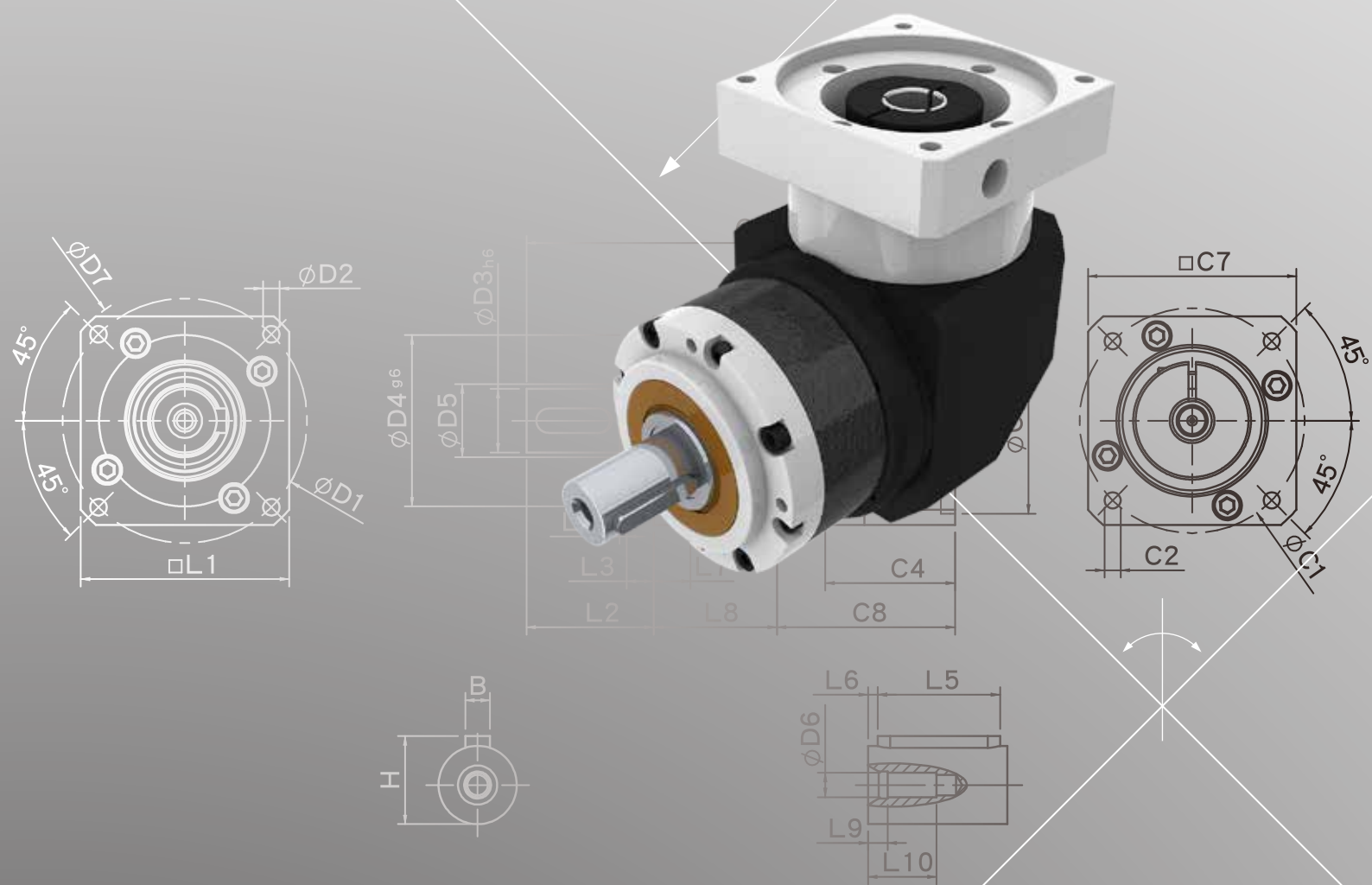
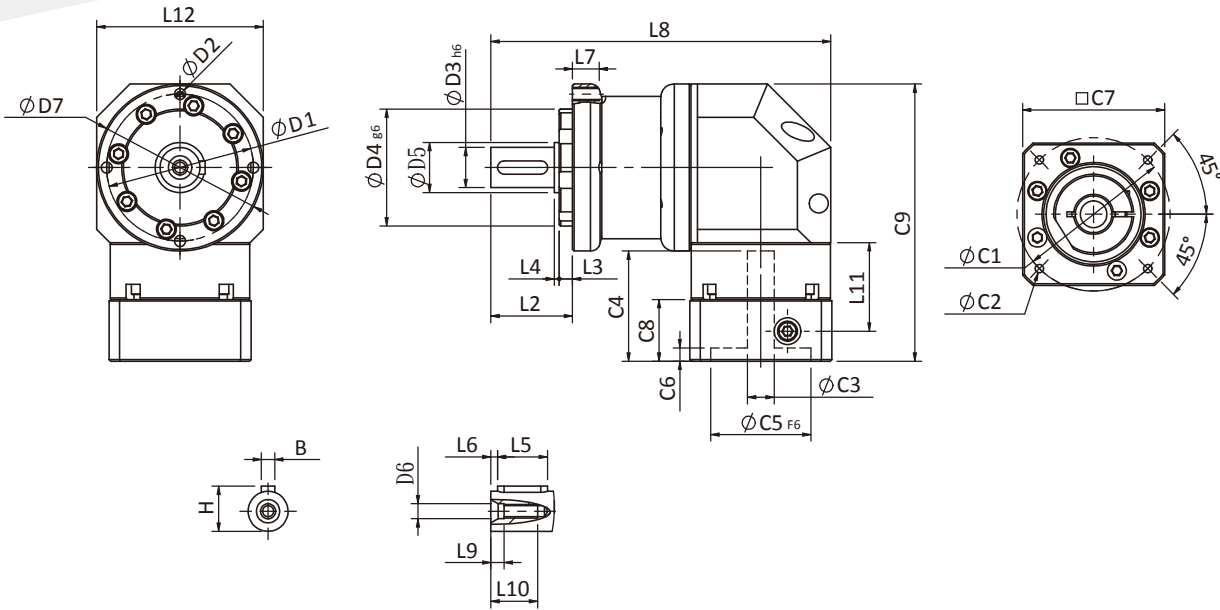


# ***PACR*** SERIES



## PACR Single Stage Dimensions



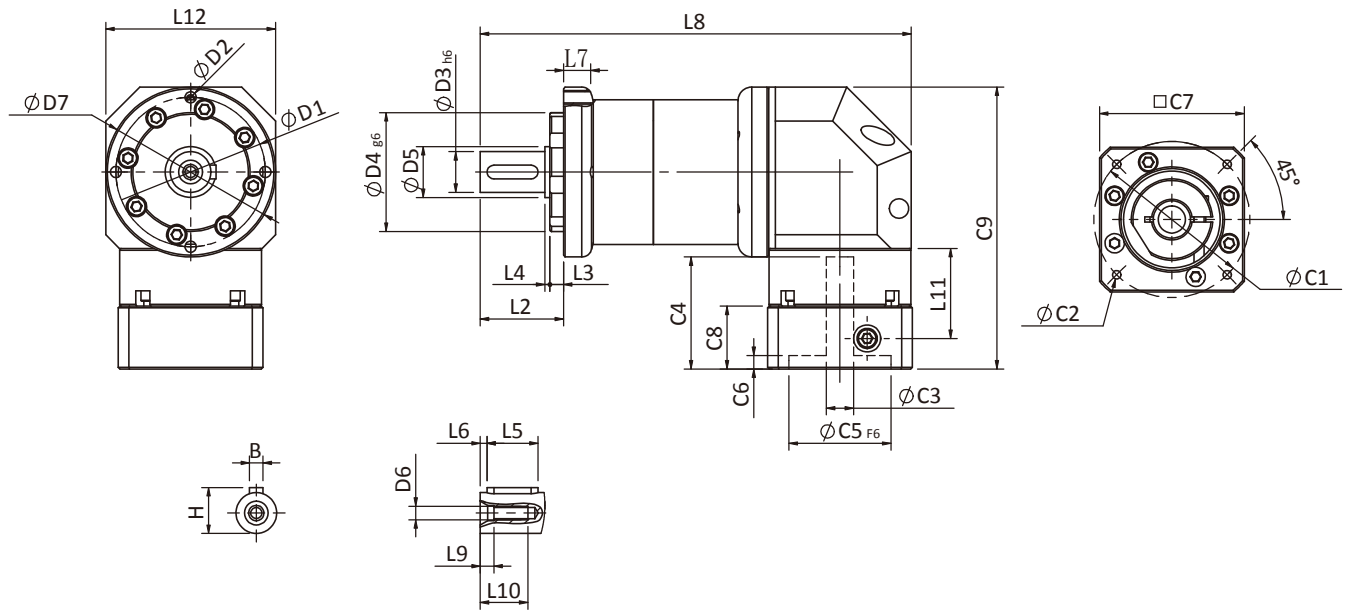
## Specifications

Unit:mm

Dimensions	PACR50	PACR70	PACR90	PACR120
D1	44	62	80	-
D2	M4x0.7P	M5x0.8P	M6x1.0P	-
D3 <sub>h6</sub>	12	16	22	-
D4 <sub>g6</sub>	35	52	68	-
D5	15	20	35	-
D6	M4x0.7P	M5x0.8P	M8x1.25P	-
D7	50	70	90	-
L2	24.5	36	46	-
L3	4	6	7	-
L4	1.5	1.5	2.5	-
L5	15	25	32	-
L6	2	2	3	-
L7	8.8	13.3	14	-
L8	102	143.6	194.5	-
L9	4	4	4.5	-
L10	14	16.5	20.5	-
L11	26.5	36	40.7	-
L12	50	70	98	-
C1 <sup>2</sup>	46	70	90	-
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M6x1.0P	-
C3 <sup>2</sup>	$\leq 8/\leq 11$	$\leq 14/\leq 19$	$\leq 19/\leq 24$	-
C4 <sup>2</sup>	33	44	57	-
C5 <sup>2</sup> <sub>F6</sub>	30	50	70	-
C6 <sup>2</sup>	4	4	6	-
C7 <sup>2</sup>	42.6	60	90	-
C8 <sup>2</sup>	18.5	20	26	-
C9 <sup>2</sup>	83	111.4	149.2	-
B	4	5	6	-
H	13.5	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.

## PACR Double Stage Dimensions-1



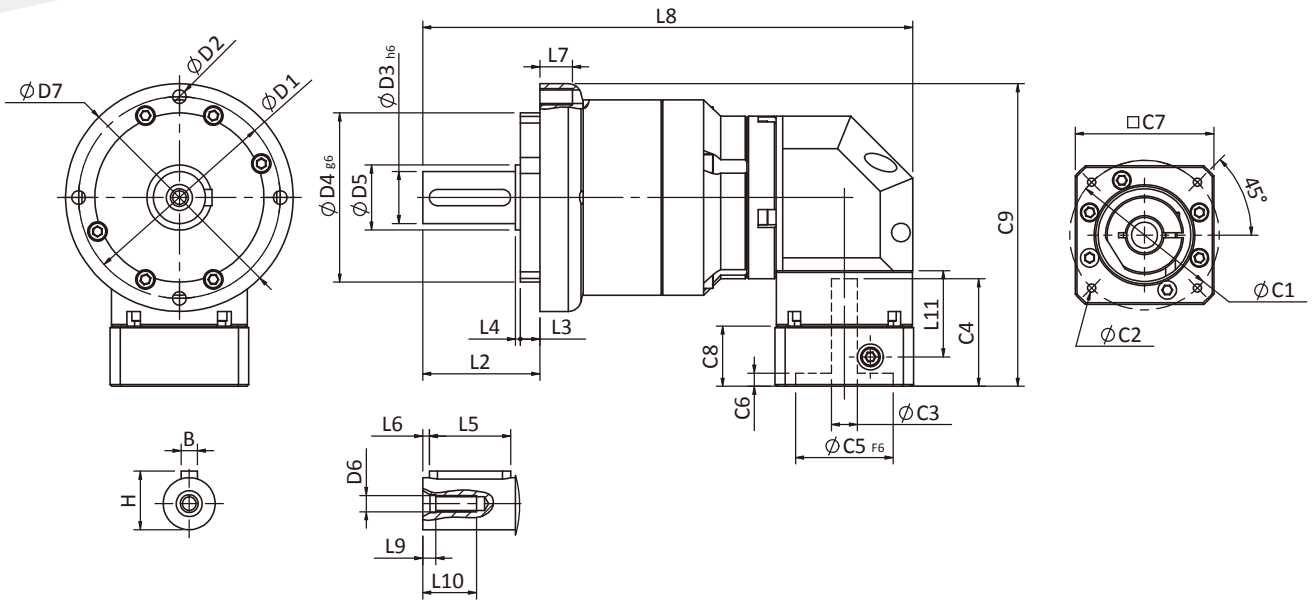
## Specifications

Unit:mm

Dimensions	PACR50	PACR70	PACR90	PACR120
D1	44	62	80	-
D2	M4x0.7P	M5x0.8P	M6x1.0P	-
D3 <sub>h6</sub>	12	16	22	-
D4 <sub>g6</sub>	35	52	68	-
D5	15	20	35	-
D6	M4x0.7P	M5x0.8P	M8x1.25P	-
D7	56	70	90	-
L2	24.5	36	46	-
L3	4	6	7	-
L4	1.5	1.5	2.5	-
L5	15	25	32	-
L6	2	2	3	-
L7	8.8	13.3	14	-
L8	126.9	174.3	235.5	-
L9	4	4	4.5	-
L10	14	16.5	20.5	-
L11	26.5	36	40.7	-
L12	50	70	98	-
C1 <sup>2</sup>	46	70	90	-
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M6x1.0P	-
C3 <sup>2</sup>	$\leq 8/\leq 11$	$\leq 14/\leq 19$	$\leq 19/\leq 24$	-
C4 <sup>2</sup>	33	44	57	-
C5 <sup>2</sup> <sub>F6</sub>	30	50	70	-
C6 <sup>2</sup>	4	4	6	-
C7 <sup>2</sup>	42.6	60	90	-
C8 <sup>2</sup>	18.5	20	26	-
C9 <sup>2</sup>	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.

## PACR Double Stage Dimensions-2



## Specifications

Unit:mm

Dimensions	PACR70T	PACR90T	PACR120T
D1	62	80	108
D2	M5x0.8P	M6x1.0P	M8x1.25P
D3 <sub>h6</sub>	16	22	32
D4 <sub>g6</sub>	52	68	90
D5	20	35	45
D6	M5x0.8P	M8x1.25P	M12x1.75P
D7	70	90	120
L2	36	46	60
L3	6	7	7
L4	1.5	2.5	2
L5	25	32	40
L6	2	3	5
L7	13.3	14	15
L8	150.6	190.6	268.1
L9	4	4.5	6
L10	16.5	20.5	30
L11	26.5	36	40.7
C1 <sup>2</sup>	46	70	90
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M6x1.0P
C3 <sup>2</sup>	$\leq 8/\leq 11$	$\leq 14/\leq 19$	$\leq 19/\leq 24$
C4 <sup>2</sup>	33	44	57
C5 <sup>2</sup> <sub>F6</sub>	30	50	70
C6 <sup>2</sup>	4	4	6
C7 <sup>2</sup>	42.6	60	90
C8 <sup>2</sup>	18.5	20	26
C9 <sup>2</sup>	93	121.4	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.

## PACR Specifications Table

Specifications		Stage	Ratio	PACR-50	PACR-70	PACR-90	PACR-120		
Nominal Output Torque $T_{2N}$	N • m	1	3	9	28	85	135		
			4	10	32	80	180		
			5	11	35	95	215		
			7	10	28	85	220		
			8	10	32	80	210		
			9	9	25	75	210		
			10	11	35	95	210		
			12	10	32	80	-		
			14	10	28	85	220		
		15	11	35	95	-			
				Stage	Ratio	PACR-50	PACR-70/ PACR-70T	PACR-90/ PACR-90T	PACR-120T
				2	20	10	32	80	240
					25	11	35	95	240
					30	11	34	90	230
					35	11	35	95	240
					40	10	32	80	240
					50	11	35	95	240
					60	11	35	95	240
					70	11	35	95	240
					80	11	35	95	240
		100	8		35	95	240		
		120	11		35	95	240		
		140	-	28	85	220			
		200	8	21	65	190			
		300	8	21	65	190			
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	4500	4000	3000	2500		
Max. Input Speed $n_{1max}$	rpm	1,2	3-300	7500	7000	6000	5000		
Standard Backlash P2	arcmin	1 2	3-16 20-300	$\leq 18$ $\leq 20$	$\leq 15$ $\leq 17$	$\leq 13$ $\leq 15$	$\leq 11$ $\leq 13$		
Torsional Rigidity	N • m /arcmin	1,2	3-300	1.5	4.0	8.5	17		
Max. Radial Load $F_{2RB}^1$	N	1,2	3-300	760	1250	2030	4200		
Max. Axial Load $F_{2AB}^1$	N	1,2	3-300	410	700	1200	2600		
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	$\geq 95\%$ $\geq 90\%$					
Weight	kg	1 2	3-16 20-300	1.1 1.3	2.6 3.2/3.0	6.5 8.7/7.1	13.4 15.1		
Mounting Position	-	1,2	3-300	Any direction					
Noise Level <sup>2</sup>	dBA/1m	1,2	3-300	66	68	70	73		
Protection Class	-	1,2	3-300	IP 65					
Lubrication	-	1,2	3-300	Synthetic Lubricant					
Inertia (J1)									
Stage	Ratio	unit		PACR-50 ( $\phi 8$ )	PACR-70 ( $\phi 14$ )	PACR-90 ( $\phi 19$ )	PACR-120 ( $\phi 24$ )		
1	3, 4, 5, 7	Kg • cm <sup>2</sup>		0.07	0.40	2.0	2.7		
	Other ratios			0.05	0.30	1.5	2.2		
Stage	Ratio			PACR-50 ( $\phi 8$ )	PACR-70 ( $\phi 14$ ) PACR-70T ( $\phi 8$ )	PACR-90 ( $\phi 19$ ) PACR-90T ( $\phi 14$ )	PACR-120T ( $\phi 19$ )		
2	20, 25, 35			0.07	0.40/0.07	2.30/0.40	2.2		
	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-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.