

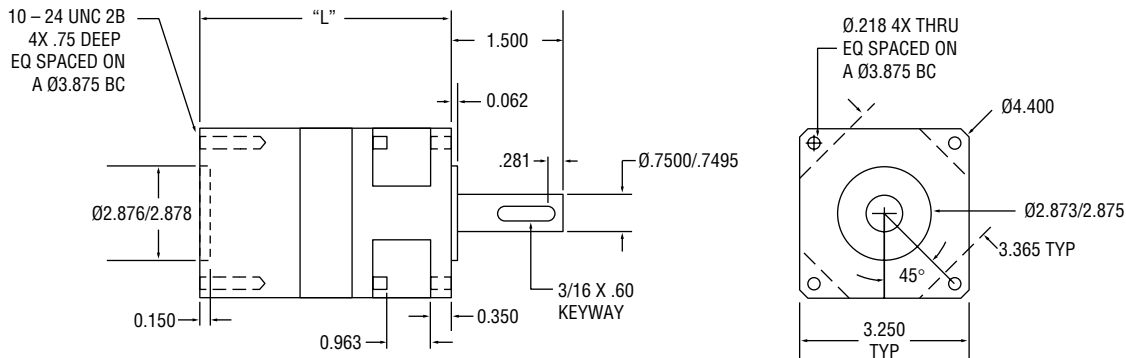
SIZE 34

"P" SERIES PLANETARY GEARHEAD



**PLANETARY
GEARHEADS**

Single Stage "L" 4.063 ± .015
Double Stage "L" 5.431 ± .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 ²)
SINGLE STAGE	P34003	3:1	6	1189	724	560	6.77 X 10 ⁻⁴
	P34004	4:1	6	1144	757	604	2.77 X 10 ⁻⁴
	P34005.5	5.5:1	6	1074	773	638	1.51 X 10 ⁻⁴
	P34007	7:1	6	1011	768	651	1.11 X 10 ⁻⁴
	P34010	10:1	6	832	677	594	7.90 X 10 ⁻⁵
DOUBLE STAGE	P34016	16:1	10	1805	1531	1374	2.86 X 10 ⁻⁴
	P34022	22:1	10	1874	1650	1515	1.55 X 10 ⁻⁴
	P34028	28:1	10	1915	1728	1609	1.14 X 10 ⁻⁴
	P34040	40:1	10	1963	1821	1728	8.04 X 10 ⁻⁵
	P34049	49:1	10	1428	1351	1298	1.11 X 10 ⁻⁴
	P34055	55:1	10	1640	1558	1501	7.94 X 10 ⁻⁵
	P34070	70:1	10	1445	1390	1351	7.90 X 10 ⁻⁵
	P34100	100:1	10	1106	1078	1056	7.87 X 10 ⁻⁵

GENERAL SPECIFICATIONS

peak torque rating is 15% above continuous rated torque

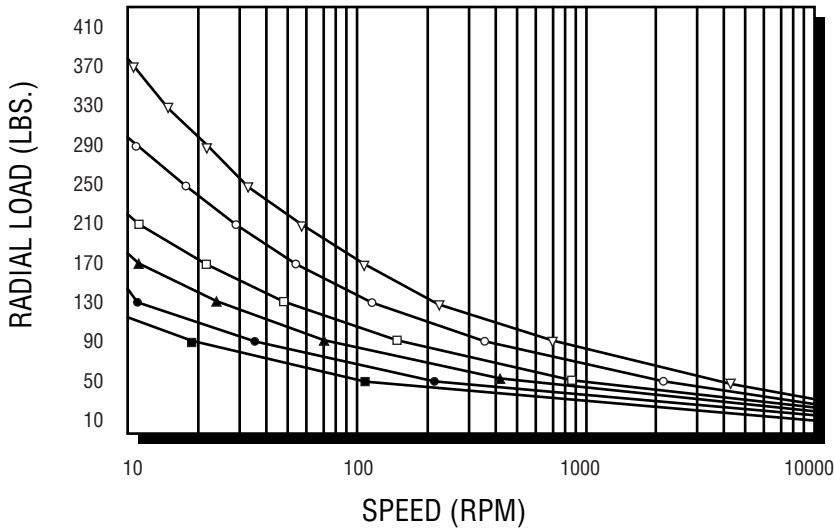
Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	3:1 to 10:1	90%	5.4 lbs.	3 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	8.8 lbs.	7 arc minutes	5,000 rpm

SIZE 34 "P" SERIES BEARING LIFE VS. SHAFT LOAD

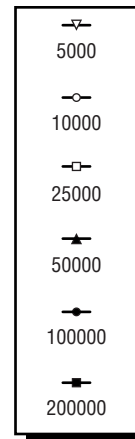


**PLANETARY
 GEARHEADS**

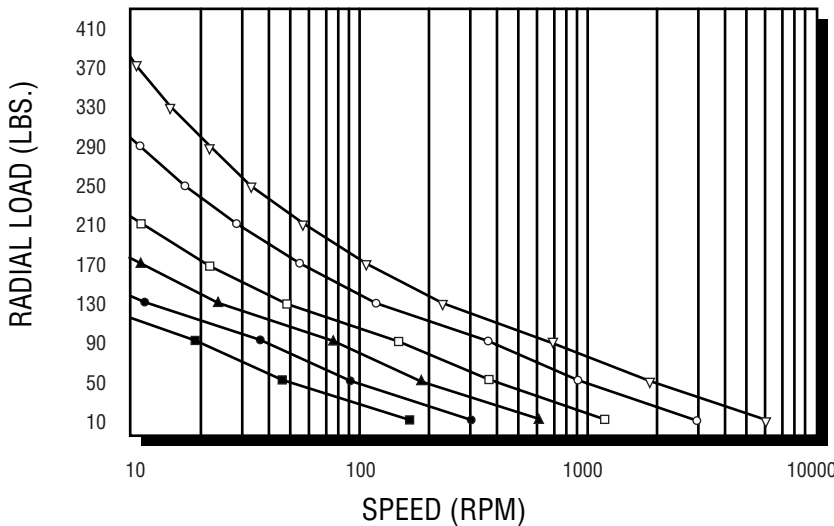
AXIAL LOAD: 0 LBS.



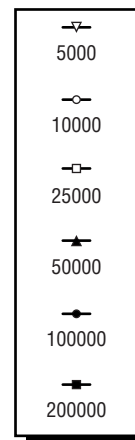
LIFE (HRS)



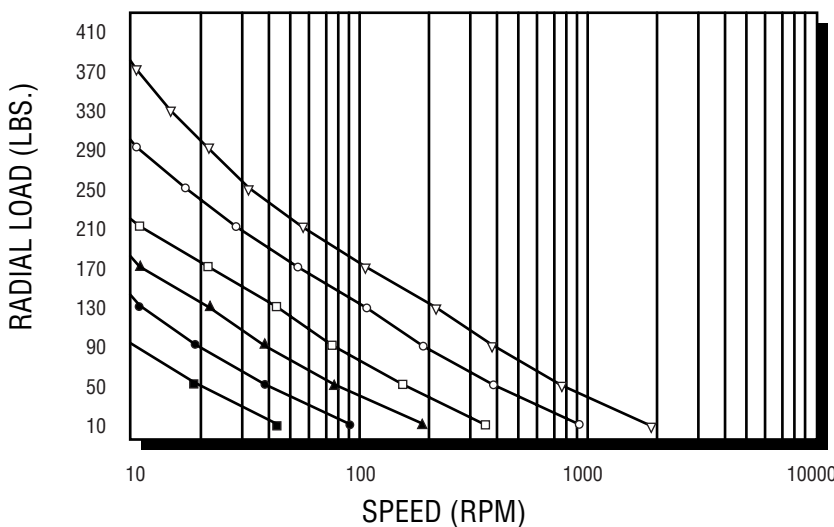
AXIAL LOAD: 50 LBS.



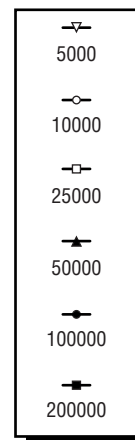
LIFE (HRS)



AXIAL LOAD: 150 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.

