

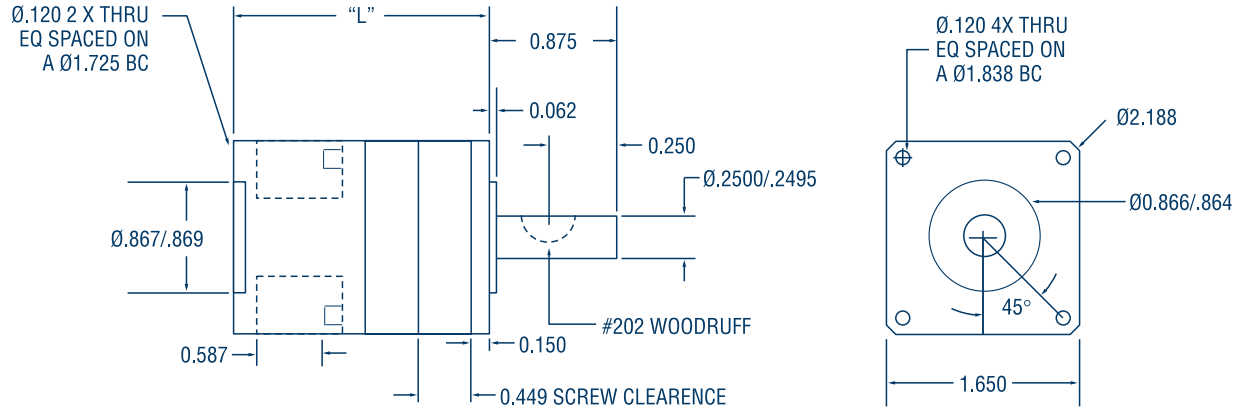


# SIZE 17 "S" SERIES PLANETARY

## DIMENSION "L"

Single Stage (4:1 to 10:1) =  $2.17 \pm .015$

Double Stage (16:1 to 100:1) =  $2.78 \pm .015$



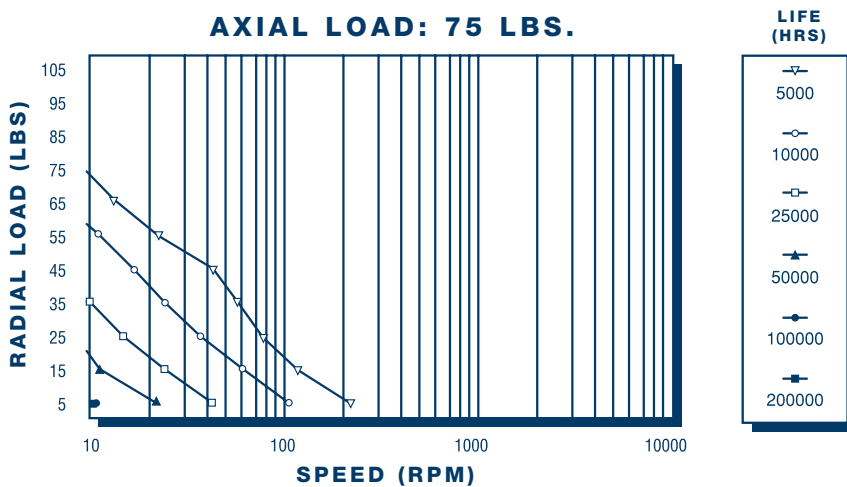
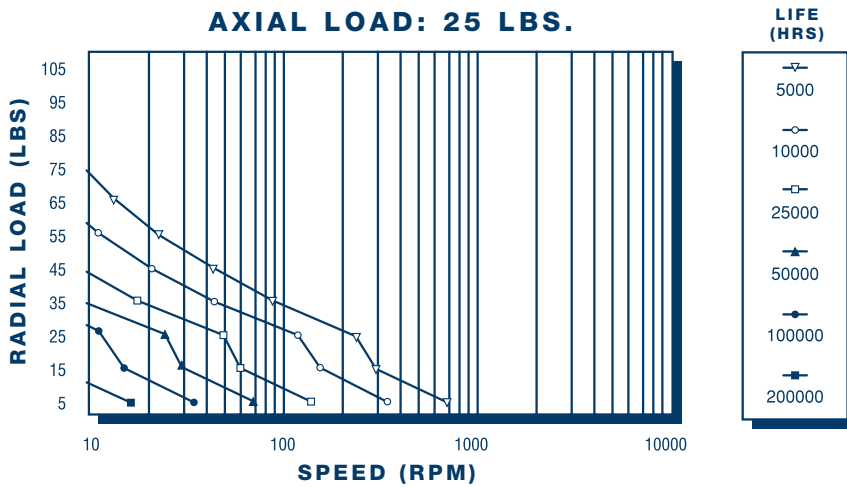
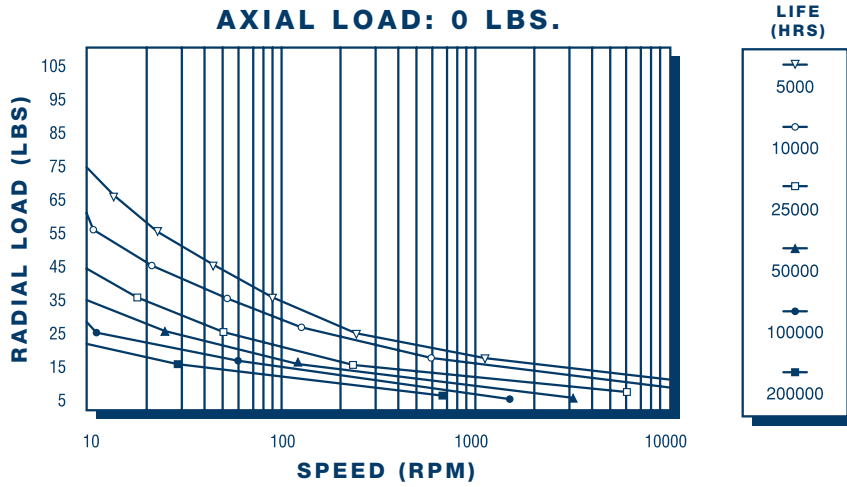
Part #	Ratio	Continuous output torque at 1500 rpm input (in-lbs)	Continuous output torque at 3500 rpm input (in-lbs)	Continuous output torque at 5000 rpm input (in-lbs)	Gearhead inertia at input (lb-in-sec <sup>2</sup> )
<b>SINGLE STAGE</b>					
17SP004	4:1	75	57	49	$1.28 \times 10^{-5}$
17SP007	7:1	60	51	46	$7.65 \times 10^{-6}$
17SP010	10:1	48	43	39	$6.69 \times 10^{-6}$
<b>DOUBLE STAGE</b>					
17SP016	16:1	81	74	70	$1.27 \times 10^{-5}$
17SP028	28:1	83	79	76	$7.63 \times 10^{-6}$
17SP049	49:1	61	59	58	$7.55 \times 10^{-6}$
17SP070	70:1	61	60	59	$6.64 \times 10^{-6}$
17SP100	100:1	47	46	46	$6.63 \times 10^{-6}$

## GENERAL SPECIFICATIONS

Construction Type	Ratio	Backlash: Standard (arc-minutes)	Backlash: Low Backlash (arc-minutes)	Efficiency	Weight (lbs)	Maximum Tested Input rpm
Single Stage	4:1 to 10:1	12	6	95%	0.59	5000
Double Stage	16:1 to 100:1	16	10	90%	0.88	5000

**PEAK TORQUE:** 15% above continuous rating. **NOTE:** Repeated peak torque loading may cause failure.

# SIZE 17 SP BEARING LIFE VS. SHAFT LOAD



**SPEED (RPM)** refers to the gearheads output shaft speed.

**LIFE (HRS)** = (# of lifetime revolutions) ÷ (60 x rpm)

**F<sub>RADIAL</sub>** is calculated at 1/2 the shaft length.

