

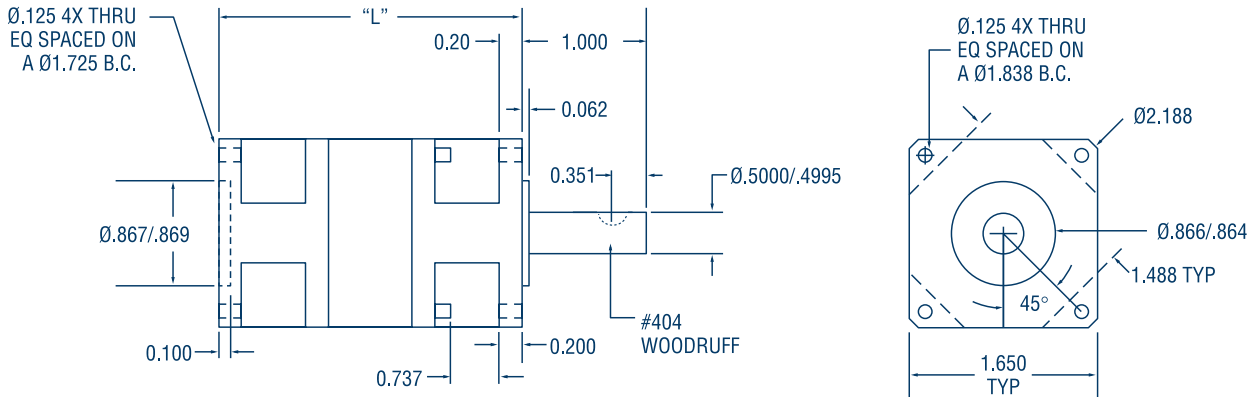


# SIZE 17 PRECISION PLANETARY (PL)

## DIMENSION "L"

Single Stage (3:1 to 10:1) = 2.869 ± .015

Double Stage (16:1 to 100:1) = 3.738 ± .015



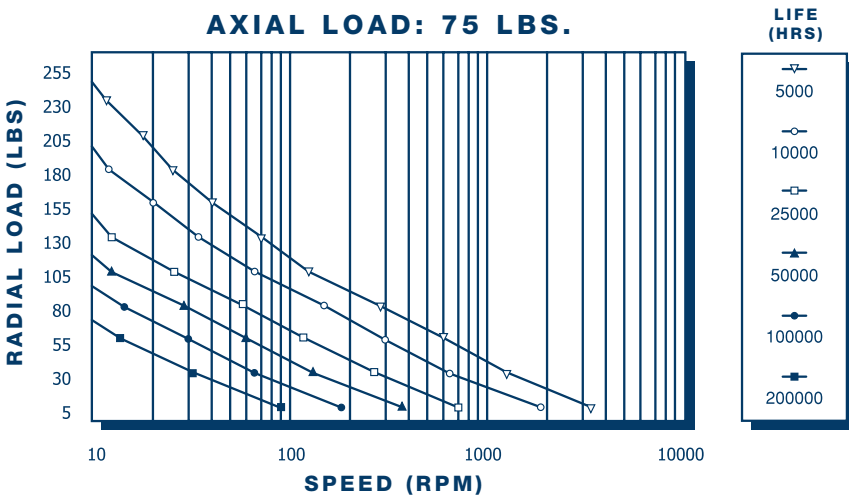
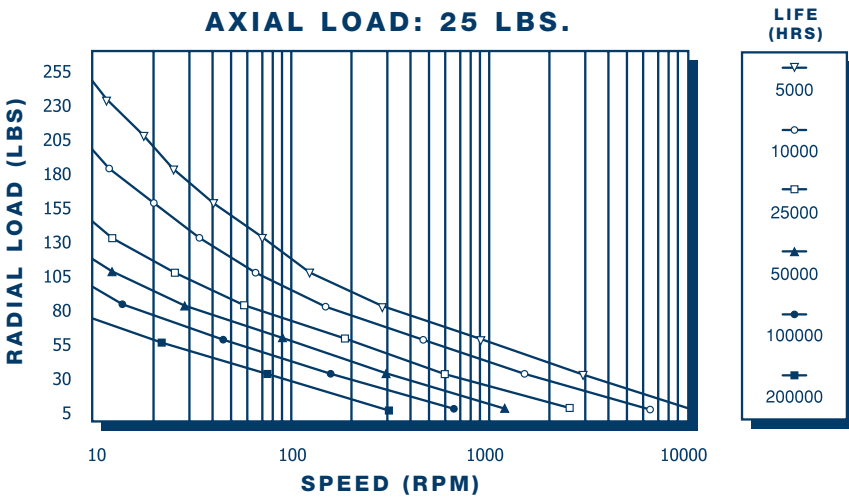
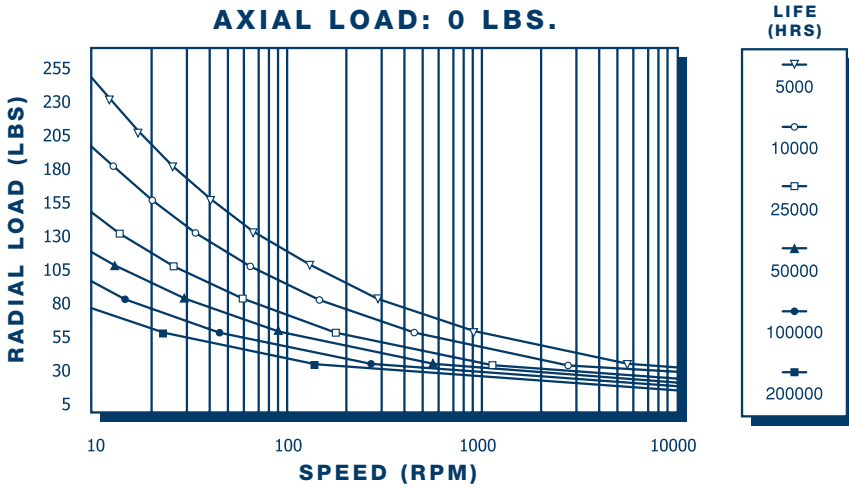
Part #	Ratio	Continuous output torque at 1500 rpm input (in-lbs)	Continuous output torque at 3500 rpm input (in-lbs)	Continuous output torque at 5000 rpm input (in-lbs)	Gearhead inertia at input (lb-in-sec <sup>2</sup> )	
SINGLE STAGE	17PL003	3:1	243	169	137	3.25 x 10 <sup>-5</sup>
	17PL004	4:1	220	166	140	1.60 x 10 <sup>-5</sup>
	17PL005	5.5:1	197	159	139	1.10 x 10 <sup>-5</sup>
	17PL007	7:1	180	151	135	9.56 x 10 <sup>-6</sup>
	17PL010	10:1	143	126	116	8.36 x 10 <sup>-6</sup>
DOUBLE STAGE	17PL016	16:1	304	276	259	1.59 x 10 <sup>-5</sup>
	17PL022	22:1	311	289	275	1.10 x 10 <sup>-5</sup>
	17PL028	28:1	394	296	285	9.54 x 10 <sup>-6</sup>
	17PL040	40:1	319	306	296	8.35 x 10 <sup>-6</sup>
	17PL049	49:1	230	224	219	9.44 x 10 <sup>-6</sup>
	17PL055	55:1	264	256	251	8.31 x 10 <sup>-6</sup>
	17PL070	70:1	231	226	224	8.30 x 10 <sup>-6</sup>
	17PL100	100:1	176	174	173	8.29 x 10 <sup>-6</sup>

## 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%	1.00	5000
Double Stage	16:1 to 100:1	10	7	85%	1.60	5000

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

# SIZE 17 PL BEARING LIFE VS. SHAFT LOAD



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

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

**F<sub>RADIAL</sub>** is calculated at 1/2 the shaft length.

