

Internal Inertia (WK) Reflected to the Input Shaft - Unit: lb ft²

Frame Size	Input Type	Reduction Ratio						
		11	17	29	35	47	59	71
A	All	0.001	0.002	0.002	0.002	0.002	0.002	0.002
B	All	0.002	0.002	0.002	0.002	0.002	0.002	0.002
C	All	0.007	0.008	0.010	0.010	0.010	0.010	0.010
D	All	0.018	0.026	0.029	0.028	0.028	0.028	0.027
E	C-Face, Servo, Coupling Adaptor, Shovel Base	0.075	0.125	0.117	0.116	0.115	0.115	0.114
	Shaft Input, Top Mount	0.314	0.368	0.356	0.356	0.356	0.356	0.356
F	C-Face, Servo, Coupling Adaptor, Shovel Base	0.208	0.178	0.309	0.303	0.303	0.303	0.297
	Shaft Input, Top Mount	0.771	0.712	0.831	0.831	0.831	0.831	0.831

Torsional Stiffness Precision Backlash Units

Frame Size	Ratio	11	17	29	35	47	59	71
B	in-lbs/arc-min	26.9	41.6	43.9	48.1	48.1	48.1	48.1
	Nm/arc-min	3.0	4.7	5.0	5.4	5.4	5.4	5.4
C	in-lbs/arc-min	54.4	98.9	105	111	111	111	111
	Nm/arc-min	6.2	11.2	11.9	12.6	12.6	12.6	12.6
D	in-lbs/arc-min	157	203	223	242	242	242	242
	Nm/arc-min	17.8	23.0	25.2	27.4	27.4	27.4	27.4
E	in-lbs/arc-min	485	622	753	753	753	753	753
	Nm/arc-min	54.8	70.4	85.2	85.2	85.2	85.2	85.2
F	in-lbs/arc-min	1,030	1,080	1,180	1,180	1,180	1,180	1,180
	Nm/arc-min	117	122	133	133	133	133	133

Notes: Torsional stiffness of standard backlash units is higher than precision backlash units. Contact NIDEC-SHIMPO Customer Service for additional information.

Standard Lubrication Single Reduction

Frame Size	Input Speed (rpm)	All Output Shaft Positions	Maximum Input Speed (rpm)
A	< 2000	Grease	2000
B	< 2000	Grease	3600
	>2000 or Servo Input	Oil	
C	< 2000	Grease	3600
	>2000 or Servo Input	Oil	
D	Any	Oil	3600
E	Any	Oil	2000
F	Any	Oil	2000

Notes: Oil lubrication for B01 - C07 for non-servo motor applications is available upon request. Consult Maintenance, Parts, & Instruction Manual for specific lubrication recommendations.

Standard Lubrication Double Reduction

Frame Size	Output Shaft Position		
	Horizontal	Vertical Down	Vertical Up
AB3, AB7, AB105	Grease	Grease	Grease
AC3, AC7, AC115			
AD3, AD7, AD135, AD145	Oil	Grease	Oil
BD7			
BE3, BE7, BE165, BE375	Oil	Grease	Oil
CE7			
CF3, CF7	Oil	Grease	Oil
DF7		Oil	

Notes: Lubrication type is based on 1750 RPM input. Consult Maintenance, Parts, & Instruction Manual for specific lubrication recommendations.