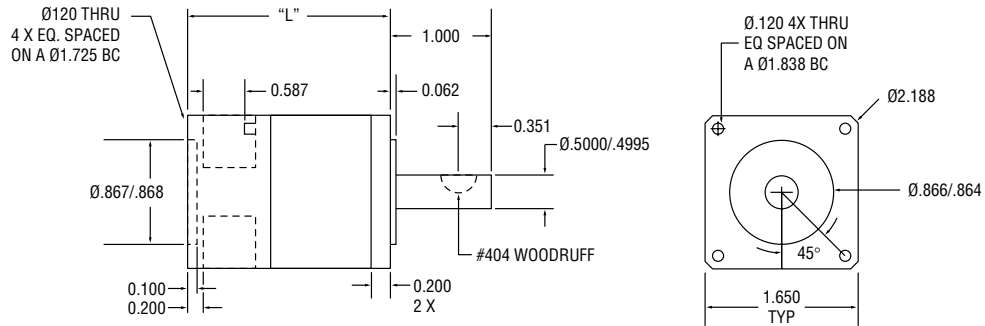




# SIZE 17

## "E" 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 1500 rpm (LBS. IN.)	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE 3500 rpm (LBS. IN.)	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE 5000 rpm (LBS. IN.)	GEARHEAD INERTIA AT INPUT (LB-IN-SEC <sup>2</sup> )
SINGLE STAGE	E17003	3:1	6	197	140	115	3.25 X 10 <sup>-5</sup>
	E17004	4:1	6	177	136	116	1.60 X 10 <sup>-5</sup>
	E17005.5	5.5:1	6	157	129	113	1.10 X 10 <sup>-5</sup>
	E17007	7:1	6	143	122	110	9.56 X 10 <sup>-6</sup>
	E17010	10:1	6	113	101	93	8.36 X 10 <sup>-6</sup>
DOUBLE STAGE	E17016	16:1	10	211	194	182	1.59 X 10 <sup>-5</sup>
	E17022	22:1	10	216	201	193	1.10 X 10 <sup>-5</sup>
	E17028	28:1	10	218	207	199	9.54 X 10 <sup>-6</sup>
	E17040	40:1	10	220	212	207	8.35 X 10 <sup>-6</sup>
	E17049	49:1	10	158	154	152	9.44 X 10 <sup>-6</sup>
	E17055	55:1	10	183	177	175	8.31 X 10 <sup>-6</sup>
	E17070	70:1	10	160	156	154	8.30 X 10 <sup>-6</sup>
	E17100	100:1	10	122	120	119	8.29 X 10 <sup>-6</sup>

### GENERAL SPECIFICATIONS

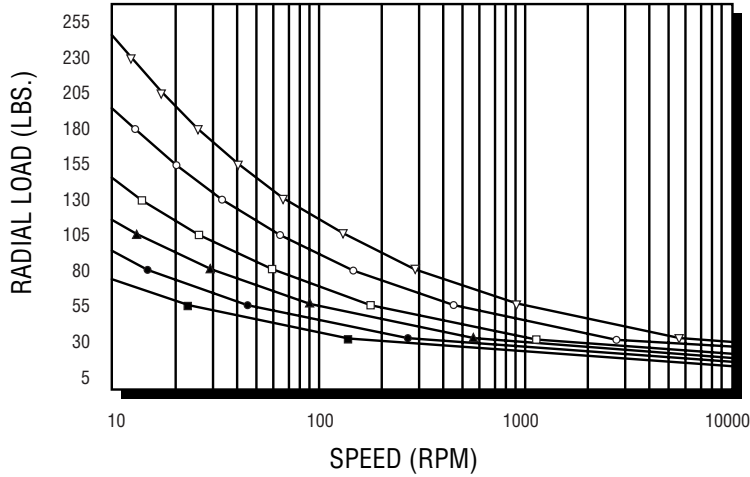
peak torque rating is 15% above continuous rated torque

Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	3:1 to 10:1	90%	1.1 lbs.	3 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	1.76 lbs.	7 arc minutes	5,000 rpm

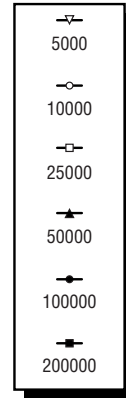


# SIZE 17 "E" SERIES BEARING LIFE VS. SHAFT LOAD

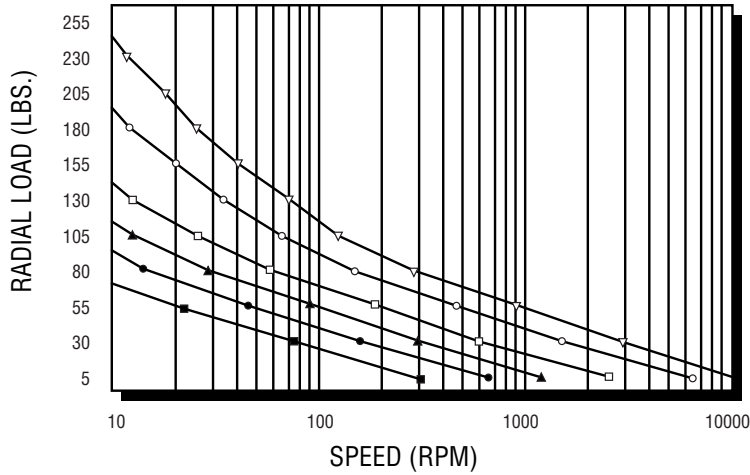
**AXIAL LOAD: 0 LBS.**



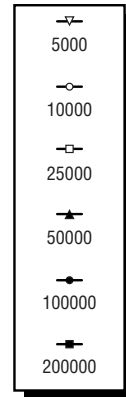
LIFE (HRS)



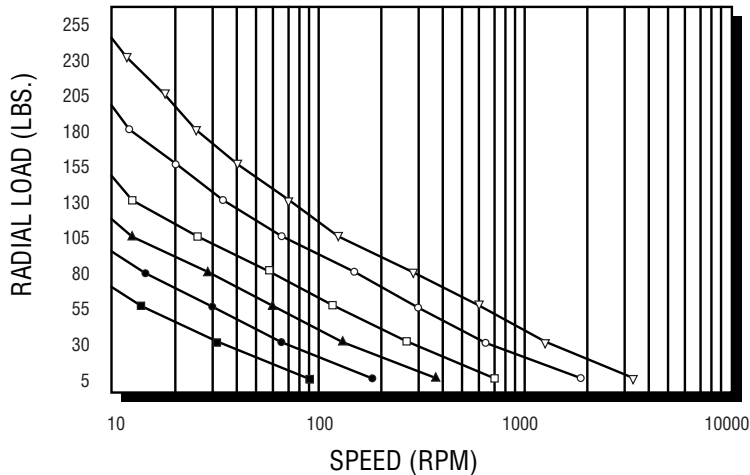
**AXIAL LOAD: 25 LBS.**



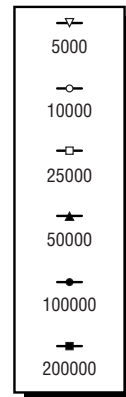
LIFE (HRS)



**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.

