

CPDX/CPDXR GEARBOX PERFORMANCE



MODEL NO		STAGES	RATIO (1)	Type	CPDX 053	CPDX 064	CPDX 090	CPDX 110
					CPDXR 053	CPDXR 0064	CPDXR 090	CPDXR 110
Nominal Output Torque T(2N)	Nm	1	3	All	16	42	110	217
			4		16	42	113	223
			5		15	40	118	220
			7		12	35	96	198
			10		10	27	68	155
		2	15		15	40	109	213
			16		16	42	116	228
			20		16	42	116	230
			25		15	40	123	228
			30		15	40	108	212
			35		12	35	100	206
			40		16	43	117	232
			50		15	40	123	228
			70		12	35	100	206
			100		10	27	70	162
Emergency Stop Torque T(2NOT)	Nm	1,2	3~100	All	3 times T(2N)			
Max. Acceleration Torque T(2B)	Nm	1,2	3~100	All	T(2B) = 60% of T(2NOT)			
No Load Running Torque(4)	Nm	1	3~10	CPDX	0.05	0.10	0.40	0.80
				CPDXR	0.10	0.15	0.45	0.85
		2	15~100	CPDX	0.05	0.10	0.30	0.40
				CPDXR	0.10	0.15	0.35	0.45
Backlash(3)	arcmin	1	3~10	CPDX	≤ 8	≤ 7	≤ 6	≤ 6
				CPDXR	≤ 12	≤ 11	≤ 10	≤ 10
		2	15~100	CPDX	≤ 10	≤ 9	≤ 8	≤ 8
				CPDXR	≤ 14	≤ 13	≤ 12	≤ 12
Torsional Rigidity	Nm/arcmin	1,2	3~100	All	1.2	3	10.8	16.2
Nominal Input Speed n(1N)	rpm	1,2	3~100	All	4500	4000	3600	3600
Max. Input Speed n(1B)	rpm	1,2	3~100	All	8000	6000	6000	4800
Max. Radial Load F(2r) (4)	N	1,2	3~100	All	1045	880	1615	3675
Max. Axial Load F(2aB)(4)	N	1,2	3~100	All	523	440	808	1838
Service Life(5)	hr	1,2	3~100	All	20000			
Operating Temp	°C	1,2	3~100	All	0°C~ +90°C			
Degree of Gearbox Protection		1,2	3~100	All	IP65			
Lubrication		1,2	3~100	All	Synthetic lubrication grease			
Mounting Position		1,2	3~100	All	All directions			
Running Noise(4)	dB(A)	1,2	3~100	CPDX	≤ 60	≤ 62	≤ 64	≤ 66
				CPDXR	≤ 70	≤ 72	≤ 74	≤ 75
Efficiency η	%	1	3~10	CPDX	≤ 97%			
				CPDXR	≤ 93%			
		2	15~100	CPDX	≤ 94%			
				CPDXR	≤ 90%			

(1) Ratio (i=N[in]/N[out]) (2) Backlash is measured at 2% of Nominal Output Torque T(2N) (3) Applied to the output shaft center at 100 rpm. (4) These values are measured by gearbox with ratio 10 (1-stage) or ratio 100 (2-stage) at 3,000 rpm without loading. (5) For continuous operation, the service life time is less than 10,000 hrs.