

# Cylindrical Roller Bearings

## Custom “R” Series

In addition to the standard and special cylindrical roller bearings described in previous pages of this catalog, NTN-Bower also manufactures a customized line of precision non-standard cylindrical roller bearings. This line of bearings was custom designed and manufactured to a customer requirement, or was recommended by NTN-Bower to improve the performance of an existing application.

Listed below and on the following page is a part number listing and contains the basic bearing dimensions, and radial and static load ratings.

Since this product line is of a customized nature and contains many different bearing configurations, cage styles, etc., contact NTN Sales for additional information and part number availability.

Typical applications for this product line include:

- Automotive Rear Wheels
- Automotive and Truck Pinion Pilot
- Industrial Clutch Pilot Support
- Steel Mill Ingot Car Wheels
- Steel Mill Conveyor Wheels

Roller Assembly Number	Basic Bearing Dimensions			Roller Assembly & Ring Number	Basic Bearing Dimensions			Radial Load Ratings	
	Inside Diameter	Outside Diameter	Width		Inside Diameter	Outside Diameter	Width	Dynamic	Static
	Inch/mm				Inch/mm			lbs/N	
R-1500-EL	—	—	—	R-1500-EL	1.5800 40.132	2.4062 61.117	0.7500 19.050	10000 44500	12600 56000
RA-1502-EL	1.5308 38.882	2.7818 70.658	1.3440 34.138	R-1502-EL	1.8722 47.681	2.7818 70.658	0.8750 22.225	122000 54000	15800 705000
R-1506-EL	—	—	—	R-1506-EL	1.8287 46.449	3.1250 79.375	0.7480 19.000	11500 51500	11300 50000
R-1518-EL	—	—	—	R-1518-EL	0.8109 20.597	1.6535 41.999	0.5118 13.000	4250 18800	3400 15100
RR-1522-EHL	3.9370 100.000	8.4646 215.001	2.0472 51.999	R-1522-EHL	5.1323 130.360	8.4646 215.001	2.0472 51.999	87000 385000	108000 480000
RU-1523-V	—	—	—	RU-1523-V	7.8740 200.000	11.0487 280.637	2.0079 51.001	123000 550000	206000 915000
RUB-1523-DV	8.2500 209.550	12.2047 310.000	2.0079 51.001	RUB-1523-V	8.2500 209.550	11.0487 280.637	2.0079 51.001		
RA-1530-EL	3.1496 80.000	6.6929 170.000	1.7500 44.450	R-1530-EL	4.0041 101.704	6.6929 170.000	1.7500 44.450	64000 285000	77000 345000
R-1535-TAV	—	—	—	R-1535-TAV	1.1092 28.174	1.8505 47.000	0.6560 16.662	6450 28700	6550 29100
RU-1540-CAL	3.9370 100.000	7.0894 180.071	1.4567 37.000	RU-1540-L	3.9370 100.000	6.3436 161.127	1.4567 37.000	54500 243000	71000 315000
RU-1545-SAHL	2.3622 59.995	5.1204 130.058	1.3125 33.338	RU-1545-L	2.3622 60.000	4.4264 112.431	1.3125 33.338	37500 167000	43000 192000
RU-1547-CAHL	3.5433 90.000	7.4833 190.076	1.8504 47.000	RU-1547-L	3.5433 90.000	6.5088 165.324	1.8504 47.000	72500 325000	86500 385000
RU-1547-DHEL	3.5433 90.000	7.4833 190.076	1.8504 47.000	RU-1547-L	3.5433 90.000	6.5088 165.324	1.8504 47.000	72500 325000	86500 385000
RU-1549-L	—	—	—	RU-1549-L	1.1806 29.987	2.4397 61.968	0.6299 16.000	9050 40500	8850 39500
RU-1557-J	—	—	—	RU-1557-J	1.1806 29.987	2.4397 61.968	0.7500 19.050	12400 55000	12200 54000

## “R” Series Dimensions and Load Ratings

Roller Assembly Number	Basic Bearing Dimensions			Roller Assembly & Ring Number	Basic Bearing Dimensions			Radial Load Ratings	
	Inside Diameter	Outside Diameter	Width		Inside Diameter	Outside Diameter	Width	Dynamic	Static
	Inch/mm				Inch/mm			lbs/N	
R-1558-TAV	—	—	—	R-1558-TAV	0.7515 19.088	1.2508 31.770	0.6050 15.367	3850 17100	3900 17200
R-1559-TAV	—	—	—	R-1559-TAV	1.6201 41.151	2.5312 64.292	0.8300 21.082	12700 56500	14800 65500
RA-1562-EBL	1.1807 29.990	2.8356 72.024	1.1875 30.163	—	—	—	11100 49500	10800 48000	
R-1563-TKV	—	—	—	R-1563-TKV	1.4008 35.580	2.2500 57.150	0.7000 17.780	8600 38500	9300 41500
RA-1567-EBL	1.3775 34.989	3.1506 80.025	1.3750 34.925	—	—	—	14000 62000	14300 63500	
RU-1570-UM	1.3776 34.991	2.8346 71.999	0.8130 20.650	—	—	—	14800 66000	16200 72000	
RU-1570-UBM	1.3776 34.991	2.8646 72.761	0.8130 20.650	—	—	—	14800 66000	16200 72000	
RUB-1570-UM	1.1811 30.000	2.8346 71.999	0.8130 20.650	—	—	—	14800 66000	16200 72000	
RA-1572-EBL	1.7712 44.988	3.9384 100.035	1.5625 39.688	—	—	—	21800 97000	23600 105000	
RSB-1578-EF	1.3780 35.001	2.5590 64.999	1.3700 34.798	—	—	—	8900 39500	9400 42000	
RSB-1579-EF	1.5630 39.700	2.8760 73.050	1.3180 33.477	—	—	—	11200 50000	11700 52000	
RSB-1579-EBF	1.5630 39.700	3.1493 79.992	1.3810 35.077	—	—	—	11200 50000	11700 52000	
RSD-1579-EF	1.5630 39.700	2.8760 73.050	1.3810 33.477	—	—	—	11200 50000	11700 52000	
RUB-1580-EBF	1.6248 41.275	3.1496 80.000	1.0830 27.508	—	—	—	10100 45000	9350 41500	
R-1581-TV	1.2639 32.103	2.0472 51.999	0.7650 19.431	R-1581-TV	—	—	—	9300 41500	9950 44500
RSD-1584-EV	1.7717 45.001	3.1496 80.000	1.5294 38.847	—	—	—	14100 63000	15800 70000	
R-1722-TV	—	—	—	R-1722-TV	1.4026 35.626	2.2500 57.150	0.7000 17.780	8600 38500	9300 41500
RS-1930-EJ	5.9055 150.000	8.2677 210.000	1.1024 28.000	R-1930-EJ	5.9055 150.000	8.2677 210.000	1.1024 28.000	36500 163000	56500 251000
TW-2319	3.5635 90.513	10.0100 254.254	4.0100 101.854	—	—	—	—	—	
TW-5216	2.7510 69.875	7.0100 178.054	3.1350 79.629	—	—	—	52500 235000	77500 345000	
TWB-5217	3.2508 82.570	7.0100 178.054	3.1350 76.629	—	—	—	55000 244000	78500 350000	
TW-5218	3.5010 88.925	7.0100 178.054	3.4375 84.313	—	—	—	—	—	
RS-5305-W	1.2506 31.765	2.4419 62.024	1.0620 26.925	RS-5305-W	—	—	—	14900 66500	14900 66500
RBS-5305-W	0.9843 25.001	2.4419 62.024	1.0620 26.975	RBS-5305-W	—	—	—	14900 66500	14900 66500

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	Inside Diameter	Outside Diameter	Width		Inside Diameter	Outside Diameter	Width	Dynamic	Static
	Inch/mm				Inch/mm			lbs/N	
TW-5309	1.7510 44.475	5.0100 127.254	2.8220 71.679	—	—	—	—	33500 148000	40500 181000
R-6208-TM	1.5008 38.120	2.4409 61.999	1.4700 37.338	R-6208-TM	—	—	—	15100 67000	21200 94500
RU-8509-TM	1.7500 44.450	3.3465 85.001	1.1250 28.575	RU-8509-TM	—	—	—	14600 65000	17000 76000
RU-9008UM	1.5748 39.400	3.5433 89.000	0.9843 25.001	RU-9008UM	—	—	—	23000 102000	23500 104000
RU-9008UBM	1.5748 39.400	3.6224 92.009	0.9843 25.001	RU-9008UBM	—	—	—	23000 102000	23500 104000
R-10012-GEXR	2.3030 58.496	3.3970 86.284	0.9843 25.001	R-10012-GEXR	—	—	—	22200 98500	23800 106000
R-16828-EX	—	—	—	R-16828-EX	5.5020 139.751	6.6250 168.275	1.0630 27.000	29300 131000	56500 252000
RAB-61539-EV	3.6120 91.745	6.6941 170.030	1.6562 42.067	R-61539-EV	4.3190 109.703	6.6941 170.030	1.5354 38.999	58500 260000	71500 320000
RU-61565-DV	7.0010 177.825	11.3750 288.925	2.8125 71.438	RU-61565-V	7.0010 177.825	10.4614 265.720	2.8125 71.438	163000 725000	255000 1140000
RU-61568-DV	8.2510 209.575	12.5000 317.500	2.8125 71.438	RU-61568-V	8.2510 209.575	11.6184 295.107	2.8125 71.438	172000 765000	284000 1260000