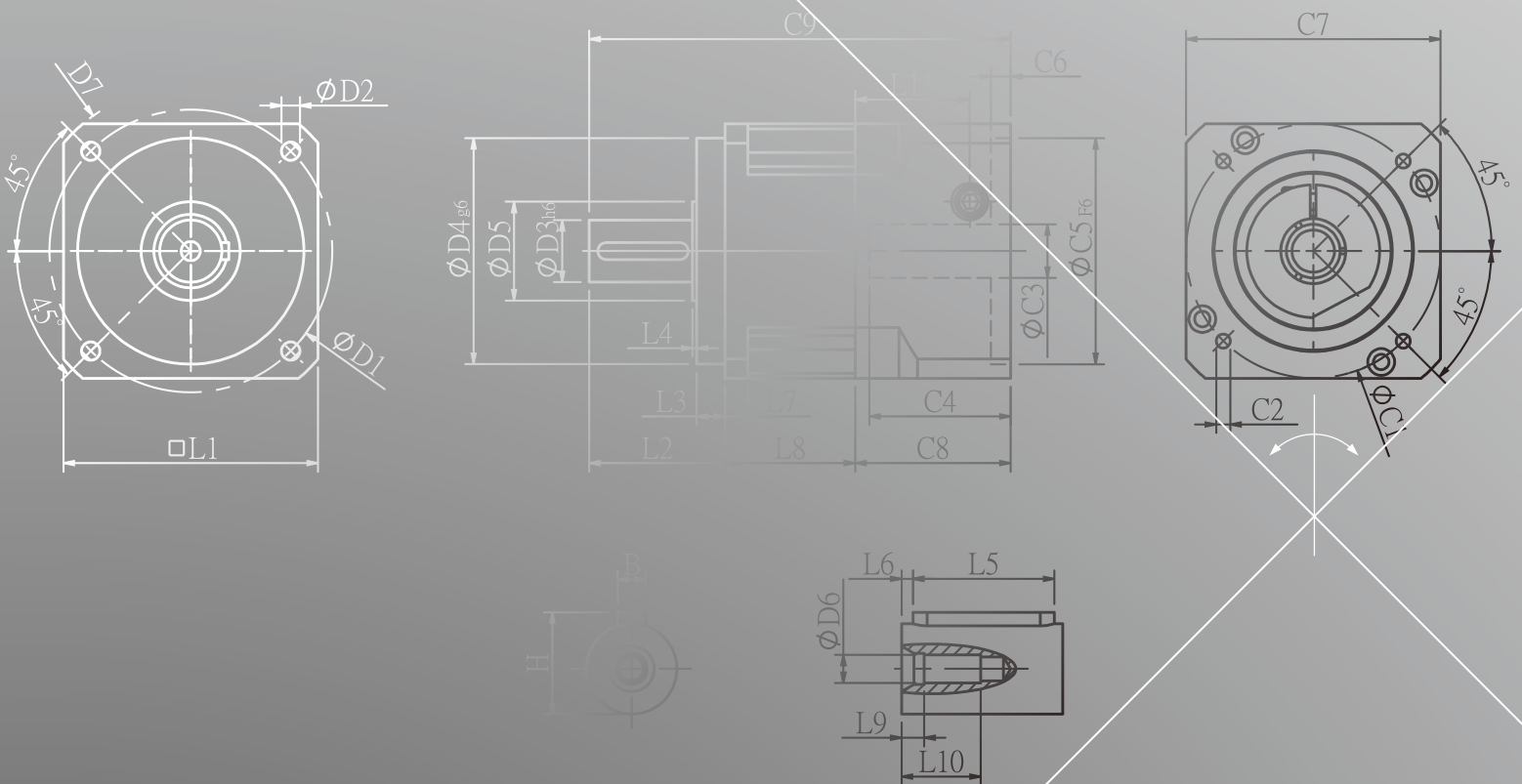
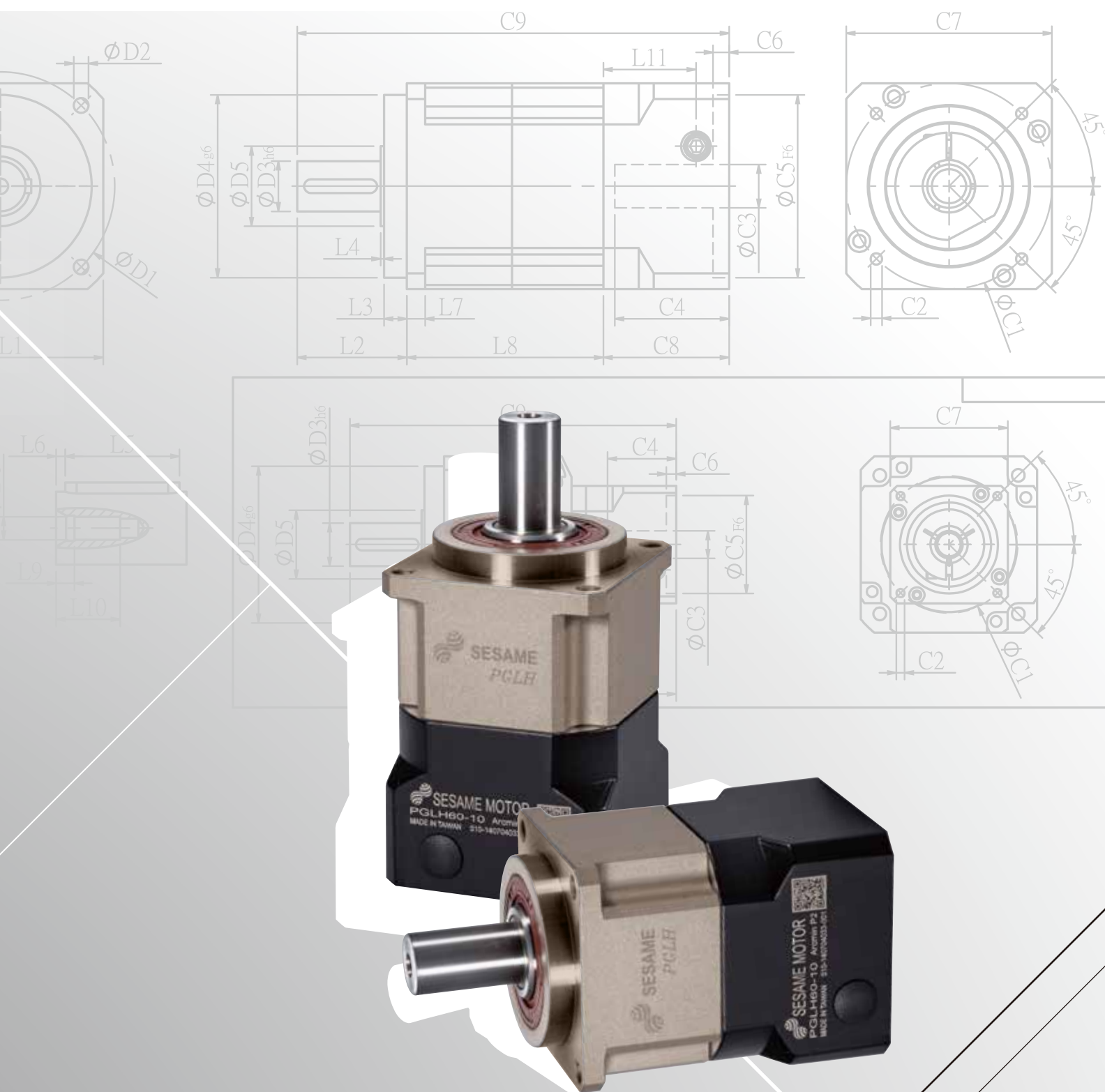
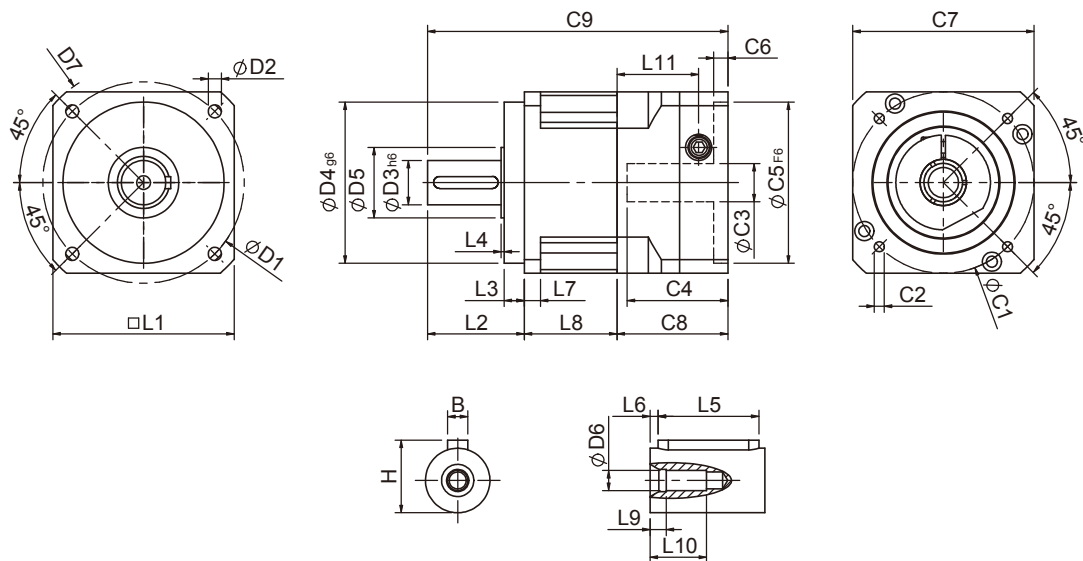


PGLH SERIES





PGLH Single Stage Dimensions



Specifications

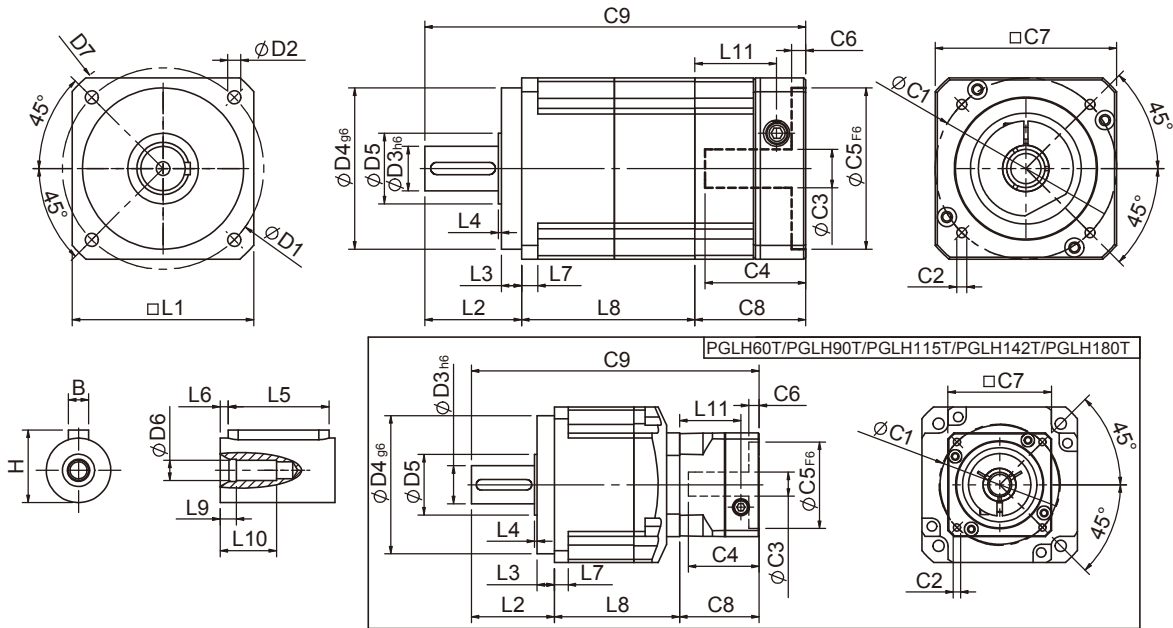
Unit:mm

Dimensions	PGLH42	PGLH60	PGLH90	PGLH115	PGLH142	PGLH180
D1	50	70	100	130	165	215
D2	3.4	5.5	6.5	8.5	10.5	13
D3 _{h6}	13	16	22	32	40	55
D4 _{g6}	35	50	80	110	130	160
D5	15	25	35	45	50	70
D6	M4x0.7P	M5x0.8P	M8x1.25P	M12x1.75P	M16x2.0P	M20x2.5P
D7	56	80	118	148	186	239
L1	42.6	60	90	115	142	182
L2	26	37	48	63	91.5	100.5
L3	5.5	7	10	10	10	16
L4	1	1.5	1.5	3.5	2.5	2.5
L5	15	25	32	40	60	70
L6	2	2	3	5	5	6
L7	4	6	8	11	16	20
L8	28.3	37	46	57	75.5	94
L9	4	4	4.5	6	6	8
L10	14	16.5	20.5	30	38	48
L11	29	35.5	40.5	53.7	63	69.5
C1 ²	46	70	90	115	145	200
C2 ²	M4x0.7P	M5x0.8P	M6x1.0P	M8x1.25P	M8x1.25P	M12x1.75P
C3 ²	≤8/≤14	≤14/≤19	≤19/≤24	≤24/≤32/≤38	≤35/≤38	≤50
C4 ²	27	37	41	56.3	66.5	82
C5 ² _{F6}	30	50	70	95	110	114.3
C6 ²	4	4	6	10	5.5	13
C7 ²	42.6	60	90	115	140	182
C8 ²	38.5	46	55	75	80	95
C9 ²	92.8	120	149	195	247	289.5
B	5	5	6	10	12	16
H	15	18	24.5	35	43	59

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

★ Specification subject to change without notice.

PGLH Double Stage Dimensions



Specifications

Unit:mm

Dimensions	PGLH42	PGLH60	PGLH60T	PGLH90	PGLH90T	PGLH115T	PGLH142T	PGLH180T
D1	50	70		100		130	165	215
D2	3.4	5.5		6.5		8.5	10.5	13
D3 _{h6}	13	16		22		32	40	55
D4 _{g6}	35	50		80		110	130	160
D5	15	25		35		45	50	70
D6	M4x0.7P	M5x0.8P		M8x1.25P		M12x1.75P	M16x2.0P	M20x2.5P
D7	56	80		118		148	186	239
L1	42.6	60		90		115	142	182
L2	26	37		48		63	91.5	100.5
L3	5.5	7		10		10	10	16
L4	1	1.5		1.5		3.5	2.5	2.5
L5	15	25		32		40	60	70
L6	2	2		3		5	5	6
L7	4	6		8		11	16	20
L8	55.3	70	65.5	90	78.5	99.5	127.5	166
L9	4	4		4.5		6	6	8
L10	14	16.5		20.5		30	38	48
L11	29	35.5	29	40.5	35.5	40.5	41.8	62.8
C1 ²	46	70	46	90	70	90	115	145
C2 ²	M4x0.7P	M5x0.8P	M4x0.7P	M6x1.0P	M5x0.8P	M6x1.0P	M8x1.25P	M8x1.25P
C3 ²	≤8/≤14	≤14/≤19	≤8/≤14	≤19/≤24	≤14/≤19	≤19/≤24	≤24/≤32/≤38	≤35/≤38
C4 ²	27	37	27	41	37	41	56	66.5
C5 ² _{F6}	30	50	30	70	50	70	95	110
C6 ²	4	4	4	6	4	6	10	5.5
C7 ²	42.6	60	42.6	90	60	90	115	140
C8 ²	38.5	46	38.5	55	46	55	63	80
C9 ²	119.8	153	141	193	172.5	217.5	282	346.5
B	5	5		6		10	12	16
H	15	18		24.5		35	43	59

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

★ Specification subject to change without notice.

PGLH Specifications Table

Specifications		Stage	Ratio	PGLH-42	PGLH-60	PGLH-90	PGLH-115	PGLH-142	PGLH-180	PGLH-220
Nominal Output Torque T _{2N}	N · m	1	3	19	53	145	290	520	950	-
			4	20	55	150	300	550	1000	-
			5	17	54	140	290	600	1050	-
			6	15	46	135	280	560	1000	-
			7	14	44	125	270	530	960	-
			8	12	41	110	240	480	900	-
			9	11	37	95	220	430	800	-
			10	11	37	95	220	430	800	-
		Stage	Ratio	PGLH-42	PGLH-60 / PGLH-60T	PGLH-90 / PGLH-90T	PGLH-115T	PGLH-142T	PGLH-180T	PGLH-220T
		2	15	19	53	145	290	520	950	-
			20	20	55	150	300	550	1000	-
			25	17	54	140	290	600	1050	-
			30	17	54	140	290	600	1050	-
			35	17	54	140	290	600	1050	-
			40	17	54	140	290	600	1050	-
			45	17	54	140	290	600	1050	-
			50	17	54	140	290	600	1050	-
			60	15	46	135	280	560	1000	-
			70	14	44	125	270	530	960	-
			80	12	41	110	240	480	900	-
			90	11	37	95	220	430	800	-
			100	11	37	95	220	430	800	-
Emergency Stop Torque T _{2NOT}	N · m		(3.0 times of Nominal Output Torque) (* Max. Output Torque T _{2B} =60% of Emergency Stop Torque)							
Nominal Input Speed n _{1N}	rpm	1,2	3-100	4000	4000	3000	3000	2500	2500	2000
Max. Input Speed n _{1max}	rpm	1,2	3-100	8000	8000	6000	6000	5000	4000	4000
Micro Backlash P0	arcmin	1	3-10	≤4	≤4	≤4	≤3	≤3	≤3	≤3
		2	12-100	≤6	≤6	≤6	≤5	≤5	≤5	≤5
Precision Backlash P1	arcmin	1	3-10	≤6	≤6	≤6	≤5	≤5	≤5	≤5
		2	12-100	≤8	≤8	≤8	≤7	≤7	≤7	≤7
Standard Backlash P2	arcmin	1	3-10	≤8	≤8	≤8	≤7	≤7	≤7	≤7
		2	12-100	≤10	≤10	≤10	≤9	≤9	≤9	≤9
Torsional Rigidity	N · m /arcmin	1,2	3-100	2.5	6	12	23	50	145	-
Max. Radial Load F _{2rB} ¹	N	1,2	3-100	640	1260	2230	4300	7140	11050	-
Max. Axial Load F _{2aB} ¹	N	1,2	3-100	410	600	1500	3310	4670	6460	-
Operating Temp.	℃		3-100	-10℃~ +90℃						
Service Life	hr		3-100	20,000 (10,000 Continuous operation)						
Efficiency	%	1	3-10	≥97%						
		2	12-100	≥94%						
Weight	kg	1	3-10	0.6	1.3	3.5	7.8	16.1	27	-
		2	12-100	0.9	2.0/1.6	5.6/3.9	9.5	19	34	-
Mounting Position	-	1,2	3-100	Any direction						
Noise Level ²	dBA/1m	1,2	3-100	58	60	63	65	67	68	-
Protection Class	-	1,2	3-100	IP65						
Lubrication	-	1,2	3-100	Synthetic Lubricant						
Inertia (J1)										
Stage	Ratio	unit		PGLH-42	PGLH-60	PGLH-90	PGLH-115	PGLH-142	PGLH-180	PGLH-220
1	3	Kg · cm ²		0.03	0.23	0.97	2.35	10.00	30.50	-
	4			0.02	0.18	0.67	1.66	7.17	25.86	-
	5			0.02	0.17	0.65	1.50	6.52	23.63	-
	6/7/8			0.02	0.14	0.60	1.45	6.17	22.92	-
	9/10			0.02	0.14	0.58	1.41	6.10	22.73	-
Stage	Ratio			PGLH-42	PGLH-60(T)	PGLH-90(T)	PGLH-115T	PGLH-142T	PGLH-180T	PGLH-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. Applied to the output shaft center at 100 rpm.										
* 2. Measured at 3000 rpm with no load. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at nominal input speed or 3000 rpm (if nominal input speed is higher than 3000 rpm) with no load.										
※ The above figures/specifications are subject to change without prior notice.										

* 1. Applied to the output shaft center at 100 rpm.

* 2. Measured at 3000 rpm with no load. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at nominal input speed or 3000 rpm (if nominal input speed is higher than 3000 rpm) with no load.

※ The above figures/specifications are subject to change without prior notice.

Products due to human error, natural disasters or other factors lead to poor or damaged, will not be covered under warranty.