TELESCOPING MINIATURE BALL SPLINES

ZERO BACKLASH
LOW INERTIA
ACCOMMODATES 1/4" AXIAL MOTION

➤ MATERIAL:
Body & Shaft - 303 Stainless Steel
Balls - 440 Stainless Steel

➤ MAXIMUM OPERATING SPEED:
10000 rpm

➤ FEATURES:
Zero Backlash is attained with patented design and close dimensional control of components.
Use where axial motion is present while transmitting rotary motion.
Will not accommodate angular misalignment.

➤ LUBRICATION:
Dry Film Plus Oil Suspension

These splines may be mated to S57PY5-... and S57PY4-... series of universal joints to make telescoping universal joints.

INCH COMPONENT

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>O.D.</th>
<th>B Bore +.001 - .000</th>
<th>C Bore Depth</th>
<th>D Shoulder Length</th>
<th>E Dia. +.000 - .001</th>
<th>L* Closed</th>
<th>Set Screw Size</th>
<th>Torque ozf in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S59PY5-TBS0309</td>
<td>9/32</td>
<td>.0938</td>
<td>1/4</td>
<td>1/4</td>
<td>.0938</td>
<td>1-1/16</td>
<td>#2-56</td>
<td>16</td>
</tr>
<tr>
<td>S59PY5-TBS0409</td>
<td>9/32</td>
<td>.125</td>
<td>1/4</td>
<td>1/4</td>
<td>.125</td>
<td>1-1/16</td>
<td>#2-56</td>
<td>16</td>
</tr>
<tr>
<td>S59PY5-TBS0612</td>
<td>3/8</td>
<td>.1875</td>
<td>5/16</td>
<td>5/16</td>
<td>.1875</td>
<td>1-1/4</td>
<td>#4-40</td>
<td>64</td>
</tr>
<tr>
<td>S59PY5-TBS0816</td>
<td>1/2</td>
<td>.250</td>
<td>3/8</td>
<td>3/8</td>
<td>.250</td>
<td>1-1/2</td>
<td>#6-32</td>
<td>256</td>
</tr>
</tbody>
</table>

* Closed dimensions for standard 1/4" of travel (min.). Up to 4" of travel available on special order.
See additional items on the next page.
TELESCOPING MINIATURE BALL SPLINES

ZERO BACKLASH
LOW INERTIA
ACCOMMODATES 1/4" AXIAL MOTION

> MATERIAL:
  Body & Shaft - 440 Stainless Steel
  Balls - 440 Stainless Steel

> MAXIMUM OPERATING SPEED:
  8000 rpm

> FEATURES:
  Zero Backlash is attained with patented design and close dimensional control of components.
  Use where axial motion is present while transmitting rotary motion.
  Will not accommodate angular misalignment.

> LUBRICATION:
  Dry Film Plus Oil Suspension

These splines may be mated to S57PY5-... and S57PY4-... series of universal joints to make telescoping universal joints.

---

### INCH COMPONENT

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>O.D.</th>
<th>B (Bore +.001 - .000)</th>
<th>C (Bore Depth)</th>
<th>D (Shoulder Length)</th>
<th>E (Dia. +.000 -.001)</th>
<th>L (Closed)</th>
<th>Set Screw Size</th>
<th>Torque oz in.</th>
<th>K (Keyway Length) (min.)</th>
<th>W (Keyway Width +.0015 -.0000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S59POS-TBS1232</td>
<td>1</td>
<td>.375</td>
<td>1/2</td>
<td>1/2</td>
<td>.375</td>
<td>2-1/8</td>
<td>1/4-20</td>
<td>1200</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>S59POS-TBS2048</td>
<td>1-1/2</td>
<td>.625</td>
<td>3/4</td>
<td>3/4</td>
<td>.625</td>
<td>3</td>
<td>5/16-18</td>
<td>4800</td>
<td>1/2</td>
<td>.1875</td>
</tr>
<tr>
<td>S59POS-TBS3264</td>
<td>2</td>
<td>1.000</td>
<td>1-1/4</td>
<td>1-1/4</td>
<td>1.000</td>
<td>4-1/4</td>
<td>3/8-16</td>
<td>9600</td>
<td>3/4</td>
<td>.2500</td>
</tr>
</tbody>
</table>

* Closed dimensions for standard 1/4” of travel (min.).
Up to 4” of travel available on special order.

---

See additional items on the previous page