

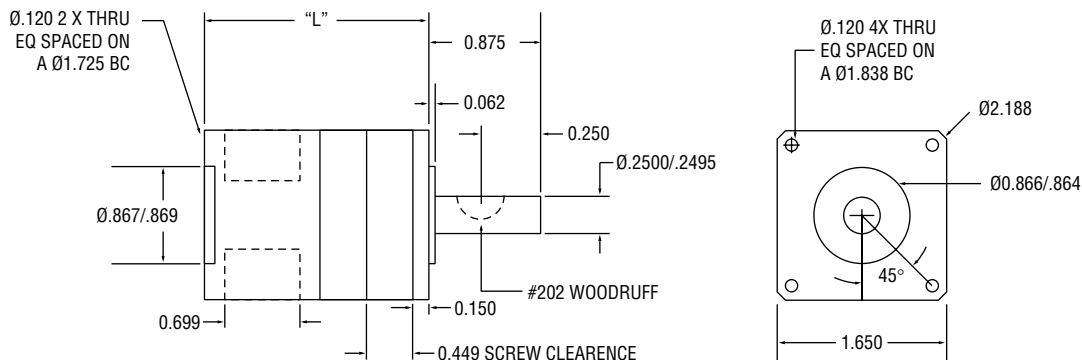
# SIZE 17

## "S" SERIES PLANETARY GEARHEAD



**PLANETARY  
GEARHEADS**

Single Stage "L" 2.174 ± .015  
Double Stage "L" 2.782 ± .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	S17004	4:1	12	75	57	49	2.22 X 10 <sup>-4</sup>
	S17007	7:1	12	60	51	46	8.88 X 10 <sup>-5</sup>
	S17010	10:1	12	48	43	39	6.32 X 10 <sup>-5</sup>
DOUBLE STAGE	S17016	16:1	16	81	74	70	2.29 X 10 <sup>-4</sup>
	S17028	28:1	16	83	79	76	9.12 X 10 <sup>-5</sup>
	S17049	49:1	16	61	59	58	8.88 X 10 <sup>-5</sup>
	S17070	70:1	16	61	60	59	6.32 X 10 <sup>-5</sup>
	S17100	100:1	16	47	46	46	6.30 X 10 <sup>-5</sup>

**GENERAL SPECIFICATIONS**

peak torque rating is 15% above continuous rated torque

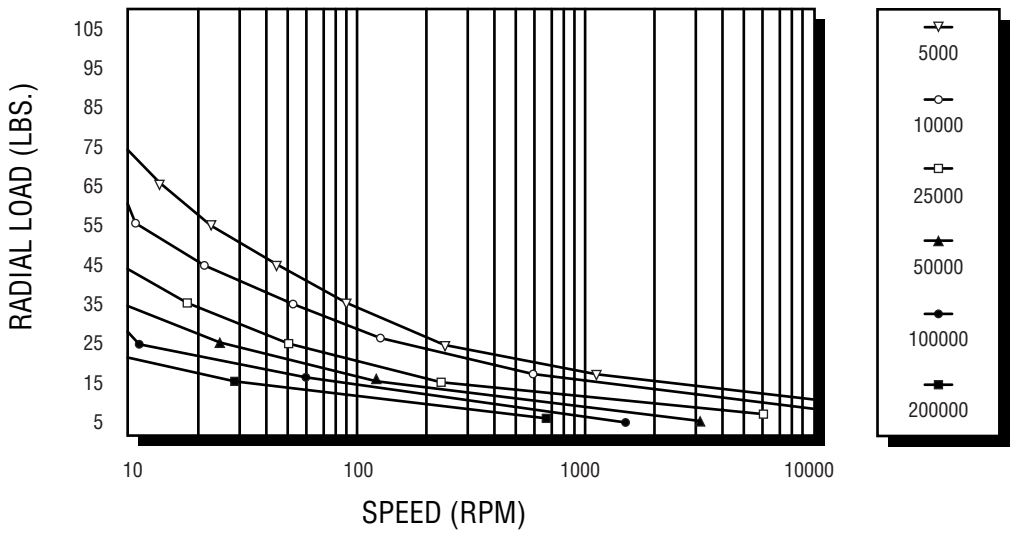
Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	4:1 to 10:1	90%	.95 lbs.	6 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	1.50 lbs.	10 arc minutes	5,000 rpm

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

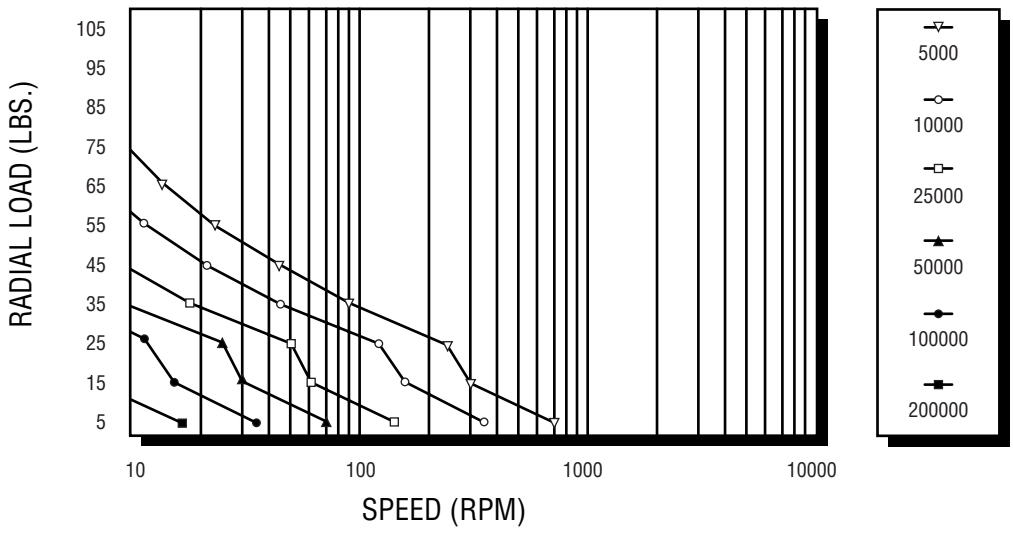


**PLANETARY  
 GEARHEADS**

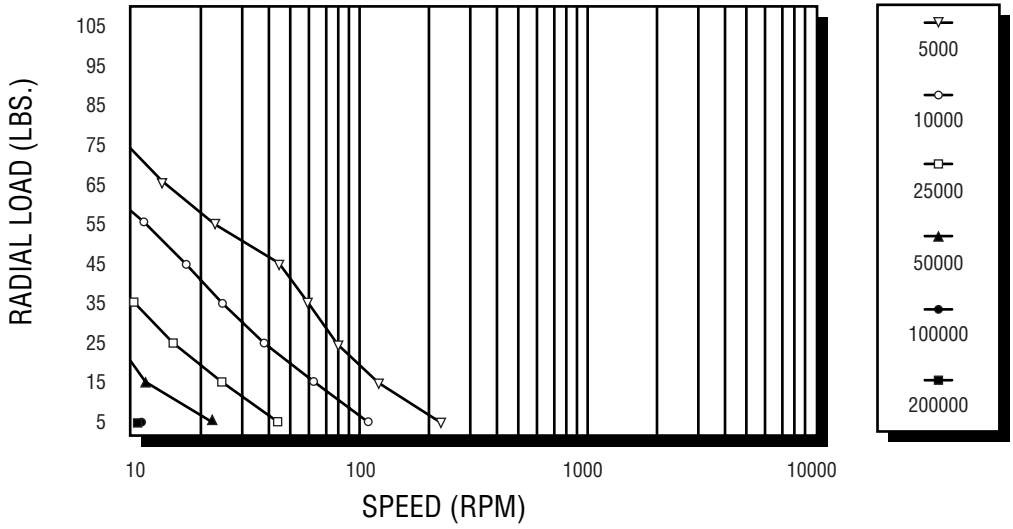
**AXIAL LOAD: 0 LBS.**



**AXIAL LOAD: 25 LBS.**



**AXIAL LOAD: 75 LBS.**



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

$$\text{Life (hrs)} = (\# \text{ of lifetime revolutions}) \div (60 \times \text{rpm})$$

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

