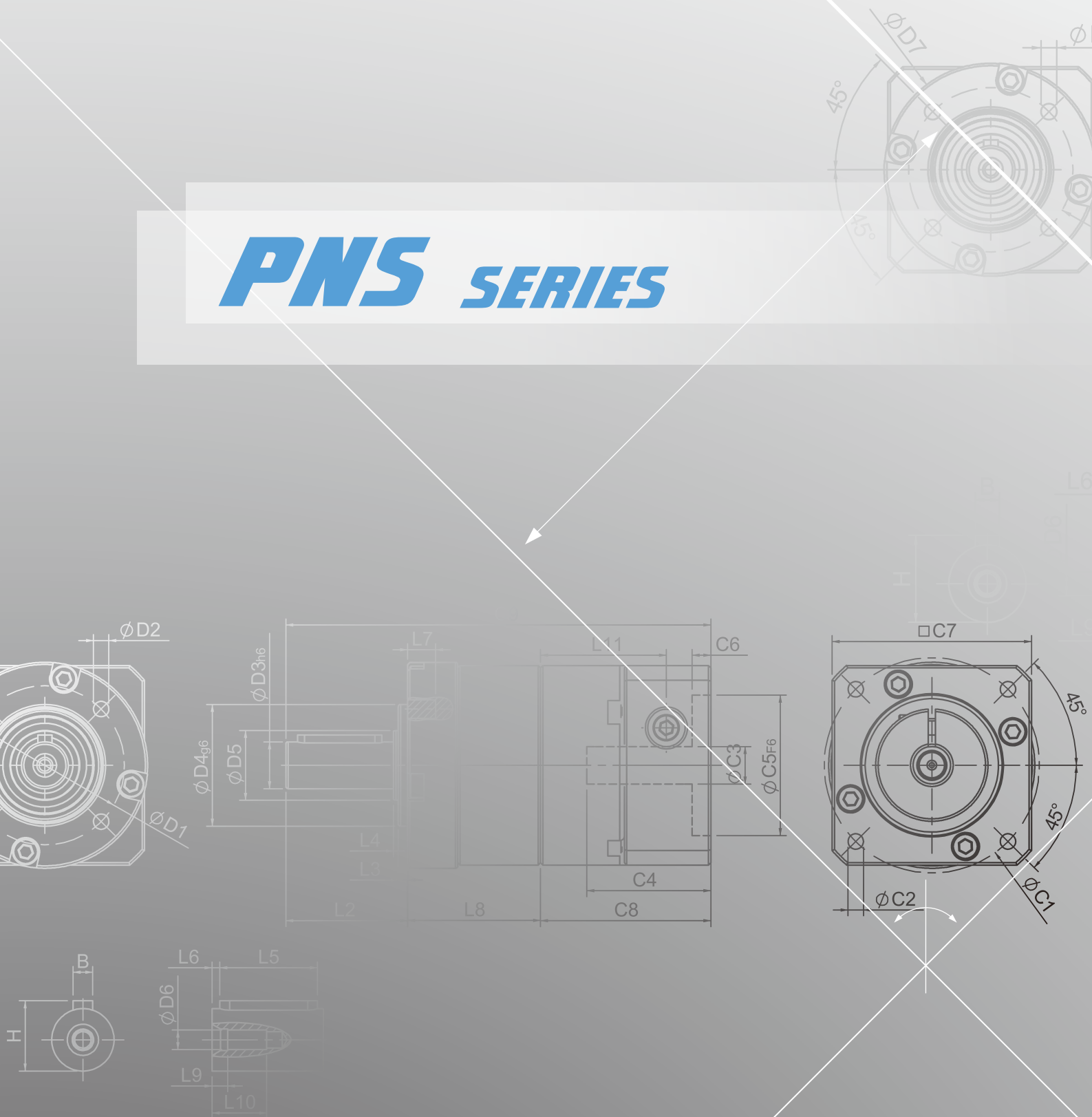
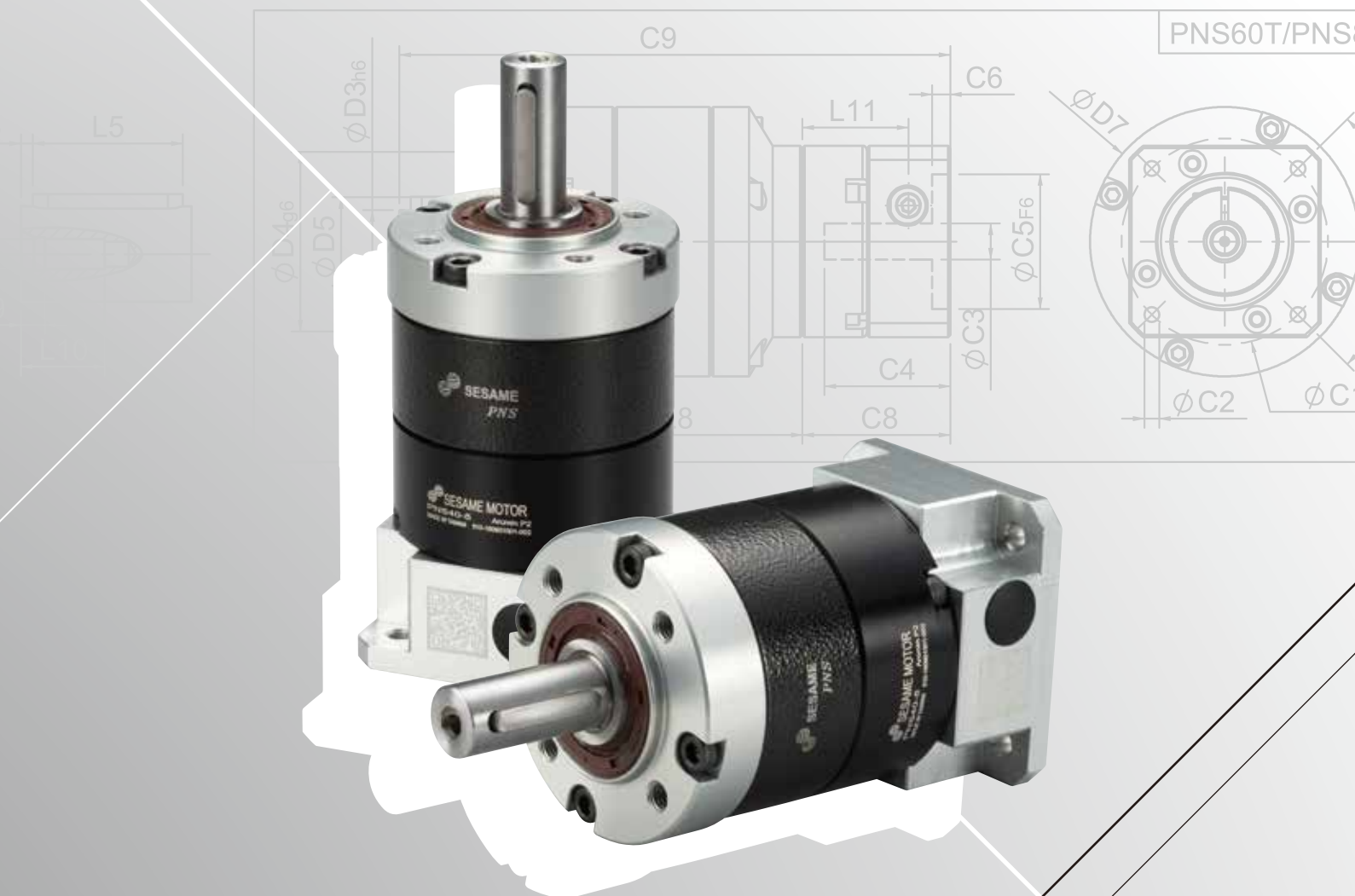
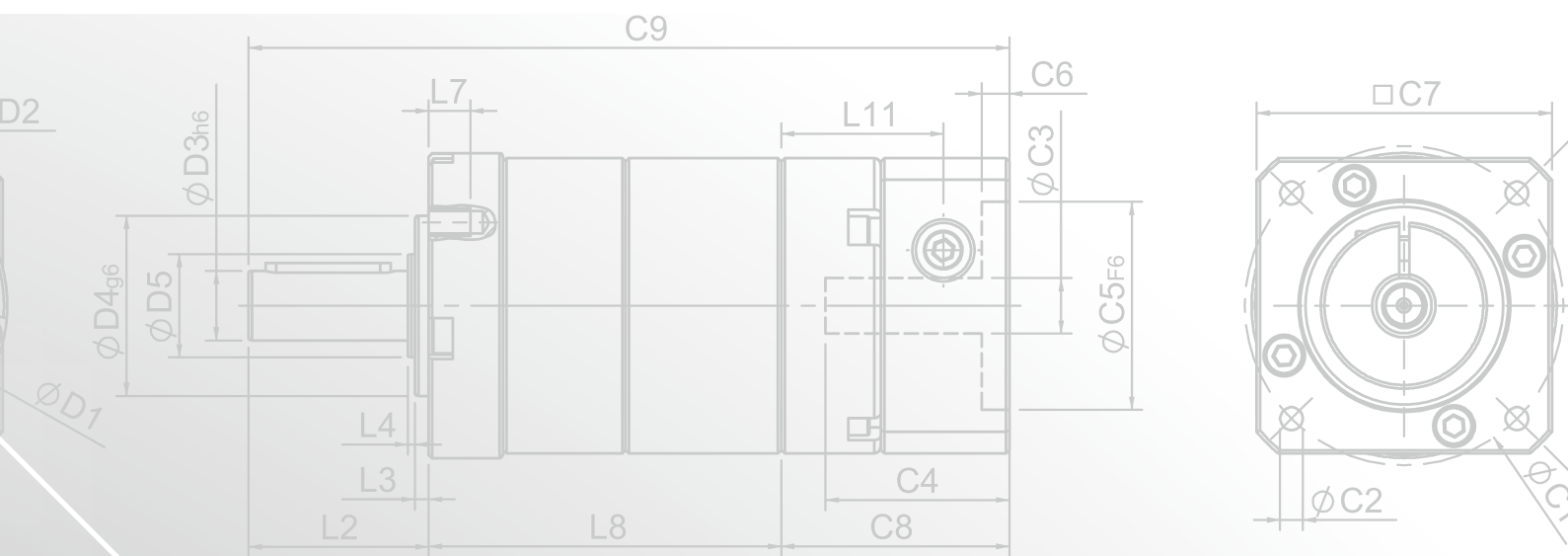
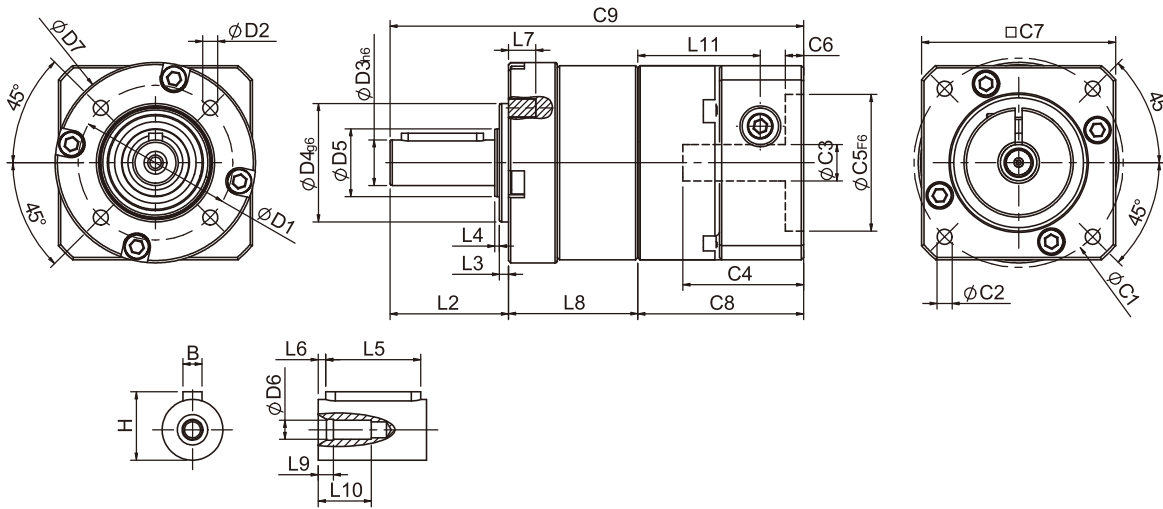


PNS ***SERIES***





PNS Single Stage Dimensions



Specifications

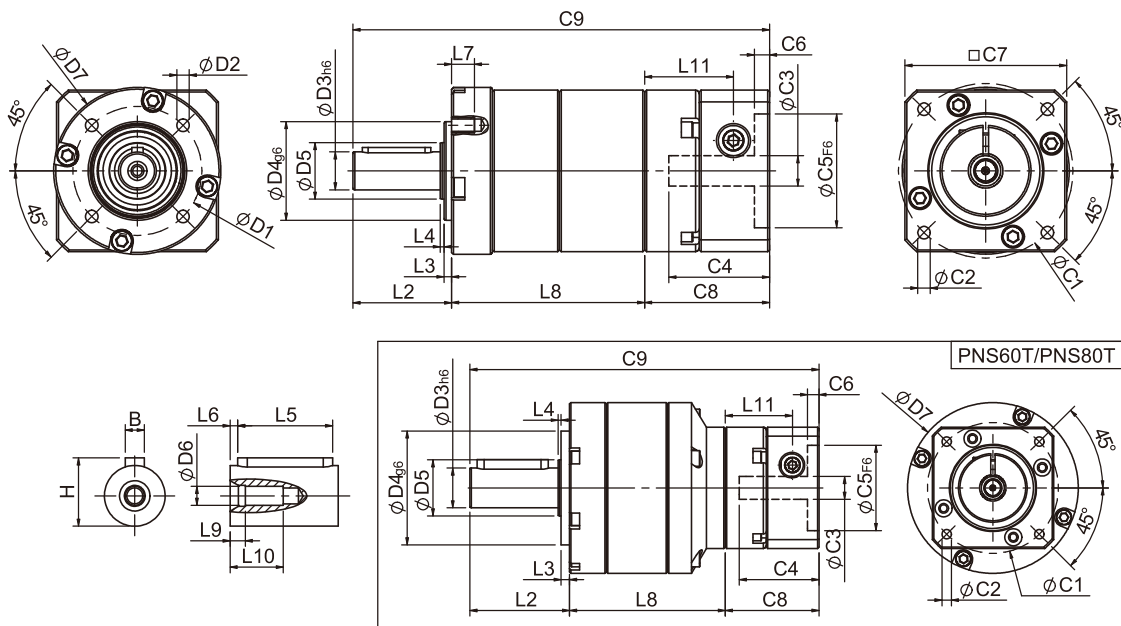
Unit:mm

Dimensions	PNS40	PNS60	PNS80
D1	34	52	70
D2	M4x0.7P	M5x0.8P	M6x1.0P
D3 _{h6}	10	14	20
D4 _{g6}	26	40	60
D5	15	20	35
D6	M3x0.5P	M5x0.8P	M6x1.0P
D7	44	60	90
L2	26	35	40
L3	2	3	3
L4	1	1	1
L5	18	25	28
L6	2.5	2.5	4
L7	6	8	10
L8	28.4	34.4	42.2
L9	3	4	4.5
L10	9	16.5	16.5
L11	26.9	31.6	37.3
C1 ²	46	70	90
C2 ²	M4x0.7P	M5x0.8P	M6x1.0P
C3 ²	$\leq 8/\leq 11$	$\leq 14/\leq 19$	$\leq 19/\leq 24/\leq 28$
C4 ²	26.5	33.5	41
C5 ² _{F6}	30	50	70
C6 ²	4	4	6
C7 ²	42.6	60	90
C8 ²	36.4	42.1	51.5
C9 ²	90.8	111.5	133.7
B	3	5	6
H	11.2	16	22.5

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

★ Specification subject to change without notice.

PNS Double Stage Dimensions



Specifications

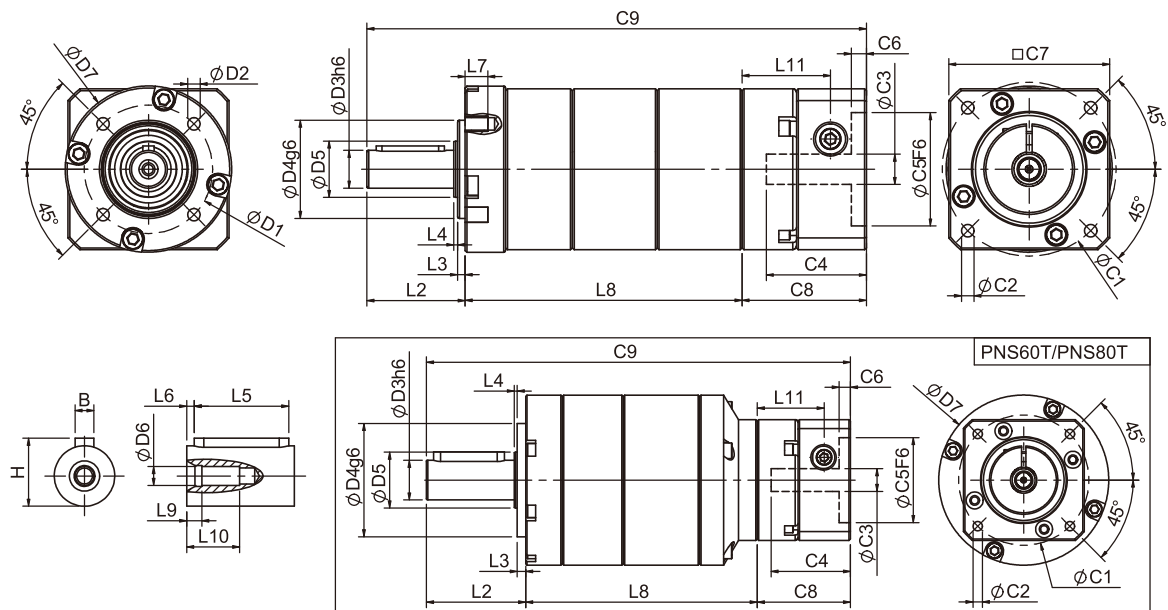
Unit:mm

Dimensions	PNS40	PNS60	PNS60T	PNS80	PNS80T
D1	34	52		70	
D2	M4x0.7P	M5x0.8P		M6x1.0P	
D3 _{h6}	10	14		20	
D4 _{g6}	26	40		60	
D5	15	20		35	
D6	M3x0.5P	M5x0.8P		M6x1.0P	
D7	44	60		90	
L2	26	35		40	
L3	2	3		3	
L4	1	1		1	
L5	18	25		28	
L6	2.5	2.5		4	
L7	6	8		10	
L8	50.9	61.4	54.7	76	71.5
L9	3	4		4.5	
L10	9	16.5		16.5	
L11	23.4	31	23.4	37.3	31
C1 ²	46	70	46	90	70
C2 ²	M4x0.7P	M5x0.8P	M4x0.7P	M6x1.0P	M5x0.8P
C3 ²	≤8/≤11	≤14/≤19	≤8/≤11	≤19/≤24/≤28	≤14/≤19
C4 ²	26.5	33.5	26.5	41	33.5
C5 ² _{F6}	30	50	30	70	50
C6 ²	4	4	4	6	4
C7 ²	42.6	60	42.6	90	60
C8 ²	32.9	41.5	32.9	51.5	41.5
C9 ²	109.8	137.9	122.6	167.5	153
B	3	5		6	
H	11.2	16		22.5	

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

* Specification subject to change without notice.

PNS Triple Stage Dimensions



Specifications

Unit:mm

Dimensions	PNS40	PNS60T	PNS80T
D1	34	52	70
D2	M4x0.7P	M5x0.8P	M6x1.0P
D3 _{h6}	10	14	20
D4 _{g6}	26	40	60
D5	15	20	35
D6	M3x0.5P	M5x0.8P	M6x1.0P
D7	44	60	90
L2	26	35	40
L3	2	3	3
L4	1	1	1
L5	18	25	28
L6	2.5	2.5	4
L7	6	8	10
L8	73.3	81.7	105.3
L9	3	4	4.5
L10	9	16.5	16.5
L11	23.4	23.4	31
C1 ²	46	46	70
C2 ²	M4x0.7P	M4x0.7P	M5x0.8P
C3 ²	$\leq 8/\leq 11$	$\leq 8/\leq 11$	$\leq 14/\leq 19$
C4 ²	26.5	26.5	33.5
C5 ² _{F6}	30	30	50
C6 ²	4	4	4
C7 ²	42.6	42.6	60
C8 ²	32.9	32.9	41.5
C9 ²	132.2	149.6	186.8
B	3	5	6
H	11.2	16	22.5

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

★ Specification subject to change without notice.

PNS Specifications Table

Specifications		Stage	Ratio	PNS-40	PNS-60	PNS-80	PNS-120
Nominal Output Torque T _{2N}	N • m	1	3	9	28	85	200
			4	10	32	80	215
			5	11	35	95	215
			7	10	28	85	200
			9	8	23	75	195
		10	8	21	65	180	
		Stage	Ratio	PNS-40	PNS-60/ PNS-60T	PNS-80 / PNS-80T	PNS-120T
		2	15	11	35/24	95/68	168
			20	11	35/31	95/95	215
			25	11	35/30	95/95	215
			35	11	35/28	95/95	215
			45	11	35/27	95/92	215
			50	11	35/27	95/82	205
			70	10	28/28	85/85	200
			90	8	23/23	75/75	195
		100	8	21/21	65/65	180	
		Stage	Ratio	PNS-40	PNS-60T	PNS-80T	PNS-120T
		3	125	11	35	95	215
			175	11	35	95	215
			225	11	35	95	215
			245	11	35	95	215
			315	11	35	95	215
			405	11	35	95	215
			567	10	28	85	200
			729	8	23	75	195
		1000	8	21	65	180	
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	3-1000	4000	4000	3000	2500
Max. Input Speed n _{1max}	rpm	1,2,3	3-1000	6000	6000	6000	5000
Standard Backlash P2	arcmin	1	3-10	≤ 9	≤ 8	≤ 7	≤ 6
		2	15-100	≤ 12	≤ 10	≤ 9	≤ 8
		3	125~1000	≤ 15	≤ 12	≤ 12	≤ 12
Torsional Rigidity	N • m /arcmin	1,2,3	3-1000	1.2	3.5	8.5	17
Max. Radial Load F _{2rB} ¹	N	1,2,3	3-1000	580	960	2160	-
Max. Axial Load F _{2aB} ¹	N	1,2,3	3-1000	410	430	790	-
Operating Temp.	°C	1,2,3	3-1000	-10°C ~ +90°C			
Service Life	hr	1,2,3	3-1000	20,000(10,000 / Continuous operation)			
Efficiency	%	1	3-10	≥ 95%			
		2	15-100	≥ 90%			
		3	125~1000	≥ 85%			
Weight	kg	1	3-10	0.5	1.1	2.8	-
		2	15-100	0.7	1.5/1.3	4.2/3.1	-
		3	125~1000	-	-	-	-
Mounting Position	-	1,2,3	3-1000	Any direction			
Noise Level ²	dBA/1m	1,2,3	3-1000	60	63	66	67
Protection Class	-	1,2,3	3-1000	IP 65			
Lubrication	-	1,2,3	3-1000	Synthetic Lubricant			
Inertia (J1)							
Stage	Ratio	unit		PNS-40(ψ 8)	PNS-60(ψ 14)	PNS-80(ψ 19)	PNS-120(ψ 24)
1	3	Kg • cm ²		0.04	0.23	0.77	2.30
	4			0.03	0.21	0.67	1.92
	5~10			0.03	0.21	0.61	1.71
Stage	Ratio	Kg • cm ²		PNS-40(ψ 8)	PNS-60(ψ 14) / PNS-60T(ψ 8)	PNS-80(ψ 19) / PNS-80T(ψ 14)	PNS-120T(ψ 19)
2	15			0.04	0.23(0.04)	0.77(0.23)	0.77
	Other ratios			0.03	0.21(0.03)	0.61(0.21)	0.61
Stage	Ratio	Kg • cm ²		PNS-40(ψ 8)	PNS-60T(ψ 8)	PNS-80T(ψ 14)	PNS-120T(ψ 19)
3	All ratios			0.03	0.03	0.21	0.61
* 1. Applied to the output shaft center @100rpm. * 2. Measured at 3000rpm with no load ※ The above figures/specifications are subject to change without prior notice.							

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

* 2. Measured at 3000rpm 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.