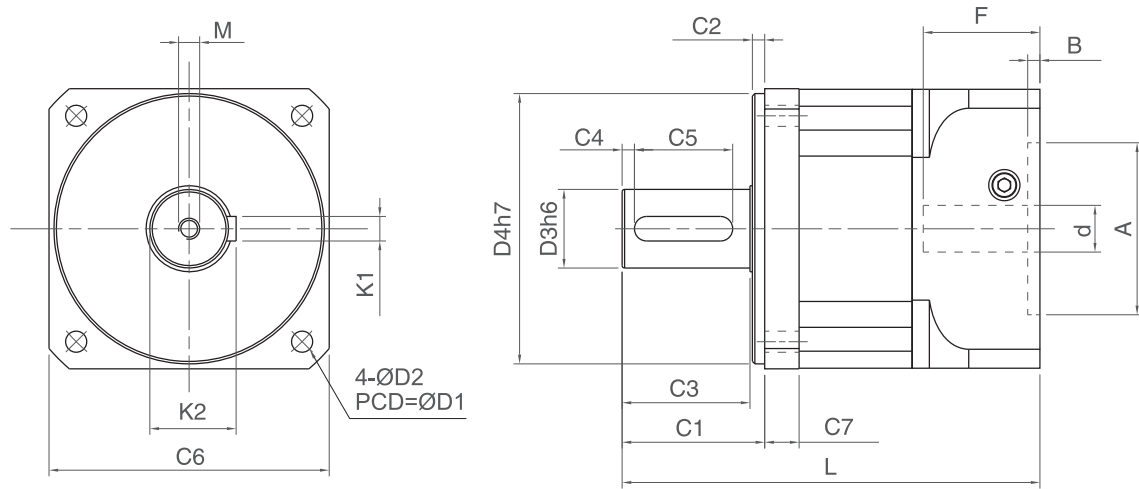


PRECISION, THROUGH HOLE

DMseries

PHT VERTEX PRECISION COMPONENTS CORP.



Unit: mm

Info.	DM042	DM060	DM070	DM090	DM120	DM150	DM180	DM220	
D1	50.0	70.0	75.0	105.0	130.0	165.0	215.0	250.0	
D2	4.20	5.50	5.50	6.80	8.60	10.5	13.0	17.0	
D3	12.0	16 (12~16)	16 (12~16)	20 (16~22)	32 (24~35)	42 (38~45)	55 (50~60)	75 (50~75)	
D4	35.0	50.0	60.0	80.0	110.0	130.0	160.0	180.0	
C1	25.0	35.0	33.0	56.0	58.0	74.0	107.0	124.0	
C2	4.00	7.00	5.00	6.00	5.00	4.00	10.0	15.0	
C3	20.0	27.0	27.0	49.0	52.0	67.0	96.0	106.0	
C4	3.00	3.00	3.00	5.00	5.00	5.00	6.00	7.00	
C5	12.0	20.0	20.0	25.0	40.0	45.0	70.0	90.0	
C6	42.0	60.0	68.0	94.0	114.0	142.0	180.0	220.0	
C7	8.00	15.0	17.0	17.0	18.7	18.0	20.0	30.0	
L	L1	96.9	125.7	125.7	167.0	170.3	262.0	334.0	356.0
	L2	111.4	147.7	147.7	195.3	198.6	313.8	416.0	462.5
M	M4xP0.7x15	M4xP0.7x15	M4xP0.7x15	M6xP1.0x20	M8xP1.25x27	M12xP1.75x 32	M12xP1.75x40	M14xP2.0x40	
K1	4.00	5.00	5.00	6.00	10.0	12.0	14.0	20.0	
K2	13.5	18.0	18.0	22.5	35.1	45.0	58.5	79.5	
d	≦ 8.0	≦ 14.0	≦ 14.0	≦ 24.0	≦ 28.0	≦ 42.0	≦ 55.0	≦ 69.7	
A	22~30	30~50	30~60	50~80	55~110	95~130	95~155	180~250	
B	5.00	6.00	6.00	6.00	5.00	10.0	11.0	12.0	
F	≦ 25.0	≦ 35.0	≦ 35.0	≦ 47.5	≦ 47.5	≦ 66.5	≦ 82.5	≦ 88.5	

Information	Stage	Ratio	DM042	DM060	DM070	DM090	DM120	DM150	DM180	DM220
Defined Output Torque (Nm)	1	3	-	44	48	168	260	476	987	1560
		4	35	54	60	188	306	560	1280	2200
		5	34	48	56	180	292	536	1248	2360
		7	30	46	52	176	285	520	1185	1880
		10	22	44	48	168	260	476	987	1560
	2	9	-	44	48	168	260	476	987	1560
		12	-	44	48	168	260	476	987	1560
		15	-	44	48	168	260	476	987	1560
		16	35	54	60	188	306	560	1280	2200
		20	34	48	56	180	292	536	1248	2360
		21	-	44	48	168	260	476	987	1560
		25	34	48	56	180	292	536	1248	2360
		28	30	46	52	176	285	520	1185	1880
		30	-	44	48	168	260	476	987	1560
		35	30	46	52	176	285	520	1185	1880
		40	22	44	48	168	260	476	987	1560
		50	22	44	48	168	260	476	987	1560
		70	22	44	48	168	260	476	987	1560
	3	100	34	48	56	180	292	536	1248	2360
Peak Output Torque (Nm)	1, 2, 3	3~100	3 times of Defined Output Torque							
Backlash (arc min)	1	3~10	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
	2	9~70	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Defined Input Speed (RPM)	1	3, 4, 5	3300	3300	3300	2600	2300	2200	1500	1500
		7, 10	4000	4000	4000	2900	2700	2700	2400	2000
	2	9~40	4400	4400	4400	3200	3000	3000	2800	2400
		50, 70	4800, 5500	4800, 5500	4800, 5500	3600, 4200	3300, 3900	3200, 3500	3000, 3200	2500, 2000
Weight (kg)	1	3~10	0.40	1.28	1.40	4.10	6.30	18.0	38.0	70.0
	2	9~70	0.50	1.60	1.80	5.20	7.80	25.0	50.0	78.0
Torsional Rigidity (Nm/arc min)	1, 2	3~70	3.0	6.50	7.00	14.00	27.00	48.0	115	218
Allowable Radial Force (N)			700	1400	1400	6200	7500	14000	22000	28800
Allowable Axial Force (N)			350	800	800	5200	6450	12000	20000	26000
Noise (dB)			65	65	65	64	64	64	64	64
Life Time (hrs)			20000							
Temperature (°C)			-15°C~+90°C							
Protection Rank			IP64							
Lubricant	Synthetic Lubricant, ISO VG220									
Mass Moments of Inertia (kg X cm²)	1	3	-	0.042	0.042	0.78	2.38	19.80	48.70	66.50
		4	0.04	0.030	0.030	0.60	2.00	17.00	45.00	63.20
		5	0.04	0.029	0.029	0.59	2.00	17.00	46.50	65.00
		7	0.04	0.028	0.028	0.73	2.00	16.80	46.50	65.80
		10	0.04	0.035	0.035	0.75	2.30	19.00	48.00	66.80
	2	9	-	0.042	0.042	0.78	2.38	19.80	19.80	24.50
		12	-	0.030	0.030	0.73	2.10	17.00	19.00	24.00
		16	0.03	0.030	0.030	0.60	2.10	17.00	17.00	22.00
		20	0.03	0.030	0.030	0.60	2.10	16.8	17.00	22.00
		25	0.03	0.029	0.029	0.75	2.10	17.00	17.00	21.50
		28	0.03	0.030	0.030	0.75	2.10	19.00	17.00	21.50
		35	0.03	0.030	0.030	0.73	2.38	19.00	19.00	21.00
		40	0.03	0.035	0.035	0.78	2.38	19.00	19.00	21.00
		50	0.03	0.035	0.035	0.78	2.38	19.00	19.00	21.00
	70	0.03	0.035	0.035	0.78	2.38	19.00	19.00	21.00	
	3	100	0.03	0.035	0.035	0.78	2.38	19.80	19.80	20.60