

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
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- ITAR-certified secure asset solutions

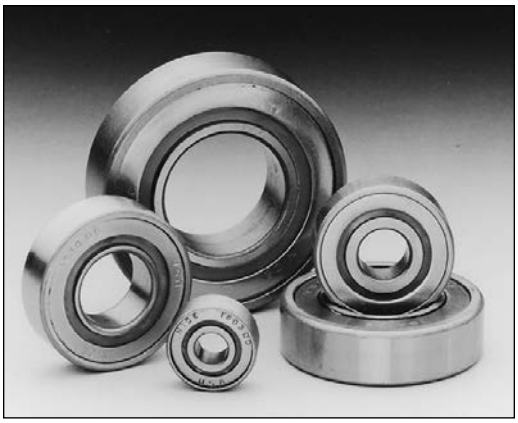
Expert team | Trust guarantee | 100% satisfaction

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Nice® 1600 Series® Bearings

Radial Ball Bearings; Ground, Single Row



HIGH QUALITY INCH DIMENSIONAL BEARINGS for adaptation to many precision bearing applications. Suitable for speeds in the neighborhood of 5000 R.P.M.

IMPROVED BALL GROOVE FINISH for smoother, quieter operation.

GROUND BORES held to a tolerance of + .0000" to –.0005" on all sizes, 1/4" bore and over.

NYLON BALL RETAINERS (TN) furnished as standard. Steel retainers (J) available on special production order.

GREASE PACKED as standard on Types DC and DS. Types SC, SS and NS can be grease packed on special order.

NYLON SEALS more effectively retain lubricant and exclude foreign matter.

SPECIAL FEATURES including dimensions, tolerances, etc. available on special order.

ORDER BY CATALOG NUMBER OR ITEM CODE

Bore	Double Shield		Double Sealed	
	Catalog Number	Item Code	Catalog Number	Item Code
.2500	1602DS	50724	1602DC	50701
.3125	1603DS	50725	1603DC	50702
.3750	1604DS	50726	1604DC	50703
.3125	1605DS	50727	1605DC	50704
.3750	1606DS	50728	1606DC	50705
.4375	1607DS	50729	1607DC	50706
.3750	1614DS	50730	1614DC	50707
.4375	1615DS	50731	1615DC	50708
.5000	1616DS	50732	1616DC	50709
.4375	1620DS	50733	—	—
.5000	1621DS	50734	1621DC	50710
.6250	1623DS	50736	1623DC	50712
.6250	1628DS	50737	1628DC	50713
.7500	1630DS	50738	1630DC	50714
.6250	1633DS	50739	1633DC	50715
.7500	1635DS	50740	1635DC	50716
.7500	1638DS	50741	1638DC	50717
.8750	1640DS	50742	1640DC	50718
1.0000	1641DS	50743	1641DC	50719
1.1250	1652DS	50744	1652DC	50720
1.2500	1654DS	50745	1654DC	50721
1.2500	1657DS	50746	1657DC	50722

NOTE: Dimensions and load data on next page.

Seal and Shield Arrangements

TYPES SC, SS and NS are available via special order only

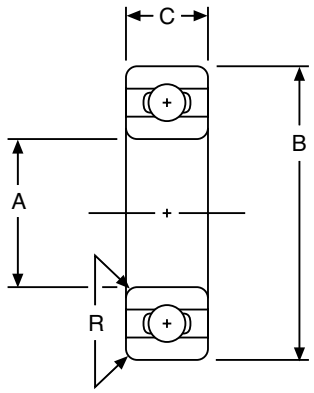
DOUBLE SEALED	DOUBLE SHIELD	SINGLE SEAL	SINGLE SHIELD	NO SHIELDS
DC	DS	SC	SS	NS

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Anti-Friction Bearings

Nice® 1600 Series® Bearings

Radial Ball Bearings; Ground, Single Row



STANDARD TOLERANCES

DIMENSIONS		TOLERANCE
A	2500–1.2500	+.0000 to – .0005
B	.6875–1.7500 2.0000–2.5625	+.0000 to – .0005 +.0000 to – .0006
C	All	+.000 to – .005

For recommended shaft and housing fits, see engineering section, page 238.

ALL DIMENSIONS IN INCHES

Basic Bearing No.	A	B	C	R	Balls	
				Radius	No.	Dia.
1602	.2500	.6875	1/4+	.012	6	1/8
1603 1604	.3125 .3750	.8750	9/32++	.012 .015	7	5/32
1605 1606 1607	.3125 .3750 .4375	.9063	5/16	.012 .015 .015	9	1/8
1614 1615 1616	.3750 .4375 .5000	1.1250	3/8	.025	7	3/16
1620 1621® 1623	.4375 .5000 .6250	1.3750	7/16	.025	8	15/64
1628 1630®	.6250 .7500	1.6250	1/2	.025	8	1/4
1633 1635®	.6250 .7500	1.7500	1/2	.025	8	1/4
1638 1640 1641®	.7500 .8750 1.0000	2.0000	9/16	.035	10	1/4
1652 1654	1.1250 1.2500	2.5000	5/8	.035	10	5/16
1657	1.2500	2.5625	11/16	.035	9	3/8

*Maximum fillet on shaft or in housing which bearing corner will clear.
+ Width SC & DC = 5/16”
++ Width SC & DC = 11/32”

Load Data

The indicated load ratings are based on 2500 hours average life. (L_{50}) to determine the load ratings at 3500 and 5000 hours, 90 percent and 80 percent respectively, of the above ratings should be used.

Basic Bearing Number	Radial Capacity (Lbs.) Revolutions Per Minute								Limiting Thrust (Lbs.)
	50	100	300	500	1200	1800	2500	5000	
1602	230	185	130	110	80	70	65	50	42
1603 1604	380	300	210	175	130	115	105	80	75
1605 1606 1607	305	245	170	140	105	95	85	65	65
1614 1615 1616	530	420	290	245	185	160	145	115	110
1620 1621® 1623	860	690	475	400	300	260	235	185	200
1628 1630® 1633 1635®	980	780	540	460	340	300	265	210	225
1638 1640 1641®	1140	905	630	530	395	345	310	245	280
1652 1654	1695	1345	935	790	590	515	460	365	440
1657	2200	1750	1215	1025	765	665	600	475	570

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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