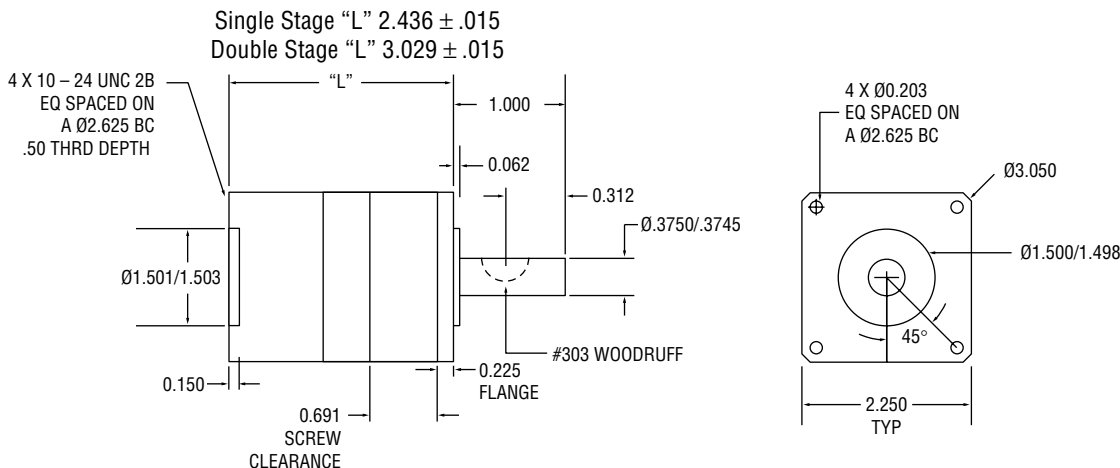




PLANETARY
GEARHEADS

SIZE 23

"S" SERIES PLANETARY GEARHEAD



	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 ²)
SINGLE STAGE	S23004	4:1	12	185	133	109	4.19 X 10 ⁻⁵
	S23007	7:1	12	155	126	110	1.54 X 10 ⁻⁵
	S23010	10:1	12	125	107	97	1.08 X 10 ⁻⁵
DOUBLE STAGE	S23016	16:1	16	214	190	175	4.26 X 10 ⁻⁵
	S23028	28:1	16	223	208	197	1.57 X 10 ⁻⁵
	S23049	49:1	16	164	158	154	1.52 X 10 ⁻⁵
	S23070	70:1	16	166	161	158	1.06 X 10 ⁻⁵
	S23100	100:1	16	126	124	122	1.06 X 10 ⁻⁵

GENERAL SPECIFICATIONS

peak torque rating is 15% above continuous rated torque

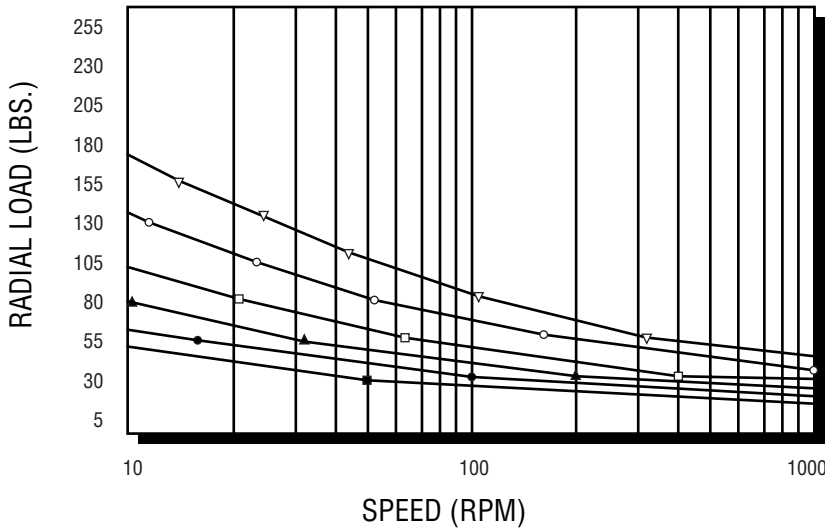
Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	4:1 to 10:1	90%	1.85 lbs.	6 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	2.90 lbs.	10 arc minutes	5,000 rpm

SIZE 23 "S" SERIES BEARING LIFE VS. SHAFT LOAD

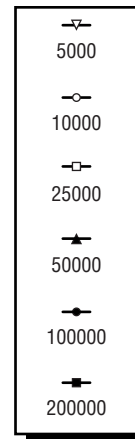


**PLANETARY
 GEARHEADS**

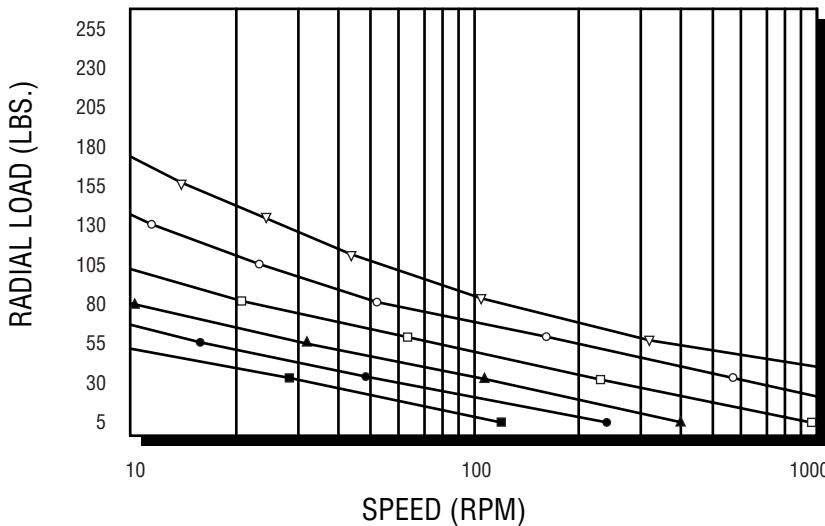
AXIAL LOAD: 0 LBS.



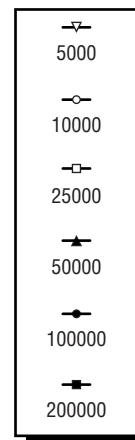
LIFE (HRS)



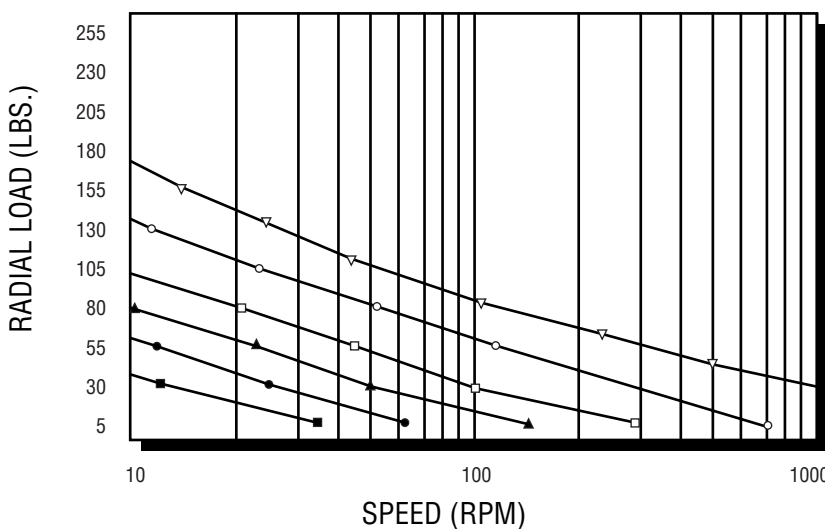
AXIAL LOAD: 25 LBS.



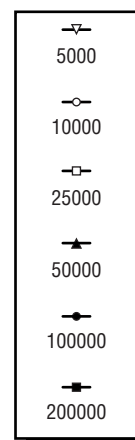
LIFE (HRS)



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.

