

NICE

# BALL BEARINGS

- Precision Ground
- Unground
- Specials



Complete Information on this  
and other RBC products can be found at  
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Roller Bearing Company of America  
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RBC  
BEARINGS

# NICE Ball Bearings, Inc.

A Division of Roller Bearing Company of America

In 1902, William Nice founded one of the first "anti-friction" bearing manufacturing plants. Starting with unground ball types and developing into the ground field, NICE today produces a complete line of precision ground, semi-ground, and unground bearings and bearing assemblies. NICE is a leading manufacturer of high quality inch series, and specialty ball bearings for the automotive, agricultural, lawn equipment, semiconductor, medical and material handling markets.

## What We Manufacture

RBC and its divisions are manufacturers of bearings for applications in construction, mining and material handling equipment; mobile hydraulics systems; farm machinery; transportation equipment; automation and robotics; and a wide range of other industrial machinery. RBC is also a major manufacturer of bearings for critical and demanding aircraft and aerospace applications. RBC's high quality bearings include:

- **Spherical Plain Bearings** - Radial, angular contact, high misalignment, extended inner ring, QUADLUBE™ long life bearings, ArmaBearing™ shock resistant bearings, self-lubricating bearings, inch and metric.
- **Cam Followers and Yoke Rollers** - Standard stud, heavy stud, yoke type, caged roller followers, RBC Roller™ long life cam followers, Hexlube™ Universal Cam Followers, airframe track rollers.
- **Heavy Duty Needle Roller Bearings** - Pitchlign® caged heavy duty needle roller bearings, inner rings, type TJ Tandem Roller bearings for long life.
- **Rod Ends** - Commercial and industrial, precision, Mil-Spec series, aircraft, self-lubricating, inch and metric.
- **Self-Lubricating Bearings** - Radial, thrust, rod ends, spherical plain bearings, high temperature, high loads, inch and metric.
- **Cylindrical Roller Bearings** - 200/300 series separable assemblies. Wide range of series, sizes and styles. Specials to customer specifications.
- **Thin Section Ball Bearings** - Standard cross sections to one inch. Sizes to 40 inches. Stainless steel and other materials available. Seals are available on all sizes and standard cross sections.
- **Airframe Control Bearings** - Ball bearing types, self-lubricating types, needle roller track rollers.
- **Mast Guide and Sheave Bearings** - Mast guide rollers and carriage rollers, chain sheaves for leaf chain, toothless sprockets for roller chain, heavy duty roller bearing construction.
- **Unground Ball Bearings** - Full complement, utilizes design with burnished races for higher loads, long life and smooth operation.
- **Custom Designed Bearings** - RBC bearings produces a wide range of custom bearings for specific customer applications.

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BB0001-0001

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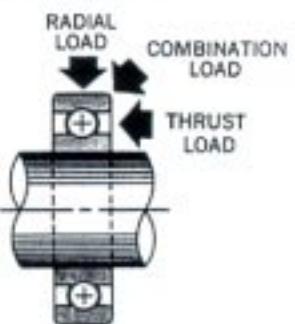
# PRODUCT Selection Guide

**N**ICE Ball Bearings, Inc. produces a full line of ground, semi-ground, and unground bearing assemblies. To choose the exact bearing you need, start with the Nice line of standard inch-dimension, radial, angular contact and thrust ball bearings. Standard series bearings can be customized to include many features that can satisfy the demands of many special applications. They are available with special bores, modified outer ring shapes, extended inner rings, locking devices, and flanged housings. Standards can be ordered sealed, shielded, or open, and are offered in ground and semi-ground grades to deliver the most cost effective solution for your application.

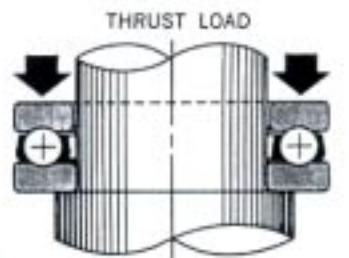
If you are now designing with only ABEC-1 level or higher bearings, chances are there may be a more economical solution to your application. A Nice application engineer can help you determine the exact precision your design requires, and show you how to take advantage of the savings, selection and special features available in our standard series. Even when a standard isn't the answer, our engineers can deliver an economical, modified standard design that is "fit for purpose."

## DESIGN

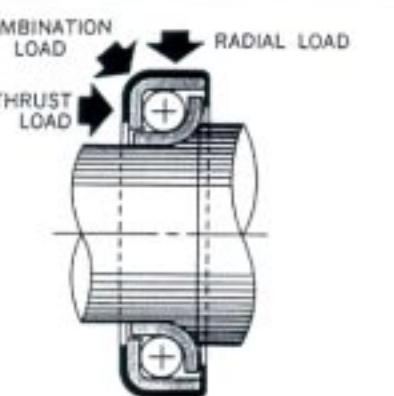
Three basic ball bearing types are illustrated to assist in proper design selection



1. Radial bearings are designed primarily to carry loads perpendicular to the axis of the bearing bore. They will also accommodate limited thrust loading or a combination radial and thrust load.



2. Thrust bearings carry loads applied parallel to the axis of the bearing bore. They are not designed to accommodate radial loads.



3. Combination radial and thrust bearings are designed for simultaneously applied thrust and radial loads. Combination assemblies will also carry pure thrust loading; however, they are not recommended for straight radial loads unless provisions are made to keep the inner rings and outer rings in proper contact with the balls.

Many sizes and types of the three basic designs illustrated are available for selection from this catalog. However, if you have an unusual application problem, NICE field and factory engineers will be glad to give you the benefit of their specialized training and broad practical experience.

## Nice Standard Product Line

Class	Series	Type	Ground Surfaces	Bore Range
Ground	1600	(Retainer) Radial	Raceways Bore, O.D., Faces	3/16"-1 5/16"
	7500	Radial		1/2"-1 1/4"
	7600	Radial Extended Inner		
Semi-Ground	6900	Radial Flanged Extended Inner	Raceways, O.D., Faces	3/8"-1"
	3000	(Retainer) Radial	Outer Raceways, O.D., Faces	3/16"-1"
Unground	400	(Full Complement) Radial		3/16"-2"
	500	Radial/Thrust		1/4"-2 1/4"
	600	Thrust		1/4"-1 1/2"
Modified Standards and Specials	All	Radial Retainer and Full Types Thrust Radial/Thrust	Any Combination	3/16"-2"

# PRODUCT Features

## Modified Standards

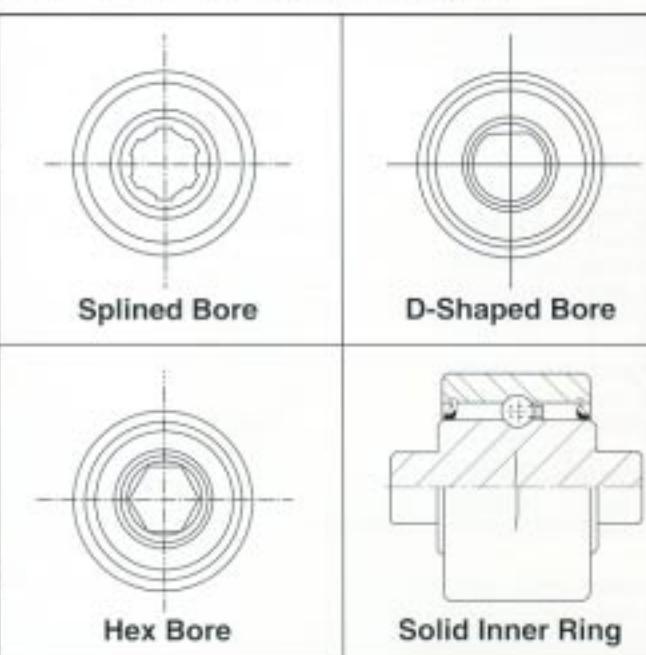
Modified standard bearings feature a standard cage and ball complement or a full ball complement, with custom engineered modifications to the other bearing components. The exact inner and outer ring dimensions and designs can be combined with a wide range of seals, shields, special greases, special materials and special finishes.

Modification instead of full customizing gives the user the benefits of a fully custom bearing with lower costs and faster delivery times. Prototype lots are readily affordable and available for testing and evaluation.

Modified standard bearings offer the greatest value for your bearing dollar by offering custom bearings at standard prices. Here are some of the many ways we can modify standard ball bearings to fit any application.

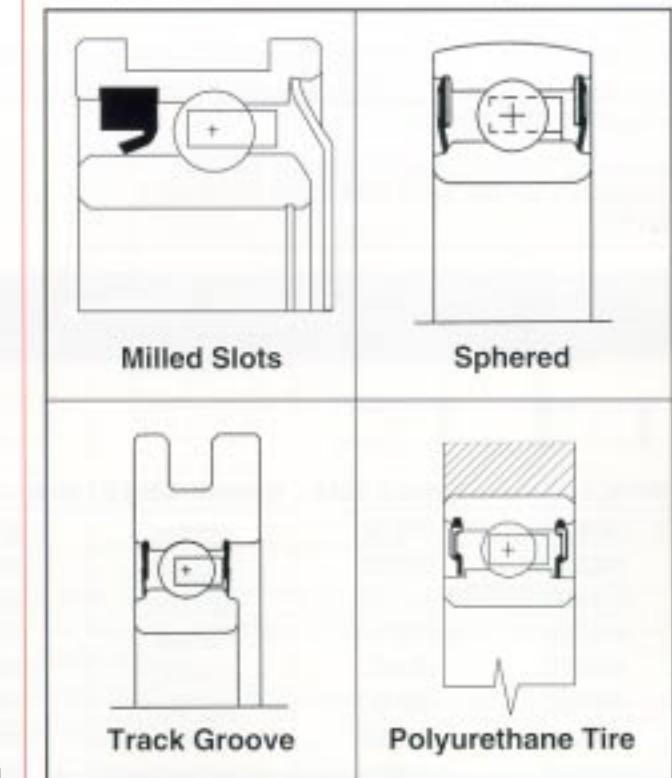
## Inner Rings

A variety of bore shapes and sizes can be custom engineered to simplify mounting procedures, reduce assembly costs, and allow misalignment.



## Outer Rings

Outer rings can be custom engineered to include milled slots, snap rings, track grooves, or even a variety of plastic tires. Add to this flanges or pulley units and a variety of custom solutions are readily available.



## Materials and Finishes

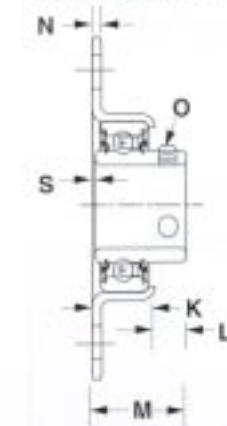
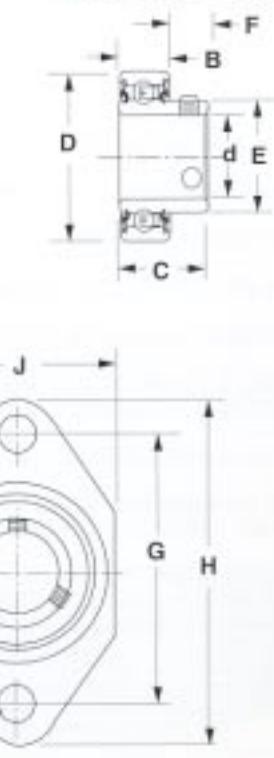
Nice has extensive experience with a variety of special materials and finishes developed to stand up to various contaminants or to take unusually hard wear. Nice bearings are made from steels of various chemical compositions. Carburizing grades are case hardened to desired depths and hardness values for wear and breakdown resistance. High carbon chrome alloy steels are through hardened for high wear and fatigue resistance. Stainless steels are available for corrosion resistance and food service applications. Special platings and finishes such as zinc, black oxide, and thin dense chrome are available for special applications. Nice application engineers can assist in bearing selection for special material applications.





**6900** Series Semi-Ground Radial Bearings, Extended Inner with Flanged Housing

- EASY TO USE INCH DIMENSIONS
- MEDIUM LOADS
- MAX SPEED RANGE - 5000 - 6000 RPM
- THROUGH HARDENED
- RETAINER DESIGN
- NYLON RETAINER STANDARD
- DOUBLE SEALED STANDARD
- EXTENDED INNER RING WITH TWO SET SCREWS
- BEARINGS ARE AVAILABLE WITH OR WITHOUT FLANGE

**6900** Series Semi-Ground Radial Bearings, Extended Inner with Flanged Housing**FLANGED UNIT****BEARING ONLY**

The 6900 series consists of a double sealed, ground bearing with an extended inner ring. It is provided with two set screws and a flanged housing designed for flush mounting. Bearings are supplied assembled in the housing. Flanged and non-flanged units are available from stock.

The pressed steel flanged housing provides a secure yet inexpensive means for holding the bearing in place. Although these units are not of the self-aligning type, they will accommodate a limited amount of angular misalignment.

For less exacting applications involving light loads and speeds up to 2500 rpm, semi-ground type bearings may be specified in lieu of a precision ground bearing at a cost savings. These assemblies are generally produced to order and may or may not be in stock. Contact your Nice sales representative or customer service for more information.

ASSEMBLY NUMBER	PRINCIPAL DIMENSIONS								PRINCIPAL DIMENSIONS								BASIC LOAD RATINGS		WEIGHT W <sup>②</sup> (lb)	
	d (in) <b>Bore</b> +.005/-0.000	D (in) <b>O.D.</b> +.0000/-0.005	B (in) +.0000/-0.005	C (in)	E (in)	F (in)	G (in) Bolt Centers	H (in)	J (in) Overall Width	K (in)	L (in)	M (in)	N (in)	O (in) 2-Set Screws	P (in) Hole Dia.	S (in)	DYNAMIC C (lb)	STATIC C <sub>o</sub> (lb)		
FLANGED UNIT	BEARING ONLY																			
6906	6906 - B	0.375	0.9063	0.3125	0.6875	0.555	0.375	1.875	2.500	1.125	0.3438	0.3438	0.6875	0.035	8-32	0.3125	0	580	300	0.07
6908	6908 - B	0.500	1.6250	0.5000	1.0000	0.995	0.500	2.875	3.750	1.875	0.6875	0.4375	1.0000	0.062	1/4-28	0.4375	0.01	1610	1000	0.35
6910	6910 - B	0.625	1.6250	0.5000	1.0000	0.995	0.500	2.875	3.750	1.875	0.6875	0.4375	1.0000	0.062	1/4-28	0.4375	0.01	1610	1000	0.32
6912 ①	6912 - B ①	0.750	2.0000	0.5625	1.0625	1.293	0.500	3.250	4.125	2.250	0.6875	0.4375	1.1250	0.062	1/4-28	0.4375	0.062	1870	1350	0.55
6916 ①	6916 - B ①	1.000	2.0000	0.5625	1.0625	1.293	0.500	3.250	4.125	2.250	0.6875	0.4375	1.1250	0.062	10-32	0.4375	0.062	1870	1350	0.33

① O.D. Tolerance for 6912 and larger is +.0000/-0.0006

② Weights given are for flanged versions

## 7500 Series Heavy Duty Precision Ground Radial Bearings

- PRECISION GROUND ON ALL CONTACT SURFACES, SIMILAR TO THE 1600 SERIES
- EASY TO USE INCH DIMENSIONS
- MEDIUM LOADS
- MAX SPEED RANGE - 5000 - 6000 RPM
- THROUGH HARDENED BEARING STEEL
- RETAINER DESIGN
- NYLON RETAINER STANDARD
- DOUBLE SEALED STANDARD
- HIGHLY EFFECTIVE SINGLE LIP CONTACT SEAL WITH TRASH GUARD
- AVAILABLE SINGLE SEALED OR OPEN
- ALL BEARINGS HAVE A SNAP RING GROOVE (SNAP RING ASSEMBLED AS AN OPTION)
- RECOMMENDED FOR APPLICATIONS WHERE ACCURATE, QUIET PERFORMANCE AND SUPERIOR SEALING ARE REQUIRED

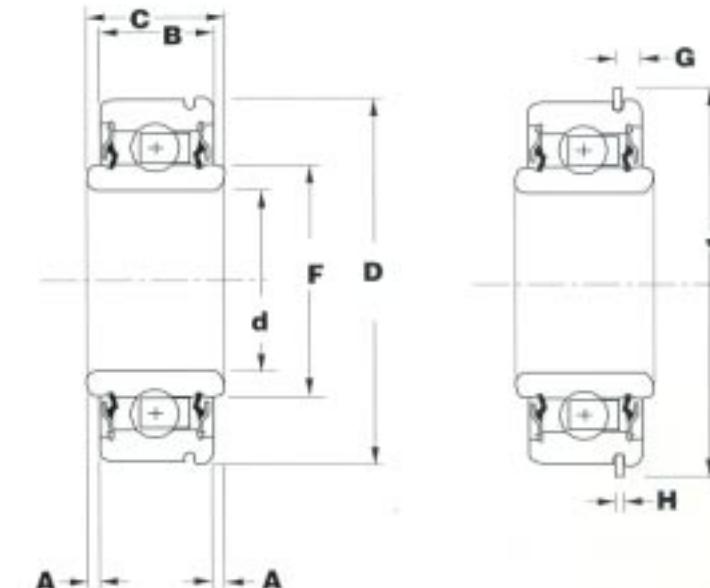


## 7500 Series Heavy Duty Precision Ground Radial Bearings

The Nice 7500 series bearings are single row retainer type radial bearings, similar in construction to the 1600 series. They incorporate a highly effective single lip contact seal, with metal guard. The inner and outer rings are turned from chrome steel and after careful heat treatment the through hardened rings are accurately ground to close tolerances.

The 7500 series bearings are recommended for applications requiring the accuracy of rotation and quiet performance of close tolerance precision grade bearings, and where a superior seal is required to retain lubricant and keep the bearing free from dust and dirt.

Normally double sealed (type DL), the 7500 series bearings can be produced to order with seals on one side only (type SL) or without seals (type NL). Double sealed bearings are grease packed as standard; however, all types can be furnished with or without grease packing as desired. All types are provided with a snap ring groove, with the snap ring assembled on the bearing as an option.



BASIC BEARING NUMBER	PRINCIPAL DIMENSIONS						PRINCIPAL DIMENSIONS					WEIGHT W ③ (lb)	BASIC LOAD RATINGS		ABUTMENT AND FILLET DIMENSIONS		
	BORE d (in) +.0000/-0.0005	O.D. D (in) +.0000/-0.0005	OUTER WIDTH B (in) +.000/-0.005	A (in)	INNER WIDTH C (in) +.000/-0.005	F (in)	G (in) +.000 -.005	H (in)	J (in)	R ② (in) Radius	DYNAMIC C (lb)	STATIC C <sub>o</sub> (lb)	d <sub>a</sub> min (in)	d <sub>a</sub> max (in)	r <sub>max</sub> (in)		
7508	0.500	1.7500	0.625	0.0625	0.750	1.009	0.136	0.042	1.9219	0.035	0.330	2595	1010	0.750	1.500	0.035	
7510	0.625	1.7500	0.625	0.0625	0.750	1.009	0.136	0.042	1.9219	0.035	0.290	2595	1010	0.875	1.500	0.035	
7512	0.750	1.7500	0.625	0.0625	0.750	1.009	0.136	0.042	1.9219	0.035	0.310	2595	1010	1.000	1.500	0.035	
7514 ①	0.875	2.0000	0.625	0.0625	0.750	1.306	0.136	0.042	2.1563	0.035	0.360	2970	1350	1.125	1.750	0.035	
7516 ①	1.000	2.0000	0.625	0.0625	0.750	1.306	0.136	0.042	2.1563	0.035	0.330	2970	1350	1.250	1.750	0.035	
7518 ①	1.125	2.5625	0.750	0.0625	0.875	1.672	0.190	0.065	2.7656	0.035	0.795	5360	2620	1.375	2.312	0.035	
7520 ①	1.250	2.5625	0.750	0.0625	0.875	1.672	0.190	0.065	2.7656	0.035	0.565	5360	2620	1.500	2.312	0.035	

① O.D.Tolerance for 7514 and larger is +.0000/-0.0006

② Radius R indicates the maximum fillet radius in housing or shaft which bearing will clear

③ Weights given are for greased and sealed versions

## 7600 Series Heavy Duty Precision Ground Radial Bearings with Extended Inner Ring

- PRECISION GROUND ON ALL CONTACT SURFACES, SIMILAR TO THE 1600 SERIES
- EASY TO USE INCH DIMENSIONS
- MEDIUM LOADS
- MAX SPEED RANGE - 5000 - 6000 RPM
- THROUGH HARDENED
- CAGED DESIGN
- NYLON CAGE STANDARD
- DOUBLE SEALED STANDARD
- HIGHLY EFFICIENT SINGLE LIP CONTACT SEAL
- AVAILABLE SINGLE SEALED OR OPEN
- EXTENDED INNER RING WITH SET SCREWS
- ALL BEARINGS HAVE A SNAP RING GROOVE, SNAP RING ASSEMBLED AS AN OPTION
- RECOMMENDED FOR APPLICATIONS WHERE ACCURATE, QUIET PERFORMANCE AND SUPERIOR SEALING ARE REQUIRED

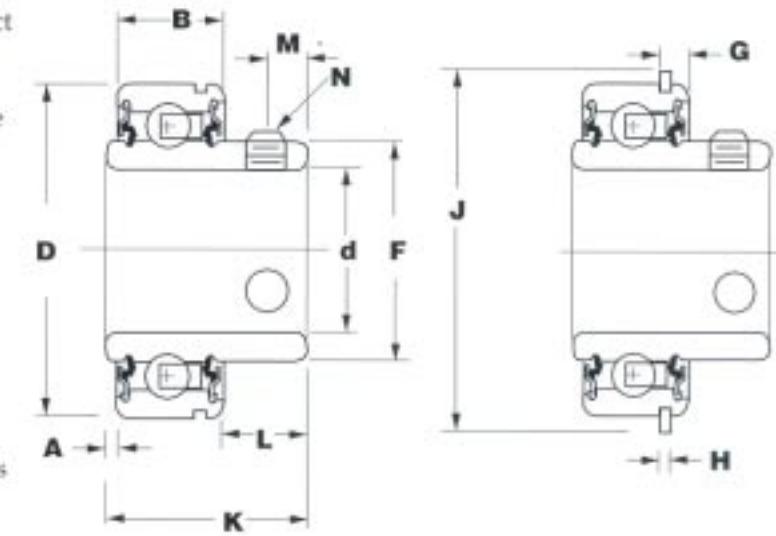


## 7600 Series Heavy Duty Precision Ground Radial Bearings with Extended Inner Ring

The Nice 7600 series bearings are single row retainer type radial bearings similar in construction to the 1600 series. They incorporate a highly efficient single lip contact seal with metal guard. The inner and outer rings are turned from chrome steel and after careful heat treatment the through hardened rings are accurately ground to close tolerances. The inner ring is extended and contains set screws whereas the 7500 series bearing does not.

The 7600 series bearings are recommended for applications requiring the accuracy of rotation and quiet performance of close limit precision grade bearings, and where a superior seal is required to retain lubricant and keep the bearing free from dust and dirt.

Normally double sealed (type DL), the 7600 series bearings can be produced to order with seals on one side only (type SL) or without seals (type NL). Double sealed bearings are grease packed as standard; however, all types can be furnished with or without grease packing as desired. All types are provided with a snap ring groove, with the snap ring assembled on the bearing as an option.



BASIC BEARING NUMBER	PRINCIPAL DIMENSIONS							PRINCIPAL DIMENSIONS							BASIC LOAD RATINGS		WEIGHT W <sup>③</sup> (lb)
	BORE d (in) +.0008/-0.0000	O.D. D (in) +.0000/-0.0005	OUTER WIDTH B (in) +.000/-0.005	A (in)	F (in)	G (in) +.005/-0.005	H (in)	J (in)	INNER WIDTH K (in) +.000/-0.005	L (in)	M (in)	N (in)	R <sup>②</sup> (in) 2 set screws	Radius	DYNAMIC C (lb)	STATIC C <sub>o</sub> (lb)	
7608	.5000	1.7500	0.625	0.0625	1.009	0.136	0.042	1.9219	1.092	0.405	0.233	10-32	0.035	2595	1010	0.36	
7609	.5625	1.7500	0.625	0.0625	1.009	0.136	0.042	1.9219	1.092	0.405	0.233	10-32	0.035	2595	1010	0.34	
7610	.6250	1.7500	0.625	0.0625	1.009	0.136	0.042	1.9219	1.092	0.405	0.233	10-32	0.035	2595	1010	0.32	
7611	.6875	1.7500	0.625	0.0625	1.009	0.136	0.042	1.9219	1.092	0.405	0.233	10-32	0.035	2595	1010	0.30	
7612	.7500	1.7500	0.625	0.0625	1.009	0.136	0.042	1.9219	1.092	0.405	0.233	10-32	0.035	2595	1010	0.28	
7613 ①	.8125	2.0000	0.625	0.0625	1.306	0.136	0.042	2.1563	1.179	0.492	0.261	1/4-28	0.035	2970	1350	0.45	
7614 ①	.8750	2.0000	0.625	0.0625	1.306	0.136	0.042	2.1563	1.179	0.492	0.261	1/4-28	0.035	2970	1350	0.43	
7615 ①	.9375	2.0000	0.625	0.0625	1.306	0.136	0.042	2.1563	1.179	0.492	0.261	1/4-28	0.035	2970	1350	0.40	
7616 ①	1.0000	2.0000	0.625	0.0625	1.306	0.136	0.042	2.1563	1.179	0.492	0.261	10-32	0.035	2970	1350	0.36	
7617 ①	1.0625	2.5625	0.750	0.0625	1.672	0.190	0.065	2.7656	1.417	0.605	0.261	1/4-28	0.035	5360	2620	0.84	
7618 ①	1.1250	2.5625	0.750	0.0625	1.672	0.190	0.065	2.7656	1.417	0.605	0.261	1/4-28	0.035	5360	2620	0.80	
7620 ①	1.2500	2.5625	0.750	0.0625	1.672	0.190	0.065	2.7656	1.417	0.605	0.261	1/4-28	0.035	5360	2620	0.71	

① O.D. Tolerance for 7613 and larger is +.0000/-0.0006

② Radius R indicates the maximum fillet radius in housing or shaft which bearing will clear

③ Weights given are for greased and sealed versions







## 600 Series Unground Thrust Bearings

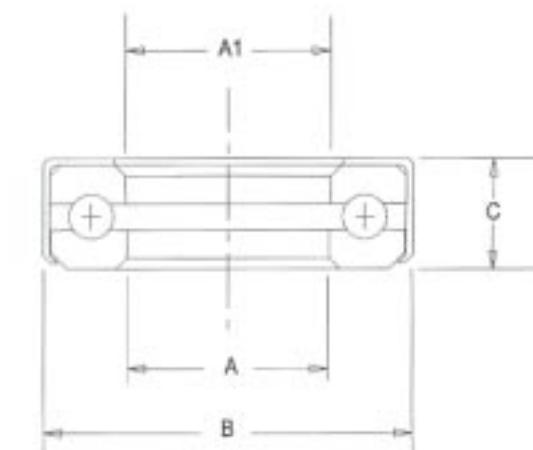
- UNGROUND THRUST BEARING
- EASY TO USE INCH DIMENSIONS
- MODERATE LOADS
- MAX SPEED RANGE - 1000 - 1200 RPM
- HARDENED RINGS
- FULL COMPLEMENT OF BALLS
- SOFT STEEL BAND OFFERS EASE OF INSTALLATION
- UPPER RING IS FREE TO ROTATE AND HAS CLOSE FIT FOR SHAFTS
- LOWER RING IS FIXED AND HAS SHAFT CLEARANCE IN THE BORE



## 600 Series Unground Thrust Bearings

The Nice 600 series is designed for moderate speeds and medium thrust loads. These bearings utilize a full ball complement. Rings are cold forged from hardenable strip steel and are carefully heat treated. These bearings may be plated or manufactured from stainless steel upon request.

The entire assembly is housed in a soft steel band which lends itself to an easy press fit into a housing. The band also serves as a dust shield and helps retain the bearing lubricant. The upper ring is free to rotate in the band and has a close fit in the bore for the shaft. The lower ring is fixed in the band and has a shaft clearance in the bore.



BASIC BEARING NUMBER	BEARING DIMENSIONAL DATA							THRUST CAPACITY (LBS)					
	BORE A (in) +.000/- .010	BORE A1 (in) +/-.010	O.D. B (in) Max. ±.010	HEIGHT C (in) +/- .010	BALLS		WEIGHT W (lbs)	REVOLUTIONS PER MINUTE					
					No.	Size		10	50	100	250	500	1000
601-V	.250	.275	.27/32	.333	10	5/32	0.03	304	246	182	98	71	51
602-V	.375	.400	1 3/64	.359	14	5/32	0.06	426	344	254	138	100	71
602 3/4-V	.453	.478	.55/64	.281	15	1/8	0.03	292	236	174	94	68	48
603-V	.500	.525	1 17/64	.437	10	1/4	0.09	780	630	465	252	182	129
603 1/4-V	.500	.525	1	.344	12	3/16	0.04	526	425	314	170	123	87
605-V	.625	.656	1 1/8	.344	16	5/32	0.04	858	693	511	277	200	143
606-V	.625	.656	1 27/64	.453	12	1/4	0.12	936	750	558	302	218	155
607-V	.750	.775	1 21/32	.545	15	1/4	0.19	1170	945	696	378	273	194
608-V	.875	.900	1 57/64	.594	17	1/4	0.28	1326	1071	791	428	309	220
609-V	1.000	1.075	2	.630	12	3/8	0.30	1706	1378	1017	551	398	284
610-V	1.000	1.031	1 31/32	.625	18	1/4	0.29	1404	1134	837	454	328	233
610-1/4V	1.016	1.031	1 3/4	.625	16	1/4	0.21	1248	1008	744	403	291	207
611-V	1.063	1.094	1 31/32	.625	18	1/4	0.26	1404	1134	837	454	328	233
613-V	1.125	1.150	2 3/32	.625	19	1/4	0.31	1482	1197	883	479	346	246
616-V	1.250	1.275	2 11/32	.625	23	1/4	0.40	1794	1449	1069	579	419	298
619-V	1.437	1.462	2 15/32	.625	23	1/4	0.43	1794	1449	1069	579	419	298
621-V	1.500	1.525	2 19/32	.625	25	1/4	0.45	1950	1575	1162	630	455	324

## NOTES

BALLS - Carbon Steel Grade 200

RINGS - Carbon Steel, Case Hardened

BANDS - 1010 Carbon Steel, Soft

Bearings supplied prelubricated with grease

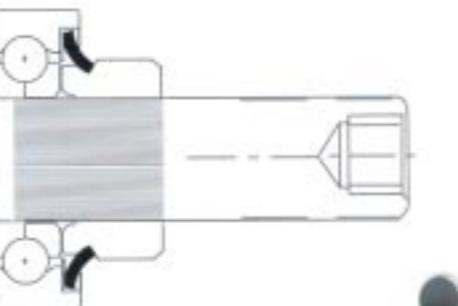
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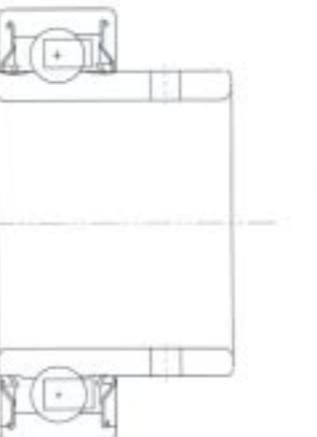


**AGRICULTURE:** Applications

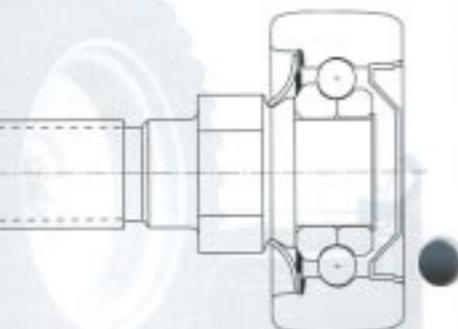
The Nice 7227-4V stud mounted cam follower bearing is utilized in hay tine rake applications. It employs specially designed heavy duty seals to withstand the harsh working environment. It features an internal hex socket for ease of installation.



The Nice 8212-1TN radial ball bearing features special land riding seals and an extended inner ring. It is dimensionally unique and is used in hay baler rakes to support the tine bar shafts. It is designed to withstand the harsh environment and heavy loads that it encounters.



The 8403-1V is another radial ball bearing cam follower. It is used to guide hay rake tine bars on agricultural equipment. It features a spherical O.D. to accommodate any angular misalignment. It has two seals on one side and a fully enclosed dust shield on the other to keep dirt and hay debris out of the bearing.



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**SPECIALS** and Applications**PUMPS AND METERS**

The 7473-J1 radial bearing features all stainless steel construction including the ball retainer. This precision ground bearing is used in a gas meter pump where it is immersed in gasoline. It therefore is not lubricated. This application requires a high degree of corrosion resistance, accuracy, and reliability.

**CANNING AND BOTTLING MACHINERY**

The 8317-TN is a fully ground radial ball bearing featuring a molded urethane tire on the O.D. of the bearing. It is used in a bottle making machine to guide the bottles. The soft urethane tire minimizes handling damage due to contact with the bearing.

**WOODWORKING MACHINERY**

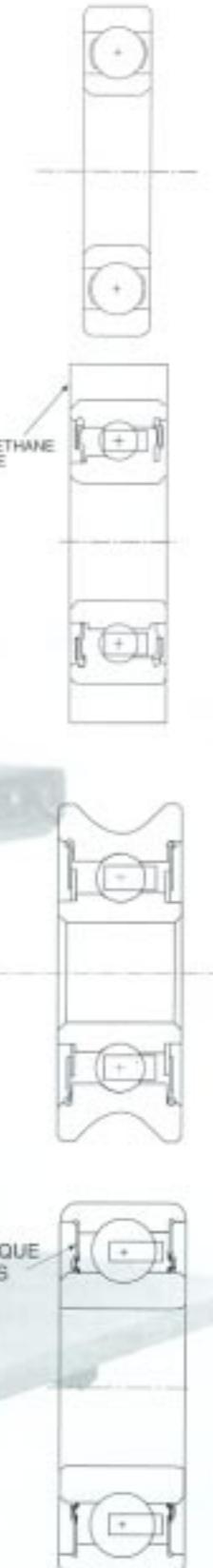
The Nice 8224-TN is a fully ground radial ball bearing featuring a track wheel configuration on the O.D. of the bearing. In addition, there is a four-point contact in the ball grooves to minimize the radial and axial play. This bearing is used to guide a radial arm saw along a linear track. Accuracy and repeatability are paramount in this application.

**COMMERCIAL MOWERS**

The Nice 7488-8 TNN RLD radial ball bearing is unique due to its ground inch dimension bore and the ground metric O.D. It is used in a variety of applications including lawn mower decks and conveyors. It features low torque seals for easier start up and a special radial play range for pre-loading. The seals also have an outboard dust shield for protection from debris.

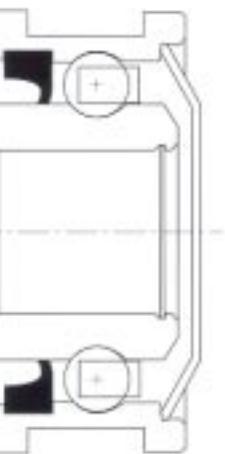


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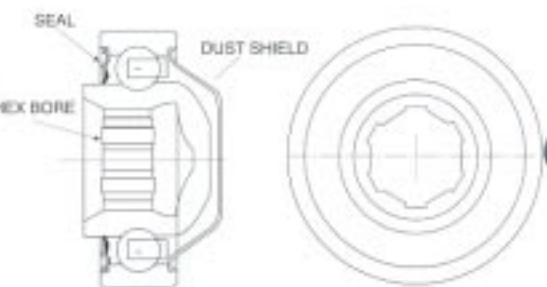


**MATERIAL** Handling

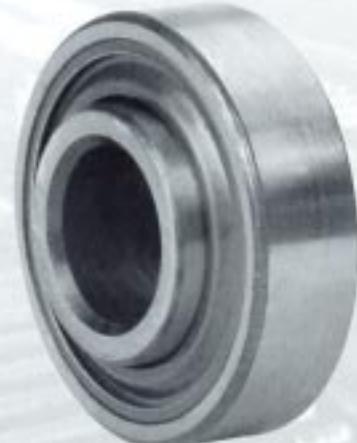
The CONV3Y4-TN is a fully ground conveyor bearing for higher load ratings and ease of installation. It is used in material handling applications. It features a milled slot on the O.D. for ease of installation as well as a heavy-duty seal for protection from coal dust, dirt, etc. The fully enclosed dust shield, in addition to the solid washer in the bore, effectively eliminates lubricant leakage thus allowing for a "sealed-for-life" bearing.



The CB504-TN heavy duty radial ball bearing is designed for long and dependable life in idler roller applications for bulk handling belt conveyors. The specially designed hexagonal bore accepts hexagonal shaped stub shafts in a ball and socket arrangement. This allows for a wide range of conveyor trough angles.



The Nice 7868-5TN radial ball bearing features special low torque load riding seals. The seals also have an outboard dust shield for protection from debris. One application for this design is an idler sprocket in chain drives. It has an inch dimension unground bore to facilitate mounting on standard fasteners. The bearing internal geometry and outer ring O.D. are ground to precision tolerances for smoother operation. It also features an extended inner ring on both sides to accommodate mounting clearances.

**STEERING** Column and Strut Bearings

The Nice NB543-1DCTN radial bearing is a fully ground double sealed thin section bearing. It is used in the headset of high-end bicycles. Because of shock loads, severe environmental conditions and the necessity of smooth feel for the rider, this bearing requires a high degree of accuracy and reliability. Unique metal backed nitrile seals are utilized to retain a special water-resistant grease for a "greased-for-life" bearing.



The 8493-V is a thrust ball bearing in which one of the rings is partially encapsulated in plastic. It is used in front strut mount applications of front wheel drive automobiles. It has the advantage of combining low mounting height, low weight, and reduced operational noise.



The Nice 8408-1V is a full complement, angular contact ball bearing used in steering column applications. It incorporates precise yet economical solid races, and features a ground O.D. for close-tolerance housing fits.



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