

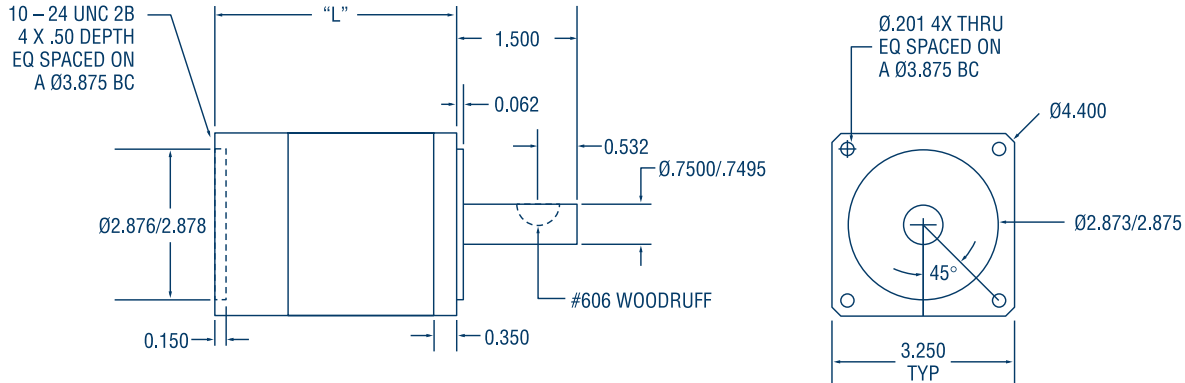


SIZE 34 ELIMINATOR PLANETARY

DIMENSION "L"

Single Stage (3:1 to 10:1) = 4.063 ± .015

Double Stage (16:1 to 100:1) = 5.431 ± .015



Part #	Ratio	Continuous output torque at 1500 rpm input (in-lbs)	Continuous output torque at 3500 rpm input (in-lbs)	Continuous output torque at 5000 rpm input (in-lbs)	Gearhead inertia at input (lb-in-sec ²)	
SINGLE STAGE	34EP003	3:1	1010	615	475	6.77 x 10 ⁻⁴
	34EP004	4:1	972	643	513	2.77 x 10 ⁻⁴
	34EP005	5.5:1	913	657	543	1.51 x 10 ⁻⁴
	34EP007	7:1	859	653	554	1.11 x 10 ⁻⁴
	34EP010	10:1	707	575	505	7.90 x 10 ⁻⁵
DOUBLE STAGE	34EP016	16:1	1350	1145	1027	2.86 x 10 ⁻⁴
	34EP022	22:1	1401	1234	1133	1.55 x 10 ⁻⁴
	34EP028	28:1	1432	1293	1203	1.11 x 10 ⁻⁴
	34EP040	40:1	1469	1362	1293	8.04 x 10 ⁻⁵
	34EP049	49:1	1067	1010	971	1.11 x 10 ⁻⁴
	34EP055	55:1	1228	1165	1123	7.94 x 10 ⁻⁵
	34EP070	70:1	1081	1040	1010	7.90 x 10 ⁻⁵
	34EP100	100:1	827	805	790	7.87 x 10 ⁻⁵

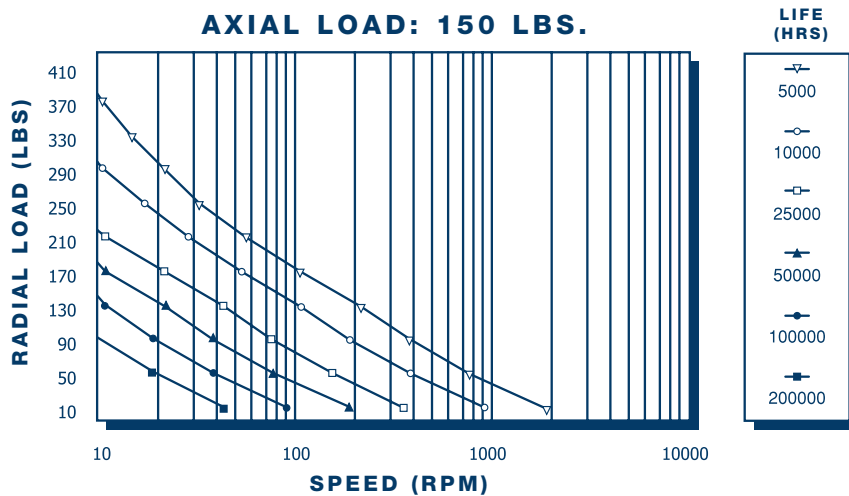
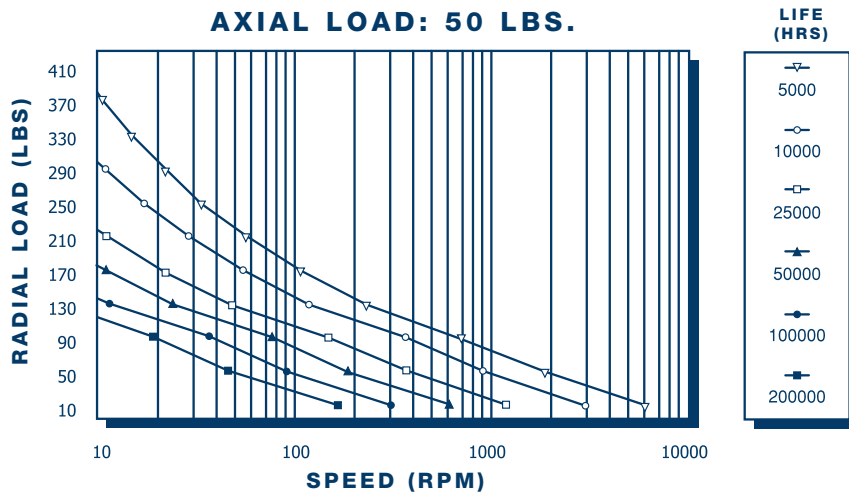
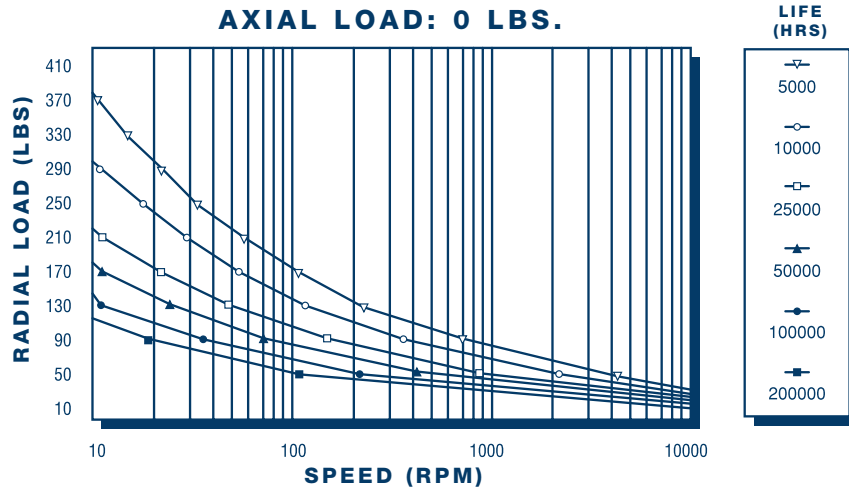
GENERAL SPECIFICATIONS

Construction Type	Ratio	Backlash: Standard (arc-minutes)	Backlash: Low Backlash (arc-minutes)	Efficiency	Weight (lbs)	Maximum Tested Input rpm
Single Stage	3:1 to 10:1	6	3	90%	5.67	5000
Double Stage	16:1 to 100:1	10	7	85%	8.41	5000

PEAK TORQUE: 15% above continuous rating.

NOTE: Repeated peak torque loading may cause failure.

SIZE 34 EP BEARING LIFE VS. SHAFT LOAD



SPEED (RPM) refers to the gearheads output shaft speed.

LIFE (HRS) = (# of lifetime revolutions) ÷ (60 x rpm)

F_{RADIAL} is calculated at 1/2 the shaft length.

