

CT/CTB FLANGE SERIES PERFORMANCE SPECIFICATIONS



Precision Spiral Bevel Gearbox

GEARBOX PERFORMANCE											
MODEL NO.	RATIO (1)	STAGES	CT/CTB065FL CT/CTB065FL1 CT/CTB065FH CT/CTB065FC	CT/CTB075FL CT/CTB075FL1 CT/CTB075FH CT/CTB075FC	CT/CTB090FL CT/CTB090FL1 CT/CTB090FH CT/CTB090FC	CT/CTB110FL CT/CTB110FL1 CT/CTB110FH CT/CTB110FC	CT/CTB140FL CT/CTB140FL1 CT/CTB140FH CT/CTB140FC	CT/CTB170FL CT/CTB170FL1 CT/CTB170FH CT/CTB170FC	CT/CTB210FL CT/CTB210FL1 CT/CTB210FH CT/CTB210FC	CT/CTB240FL CT/CTB240FL1 CT/CTB240FH CT/CTB240FC	CT/CTB280FL CT/CTB280FL1 CT/CTB280FH CT/CTB280FC
Continuous Torque (Nm)	1	1	25	45	78	150	360	585	1,300	2,150	3,200
	1.5	1	25	45	78	150	360	585	1,300	2,150	3,200
	2	1	24	42	68	150	330	544	1,220	2,010	3,050
	3	1	18	33	54	120	270	450	1,020	1,650	2,850
	4	1	13	28	48	100	224	376	860	1,410	2,300
	5	1	12	25	40	85	196	320	740	1,210	2,000
	7	2	12	12	33	91	91	91	195	358	358
	10	2	24	28	68	150	208	208	430	846	846
	15	2	18	33	54	120	270	312	645	1,269	1,269
	20	2	13	28	48	100	224	376	860	1,410	1,692
	25	2	12	25	40	85	196	320	740	1,210	2,000
	35	2	12	25	40	85	196	320	740	1,210	1,790
	50	2	12	25	40	85	196	320	740	1,210	1,465
	75	3				120	210	312	585	1,269	1,269
	100	3				100	224	376	780	1,410	1,692
	125	3				85	196	320	740	1,210	2,000
	150	3				120	135	312	390	975	975
	200	3				100	180	376	520	1,300	1,300
	250	3				85	196	320	650	1,210	1,625
350	3				85	196	320	740	1,210	1,790	
500	3				85	196	320	740	1,210	1,465	
Max Torque (Nm)	1~500	1,2,3	1.5 X Continuous Torque								
Max Input Speed (rpm)	1~5	1	7,500	6,500	5,500	4,500	3,500	3,000	2,200	2,000	1,700
	7~50	2	8,000	8,000	6,000	6,000	6,000	6,000	4,800	3,600	3,600
	75~500	3				8,000	8,000	6,000	6,000	6,000	6,000
Standard Backlash (arcmin)	1~5	1	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
	7~50	2	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
	75~500	3				≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
Max Radial Load, Output (N)	1~500	1,2,3	900	1,100	1,700	2,700	4,800	6,600	11,500	16,000	18,000
Max. Axial Load, Output (N)	1~500	1,2,3	450	550	850	1,350	2,400	3,300	5,750	8,500	9,000
Service Life (hours)	1~500	1,2,3	20,000*								
Efficiency η	1~5	1	≥ 98%								
	7~500	2,3	≥ 94%								
Temperature Range (°C)	1~500	1,2,3	30° C to +100° C								
Lubrication	1~500	1,2,3	Synthetic Oils								
Noise Level (1,500 rpm)	1~500	1,2,3	≤ 71	≤ 72	≤ 76	≤ 77	≤ 78	≤ 79	≤ 81	≤ 83	≤ 84

Radial and axial load applied at center of shaft. Backlash measured at 2% of continuous output torque. S1 service life 10,000 hrs.