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BEARING SOLUTIONS FOR LAWN & GARDEN EQUIPMENT

EER®

Trusted Difference at Every Turn™

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Bearing Solutions for Mower Applications

Tough Bearings that Make the Cut

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

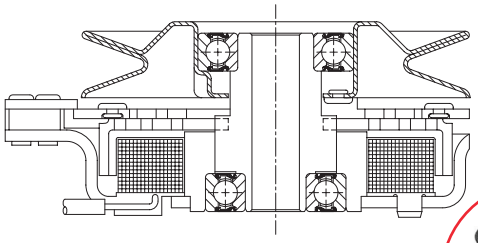
PEER TURFXTREME™ seal solutions utilize AGXTREME™ technology to seal out clippings, water and maintain seal integrity when exposed to external force due to wrapping debris and pressure washing. Preventing contaminant ingress substantially increases equipment life, requiring less frequent customer maintenance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

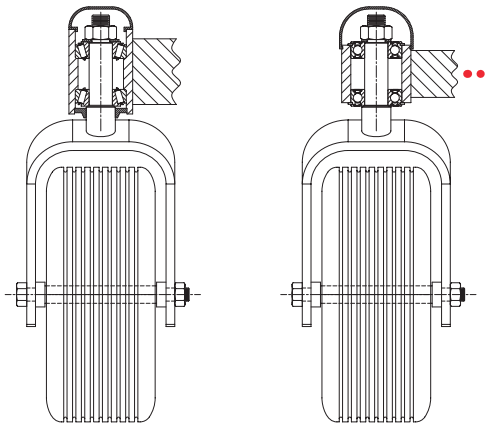
Clutch

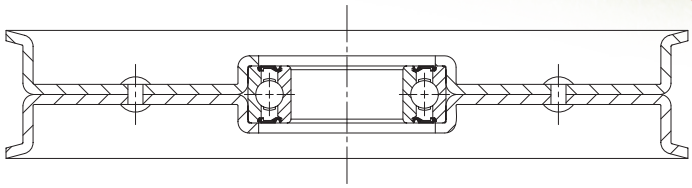
- Typical bearing types used: Standard DGBB
- Specially designed seals prevent grease purge and ingress of clutch dust
- Seal material and grease options available for high temperature applications



Caster

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





Idler Pulley

- Typical bearing types used: DGBB
- Increased grease fill for improved corrosion protection
- Seal options for 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

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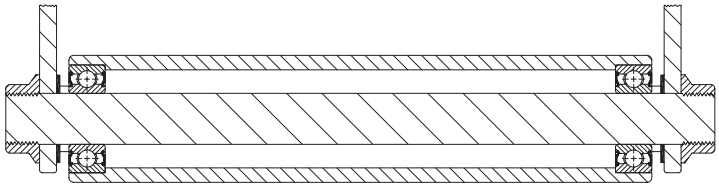
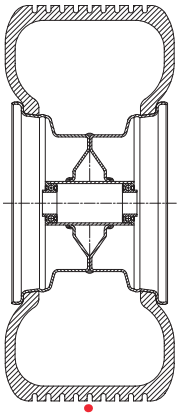


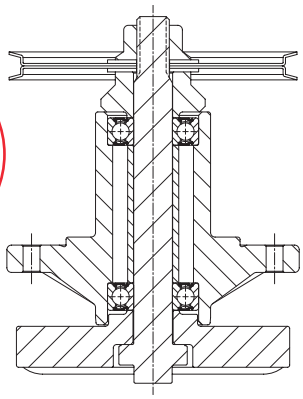
Roller

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

DGBB = Deep Groove Ball Bearing, TRB = Tapered Roller Bearing

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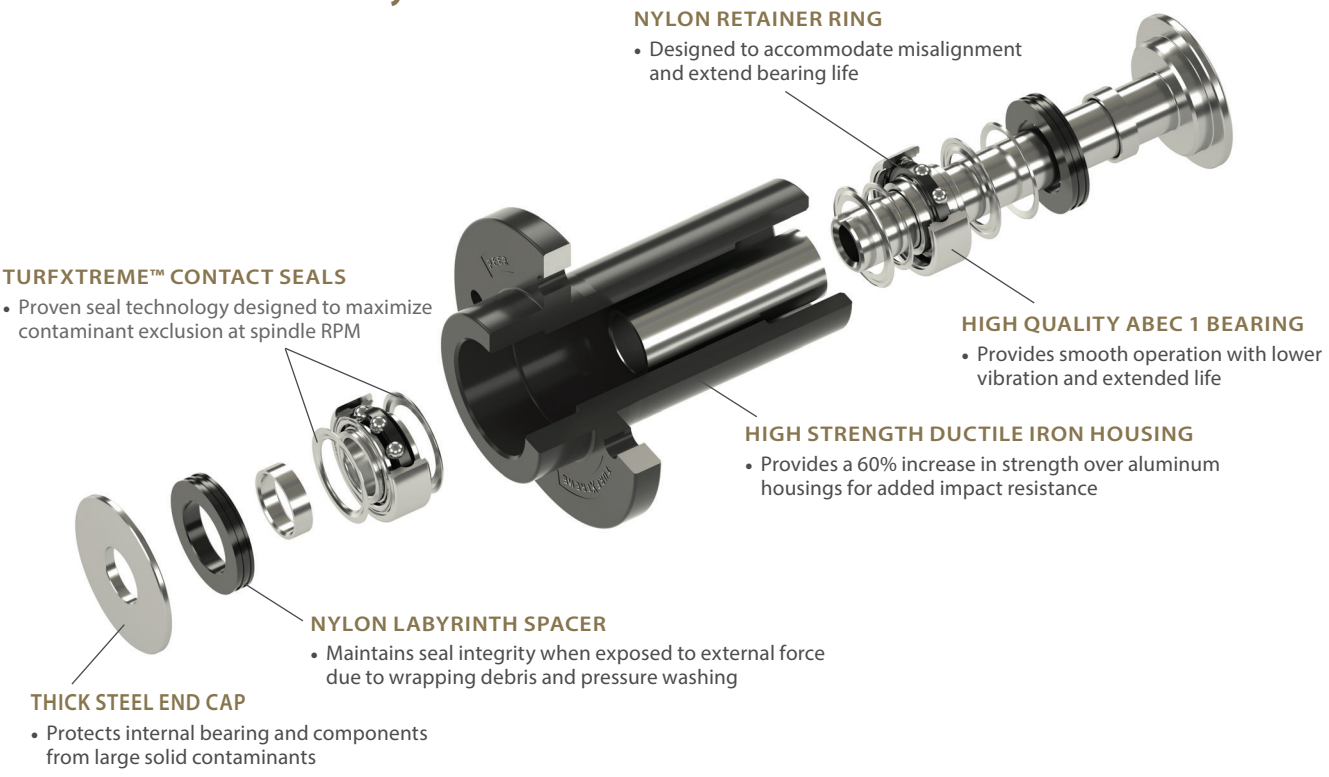
Maximize Performance and Increase Productivity

Outdoor power equipment is continually advancing. Shouldn't your equipment? PEER's Mower Deck Spindle Assembly provides proven contamination exclusion technology to increase durability and reduce maintenance.

Product Features	User Benefits
Contamination exclusion technology	Provides longer bearing life, free of maintenance • Seal technology proven in harshly contaminated agricultural environments • Shaft and housing designed to provide an integrated barrier to contamination • Labyrinth spacer provides added protection to the bearing seals when exposed to external force due to wrapping debris
High-strength ductile iron	Provides a 60% increase in strength over aluminum housings for added impact resistance
Correct bearing assembly practices	Increases durability
High quality ABEC 1 bearings	High load capacity and speed capabilities
Customized mounting dimensions	• Reduce design work to adopt new spindle • Increased speed-to-market

PEER Mower Deck Assembly



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Product Value, Features and Benefits

Value Proposition

- Multiple bearing performance levels provide options to meet high 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

2RSFP

2RSTFP
TURFXTREME

Features and Benefits

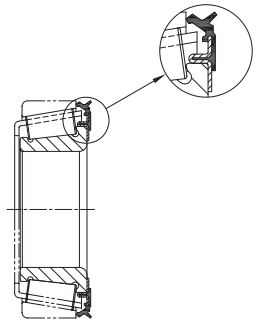
Feature	Benefit	2RSFP	2RSTFP
Contact sealed for life	Contamination prevention	High	Xtreme
High quality through hardened bearing steel	Improves fatigue life	•	•
Precision ground and superfinished raceways	Reduces vibration and extends life	•	•
Premium polyurea thickened grease	• Excellent high and low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

Tapered Roller Bearings

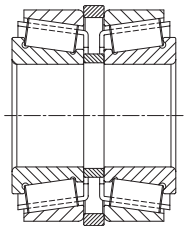
TRBs offer increased axial and radial load capacity as compared to DGBBs. Example applications include gearboxes, mower spindles and wheels. TRBs are available in metric and inch designs.

- 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, TRB = Tapered Roller Bearing



Sealed



Matched Pair

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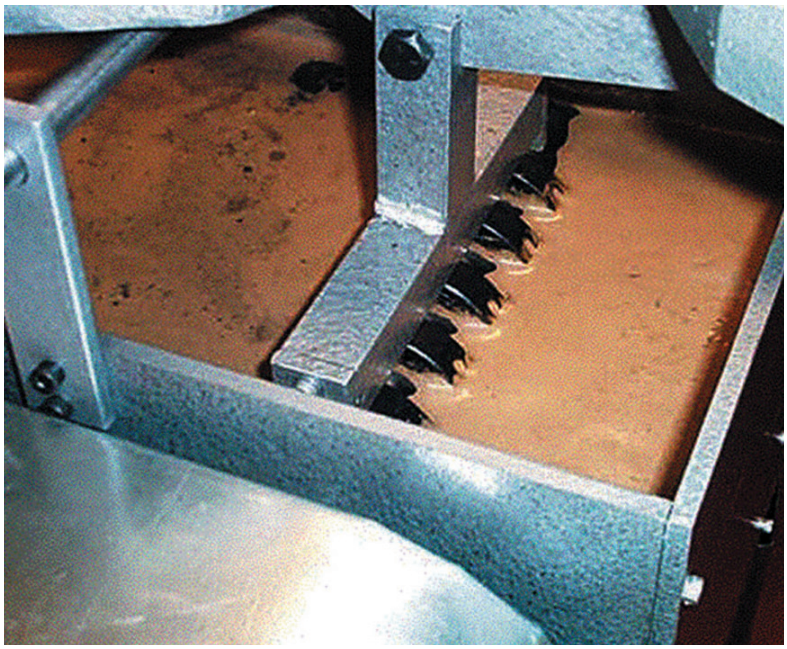
Mud Slurry Testing

Seal Design Validation

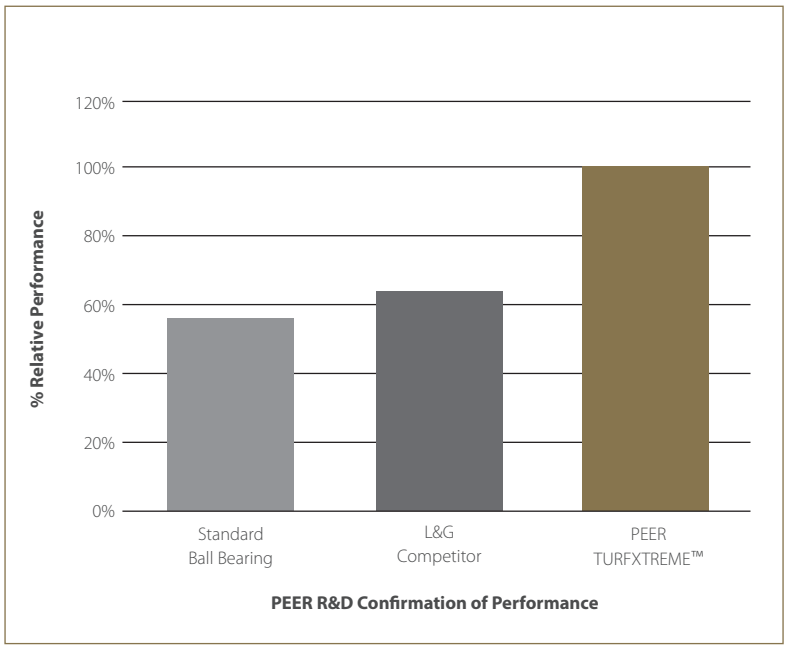
Mud slurry testing is performed to validate the ability of seal designs to prevent contamination ingress under extreme environmental conditions. Mud slurry is a mixture consisting of abrasive test dust, water and fertilizer intended to accelerate contamination conditions found in the field. PEER couples seal design expertise and information obtained through mud slurry validation to achieve optimal contamination exclusion for Lawn & Garden bearings.



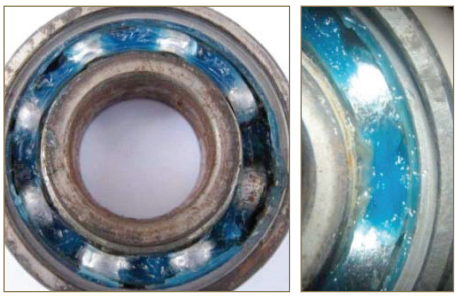
Typical Standard Ball Bearing Seal (32 hours)

Competitor Seal for L&G Applications (32 hours)

Mud Slurry Test Results



PEER 2RSFP Seal (32 hours)



PEER 2RSTFP Seal (32 hours)

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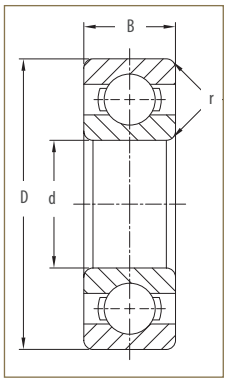
Lawn & Garden Bearing Sizes

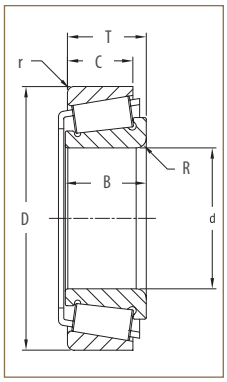
Deep Groove Ball Bearing Common Sizes

PEER Part Number	Seal Design Designation Contamination Exclusion Capability		Bore Diameter d		Outside Diameter D		Width B		Max Shaft & Housing Radius r	
	High	Xtreme	inch	mm	inch	mm	inch	mm	inch	mm
6203	-2RSFP	-2RSTFP	0.6693	17.000	1.5748	40.000	0.4724	12.000	0.024	0.60
6204	-2RSFP	-2RSTFP	0.7874	20.000	1.8504	47.000	0.5512	14.000	0.039	1.00
Z9504	-2RSFP	-2RSTFP	0.7504	19.016	1.7805	45.220	0.6100	15.490	0.039	1.00
6205	-2RSFP	-2RSTFP	0.9843	25.000	2.0472	52.000	0.5906	15.000	0.039	1.00
6206	-2RSFP	-2RSTFP	1.1811	/	2.4409	/	0.6299	/	0.039	/
6207	-2RSFP	-2RSTFP	1.3780	/	2.8346	/	0.6693	/	0.043	/
6305	-2RSFP	-2RSTFP	0.9843	/	2.4409	/	0.6693	/	0.043	/

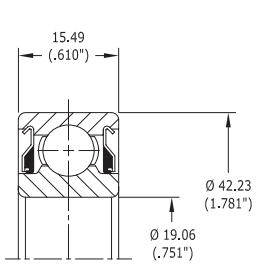


Tapered Roller Bearing Common Sizes

PEER Part Number	Bore Diameter d		Outside Diameter D		Cone Width B		Cup Width C		Assembly Width T		Max Shaft Radius R		Max Housing Radius r	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
LM11749 / LM11710	0.6875	17.463	1.5700	39.878	0.5750	14.605	0.4200	10.668	0.5450	13.843	0.050	1.27	0.050	1.27
LM11949 / LM11910	0.7500	19.050	1.7810	45.237	0.6550	16.637	0.4750	12.065	0.6100	15.494	0.050	1.27	0.050	1.27
L44643 / L44610	1.0000	25.400	1.9800	50.292	0.5800	14.732	0.4200	10.668	0.5600	14.224	0.050	1.27	0.050	1.27
LM67048 / LM67010	1.2500	31.750	2.3280	59.131	0.6600	16.764	0.4650	11.811	0.6250	15.875	0.142	3.60	0.050	1.27



Specials



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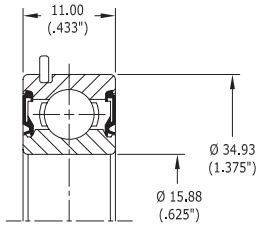

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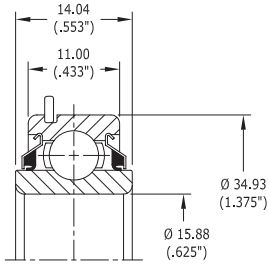

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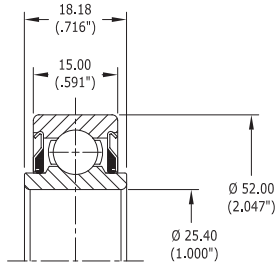

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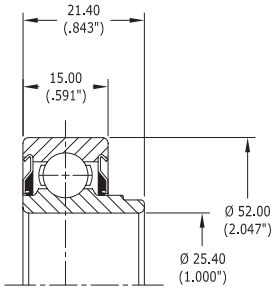

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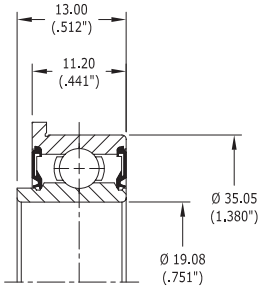

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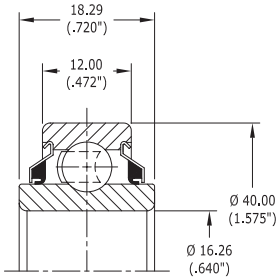

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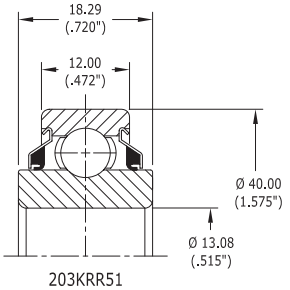

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PEER® Bearing offers

- *A full line of agricultural, radial, mounted unit ball bearings and tapered roller bearings*
- *Advanced technological solutions for all kinds of applications*
- *TS16949 certified manufacturing facilities*
- *A dedicated research and development center*
- *Global application engineering support*

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