Contamination is the leading cause of premature bearing failure in residential and commercial equipment. Conventional bearings are not capable of providing consistent, long-term performance under harsh conditions.

PEER TURFXTREME™ seal solutions utilize AGXTREME™ technology to seal out clippings, water and maintain seal integrity when exposed to external force due to wrapping debris and pressure washing. Preventing contaminant ingress substantially increases equipment life, requiring less frequent customer maintenance and greatly reduced cost of machine ownership.

PEER sealed-for-life solutions for Lawn & Garden equipment comply with international bearing standards and are easily interchangeable for use in existing applications.

Rely on PEER's range of Lawn & Garden bearing solutions to meet your most demanding performance expectations and keep your machines running.

**CASTER**
- Typical bearing types used: Standard DGBB and TRB
- Ball bearings with integrated snap rings for ease of mounting

**CLUTCH**
- Typical bearing types used: Standard DGBB
- Seals are specially designed to prevent grease purge and ingress of clutch dust
- Seal material and grease options available for high temperature applications

**IDLER PULLEY**
- Typical bearing types used: DGBB
- Increased grease fill for improved corrosion protection
- Seal options for Moderate, High and Xtreme environments
- Seals designed to avoid water intrusion during mower deck washing
- Special designs with extended inner rings available for ease of mounting
**ROLLER**
- Typical bearing types used: DGBB and TRB
- Increased grease fill for improved corrosion protection
- Seal options for Moderate, High and Xtreme environments including multi-lip seals
- Increased clearance for economical mounting (standard tube can be used)
- Flanges, snap rings or special dimensions available for ease of mounting

**WHEEL**
- Typical bearing types used: DGBB and TRB
- Increased grease fill for improved corrosion protection
- Seal options for Moderate, High and Xtreme environments
- Increased clearance for economical mounting (standard tube can be used)
- Flanges, snap rings or special dimensions available for ease of mounting

**SPINDLE**
- Typical bearing types used: DGBB and TRB
- Increased grease fill for improved corrosion protection
- Seal options for Moderate, High and Xtreme environments
- Seals designed to avoid water intrusion during mower deck washing
- Seal designs available (RSTFP) to eliminate damage due to wrapping debris
- Special designs with extended inner rings available for ease of mounting

DGBB = Deep Groove Ball Bearing
TRB = Tapered Roller Bearing
PRODUCT FEATURES, BENEFITS AND VALUE

- Multiple bearing performance levels provide options to meet moderate to Xtreme performance requirements in both residential and commercial applications.
- Solutions comply with international bearing standards and are easily interchangeable for use in existing applications.
- Solutions can be engineered to meet customer specific requirements.
- Longer bearing life results in:
  - Less customer maintenance and reduced cost of machine ownership.
  - Reduced OEM warranty exposure and cost.
  - Strengthened OEM product and brand integrity.

**FEATURES AND BENEFITS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
<th>2RLYD</th>
<th>2RSFP</th>
<th>2RSTFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact sealed for life</td>
<td>• Contamination prevention</td>
<td>Moderate</td>
<td>High</td>
<td>Xtreme</td>
</tr>
<tr>
<td>High quality through hardened bearing steel</td>
<td>• Improves fatigue life</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Precision ground and superfinished raceways</td>
<td>• Reduces vibration and extends life</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Premium polyurea thickened grease</td>
<td>• Excellent high and low temperature capability&lt;br&gt;• Extends grease life</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Increased grease fill</td>
<td>• Improves corrosion protection during machine idle periods</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Premium nitrile seal material composition</td>
<td>• Longer seal life due to improved high temperature and wear resistance</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Optimized seal design</td>
<td>• Maintains seal integrity when exposed to external force due to wrapping debris and pressure washing</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Precision ground seal contact surface</td>
<td>• Smooth surface finish results in longer seal lip life&lt;br&gt;• Improves ring concentricity which results in increased seal effectiveness</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Increased seal lip contact</td>
<td>• Improves contaminant exclusion in Xtreme environments</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Heavy gauge steel shroud</td>
<td>• Protects seal from large solid contaminants (stones, pebbles, dirt)</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

**TAPERED ROLLER BEARINGS**

TRBs offer increased axial and radial load capacity as compared to DGBBs. Example applications include gearboxes, mower spindles and wheels. TRBs are available in metric and inch designs.

- Sealed TRBs offer an integrated solution for grease lubricated applications as an economical replacement to a traditional shaft seal and bearing as individual components.
- TRB matched pairs are assembled and packaged together with the cup and cone spacers required to achieve a pre-determined bench end play.

DGBB = Deep Groove Ball Bearing<br>TRB = Tapered Roller Bearing
**MUD SLURRY TESTING**

**Seal Design Validation**

Mud slurry testing is performed to validate the ability of seal designs to prevent contamination ingress under extreme environmental conditions. Mud slurry is a mixture consisting of abrasive test dust, water and fertilizer intended to accelerate contamination conditions found in the field. This test method is proven to yield results indicative of relative seal performance in the application.

![Mud Slurry Test Results](image)

**Mud Slurry Test Results**

![Graph showing test hours for different seal designs](image)
### Deep Groove Ball Bearing Common Sizes

<table>
<thead>
<tr>
<th>PEER Part Number</th>
<th>Seal Design Designation</th>
<th>Bore Diameter d</th>
<th>Outside Diameter D</th>
<th>Width B</th>
<th>Max Shaft &amp; Housing Radius r</th>
</tr>
</thead>
<tbody>
<tr>
<td>6203</td>
<td>-2RLYD -2RSFP -2RSTFP</td>
<td>17.000</td>
<td>40.000</td>
<td>12.000</td>
<td>0.4724</td>
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<tr>
<td>6204</td>
<td>-2RLYD -2RSFP -2RSTFP</td>
<td>20.000</td>
<td>47.000</td>
<td>14.000</td>
<td>0.5512</td>
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<tr>
<td>29504</td>
<td>-2RLYD -2RSFP -2RSTFP</td>
<td>19.016</td>
<td>45.220</td>
<td>15.490</td>
<td>0.6100</td>
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<tr>
<td>6205</td>
<td>-2RLYD -2RSFP -2RSTFP</td>
<td>25.000</td>
<td>52.000</td>
<td>15.000</td>
<td>0.5906</td>
</tr>
<tr>
<td>6206</td>
<td>-2RLYD -2RSFP -2RSTFP</td>
<td>30.000</td>
<td>62.000</td>
<td>17.000</td>
<td>0.6693</td>
</tr>
<tr>
<td>6207</td>
<td>-2RLYD -2RSFP -2RSTFP</td>
<td>35.000</td>
<td>72.000</td>
<td>17.000</td>
<td>0.6693</td>
</tr>
</tbody>
</table>

### Tapered Roller Bearing Common Sizes

<table>
<thead>
<tr>
<th>PEER Part Number</th>
<th>Bore Diameter d</th>
<th>Outside Diameter D</th>
<th>Cone Width B</th>
<th>Cup Width C</th>
<th>Assembly Width T</th>
<th>Max Shaft Radius R</th>
<th>Max Housing Radius r</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM11949 / LM11910</td>
<td>19.050</td>
<td>46.237</td>
<td>16.637</td>
<td>12.065</td>
<td>15.494</td>
<td>1.27</td>
<td>1.27</td>
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<tr>
<td>L44643 / L44610</td>
<td>25.400</td>
<td>59.131</td>
<td>16.764</td>
<td>11.811</td>
<td>15.875</td>
<td>3.60</td>
<td>1.27</td>
</tr>
</tbody>
</table>

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**TurfXtreme**

Bearing Solutions for Lawn & Garden Equipment
OUTDOOR POWER EQUIPMENT
Assembled with PEER Bearings

**CHAINSAW**
Typical Bearings Used: DGBB
- Crankshaft
- Clutch

**HEDGE TRIMMER**
Typical Bearings Used: DGBB
- Crankshaft
- Gear Case

**GAS BLOWER**
Typical Bearings Used: DGBB
- Crankshaft
- Fan Shaft

**STRING TRIMMER**
Typical Bearings Used: DGBB
- Crankshaft
- Gear Case
- Clutch

**TREE PRuner**
Typical Bearings Used: DGBB
- Crankshaft
- Gear Case
- Clutch
- Extension Driveshaft

**TILLER**
Typical Bearings Used: DGBB
- Clutch
- Crankshaft
- Driveshaft

**SNOW THROWER**
Typical Bearings Used: DGBB
- Clutch
- Crankshaft
- Driveshaft
- Transmission
- Auger Assembly
ABOUT PEER

Full line of agricultural, radial, mounted unit ball bearings and tapered roller bearings

Valued bearing solutions for lawn & garden, agricultural, industrial transmission, material handling, fluid, electrical, HVAC, off-highway and on-highway applications

Global application engineering support

TS-16949 certified manufacturing facilities

Dedicated Research and Development center

Testing capabilities include: fatigue life, noise/vibration, mud slurry and salt spray testing

Flexible manufacturing to allow for low to high volume production

Customer service excellence

Trusted Difference at Every Turn

To place an order call…