



Bearing Solutions for the Agriculture Industry

with RBI's RuggedSeal® Technology



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TOUGH JOBS NEED TOUGH BEARINGS

Farmer's require their equipment to operate uninterrupted. Bearing failures caused by contamination are not an option as any unplanned downtime results in higher operating costs due to the loss of production time and maintenance costs. RBI's Agricultural Bearings are designed with our exclusive RuggedSeal® technology to seal out dirt, water, humidity, fertilizer, and general debris, and have been proven to withstand routine pressure washing cycles.

RUGGEDSEAL TECHNOLOGY

RBI's RuggedSeal Technology serves to optimize bearing performance, despite the ever increasing demands required from agricultural equipment. RBI offers a variety of RuggedSeal options including:

- Premium Buna N Nitrile Rubber seals standard
- Special seal material options available
- Various seal contact levels available (light, medium, heavy contact)
- Knurled seal grooves for improved seal retention
- Ground seal grooves for improved seal contact
- Rubber seal bonded to heavy steel shroud (Trashguard style) for severe contamination conditions
- Various seal lip configurations available (single, double, triple)

RBI can also provide custom solutions to suit your particular application, which may require adjusting seal designs and lubrication types and fills, in order to extend bearing life and provide reliable operation of equipment.



DEPENDABLE, RELIABLE & COST EFFICIENT

RBI Bearing, a trusted bearing and precision machined parts manufacturer, produces various bearings for the agricultural industry. Our ISO9002 and TS16949 certified bearing factory utilizes modern manufacturing technology and automated processes to produce high quality bearings at an affordable price.

ADVANTAGES:

- Large selection of industry standard bore and sizes
- Ease of interchange with a wide variety of product offerings
- High thrust & load capacity via improved raceway geometry
- Superfinished raceways & high grade balls
- Selection of RBI’s RuggedSeal designs to accommodate diversified environments and speeds
- 20° contact angle to increase radial load (5203KYY2 only)
- Wide ball spacing for maximum stability (5203KYY2 only)

FEATURES:

- 52100 Steel rings and balls
- Shell Gadus S2 V1003 Lithium grease
- High temperature performance
- No leakage even in shock loaded application
- Good corrosion resistance
- Increased load rating
- Extended life & improved performance
- Reliable operation in all weather conditions

PRODUCT SPECS:

- Bore size: 1/2” and up
- Outer Diameter: up to 3”
- Closures: single, double or triple lip
- Ring and ball material: 52100 chrome steel
- Seal material: Buna N nitrile rubber
- Retainer: Riveted steel, glass filled & non-glass filed nylon polymer
- Precision Class: ABEC1
- Radial Internal Clearance: CN, C3, C4



RBI AGRICULTURAL BEARINGS

SKU	ID (in)	OD (in)	Width IR (in)	Width OR (in)	Main Uses	
204KRR2	0.687	1.850	0.825	0.590	Cross Auger, hex bore, single lip Trashguard seals	
203KRR5	0.515	1.5748	0.720	0.472	Disc opener, double lip Trashguard seals	
204FREN	0.631	1.7805	0.735	0.610	Disc opener 4-point gothic arch design, with single lip and double lip Trashguard seal	
204KRD4	0.630	1.8504	0.689	0.550	Disc opener, with single lip seal and single lip Trashguard seal	
204RR8	0.631	1.7805	0.610	0.610	Disc opener, single lip Trashguard seals	
205KP8	0.755	2.047	0.720	0.590	Disc opener, triple lip Trashguard seal one side, open other side	
205KR3	0.756	2.040	0.640	0.700	Disc opener, single lip Trashguard seal one side, open other side	
205KRP2	0.755	2.0472	0.830	0.590	Disc opener with single lip and triple lip Trashguard seals	
205KRR2	0.875	2.0472	1.000	0.591	Disc opener, hex bore, double lip Trashguard seals	
205KRRB2	0.875	2.0472	1.000	0.590	Disc opener, hex bore, spherical OD, double lip Trashguard seals	
206GGH	0.756	2.440	0.945	0.630	Disc opener, triple lip Trashguard seals	
206KPR4	0.990	2.4409	0.875	0.708	Disc opener with single lip and triple lip Trashguard seals	
5206KPP3	1.187	2.4409	1.968	1.456	Disc opener, triple lip Trashguard seals	
203KRR2	0.630	1.574	0.720	0.472	Gauge Wheel, closing wheel & press wheel bearings, single lip Trashguard seals	
203KRR3	0.628	2.000	0.590	0.590	Gauge Wheel, closing wheel & press wheel bearings, single lip Trashguard seals	
5203KYY2	0.640	1.575	1.732	1.539	Gauge Wheel, closing wheel & press wheel bearings, triple lip Trashguard seals	
5203KYY2-2	0.640	1.575	1.732	1.539	Gauge Wheel, closing wheel & press wheel bearings, double lip Trashguard seals	
P204RR6	0.750	1.780	0.610	0.610	Gauge Wheel, closing wheel & press wheel bearings, double lip Trashguard seals	

SKU	Shaft Dia (in)	OD (in)	Overall Length (in)	Width OR (in)	Shaft Length (in)	Main Uses
885151E	0.6267	1.1811	3.850	1.531	2.162	Long stem cultivator bearings
885154B	0.6267	1.1811	2.890	1.531	1.198	Press wheel & closing wheel bearings
885152	0.6267	1.1811	2.438	1.531	1.250	Short stem cultivator bearings

For samples and prices contact RBI at 1-800-708-2128.



5203KYY2 TESTING & CONCLUSION

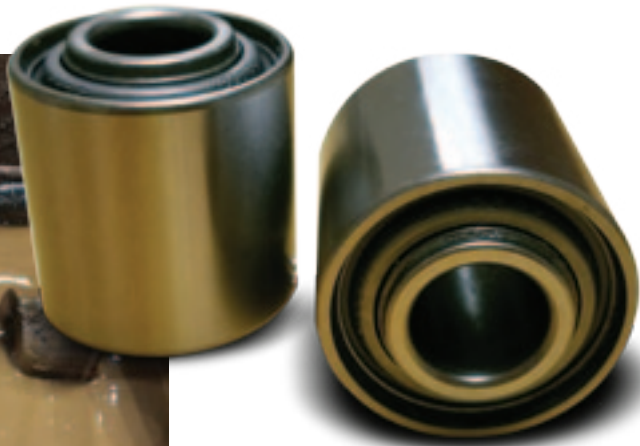
Description:
Mud slurry testing was performed to validate RBI's Agricultural Bearing design, particularly the ability to prevent contamination under simulated environmental conditions. The purpose of this slurry test to accelerate contamination conditions found in the field and is proven to yield results indicative of relative seal performance in the application. Bearings were run on a continuous cycle in a slurry mixture of water, testing clay, calcium oxide & chemical fertilizer, until there was bearing failure.

Part Number:
5203KYY2 with RuggedSeal Technology (double lip seals)

Load:
Axial 20-80 lbs
Radial: 20-100 lbs

Speed:
150-500 RPM

Slurry Contents:
Water
Testing Clay: 65%
Calcium Oxide: 25%
Chemical Fertilizer: 5%



TESTING RIG
SETUP - BEGINNING
OF SLURRY TEST



BEARING
EXAMINATION -
END OF SLURRY
TEST

Conclusion:
Our test results prove conclusively that the RBI Agricultural bearing, utilizing our RuggedSeal multiple lip contact seal technology, performs similar to major top-tier international brands, while out-performing low-cost country import brands. RBI product delivers premium performance without the premium price.

For samples and prices contact RBI at 1-800-708-2128.



The RBI Difference

- Our Customer's Trusted Partner for over 25 years
- Established Quality Brand
- Wholly Owned Bearing Manufacturer
- Wholly Owned Precision Machined Parts Manufacturer
- Wholly Owned Casting Manufacturer
- North American Sales, Service and Warehousing
- Bilingual North American Sales and Engineering
- Bilingual Asian Sales and Engineering
- Licensed International Trading Company
- Manufacturing Facilities are ISO9001 and TS16949 Certified
- Cross Culture Integrated Working System
- Engineering and Technical Support
- Custom Product Development
- Logistics Experts
- Sourcing Specialists
- Customized Stocking/Consignment Programs

Locations

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