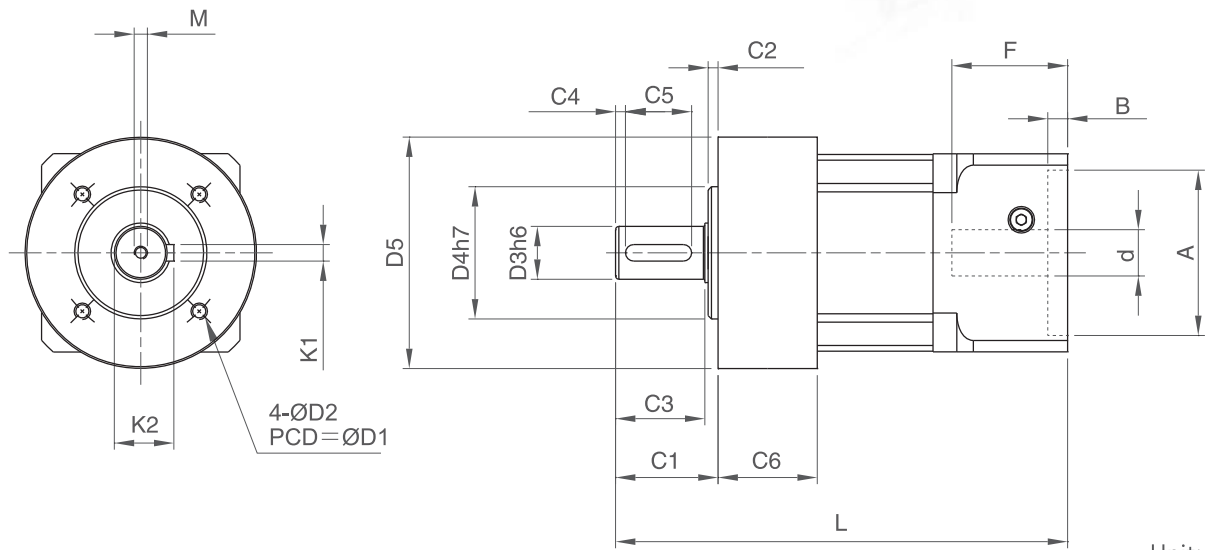


**PRECISION, THREAD HOLE**

# DMLseries

PHT VERTEX PRECISION COMPONENTS CORP.



Unit: mm

Info.	DML042	DML060	DML090	DML120	DML150	DML180	DML220	
D1	34.0	50.0	70.0	100.0	145.0	184.0	210.0	
D2	M4	M5	M6	M8	M12	M12	M16	
D3	12.0	16 (12~16)	20 (16~22)	32 (24~35)	42 (38~45)	55 (50~60)	75 (50~75)	
D4	26.0	40.0	60.0	80.0	130.0	160.0	180.0	
D5	46.0	70.0	101.0	128.0	160.0	205.0	260.0	
C1	23.0	31.0	55.0	58.0	74.0	107.0	124.0	
C2	2.00	3.00	5.00	5.00	4.00	10.0	15.0	
C3	20.0	27.0	49.0	52.0	67.0	96.0	106.0	
C4	3.00	3.00	5.00	5.00	5.00	6.00	7.00	
C5	12.0	20.0	25.0	40.0	45.0	70.0	90.0	
C6	24.2	30.0	35.0	32.0	38.0	40.0	55.0	
L	L1	106.9	136.7	184.0	118.3	282.0	354.0	381.0
	L2	121.4	158.7	212.3	216.6	333.8	436.0	487.5
M	M4xP0.7x15	M4xP0.7x15	M6xP1.0x20	M8xP1.25x27	M12xP1.75x 32	M12xP1.75x40	M14xP2.0x40	
K1	4.00	5.00	6.00	10.0	12.0	14.0	20.0	
K2	13.5	18.0	22.5	35.1	45.0	58.5	79.5	
d	≦ 8.0	≦ 14.0	≦ 24.0	≦ 28.0	≦ 42.0	≦ 55.0	≦ 69.7	
A	22~30	30~50	50~80	55~110	95~130	95~155	180~250	
B	5.00	6.00	6.00	5.00	10.0	11.0	12.0	
F	≦ 25.0	≦ 35.0	≦ 47.5	≦ 47.5	≦ 66.5	≦ 82.5	≦ 88.5	

Information	Stage	Ratio	DML042	DML060	DML090	DML120	DML150	DML180	DML220	
<b>Defined Output Torque (Nm)</b>	1	3	-	44	168	260	476	987	1560	
		4	35	54	188	306	560	1280	2200	
		5	34	48	180	292	536	1248	2360	
		7	30	46	176	285	520	1185	1880	
		10	22	44	168	260	476	987	1560	
	2	9	-	44	168	260	476	987	1560	
		12	-	44	168	260	476	987	1560	
		15	-	44	168	260	476	987	1560	
		16	35	54	188	306	560	1280	2200	
		20	34	48	180	292	536	1248	2360	
		21	-	44	168	260	476	987	1560	
		25	34	48	180	292	536	1248	2360	
		28	30	46	176	285	520	1185	1880	
		30	-	44	168	260	476	987	1560	
		35	30	46	176	285	520	1185	1880	
		40	22	44	168	260	476	987	1560	
		50	22	44	168	260	476	987	1560	
		70	22	44	168	260	476	987	1560	
	3	100	34	48	180	292	536	1248	2360	
	<b>Peak Output Torque (Nm)</b>	1, 2, 3	3~100	<b>3 times of Defined Output Torque</b>						
<b>Backlash (arc min)</b>	1	3~10	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	
	2	9~70	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	
<b>Defined Input Speed (RPM)</b>	1	3, 4, 5	3300	3300	2600	2300	2200	1500	1500	
		7, 10	4000	4000	2900	2700	2700	2400	2000	
	2	12~40	4400	4400	3200	3000	3000	2800	2400	
		50	4800	4800	3600	3300	3200	3000	2500	
<b>Weight (kg)</b>	1	3~10	0.40	1.28	4.10	6.30	18.0	38.0	70.0	
	2	9~70	0.50	1.60	5.20	7.80	25.0	50.0	78.0	
<b>Torsional Rigidity (Nm/arc min)</b>	1, 2	3~70	3.0	6.50	14.00	27.00	48.0	115	218	
<b>Allowable Radial Force (N)</b>			630	1260	5580	6750	12600	19800	25920	
<b>Allowable Axial Force (N)</b>			315	720	4680	5805	10800	18000	23400	
<b>Noise (dB)</b>			65	65	64	64	64	64	64	
<b>Life Time (hrs)</b>			20000							
<b>Temperature (°C)</b>			-15°C~+90°C							
<b>Protection Rank</b>			IP64							
<b>Lubricant</b>	Synthetic Lubricant, ISO VG220									
<b>Mass Moments of Inertia (kg X cm<sup>2</sup>)</b>	1	3	-	0.042	0.78	2.38	19.80	48.70	66.50	
		4	0.04	0.030	0.60	2.00	17.00	45.00	63.20	
		5	0.04	0.029	0.59	2.00	17.00	46.50	65.00	
		7	0.04	0.028	0.73	2.00	16.80	46.50	65.80	
		10	0.04	0.035	0.75	2.30	19.00	48.00	66.80	
	2	9	-	0.042	0.78	2.38	19.80	19.80	24.50	
		12	-	0.030	0.73	2.10	17.00	19.00	24.00	
		16	0.03	0.030	0.60	2.10	17.00	17.00	22.00	
		20	0.03	0.030	0.60	2.10	16.8	17.00	22.00	
		25	0.03	0.029	0.75	2.10	17.00	17.00	21.50	
		28	0.03	0.030	0.75	2.10	19.00	17.00	21.50	
		35	0.03	0.030	0.73	2.38	19.00	19.00	21.00	
		40	0.03	0.035	0.78	2.38	19.00	19.00	21.00	
		50	0.03	0.035	0.78	2.38	19.00	19.00	21.00	
	70	0.03	0.035	0.78	2.38	19.00	19.00	21.00		
	3	100	0.03	0.035	0.78	2.38	19.80	19.80	20.60	