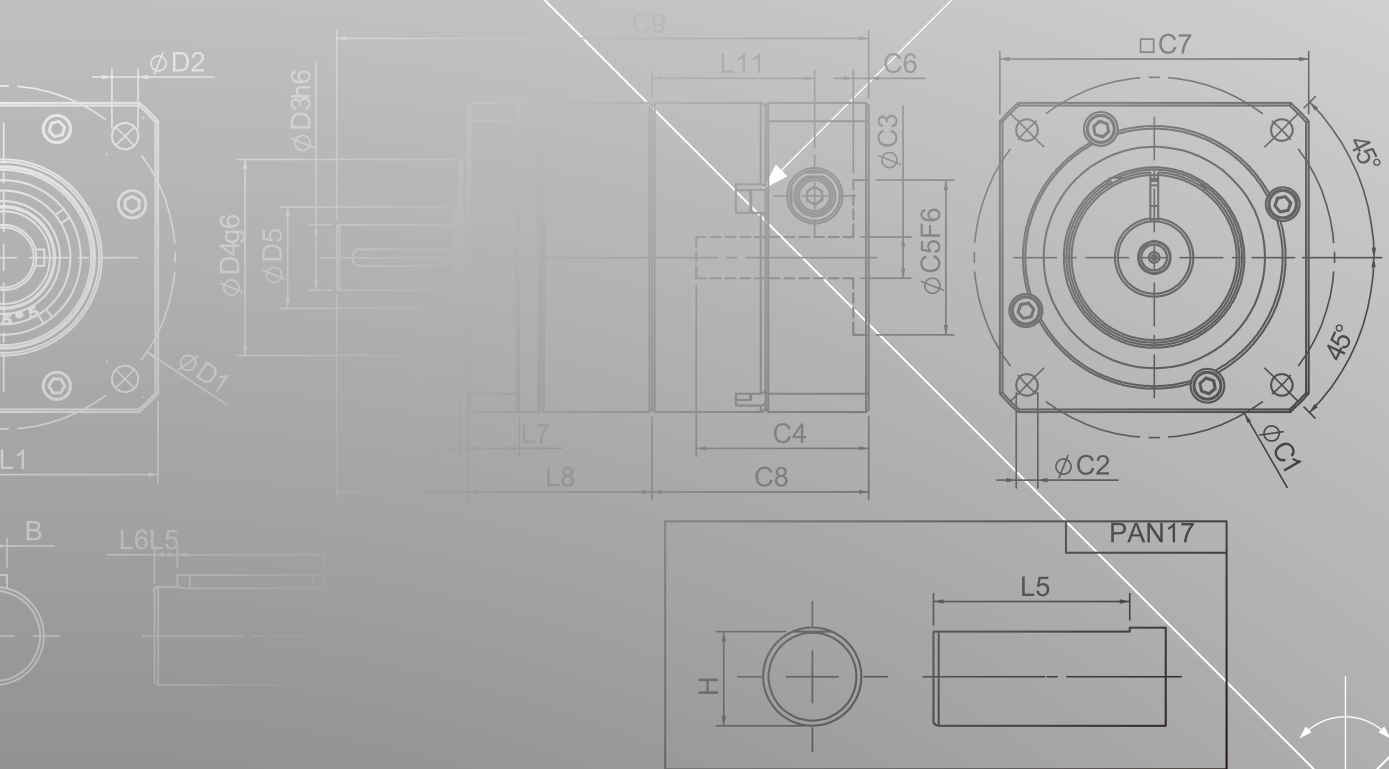
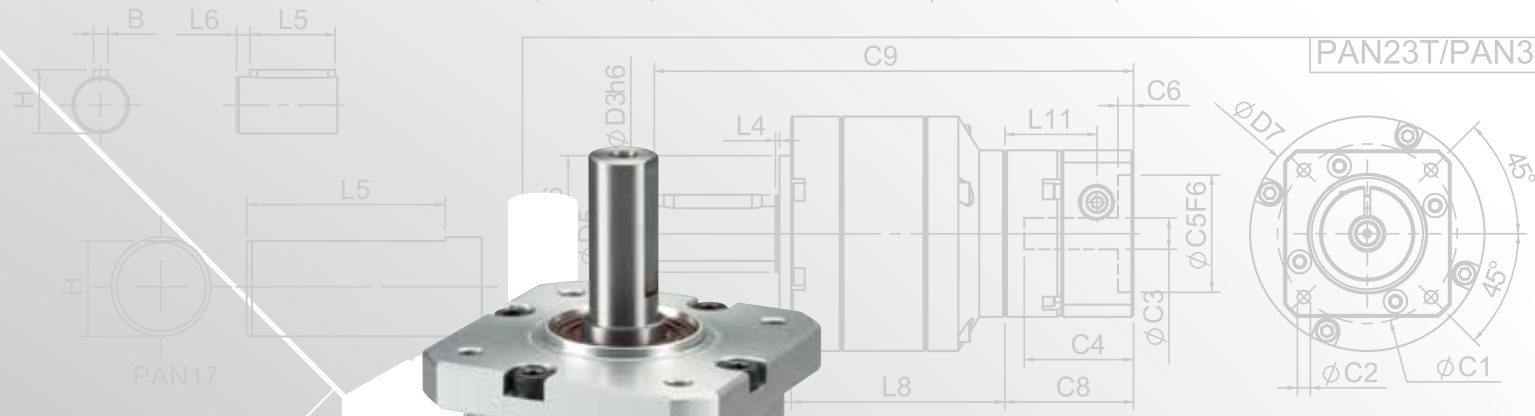
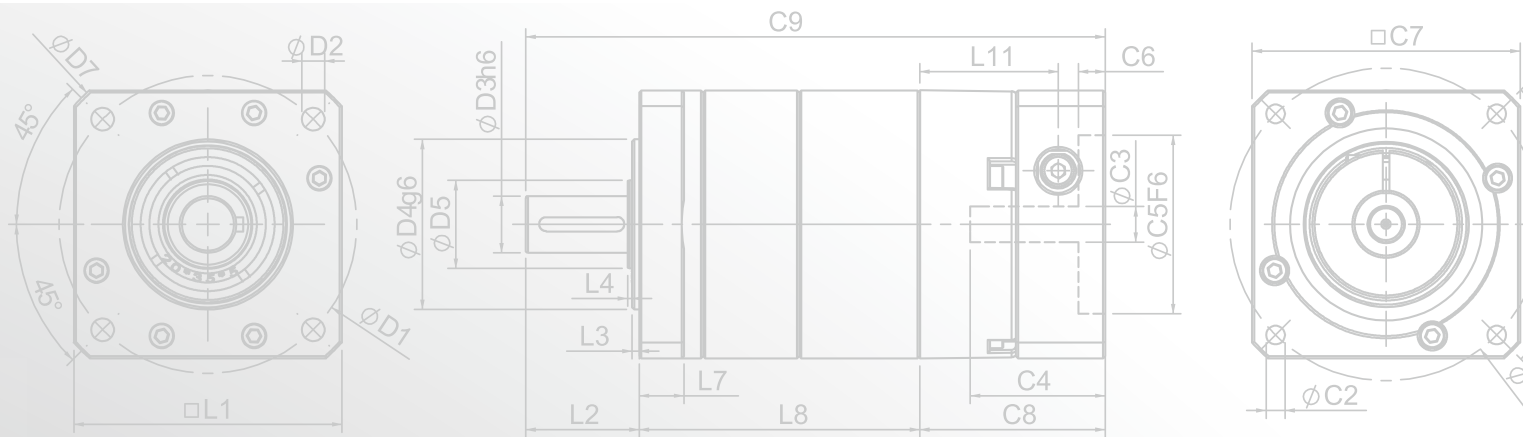
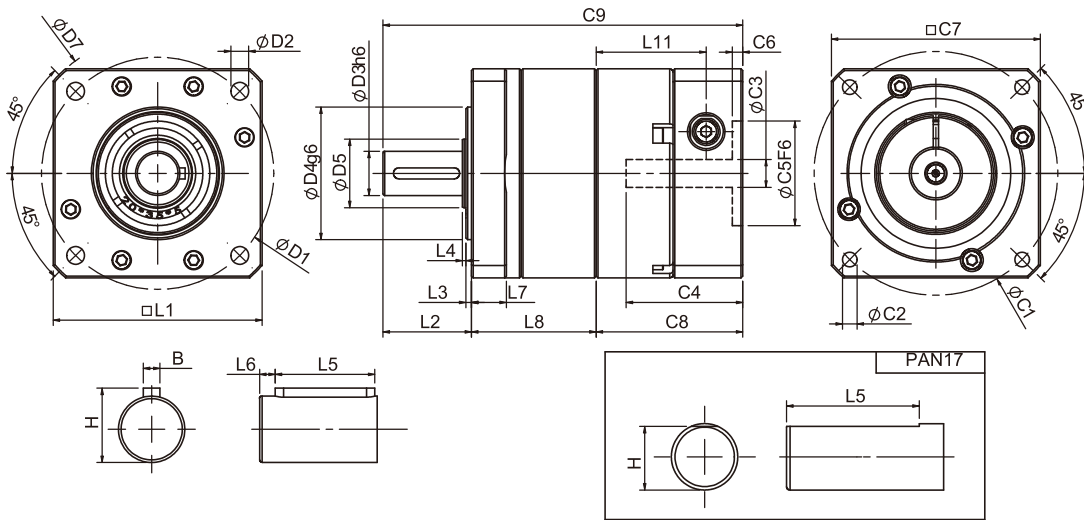


# ***PAN** SERIES*





## PAN Single Stage Dimensions



## Specifications

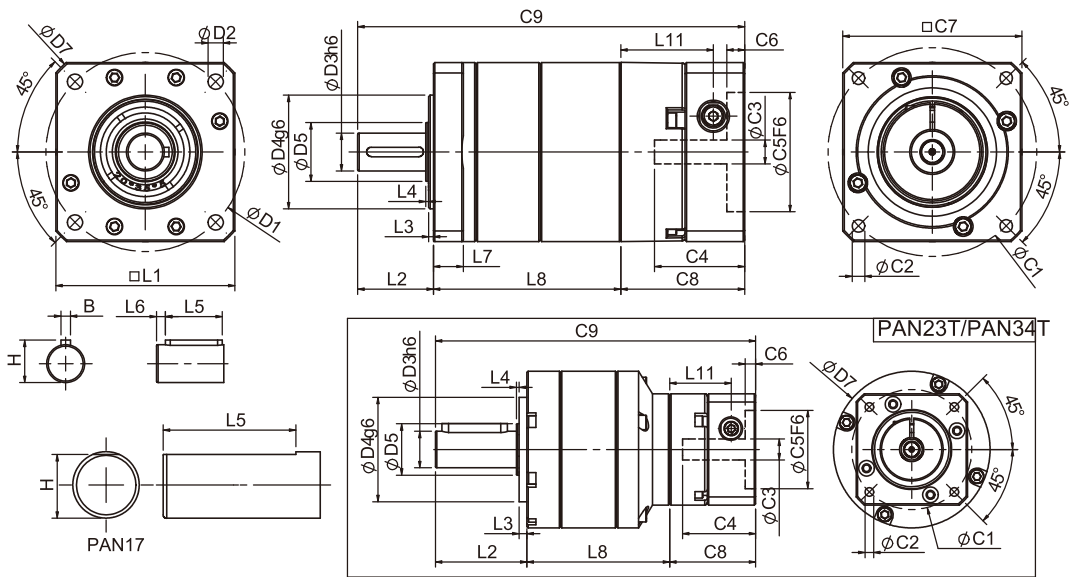
Unit:mm

Dimensions	PAN17	PAN23	PAN34
D1	43.8	66.67	98.425
D2	3.25	5.1	5.6
D3 <sub>h6</sub>	9.525	12.7	19.05
D4 <sub>g6</sub>	21.97	38.1	73.025
D5	12	20	35
D7	56	80	118
L1	44(42.6)	60	90
L2	25.4	25.4	31.75
L3	1.6	1.6	1.7
L4	1	1	1
L5	19.05	19.05	25.4
L6	-	3	3
L7	6.5	10	12
L8	28.8	35.8	43.5
L11	26.9	31.6	37.25
C1 <sup>2</sup>	46	70	90
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M6x1.0P
C3 <sup>2</sup>	≤8/≤11	≤14/≤19	≤19/≤24/≤28
C4 <sup>2</sup>	26.5	33.5	41
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>	36.4	42.1	51.5
C9 <sup>2</sup>	90.6	103.3	126.75
B	-	3.175	4.763
H	9.14	14.22	21.25

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

★ Specification subject to change without notice.

## PAN Double Stage Dimensions



## Specifications

Unit:mm

Dimensions	PAN17	PAN23	PAN23T	PAN34	PAN34T
D1	43.8		66.67		98.425
D2	3.25		5.1		5.6
D3 <sub>h6</sub>	9.525		12.7		19.05
D4 <sub>g6</sub>	21.97		38.1		73.025
D5	12		20		35
D7	56		80		118
L1	44(42.6)		60		90
L2	25.4		25.4		31.75
L3	1.6		1.6		1.7
L4	1		1		1
L5	19.05		19.05		25.4
L6	-		3		3
L7	6.5		10		12
L8	51.25	62.8	56.1	77.3	72.8
L11	23.4	31	23.4	37.25	31
C1 <sup>2</sup>	46	70	46	90	70
C2 <sup>2</sup>	M4x0.7P	M5x0.8P	M4x0.7P	M6x1.0P	M5x0.8P
C3 <sup>2</sup>	≤8/≤11	≤14/≤19	≤8/≤11	≤19/≤24/≤28	≤14/≤19
C4 <sup>2</sup>	26.5	33.5	26.5	41	33.5
C5 <sup>2</sup> <sub>F6</sub>	30	50	30	70	50
C6 <sup>2</sup>	4	4	4	6	4
C7 <sup>2</sup>	42.6	60	42.6	90	60
C8 <sup>2</sup>	32.9	41.5	32.9	51.5	41.5
C9 <sup>2</sup>	109.55	129.7	114.4	160.55	146.05
B	-		3.175		4.763
H	9.14		14.22		21.25

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

★ Specification subject to change without notice.

## PAN Specifications Table

Specifications	Stage	Ratio	PAN-17	PAN-23	PAN-34	PAN-42	PAN-56	
Nominal Output Torque $T_{2N}$	1	3	9	28	85	200	200	
		4	10	32	80	215	215	
		5	11	35	95	215	215	
		7	10	28	85	200	200	
		9	8	23	75	195	195	
		10	8	21	65	180	180	
	2	Stage	Ratio	PAN-17	PAN-23 / PAN-23T	PAN-34 / PAN-34T	PAN-42T	PAN-56T
		15	11	35/24	95/68	168	168	
		20	11	35/31	95/95	215	215	
		25	11	35/30	95/95	215	215	
		35	11	35/28	95/95	215	215	
		45	11	35/27	95/92	215	215	
		50	11	35/27	95/82	205	205	
		70	10	28/28	85/85	200	200	
		90	8	23/23	75/75	195	195	
		100	8	21/21	65/65	180	180	
		3	Stage	Ratio	PAN-17	PAN-23T	PAN-34T	PAN-42T
	125		11	35	95	215	215	
	175		11	35	95	215	215	
	225		11	35	95	215	215	
	245		11	35	95	215	215	
	315		11	35	95	215	215	
	405		11	35	95	215	215	
	567		10	28	85	200	200	
	729	8	23	75	195	195		
	1000	8	21	65	180	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	2500
Max. Input Speed $n_{1max}$	rpm	1,2,3	3-1000	6000	6000	6000	5000	5000
Standard Backlash P2	arcmin	1	3-10	≤ 9	≤ 8	≤ 7	≤ 6	≤ 6
		2	15-100	≤ 12	≤ 10	≤ 9	≤ 8	≤ 8
		3	125~1000	≤ 15	≤ 12	≤ 12	≤ 12	≤ 12
Torsional Rigidity	N • m /arcmin	1,2,3	3-1000	1.2	3.5	8.5	17	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 <sup>2</sup>	dB(A)/1m	1,2,3	3-1000	60	63	66	67	67
Protection Class	-	1,2,3	3-1000	IP 65				
Lubrication	-	1,2,3	3-1000	Synthetic Lubricant				
Inertia (J1)								
Stage	Ratio	unit	PAN-17(ψ8)	PAN-23(ψ14)	PAN-34(ψ19)	PAN-42(ψ24)	PAN-56(ψ24)	
1	3	Kg • cm <sup>2</sup>	0.04	0.23	0.77	2.30	2.30	
	4		0.03	0.21	0.67	1.92	1.92	
	5~10		0.03	0.21	0.61	1.71	1.71	
Stage	Ratio		PAN-17(ψ8)	PAN-23(ψ14) / PAN-23T(ψ8)	PAN-34(ψ19) / PAN-34T(ψ14)	PAN-42T(ψ19)	PAN-56T(ψ19)	
2	15		0.04	0.23(0.04)	0.77(0.23)	0.77	0.77	
	Other ratios		0.03	0.21(0.03)	0.61(0.21)	0.61	0.61	
Stage	Ratio		PAN-17(ψ8)	PAN-23T(ψ8)	PAN-34T(ψ14)	PAN-42T(ψ19)	PAN-56T(ψ19)	
3	All ratios		0.03	0.03	0.21	0.61	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.								

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

# SERVO MOTOR GEARHEADS



PHL

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PHF

PGH

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PUL

PGLH

PGL

PGC

PGE

PGRH

PGR

PGFR

PGF

PBC

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PAE

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PAN

PGS

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