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# PLANETARY GEARHEADS

## PGR Specifications Table PGR性能規格共表

規格 Specifications		節數 Stage	減速比 Ratio	PGR-42	PGR-60	PGR-90	PGR-115	PGR-142	PGR-180	PGR-220
額定輸出力矩 T <sub>2N</sub> Nominal Output Torque	N • m	1	3	13.8	44.3	95.2	283	482	1510	1670
			4	11.9	35.9	74.6	249	490	1055	1574
			5	13.8	43.0	95.2	283	473	1151	1670
			6	12.5	39.4	90.9	266	436	1055	1574
			7	11.9	36.0	85.6	219	400	1055	1574
			8	10.9	32.4	85.0	216	363	860	1184
			9	9.8	28.7	80.0	210	320	764	1185
		10	10.1	25.0	75.0	210	320	763	1184	
		節數 Stage	減速比 Ratio	PGR-42	PGR-60 (T)	PGR-90(T)	PGR-115(T)	PGR-142(T)	PGR-180T	PGR-220T
		2	15	13.8	44.2	95.2	283	482	1151	1670
			20	11.9	35.9	74.6	249	490	1055	1574
			25	13.8	43.0	95.2	283	473	1151	1670
			30	13.8	43.0	95.2	283	473	1151	1670
			35	13.8	43.0	95.2	283	473	1151	1670
			40	13.8	43.0	95.2	283	473	1151	1670
			45	13.8	43.0	95.2	283	473	1151	1670
			50	13.8	43.0	95.2	283	473	1151	1670
			60	12.5	39.4	90.9	266	436	1055	1574
			70	11.9	36.0	85.6	219	400	1055	1574
80	10.9		32.4	85.0	216	363	860	1184		
90	9.8		28.7	80.0	210	320	764	1185		
100	10.1	25.0	75.0	210	320	763	1184			
急停力矩 T <sub>2NOT</sub> Emergency Stop Torque	N • m	3.0 倍額定輸出力矩 ( 3.0 times of Nominal Output Torque) (* 最大輸出力矩 Max. Output Torque T <sub>2B</sub> =60% of Emergency Stop Torque)								
額定輸入轉速 n <sub>1N</sub> Nominal Input Speed	rpm	1,2	3-100	3000	3000	3000	2500	2000	2000	2000
最大輸入轉速 n <sub>1max</sub> Max. Input Speed	rpm	1,2	3-100	6000	6000	6000	5000	4000	4000	4000
超精密背隙 Micro Backlash P0	arcmin	1	3-10	-	-	-	≤ 4	≤ 4	≤ 4	≤ 4
		2	12-100	-	-	-	≤ 6	≤ 6	≤ 6	≤ 6
精密背隙 Precision Backlash P1	arcmin	1	3-10	-	-	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
		2	12-100	-	-	≤ 9	≤ 8	≤ 8	≤ 8	≤ 8
標準背隙 Standard Backlash P2	arcmin	1	3-10	≤ 12	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
		2	12-100	≤ 15	≤ 12	≤ 12	≤ 11	≤ 11	≤ 11	≤ 11
扭轉剛性 Torsional Rigidity	N • m /arcmin	1,2	3-100	1.0	2.8	7.5	15.5	30	57	110
容許徑向力 F <sub>2rB</sub> <sup>1</sup> Max. Radial Load	N	1,2	3-100	350	960	1630	3380	6150	7260	11120
容許軸向力 F <sub>2aB</sub> <sup>1</sup> Max. Axial Load	N	1,2	3-100	320	900	1420	2930	5510	5550	8560
使用溫度 Operating Temp.	°C	-10 °C ~ +90 °C								
使用壽命 Service Life	hr	3-100 20,000 (10,000/ 連續運轉 Continuous operation)								
效率 Efficiency	%	1	3-10	≥ 94%						
		2	12-100	≥ 90%						
重量 Weight	kg	1	3-10	1.0	2.5	6.5	13.2	24.6	49	81
		2	12-100	1.3	3.2/2.8	8.6/6.9	17.7/14.5	29.7/26.2	53	87
安裝方向 Mounting Position	-	1,2	3-100	任意方向 Any direction						
噪音值 Noise Level <sup>2</sup>	dB(A)/1m	1,2	3-100	65	67	70	70	75	75	80
防護等級 Protection Class	-	1,2	3-100	IP65						
潤滑 Lubrication	-	1,2	3-100	全合成潤滑油 Synthetic Lubricant						
減速機轉動慣量 Inertia(J1)										
節數 Stage	減速比 Ratio	單位 unit	PGR-42	PGR-60	PGR-90	PGR-115	PGR-142	PGR-180	PGR-220	
1	3/4/5/7/9	Kg • cm <sup>2</sup>	0.06	0.40	2.28	6.87	24.2	69.8	138.2	
	6/8/10		0.05	0.30	1.45	4.76	14.5	50.3	103.6	
節數 Stage	減速比 Ratio		PGR-42	PGR-60(T)	PGR-90(T)	PGR-115(T)	PGR-142(T)	PGR-180T	PGR-220T	
2	15/20/25/35/45		0.06	0.40(0.08)	2.28(0.72)	6.87(3.02)	24.2(7.83)	27.7	80.3	
	others		0.05	0.30(0.06)	1.45(0.38)	4.76(1.64)	14.5(5.00)	15.9	55.3	

\* 1. 輸出轉速 100rpm 時, 作用於輸出軸中心位置 Applied to the output shaft center @100rpm.

\* 2. 3000rpm 空載重測 Measured at 3000rpm with no load. \* 3.PGR115T - □□ - P0不適用上表。 PGR115T - □□ - P0 is not applicable.

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