

CFHKC SERIES PERFORMANCE

(2-STAGE, RATIO I = 4~10)

Precision Planetary Gearbox



MODEL NO.		STAGES	RATIO (1)	CFHKC 060	CFHKC 75	CFHKC 100	CFHKC 140	CFHKC 180	CFHKC 210	CFHKC 240
Nominal Output Torque T(2N)	Nm	2	4	95	195	355	605	1,300	1,975	3,750
			5	80	165	305	525	1,150	1,755	3,305
			7	60	130	250	440	985	1,500	2,535
			8	95	195	360	610	1,315	1,995	3,785
			10	80	165	310	530	1,160	1,765	3,325
Emergency Stop Torque T(2NOT)	Nm	2	4~10	2 times T(2N)						
Max. Acceleration Torque T(2B)	Nm	2	4~10	1,5 times T(2N)						
No Load Running Torque(2)	Nm	2	4~10	2	2.5	5.8	12	25	45	95
Backlash(3)	arcmin	2	4~10	≥ 3	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2	≥ 2
Torsional Rigidity	Nm/arcmin	2	4~10	4.6	10	30	55	175	3,00	510
Nominal Input Speed n(1N)	rpm	2	4~10	5,000	3,600	3,000	2,300	1,800	1,500	1,100
Max. Input Speed n(1B)	rpm	2	4~10	7,000	6,000	55,000	4,500	3,500	3,000	2,200
Max Radial Load F(2r) (4)	N	2	4~10	3,000	4,500	6,700	10000	15,000	22,000	30,000
Max. Axial Load F(2a)(4)	N	2	4~10	1,500	2,250	3,350	5,000	7,500	11,000	15,000
Max Tilting Moment M(2k) (4)	Nm	2	4~10	160	270	550	1,050	1,740	3,350	5,420
Service Life(5)	hr	2	4~10	20,000						
Operating Temp	°C	2	4~10	-10°C~ +90°C						
Degree of Gearbox Protection		2	4~10	IP65						
Lubrication		2	4~10	Synthetic lubrication grease						
Mounting Position		2	4~10	All directions						
Running Noise(6)	dB(A)	2	4~10	≥ 68	≥ 68	≥ 68	≥ 70	≥ 70	≥ 72	≥ 74
Efficiency η	%	2	4~10	≥ 95%						

(1) Ratio ($i=N[in]/N[out]$) (2) These values are measured by gearbox with ratio 10 (2-stage) at 3,000 rpm with no loading. (3) Backlash is measured at 2% of Nominal Output Torque T(2N). (4) Applied to the output shaft center at 100 rpm. (5) Continuous operation is not recommended (6) These values are measured by gearbox with ratio 10 (2-stage) at 3,000 rpm no loading. By lower ratio and/or higher RPM, the noise level could be 3 to 5 dB higher.