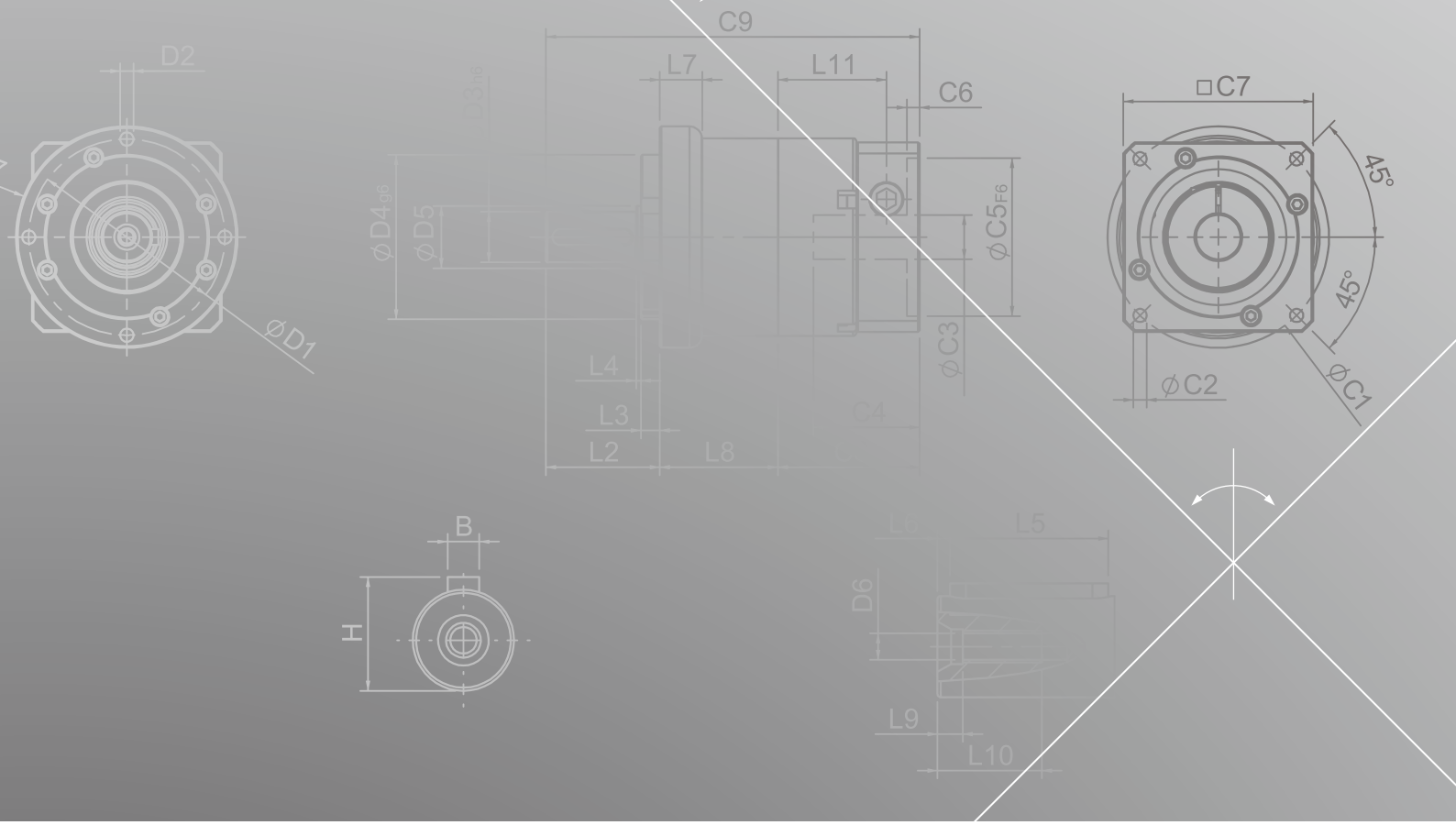
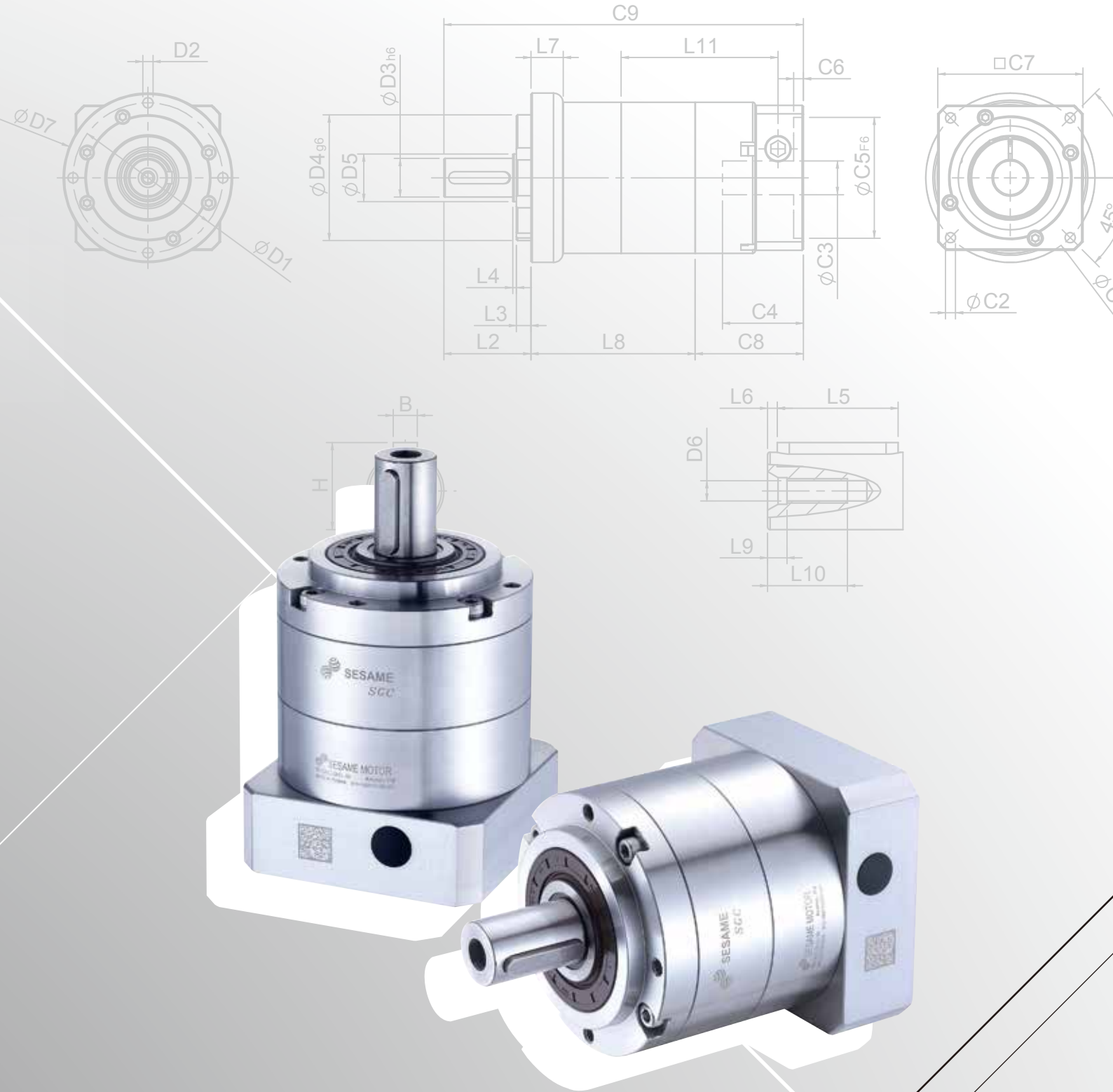
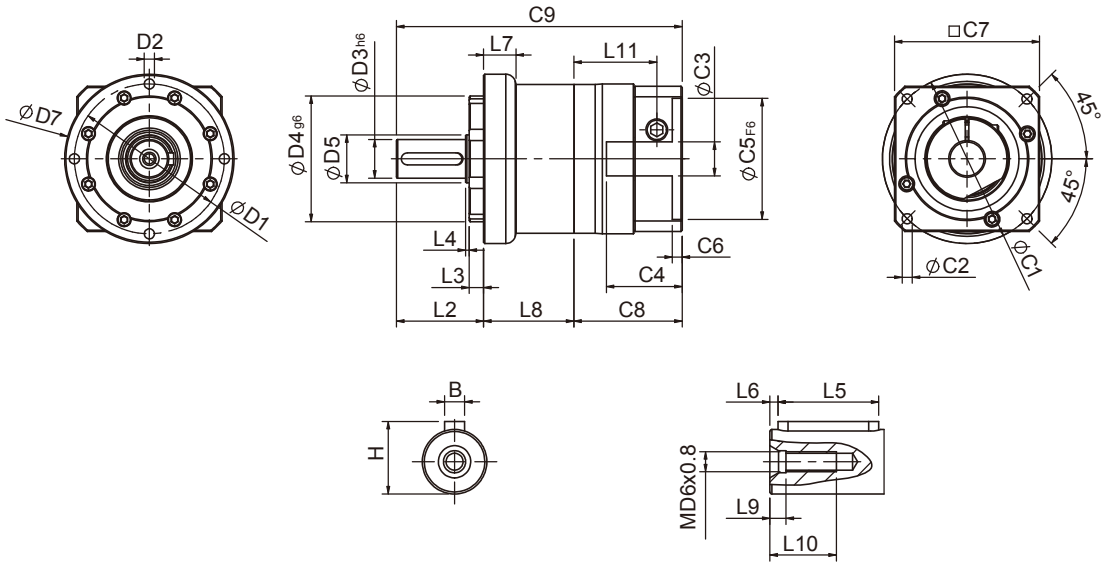
SGC SERIES


C9
L7
L11
C6
D2
ØD1
ØD4g6
ØD5
L3h6
ØC5F6
ØC3
L4
L3
L2
L8
C4
□C7
45°
45°
ØC2
ØC1
B
H
L6
L5
D6
L9
L10


C9
L7
L11
C6
D2
ØD3h6
ØD7
ØD4g6
ØD5
ØC5F6
□C7
ØD1
ØC3
L4
L3
C4
ØC2
L2
L8
C8
B
L6
L5
H
D6
L9
L10
SESAME
SGC
SESAME MOTOR

SGC Single Stage Dimensions



Specifications

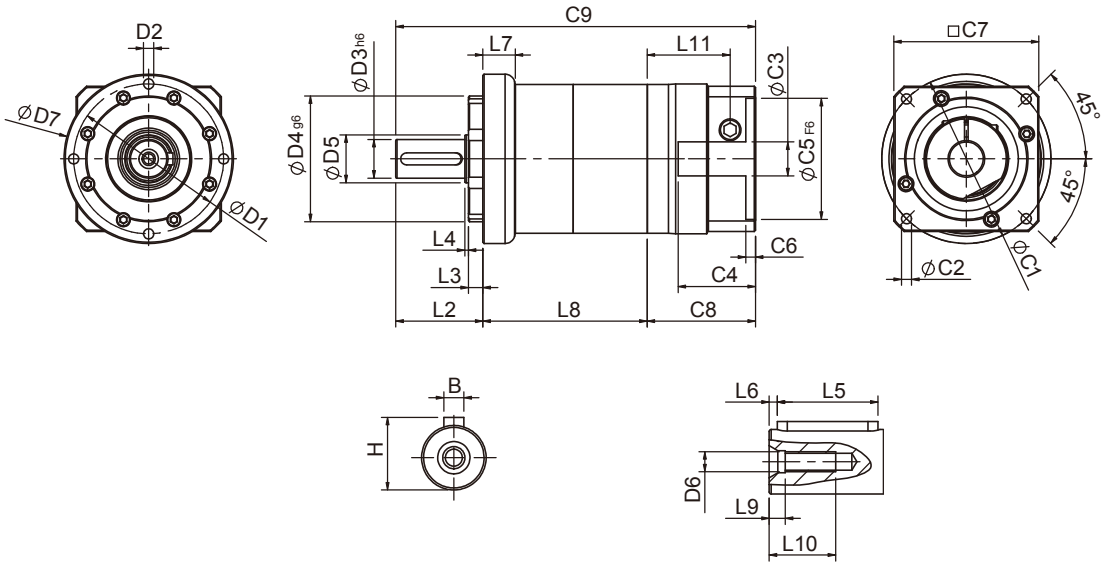
Unit:mm

Dimensions	SGC50	SGC70	SGC90
D1	-	62	80
D2	-	M5x0.8P	M6x1.0P
D3 h6	-	16	22
D4 g6	-	52	68
D5	-	20	35
D6	-	M5x0.8P	M8x1.25P
D7	-	70	90
L2	-	36	46
L3	-	6	7
L4	-	1.5	2.5
L5	-	25	32
L6	-	2	3
L7	-	13.4	14.1
L8	-	37.3	43.8
L9	-	4	4.5
L10	-	16.5	20.5
L11	-	34.3	41.5
C1 [2]	-	70	90
C2 [2]	-	M5x0.8P	M6x1.0P
C3 [2]	-	≦14/≦19	≦19/≦24/≦28
C4 [2]	-	33.5	41
C5 [2] F6	-	50	70
C6 [2]	-	4	6
C7 [2]	-	60	90
C8 [2]	-	44.8	55.8
C9 [2]	-	118.1	145.6
B	-	5	6
H	-	18	24.5

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

★ Specification subject to change without notice.

SGC Double Stage Dimensions



Specifications

Unit:mm

Dimensions	SGC50	SGC70	SGC90
D1	-	62	80
D2	-	M5x0.8P	M6x1.0P
D3 h6	-	16	22
D4 g6	-	52	68
D5	-	20	35
D6	-	M5x0.8P	M8x1.25P
D7	-	70	90
L2	-	36	46
L3	-	6	7
L4	-	1.5	2.5
L5	-	25	32
L6	-	2	3
L7	-	13.4	14.1
L8	-	67.9	84.7
L9	-	4	4.5
L10	-	16.5	20.5
L11	-	34.3	41.5
C1 [2]	-	70	90
C2 [2]	-	M5x0.8P	M6x1.0P
C3 [2]	-	≦14/≦19	≦19/≦24/≦28
C4 [2]	-	33.5	41
C5 [2] F6	-	50	70
C6 [2]	-	4	6
C7 [2]	-	60	90
C8 [2]	-	44.8	55.8
C9 [2]	-	148.7	186.5
B	-	5	6
H	-	18	24.5

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

★ Specification subject to change without notice.

SGC Specifications Table

Specifications		Stage	Ratio	SGC-50	SGC-70	SGC-90	SGC-120
Nominal Output Torque T_{2N}	N · m	1	3	9	28	85	220
			4	10	32	80	240
			5	11	35	95	270
			7	10	28	85	220
			9	8	23	75	210
			10	8	21	65	190
		Stage	Ratio	SGC-50	SGC-70(T)	SGC-90(T)	SGC-120T
		2	15	11	34	90	250
			20	10	32	80	240
			25	11	35	95	270
			35	11	35	95	270
			45	11	35	95	270
			49	10	28	85	220
			63	10	28	85	220
			81	8	23	75	210
			100	8	21	65	190
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	2500
Max. Input Speed n_{1max}	rpm	1,2	3-100	6000	6000	6000	5000
Standard Backlash P2	arcmin	1	3-10	≦9	≦8	≦7	≦6
		2	15-100	≦12	≦10	≦9	≦8
Torsional Rigidity	N · m /arcmin	1,2	3-100	1.5	4.0	8.5	17
Max. Radial Load F_{2rB} [1]	N	1,2	3-100	760	1250	2030	4200
Max. Axial Load F_{2aB} [1]	N	1,2	3-100	410	700	1200	2600
Operating Temp.	℃	1,2	3-100	-10℃ ~ +90 ℃			
Service Life	hr	1,2	3-100	20,000 (10,000 Continuous operation)			
Efficiency	%	1	3-10	≧95%			
		2	15-100	≧90%			
Weight	kg	1	3-10	0.9	1.9	4.8	11.5
		2	15-100	1.1	2.4(2.2)	6.5(5.4)	13.5
Mounting Position	-	1,2	3-100	Any Direction			
Noise Level [2]	dBA/1m	1,2	3-100	61	63	66	67
Protection Class	-	1,2	3-100	IP65 (Optional : IP67)			
Lubrication	-	1,2	3-100	Synthetic Lubricant (Optional: Food Grade Grease)			

Inertia (J1)

Stage	Ratio	unit	SGC-50(ψ8)	SGC-70(ψ14)	SGC-90(ψ19)	SGC-120(ψ24)
1	3	Kg · cm^2	0.04	0.23	0.77	2.30
	4		0.03	0.21	0.67	1.92
	5		0.03	0.21	0.61	1.71
	7		0.03	0.21	0.60	1.65
	9/10		0.03	0.21	0.60	1.63
Stage	Ratio		SGC-50(ψ8)	SGC-70(ψ14)/ SGC-70T(ψ8)	SGC-90(ψ19)/ SGC-90T(ψ14)	SGC-120T(ψ19)
2	15/20/25		0.03	0.21(0.03)	0.61(0.21)	0.61
	35/49		0.03	0.21(0.03)	0.60(0.21)	0.60
	45/63/81/100		0.03	0.21(0.03)	0.60(0.21)	0.60

* 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.