Insert Bearings Engineered for the Conveyor Industry

Conveyor system requirements are more demanding than ever. The high level of consumer demand coupled with the diversity of bulk materials requires durable, effective equipment.

Conveyor technology has evolved to address the needs of automated manufacturing and distribution environments. Reliable components are necessary to reduce maintenance costs, maximize production efficiency, and increase uptime. As a critical component in conveyor systems, selecting the proper bearing and features is crucial to maximizing system performance.

To address this, PEER introduces new features to the standard SER bearing package.

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black oxide coating</td>
<td>Provides improved corrosion resistance</td>
</tr>
<tr>
<td>Premium nitrile seal material</td>
<td>Longer seal life due to improved high temperature and wear resistance</td>
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<tr>
<td>Premium grease</td>
<td>High and low temperature capability extends grease life</td>
</tr>
<tr>
<td>Nylon retainer</td>
<td>Improves misalignment capability</td>
</tr>
<tr>
<td>New seal lip design</td>
<td>Extends life and improves contaminant protection</td>
</tr>
<tr>
<td>Industry standard sizing</td>
<td>Interchangeable with industry offerings</td>
</tr>
</tbody>
</table>

COMMON APPLICATIONS
- Intelligent conveyor systems
- Bulk handling conveyors
- Unit handling conveyors
- Belt conveyors
- Agricultural machinery
Insert Bearings
SER Series Set Screw Locking

- Popular series used in many roller applications
- Standard load capacity
- Wide inner ring with cylindrical outer ring and snap ring
- Relubrication groove with oil hole on side opposite of set screws
- Nylon patched class 3A set screws are standard
- Standard seal: H-Seal plus slinger

Higher performance seal options available for heavily contaminated environments.

### Dimensions (in/mm)

<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Shaft Diam.</th>
<th>D</th>
<th>Bi</th>
<th>Be</th>
<th>n</th>
<th>m</th>
<th>E</th>
<th>W</th>
<th>o</th>
<th>T</th>
<th>J</th>
<th>G</th>
<th>Y</th>
<th>X</th>
<th>ds (UNF-Thread)</th>
<th>Load Rating (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SER-8</td>
<td>1/2</td>
<td>1.8504</td>
<td>1.220</td>
<td>0.626</td>
<td>0.4528</td>
<td>0.768</td>
<td>0.48</td>
<td>1.130</td>
<td>0.157</td>
<td>0.10</td>
<td>0.197</td>
<td>0.27</td>
<td>0.80</td>
<td>0.60</td>
<td>M6 XP1.0</td>
<td>1/4-28x1/4 2900</td>
</tr>
<tr>
<td>SER-9</td>
<td>5/32</td>
<td>47.000</td>
<td>31.000</td>
<td>15.900</td>
<td>11.500</td>
<td>19.500</td>
<td>12.10</td>
<td>28.700</td>
<td>4.00</td>
<td>1.35</td>
<td>2.46</td>
<td>5.00</td>
<td>35.70</td>
<td>15.36</td>
<td></td>
<td></td>
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<tr>
<td>SER-10</td>
<td>1/8</td>
<td>1.374</td>
<td>0.752</td>
<td>0.5428</td>
<td>0.376</td>
<td>0.60</td>
<td>0.3127</td>
<td>0.205</td>
<td>0.11</td>
<td>0.197</td>
<td>0.27</td>
<td>0.80</td>
<td>0.60</td>
<td>M6 XP1.0</td>
<td>1/4-28x1/4 3150</td>
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<tr>
<td>SER-11</td>
<td>3/32</td>
<td>13.200</td>
<td>8.100</td>
<td>5.100</td>
<td>3.80</td>
<td>6.20</td>
<td>3.67</td>
<td>11.60</td>
<td>5.60</td>
<td>3.18</td>
<td>3.28</td>
<td>6.40</td>
<td>76.00</td>
<td>16.28</td>
<td></td>
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<tr>
<td>SER-12</td>
<td>1/32</td>
<td>10.600</td>
<td>6.60</td>
<td>4.50</td>
<td>3.30</td>
<td>5.80</td>
<td>3.70</td>
<td>11.10</td>
<td>5.20</td>
<td>3.28</td>
<td>3.28</td>
<td>6.40</td>
<td>76.00</td>
<td>16.28</td>
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<td></td>
</tr>
<tr>
<td>SER-13</td>
<td>1/64</td>
<td>8.000</td>
<td>5.00</td>
<td>4.00</td>
<td>3.00</td>
<td>4.80</td>
<td>3.18</td>
<td>10.60</td>
<td>4.80</td>
<td>3.18</td>
<td>3.28</td>
<td>6.40</td>
<td>76.00</td>
<td>16.28</td>
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**Note:**
- Unit No.: Abbreviation for the set screw size.
- Shaft Diam.: Diameter of the shaft in inches.
- D, Bi, Be: Dimensions in inches.
- n, m, E, W, o, T, J, G, Y, X: Dimensions in inches or millimeters.
- ds (UNF-Thread): Diameter of the thread.
- Load Rating (Lbs.): Maximum load capacity in pounds.

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