

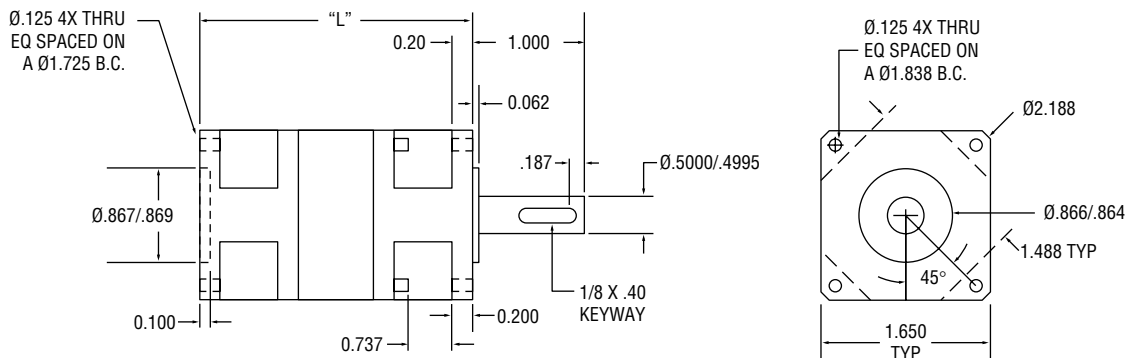


PLANETARY  
GEARHEADS

# SIZE 17

## "P" SERIES PLANETARY GEARHEAD

Single Stage "L" 2.869 ± .015  
Double Stage "L" 3.738 ± .015



	GEARHEAD P/N	GEAR RATIO	BACKLASH (MINUTES)	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE	GEARHEAD INERTIA AT INPUT (LB-IN-SEC <sup>2</sup> )
				1500 rpm (LBS. IN.)	3500 rpm (LBS. IN.)	5000 rpm (LBS. IN.)	
SINGLE STAGE	P17003	3:1	6	243	169	137	3.25 X 10 <sup>-5</sup>
	P17004	4:1	6	220	166	140	1.60 X 10 <sup>-5</sup>
	P17005.5	5.5:1	6	197	159	139	1.10 X 10 <sup>-5</sup>
	P17007	7:1	6	180	151	135	9.56 X 10 <sup>-6</sup>
	P17010	10:1	6	143	126	116	8.36 X 10 <sup>-6</sup>
DOUBLE STAGE	P17016	16:1	10	304	276	259	1.59 X 10 <sup>-5</sup>
	P17022	22:1	10	311	289	275	1.10 X 10 <sup>-5</sup>
	P17028	28:1	10	394	296	285	9.54 X 10 <sup>-6</sup>
	P17040	40:1	10	319	306	296	8.35 X 10 <sup>-6</sup>
	P17049	49:1	10	230	224	219	9.44 X 10 <sup>-6</sup>
	P17055	55:1	10	264	256	251	8.31 X 10 <sup>-6</sup>
	P17070	70:1	10	231	226	224	8.30 X 10 <sup>-6</sup>
	P17100	100:1	10	176	174	173	8.29 X 10 <sup>-6</sup>

### GENERAL SPECIFICATIONS

peak torque rating is 15% above continuous rated torque

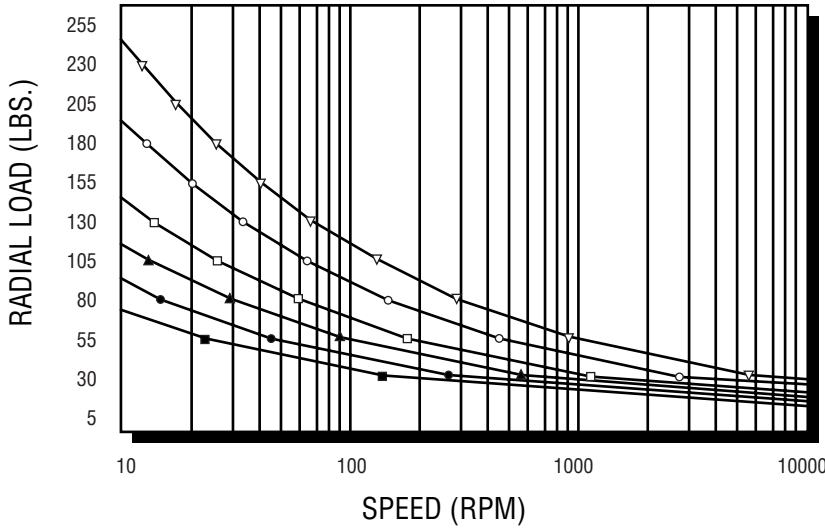
Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	3:1 to 10:1	90%	1.0 lbs.	3 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	1.6 lbs.	7 arc minutes	5,000 rpm

# SIZE 17 "P" SERIES BEARING LIFE VS. SHAFT LOAD

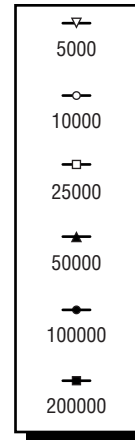


## PLANETARY GEARHEADS

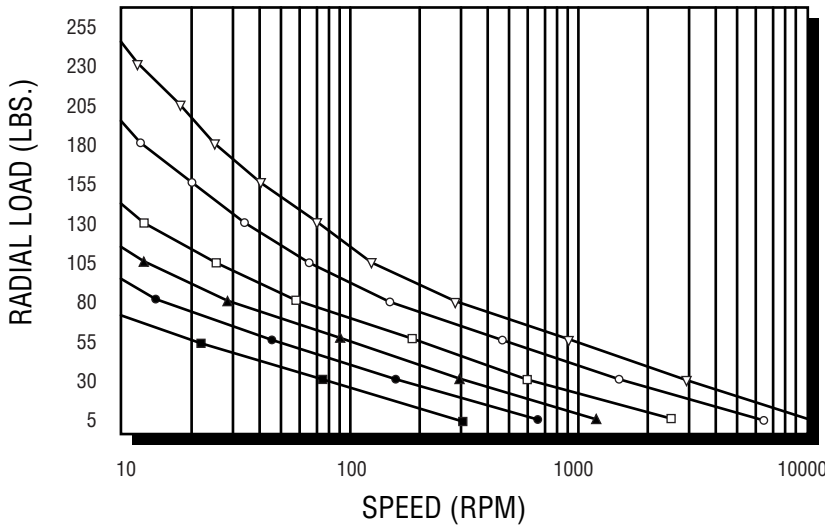
**AXIAL LOAD: 0 LBS.**



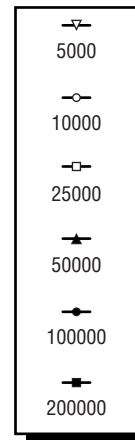
LIFE (HRS)



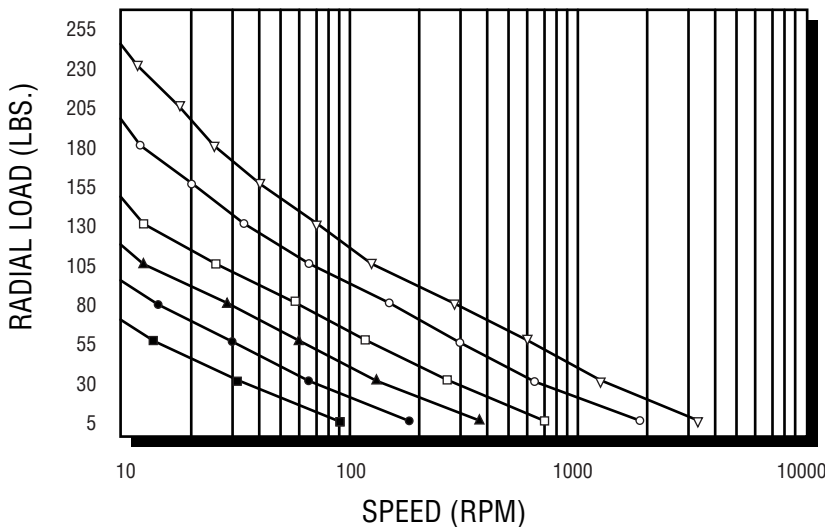
**AXIAL LOAD: 25 LBS.**



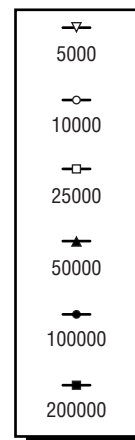
LIFE (HRS)



**AXIAL LOAD: 75 LBS.**



LIFE (HRS)



Speed (rpm) refers to the gearheads output shaft speed.

Life (hrs) = (# of lifetime revolutions) ÷ (60 x rpm).

$F_{radial}$  is calculated at one half the shaft length.

