions	PGH42	PGH60	PGH90	PGH115	PGH142	PGH180	PGH220
D1	50	70	100	130	165	215	250
D2	3.4	5.5	6.5	8.5	10.5	13	17
D3 <sub>h6</sub>	13	16	22	32	40	55	75
D4 <sub>g6</sub>	35	50	80	110	130	160	180
D5	15	25	35	45	50	70	114.4
D6	M4x0.7P	M5x0.8P	M8x1.25P	M12x1.75P	M16x2.0P	M20x2.5P	M20x2.5P
D7	56	80	118	148	186	239	292
L1	42.6	60	90	115	142	182	220
L2	26	37	48	63	91.5	100.5	138
L3	5.5	7	10	10	10	16	30
L4	1	1.5	1.5	3.5	2.5	2.5	3
L5	15	25	32	40	60	70	90
L6	2	2	3	5	5	6	7
L7	4	6	8	11	16	18	20
L8	28.3	37	46	57	75.5	94	111
L9	4	4	4.5	6	6	8	15
L10	14	16.5	20.5	30	38	48	42
L11	29	35.5	40.5	42	63	69.5	96
C1 <sup>2</sup>	46	70	90	115	145	200	235
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M6x1.0P	M8x1.25P	M8x1.25P	M12x1.75P	M12x1.75P
C3 <sup>2</sup>	≤8	≤14	≤19/≤24	≤24/≤32	≤35/≤38	≤50	≤55
C4 <sup>2</sup>	27	37	47	56	66.5	82	112
C5 <sup>2</sup> <sub>F6</sub>	30	50	70	95	110	114.3	200
C6 <sup>2</sup>	4	4	6	10	6	13	6
C7 <sup>2</sup>	42.6	60	90	115	140	180	220
C8 <sup>2</sup>	38.5	46	55	63	80	95	120
C9 <sup>2</sup>	92.8	120	149	183	247	289.5	369
B	5	5	6	10	12	16	20
H	15	18	24.5	35	43	59	79.5

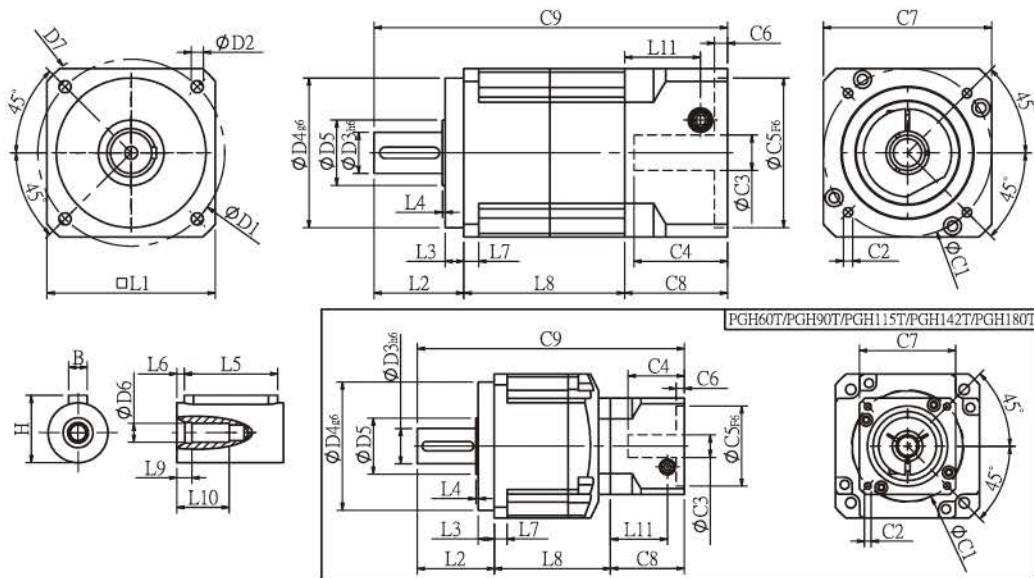
★ C1~C9是公製標準馬達連接板尺寸,請依所選用的馬達決定。

★ 本公司有權針對以上數據規格進行設計變更不先行告知。

★ C1~C9 are motor specific dimensions(metric std shown ), Size may vary according to the motor flange chosen.

★ Specification subject to change without notice.

## PGH Double Stage Dimensions PGH雙段外型尺寸圖



## Specifications 規格

Unit:mm

尺寸 Dimensions	PGH42	PGH60	PGH60T	PGH90	PGH90T	PGH115T	PGH142T	PGH180T	PGH220T
D1	50	70		100		130	165	215	250
D2	3.4	5.5		6.5		8.5	10.5	13	17
D3h6	13	16		22		32	40	55	75
D4g6	35	50		80		110	130	160	180
D5	15	25		35		45	50	70	114.4
D6	M4x0.7P	M5x0.8P		M8x1.25P		M12x1.75P	M16x2.0P	M20x2.5P	M20x1.5P
D7	56	80		118		148	186	239	292
L1	42.6	60		90		115	142	182	220
L2	26	37		48		63	91.5	100.5	138
L3	5.5	7		10		10	10	16	30
L4	1	1.5		1.5		3.5	2.5	2.5	3
L5	15	25		32		40	60	70	90
L6	2	2		3		5	5	6	7
L7	4	6		8		11	16	18	20
L8	55.3	70	65.5	86	78.5	99.5	127.5	166	202
L9	4	4		4.5		6	6	8	15
L10	14	16.5		20.5		30	38	48	42
L11	29	35.5	29	40.5	35.5	40.5	42	63	74
C1 <sup>2</sup>	46	70	46	90	70	90	115	145	200
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M4x0.7P	M6x1.0P	M5x0.8P	M6x1.0P	M8x1.25P	M8x1.25P	M12x1.75P
C3 <sup>2</sup>	≤8	≤14	≤8	≤19/≤24	≤14	≤19/≤24	≤24/≤32	≤35/≤38	≤50
C4 <sup>2</sup>	27	37	27	47	37	47	56	66.5	81
C5 <sup>2</sup> F6	30	50	30	70	50	70	95	110	114.3
C6 <sup>2</sup>	4	4	4	6	4	6	10	6	6
C7 <sup>2</sup>	42.6	60	42.6	90	60	90	115	140	180
C8 <sup>2</sup>	38.5	46	38.5	55	46	55	63	80	93
C9 <sup>2</sup>	119.8	153	141	189	172.5	217.5	282	346.5	433
B	5	5		6		10	12	16	20
H	15	18		24.5		35	43	59	79.5

★ C1~C9是公製標準馬達連接板尺寸,請依所選用的馬達決定。

★ 本公司有權針對以上數據規格進行設計變更不先行告知。

★ C1~C9 are motor specific dimensions(metric std shown ), Size may vary according to the motor flange chosen.

★ Specification subject to change without notice.



## PGH Specifications Table PGH性能規格共表

規格 Specifications		節數 Stage	減速比 Ratio	PGH-42	PGH-60	PGH-90	PGH-115	PGH-142	PGH-180	PGH-220
額定輸出力矩 T <sub>2N</sub> Nominal Output Torque	N • m	1	3	19	53	145	290	520	950	1100
			4	20	55	150	300	550	1000	1700
			5	17	54	140	290	530	1050	2000
			6	15	46	135	280	490	1000	1850
			7	14	44	125	270	450	960	1750
			8	12	41	110	240	390	900	1550
			9	11	37	95	220	360	800	1500
			10	11	37	95	220	360	800	1450
		2	減速比 Ratio	PGH-42	PGH-60 (T)	PGH-90(T)	PGH-115T	PGH-142T	PGH-180T	PGH-220T
			15	19	53	145	290	520	950	2000
			20	20	55	150	300	550	1000	2000
			25	17	54	140	290	530	1050	2000
			30	17	54	140	290	530	1050	2000
			35	17	54	140	290	530	1050	2000
			40	17	54	140	290	530	1050	2000
			45	17	54	140	290	530	1050	2000
			50	17	54	140	290	530	1050	2000
			60	15	46	135	280	490	1000	1850
			70	14	44	125	270	450	960	1750
			80	12	41	110	240	390	900	1550
			90	11	37	95	220	360	800	1500
100	11	37	95	220	360	800	1450			
急停力矩 T <sub>2NOT</sub> Emergency Stop Torque	N • m	3.0 倍額定輸出力矩 ( 3.0 times of Nominal Output Torque) (* 最大輸出力矩 Max. Output Torque T <sub>2B</sub> =60% of Emergency Stop Torque)								
額定輸入轉速 n <sub>1N</sub> Nominal Input Speed	rpm	1,2	3-100	5000	5000	4000	4000	3000	3000	2000
最大輸入轉速 n <sub>1max</sub> Max. Input Speed	rpm	1,2	3-100	10000	10000	8000	8000	6000	6000	4000
超精密背隙 Micro Backlash P0	arcmin	1	3-10	≤ 2	≤ 2	≤ 2	≤ 1	≤ 1	≤ 1	≤ 1
精密背隙 Precision Backlash P1	arcmin	2	12-100	≤ 4	≤ 4	≤ 4	≤ 3	≤ 3	≤ 3	≤ 3
		2	12-100	≤ 6	≤ 6	≤ 6	≤ 5	≤ 5	≤ 5	≤ 5
標準背隙 Standard Backlash P2	arcmin	1	3-10	≤ 6	≤ 6	≤ 6	≤ 5	≤ 5	≤ 5	≤ 5
		2	12-100	≤ 8	≤ 8	≤ 8	≤ 7	≤ 7	≤ 7	≤ 7
扭轉剛性Torsional Rigidity	N • m /arcmin	1,2	3-100	2.5	6	12	23	45	75	130
容許徑向力 F <sub>2re</sub> <sup>1</sup> Max. Radial Load	N	1,2	3-100	760	1570	2780	5340	8400	13000	13810
容許軸向力 F <sub>2aB</sub> <sup>1</sup> Max. Axial Load	N	1,2	3-100	410	750	1870	3310	4670	6460	18530
使用溫度 Operating Temp.	°C		3-100	-10 °C ~+90 °C						
使用壽命Service Life	hr		3-100	20,000 (10,000/ 連續運轉 Continuous operation)						
效率 Efficiency	%	1	3-10	≥ 97%						
		2	12-100	≥ 94%						
重量 Weight	kg	1	3-10	0.6	1.3	3.5	7.8	16.1	27	55
		2	12-100	0.9	2.0/1.6	5.6/3.9	9.5	19	34	68.5
安裝方向 Mounting Position	-	1,2	3-100	任意方向Any direction						
噪音值 Noise Level <sup>2</sup>	dBA/1m	1,2	3-100	56	58	60	63	65	67	70
防護等級 Protection Class	-	1,2	3-100	IP65						
潤滑 Lubrication	-	1,2	3-100	全合成潤滑油 Synthetic Lubricant						
減速機轉動慣量 Inertia(J1)										
節數Stage	減速比Ratio	單位unit		PGH-42	PGH-60	PGH-90	PGH-115	PGH-142	PGH-180	PGH-220
1	3	Kg • cm <sup>2</sup>		0.03	0.23	0.97	2.35	10.00	30.50	79.50
	4			0.02	0.18	0.67	1.66	7.17	25.86	58.21
	5			0.02	0.17	0.65	1.50	6.52	23.63	54.36
	6/7/8			0.02	0.14	0.60	1.45	6.17	22.92	54.12
	9/10			0.02	0.14	0.58	1.41	6.10	22.73	53.98
節數Stage	減速比Ratio			PGH-42	PGH-60(T)	PGH-90(T)	PGH-115T	PGH-142T	PGH-180T	PGH-220T
2	15/20/25			0.02	0.17(0.02)	0.65(0.17)	0.65	1.50	6.52	23.63
	30/35/40			0.02	0.14(0.02)	0.60(0.14)	0.60	1.45	6.17	22.92
	45/50/60/70/80/90/100			0.02	0.14(0.02)	0.58(0.14)	0.58	1.41	6.10	22.73
* 1. 輸出轉速 100rpm 時,作用於輸出軸中心位置 Applied to the output shaft center @100rpm. * 2. 3000rpm 空載重測 Measured at 3000rpm with no load ※本公司有權對以上數據規格逕行設計變更不先行告知。 The above figures/specifications are subject to change without prior notice.										

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產品因人為原因或天災等因素導致不良或損壞，不在保固範圍內。

# SERVO MOTOR GEARHEADS



PHL PHFR PHF PGH PUR PIL PGLH PGL PGC PGE PGRH PGR PGFR PGF PBC PBE PAE PAC PAN PGS PNS