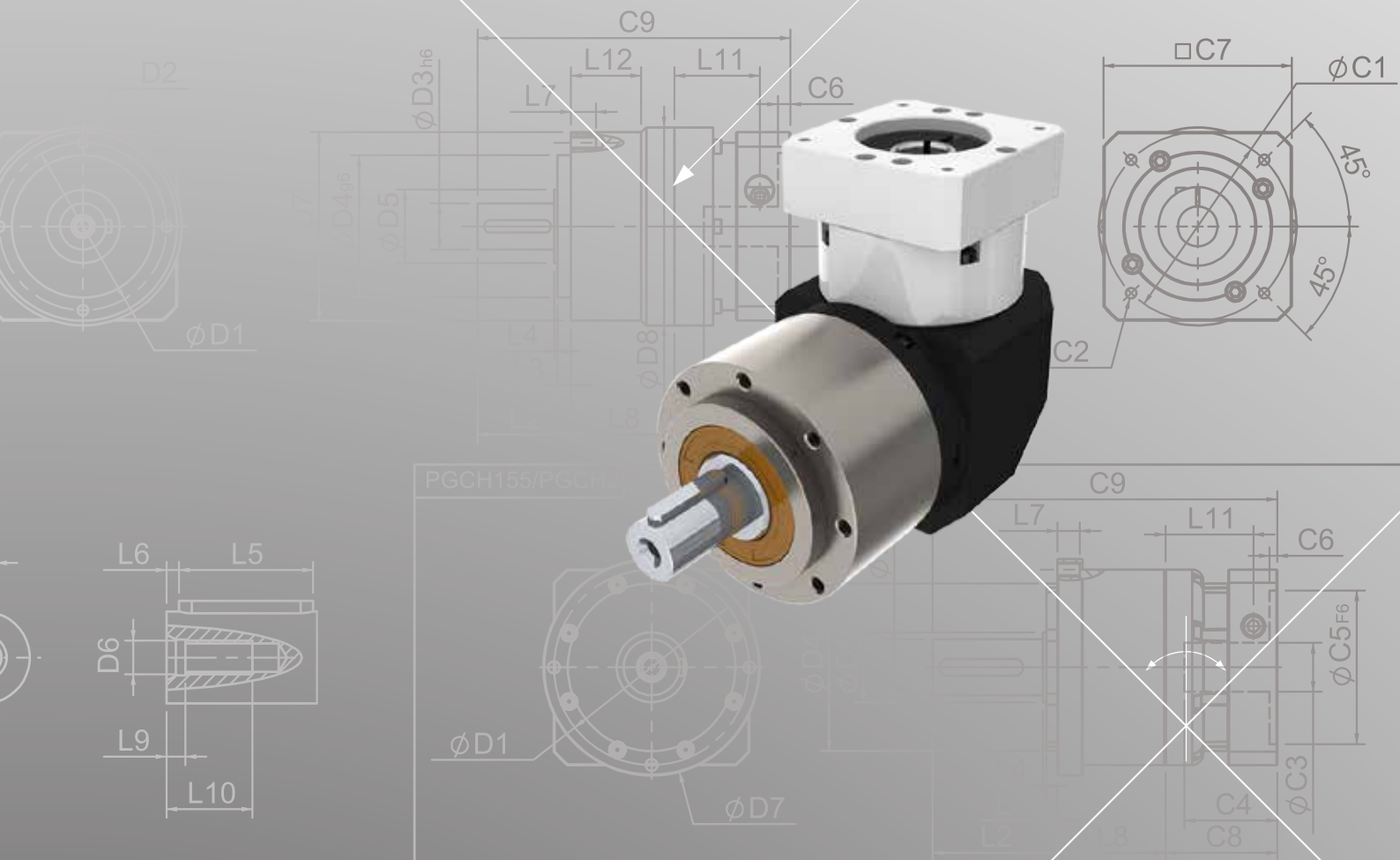
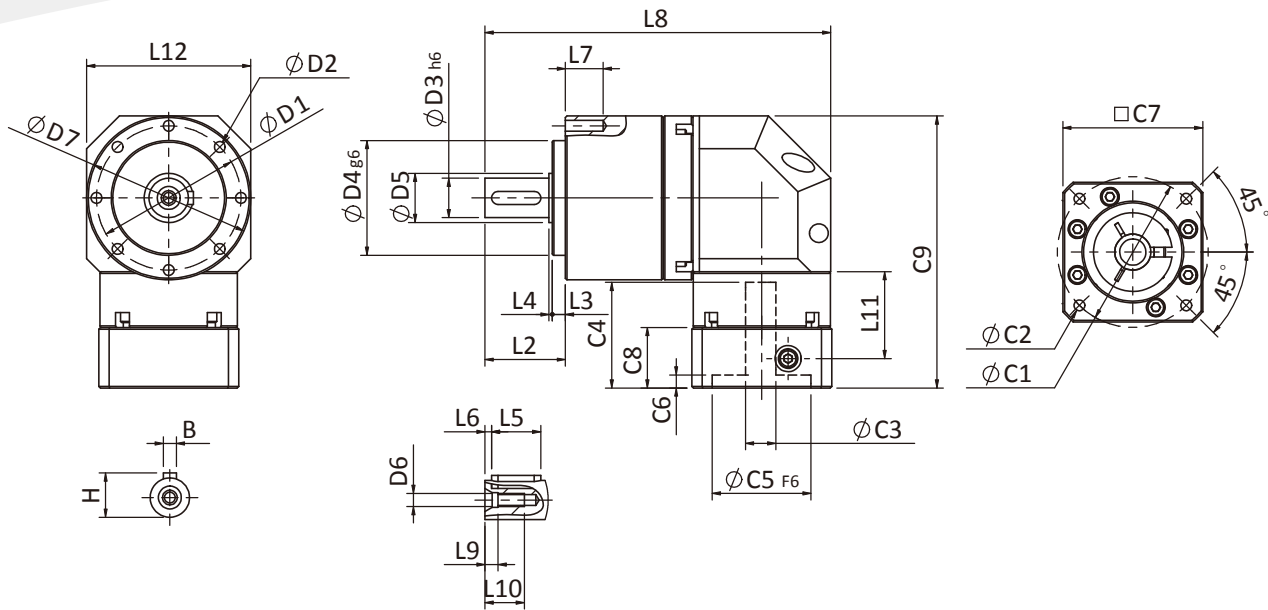


PGCHR SERIES



PGCHR Single Stage Dimensions



Specifications

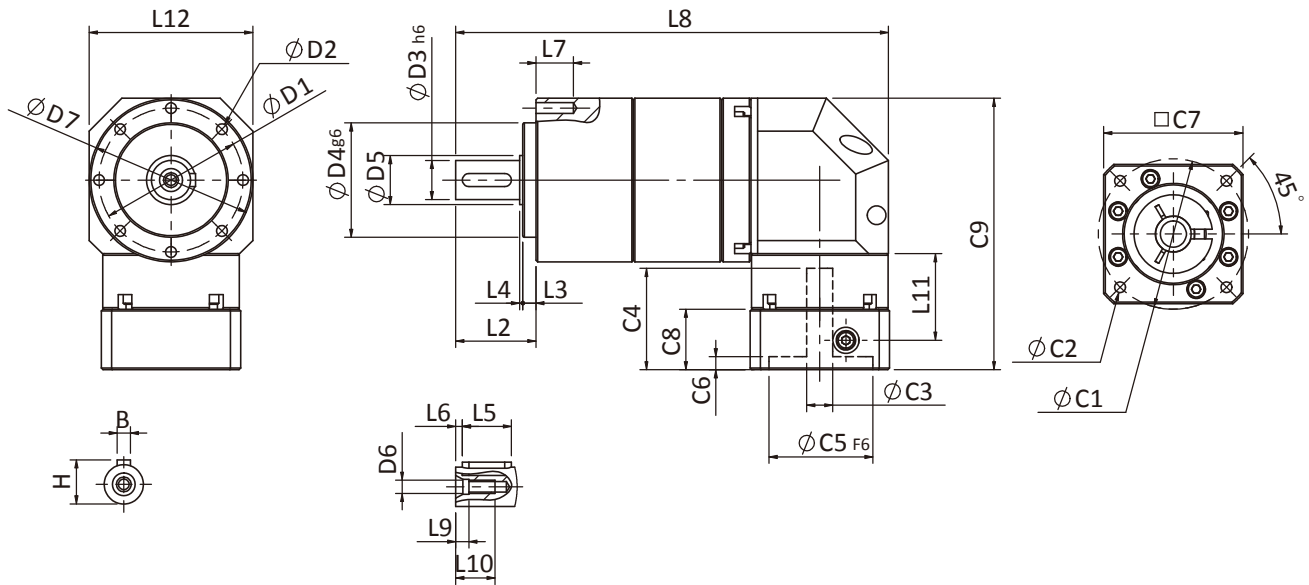
Unit: mm

Dimensions	PGCHR50	PGCHR70	PGCHR90
D1	44	62	80
D2	M4x0.7P	M5x0.8P	M6x1.0P
D3 _{h6}	12	16	22
D4 _{g6}	35	52	68
D5	15	25	35
D6	M4x0.7P	M5x0.8P	M8x1.25P
D7	50	70	90
-	-	-	-
L2	24.5	36	44.5
L3	4	6	6.5
L4	1	1.5	1.5
L5	15	25	32
L6	2	2	3
L7	8	10	12
L8	105.3	144.3	201
L9	4	4	4.5
L10	12	16.5	20.5
L11	26.5	36	41.2
L12	50	70	98
C1 ²	46	70	90
C2 ²	M4x0.7P	M5x0.8P	M6x1.0P
C3 ²	≤8/≤11	≤14/≤19	≤19/≤24
C4 ²	33	44	57
C5 ² _{F6}	30	50	70
C6 ²	4	4	6
C7 ²	42.6	60	90
C8 ²	18.5	20	26
C9 ²	83	111.4	149.2
B	4	5	6
H	13.5	18	24.5

*2. C1~C9 are motor specific dimensions (metric std shown). Sizes may vary according to the motor flange chosen.

★ Specification subject to change without notice.

PGCHR Double Stage Dimensions-1



Specifications

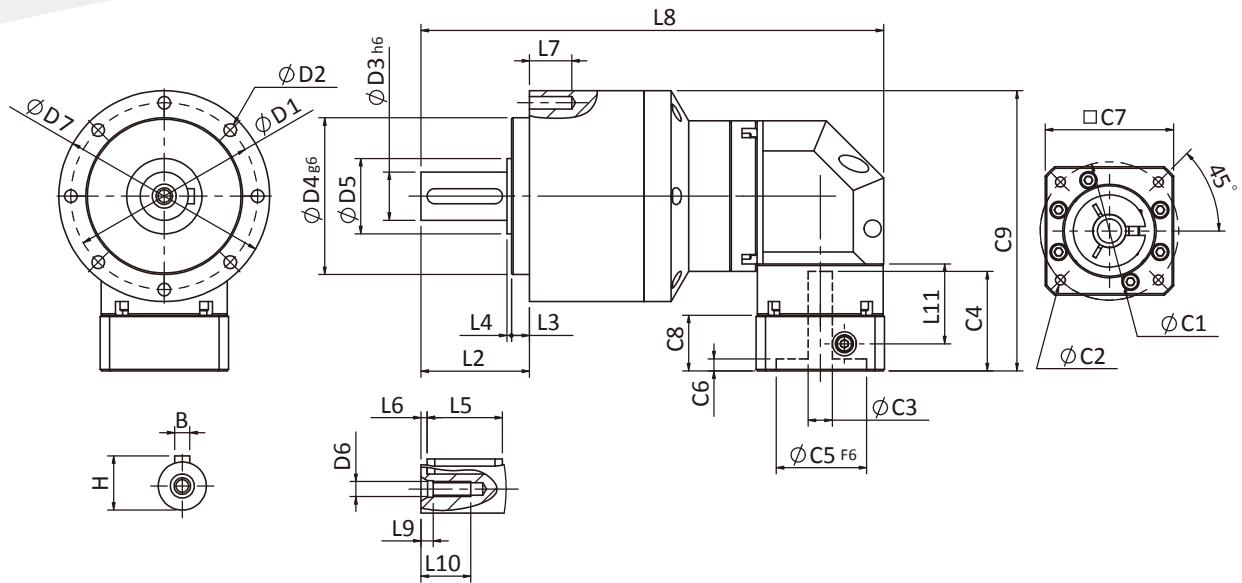
Unit: mm

Dimensions	PGCHR50	PGCHR70	PGCHR90
D1	44	62	80
D2	M4x0.7P	M5x0.8P	M6x1.0P
D3 h6	12	16	22
D4 g6	35	52	68
D5	15	25	35
D6	M4x0.7P	M5x0.8P	M8x1.25P
D7	50	70	90
-	-	-	-
L2	24.5	36	44.5
L3	4	6	6.5
L4	1	1.5	1.5
L5	15	25	32
L6	2	2	3
L7	8	10	12
L8	132.3	177.3	245
L9	4	4	4.5
L10	12	16.5	20.5
L11	26.5	36	41.2
L12	50	70	98
C1 ²	46	70	90
C2 ²	M4x0.7P	M5x0.8P	M6x1.0P
C3 ²	≤8/≤11	≤14/≤19	≤19/≤24
C4 ²	33	44	57
C5 ² F6	30	50	70
C6 ²	4	4	6
C7 ²	42.6	60	90
C8 ²	18.5	20	26
C9 ²	83	111.4	149.2
B	4	5	6
H	13.5	18	24.5

*2. C1~C9 are motor specific dimensions (metric std shown). Sizes may vary according to the motor flange chosen.

★ Specification subject to change without notice.

PGCHR Double Stage Dimensions-2



Specifications

Unit: mm

Dimensions	PGCHR70T	PGCHR90T	PGCHR120T
D1	62	80	108
D2	M5x0.8P	M6x1.0P	M8x1.25P
D3 _{h6}	16	22	32
D4 _{g6}	52	68	90
D5	25	35	45
D6	M5x0.8P	M8x1.25P	M12x1.75P
D7	70	90	120
-	-	-	-
L2	36	44.5	60
L3	6	6.5	7
L4	1.5	1.5	3.5
L5	25	32	40
L6	2	3	5
L7	10	12	16
L8	153.5	196.8	269.5
L9	4	4.5	6
L10	16.5	20.5	30
L11	26.5	36	41.2
C1 ²	46	70	90
C2 ²	M4x0.7P	M5x0.8P	M6x1.0P
C3 ²	≤8/≤11	≤14/≤19	≤19/≤24
C4 ²	33	44	57
C5 ² _{F6}	30	50	70
C6 ²	4	4	6
C7 ²	42.6	60	90
C8 ²	18.5	20	26
C9 ²	93	123.65	160.2
B	5	6	10
H	18	24.5	35

*2. C1~C9 are motor specific dimensions (metric std shown). Sizes may vary according to the motor flange chosen.

★ Specification subject to change without notice.

PGCHR Specifications Table

Specifications		Stage	Ratio	PGCHR-50	PGCHR-70	PGCHR-90	PGCHR-120
Nominal Output Torque T _{2N}	N • m	1	3	16	36	105	135
			4	18	48	140	180
			5	17	54	140	225
			7	14	44	125	300
			8	18	48	140	260
			9	16	35	95	230
			10	17	50	140	210
			12	18	40	120	-
			14	14	44	125	300
			15	17	45	135	-
		20	11	37	95	230	
		Stage	Ratio	PGCHR-50	PGCHR-70/ PGCHR-70T	PGCHR-90/ PGCHR-90T	PGCHR-120T
		2	20	20	55	150	300
			25	17	54	140	330
			30	19	53	145	330
			35	17	54	140	330
			40	20	55	150	300
			50	17	54	140	330
			60	17	54	140	330
			70	17	54	140	330
			80	17	54	140	330
			100	17	54	140	330
			120	17	54	140	330
			140	14	44	125	300
			200	11	37	95	230
			300	11	37	95	230
Emergency Stop Torque T _{2NOT}	N • m		(2.5 times of Nominal Output Torque) *Max. Output Torque T _{2B} =60% of Emergency Stop Torque)				
Nominal Input Speed n _{1N}	rpm	1,2	3-300	5000	4000	4000	4000
Max. Input Speed n _{1max}	rpm	1,2	3-300	10000	8000	8000	8000
Standard Backlash P2	arcmin	1 2	3-16 20-300	≤ 10 ≤ 12	≤ 10 ≤ 12	≤ 9 ≤ 11	≤ 8 ≤ 10
Torsional Rigidity	N • m /arcmin	1,2	3-300	3	7	14	25
Max. Radial Load F _{2rB} ¹	N	1,2	3-300	702	1377	2985	6100
Max. Axial Load F _{2aB} ¹	N	1,2	3-300	410	765	1625	3350
Operating Temp.	°C	1,2	3-300	-10°C ~ +90°C			
Service Life	hr	1,2	3-300	20,000 (10,000 Continuous operation)			
Efficiency	%	1 2	3-16 20-300	≥ 95% ≥ 92%			
Weight	kg	1 2	3-16 20-300	1.1 1.4	2.2 2.8/2.0	6.0 8.0/5.0	10.5 12.0
Mounting Position	-	1,2	3-300	Any direction			
Noise Level ²	dBA/1m	1,2	3-300	61	63	65	68
Protection Class	-	1,2	3-300	IP 65			
Lubrication	-	1,2	3-300	Synthetic Lubricant			
Inertia (J1)							
Stage	Ratio	unit	PGCHR-50 (ϕ 8)	PGCHR-70 (ϕ 14)	PGCHR-90 (ϕ 19)	PGCHR-120 (ϕ 24)	
1	3, 4, 5, 7	Kg • cm ²	0.07	0.40	2.0	2.7	
	Other ratios		0.05	0.30	1.5	2.2	
Stage	Ratio		PGCHR-50 (ϕ 8)	PGCHR-70 (ϕ 14) PGCHR-70T (ϕ 8)	PGCHR-90 (ϕ 19) PGCHR-90T (ϕ 14)	PGCHR-120T (ϕ 19)	
2	20, 25, 35		0.07	0.40/0.07	2.30/0.40	2.0	
	Other ratios		0.05	0.30/0.05	1.50/0.30	1.5	
* 1. Applied to the output shaft center @100rpm. * 2. Measured at 3000 rpm with no load. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-tage) 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.