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PLANETARY GEARHEADS

PGRH Specifications Table PGRH性能規格共表

規格 Specifications		節數 Stage	減速比 Ratio	PGRH-42	PGRH-60	PGRH-90	PGRH-115	PGRH-142	PGRH-180	PGRH-220		
額定輸出力矩 T _{2N} Nominal Output Torque	N · m	1	3	19	53	145	290	520	950	1550		
			4	20	55	150	300	550	1000	1650		
			5	17	54	140	290	530	1050	1700		
			6	15	46	135	280	490	1000	1600		
			7	14	44	125	270	450	960	1500		
			8	12	41	110	240	390	900	1350		
			9	11	37	95	220	360	800	1250		
			10	11	37	95	220	360	800	1250		
			14	14	44	125	270	450	960	1500		
			20	11	37	95	220	360	800	1250		
				節數 Stage	減速比 Ratio	PGRH-42	PGRH-60 (T)	PGRH-90(T)	PGRH-115(T)	PGRH-142(T)	PGRH-180T	PGRH-220T
				2	15	19	53	145	290	520	950	1550
					20	20	55	150	300	550	1000	1650
					25	17	54	140	290	530	1050	1700
					30	17	54	140	290	530	1050	1700
					35	17	54	140	290	530	1050	1700
					40	17	54	140	290	530	1050	1700
					45	17	54	140	290	530	1050	1700
					50	17	54	140	290	530	1050	1700
					60	15	46	135	280	490	1000	1600
		70	14		44	125	270	450	960	1500		
		80	12	41	110	240	390	900	1350			
		90	11	37	95	220	360	800	1250			
		100	11	37	95	220	360	800	1250			
		120	15	46	135	280	490	1000	1600			
		140	14	44	125	270	450	960	1500			
		160	12	41	110	240	390	900	1350			
		180	11	37	95	220	360	800	1250			
		200	11	37	95	220	360	800	1250			
急停力矩 T _{2NOT} 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 _{2B} =60% of Emergency Stop Torque)									
額定輸入轉速 n _{1N} Nominal Input Speed	rpm	1,2	3-200	5000	5000	4000	4000	3000	3000	2000		
最大輸入轉速 n _{1max} Max. Input Speed	rpm	1,2	3-200	10000	10000	8000	8000	6000	6000	4000		
超精密背隙 Micro Backlash P0	arcmin	1	3-20	-	-	≤ 3	≤ 2	≤ 2	≤ 2	≤ 2		
		2	15-200	-	-	≤ 5	≤ 4	≤ 4	≤ 4	≤ 4		
精密背隙 Precision Backlash P1	arcmin	1	3-20	≤ 5	≤ 5	≤ 5	≤ 4	≤ 4	≤ 4	≤ 4		
		2	15-200	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7		
標準背隙 Standard Backlash P2	arcmin	1	3-20	≤ 7	≤ 7	≤ 7	≤ 6	≤ 6	≤ 6	≤ 6		
		2	15-200	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9		
扭轉剛性 Torsional Rigidity	N · m /arcmin	1,2	3-100	2.5	6	12	23	45	75	130		
容許徑向力 F _{2rB} ¹ Max. Radial Load	N	1,2	3-100	760	1570	2780	5340	8400	13000	35000		
容許軸向力 F _{2aB} ¹ Max. Axial Load	N	1,2	3-100	410	750	1870	3310	4670	6460	21400		
使用溫度 Operating Temp.	°C		3-100	-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	≥ 95%								
		2	12-100	≥ 92%								
重量 Weight	kg	1	3-10	1.0	2.6	6.8	13.5	25.1	50	82		
		2	12-100	1.4	3.3/2.9	8.9/7.2	14.8	26.7	55	88		
安裝方向 Mounting Position	-	1,2	3-100	任意方向 Any direction								
噪音值 Noise Level ²	dB(A)/1m	1,2	3-100	62	64	66	68	70	72	74		
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		PGRH-42	PGRH-60	PGRH-90	PGRH-115	PGRH-142	PGRH-180	PGRH-220		
1	3/4/5/7/9	Kg · cm ²		0.06	0.40	2.28	6.87	24.2	69.8	138.2		
	6/8/10/14/20			0.05	0.30	1.45	4.76	14.5	50.3	103.6		
節數 Stage	減速比 Ratio			PGRH-42	PGRH-60(T)	PGRH-90(T)	PGRH-115(T)	PGRH-142(T)	PGRH-180T	PGRH-220T		
2	15/20/25/35/45			0.06	0.40(0.08)	2.28(0.72)	3.02	7.83	27.7	80.3		
	others			0.05	0.30(0.06)	1.45(0.38)	1.64	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
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