

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.

Lubrication

Consult NIDEC-SHIMPO for information and options.