### Specifications

**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-sec²)**

**SINGLE STAGE**
- 34SP004 4:1 529 515 350 279 1.28 x 10⁻⁴
- 34SP007 7:1 467 355 313 301 7.65 x 10⁻⁵
- 34SP010 10:1 384 313 275 6.69 x 10⁻⁵

**DOUBLE STAGE**
- 34SP016 16:1 667 566 499 499 1.27 x 10⁻⁴
- 34SP028 28:1 670 639 514 595 7.63 x 10⁻⁵
- 34SP049 49:1 528 499 480 7.55 x 10⁻⁵
- 34SP070 70:1 534 514 499 6.64 x 10⁻⁵
- 34SP100 100:1 409 398 391 6.63 x 10⁻⁵

### General Specifications

<table>
<thead>
<tr>
<th>Construction Type</th>
<th>Ratio</th>
<th>Backlash: Standard (arc-minutes)</th>
<th>Backlash: Low Backlash (arc-minutes)</th>
<th>Efficiency</th>
<th>Weight (lbs)</th>
<th>Maximum Tested Input rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Stage</td>
<td>4:1 to 10:1</td>
<td>12</td>
<td>6</td>
<td>95%</td>
<td>3.67</td>
<td>5000</td>
</tr>
<tr>
<td>Double Stage</td>
<td>16:1 to 100:1</td>
<td>16</td>
<td>10</td>
<td>90%</td>
<td>5.10</td>
<td>5000</td>
</tr>
</tbody>
</table>

**Peak Torque:** 15% above continuous rating.

**Note:** Repeated peak torque loading may cause failure.
BEARING LIFE VS SHAFT LOAD

SPEED (RPM)
Refers to the gearheads output shaft speed.

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

^RADIAL
Calculated at 1/2 the shaft length.

AXIAL LOAD: 0 LBS.

RADIAL LOAD (LBS)

AXIAL LOAD: 50 LBS.

RADIAL LOAD (LBS)

AXIAL LOAD: 100 LBS.

RADIAL LOAD (LBS)