

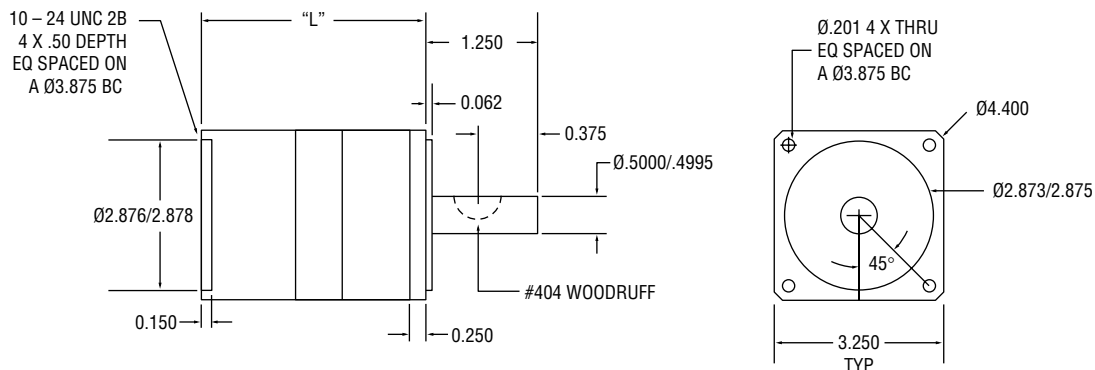


PLANETARY  
GEARHEADS

# SIZE 34

## "S" SERIES PLANETARY GEARHEAD

Single Stage "L" 3.229 ± .015  
Double Stage "L" 4.087 ± .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	S34004	4:1	12	529	350	279	2.22 X 10 <sup>-4</sup>
	S34007	7:1	12	467	355	301	8.88 X 10 <sup>-5</sup>
	S34010	10:1	12	384	313	275	6.32 X 10 <sup>-5</sup>
DOUBLE STAGE	S34016	16:1	16	667	566	508	2.29 X 10 <sup>-4</sup>
	S34028	28:1	16	670	639	595	9.12 X 10 <sup>-5</sup>
	S34049	49:1	16	528	499	480	8.88 X 10 <sup>-5</sup>
	S34070	70:1	16	534	514	499	6.32 X 10 <sup>-5</sup>
	S34100	100:1	16	409	398	391	6.30 X 10 <sup>-5</sup>

### GENERAL SPECIFICATIONS

peak torque rating is 15% above continuous rated torque

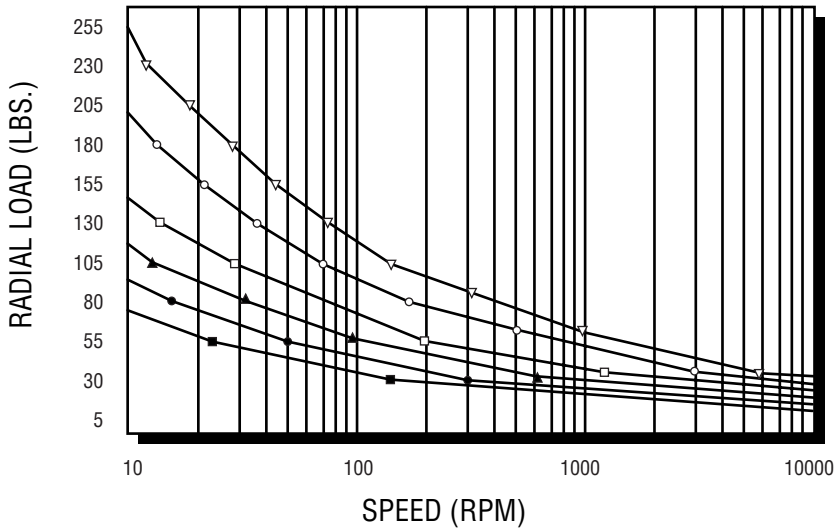
Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	4:1 to 10:1	90%	5.05 lbs.	6 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	8.23 lbs.	10 arc minutes	5,000 rpm

# SIZE 34 "S" SERIES BEARING LIFE VS. SHAFT LOAD

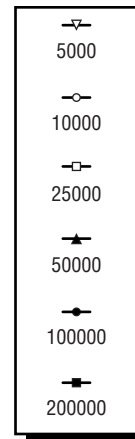


## PLANETARY GEARHEADS

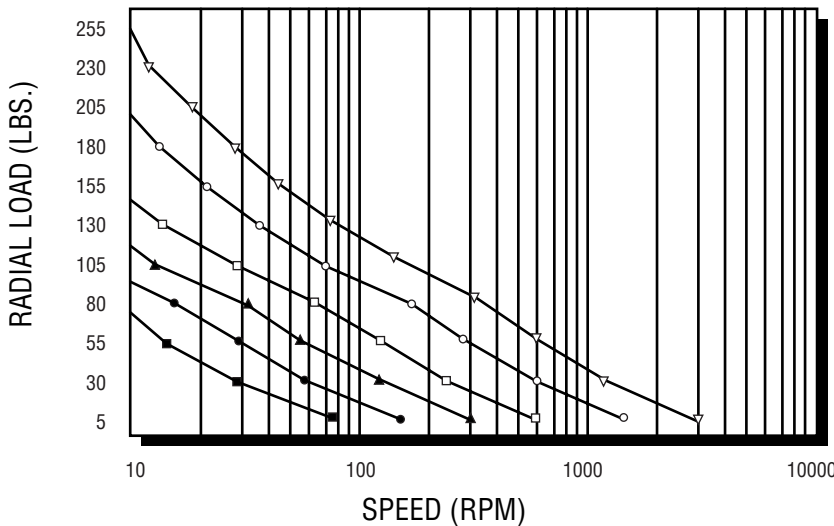
**AXIAL LOAD: 0 LBS.**



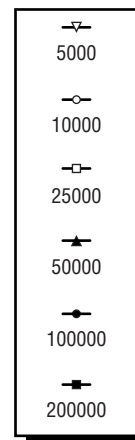
LIFE (HRS)



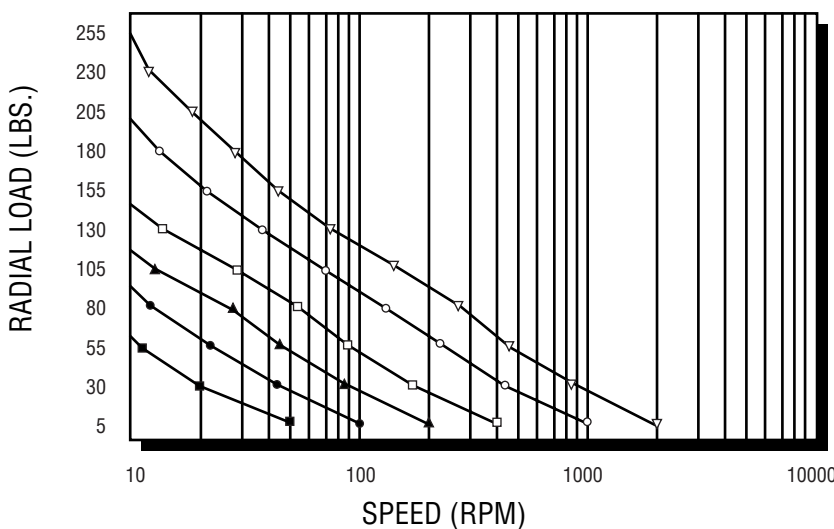
**AXIAL LOAD: 50 LBS.**



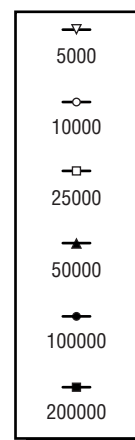
LIFE (HRS)



**AXIAL LOAD: 100 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.

