

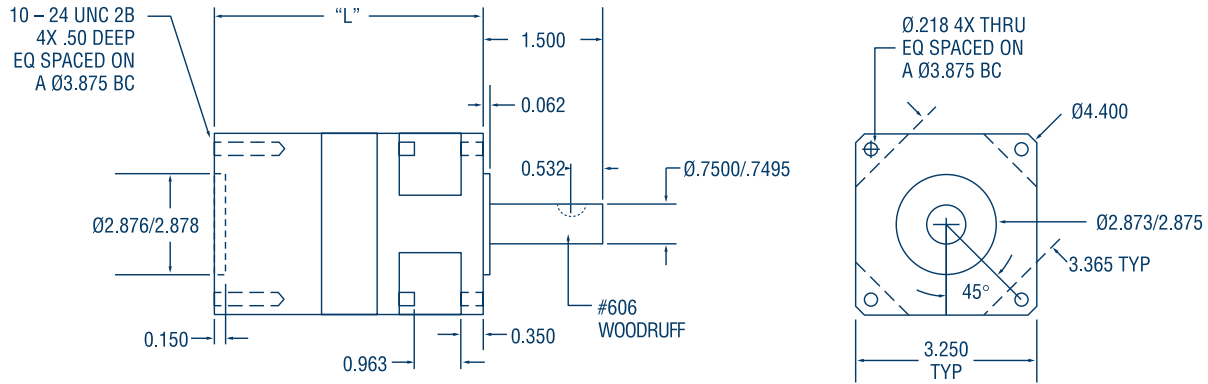


SIZE 34 PRECISION PLANETARY

DIMENSION "L"

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

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



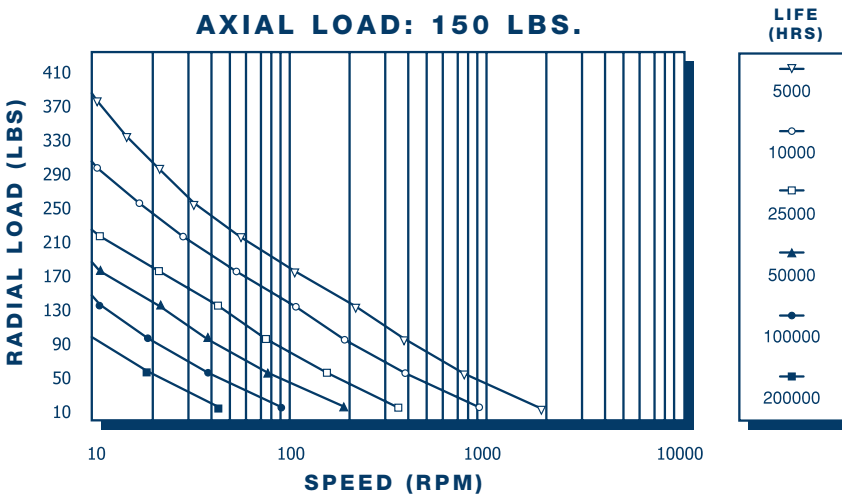
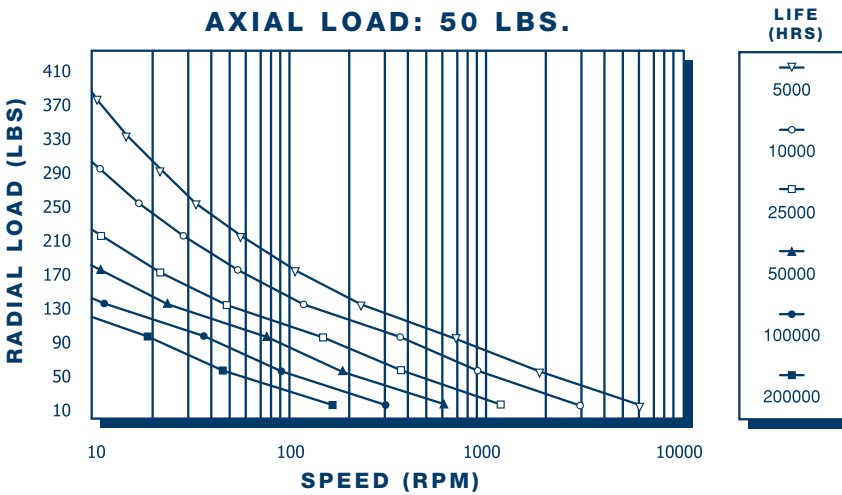
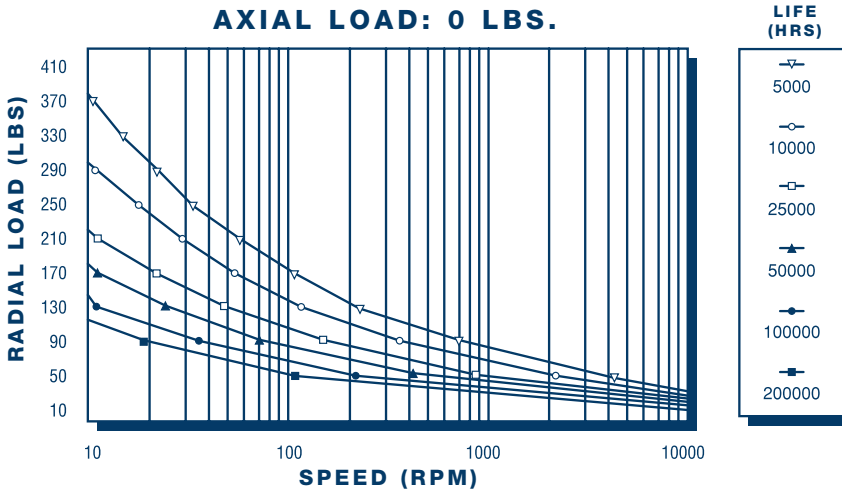
Part #	Ratio	Continuous output torque at 1500 rpm input (in-lbs)	Continuous output torque at 3500 rpm input (in-lbs)	Continuous output torque at 5000 rpm input (in-lbs)	Gearhead inertia at input (lb-in-sec ²)	
SINGLE STAGE	34PL003	3:1	1189	724	560	6.77 x 10 ⁻⁴
	34PL004	4:1	1144	757	604	2.77 x 10 ⁻⁵
	34PL005	5.5:1	1074	773	638	1.51 x 10 ⁻⁵
	34PL007	7:1	1011	768	651	1.11 x 10 ⁻⁵
	34PL010	10:1	832	677	594	7.90 x 10 ⁻⁵
DOUBLE STAGE	34PL016	16:1	1805	1531	1374	2.86 x 10 ⁻⁵
	34PL022	22:1	1874	1650	1515	1.55 x 10 ⁻⁵
	34PL028	28:1	1915	1728	1609	1.14 x 10 ⁻⁵
	34PL040	40:1	1963	1821	1728	8.04 x 10 ⁻⁵
	34PL049	49:1	1428	1351	1298	1.11 x 10 ⁻⁵
	34PL055	55:1	1640	1558	1501	7.94 x 10 ⁻⁵
	34PL070	70:1	1445	1390	1351	7.90 x 10 ⁻⁵
	34PL100	100:1	1106	1078	1056	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%	5.47	5000
Double Stage	16:1 to 100:1	10	7	85%	8.85	5000

PEAK TORQUE: 15% above continuous rating. **NOTE:** Repeated peak torque loading may cause failure.

SIZE 34 PL 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.

