

Product Reference Guide



INA USA CORPORATION



THRUST BEARINGS

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This product section has been excerpted from our full Product Reference Guide to reduce download time. Our complete Product Reference Guide is available in print and on CD-ROM. To receive the full version, please contact your nearest INA Sales Office listed on the last page of this file.



FOREWORD

This publication was designed to serve as a quick reference to the standard product series offered by INA USA Corporation (INA) for its domestic market. The guide provides a current overview of INA products, including basic envelope dimensions and capacities, in one publication – it is not an engineering design guide intended to replace INA engineering catalogs. Consequently, the metric and inch conversions are listed to 3 decimal places for easy reference and rapid identification of correct replacement part(s), not 4 decimal places as necessary for quality control purposes.

This publication can be used to narrow the choices between the many different INA product lines and series for new designs. Detailed engineering information for new designs can be found in our traditional catalogs or by contacting the INA Engineering Department.

A significant portion of INA sales are special production sizes. The identification of those parts is sometimes difficult since a comprehensive listing is beyond the intent of this publication. Special part numbers take as many different forms as the series listed here, but the basic system is to use sequential numbers for each new design. Usually the prefix is F or FC but can include VH, INA or the bearing type such as NA. INA maintains a technical help desk to identify sizes not known or to match competitors' parts.

The toll free 800 numbers listed will give you access to INA Customer Service representatives. These representatives can tap into INA Worldwide resources to provide the bearings you need.

Storage Life

Lubricants age naturally due to environmental influences. It is therefore the user's responsibility to follow the directions given by the lubricant manufacturer.

The greases used in INA rolling bearings have a mineral oil base and experience shows that they can be stored for up to 3 years without deteriorating providing the following important conditions are met.

- Closed storage room
- Temperature between 0 °C and 40 °C
- Relative atmospheric humidity 65% or less
- Security from chemical agents (vapors, gases, fluids)
- Sealed rolling bearings

The frictional torque can be considerably higher after longer storage periods than in freshly greased bearings and the lubricity of the grease can also have deteriorated.

INA bearings have many optional features available including:

- ISO series of bearings generally include the standard clearance options CN, C2, C3 and C4.
- ISO bearing series include PN, P6 and P5 precision classes.

- Corrotect plating is available for most bearing designs. Corrotect is a patented process for zinc–iron and zinc–iron–cobalt plating in a thin layer which can be applied to standard components. The protection exceeds stainless steel and the cost is half. Add suffix RR.
- All sealed bearings are supplied pregreased. In most cases the standard lubricant is Shell Alvania 2 or equivalent. Other greases are available, some at extra cost.
- Unsealed bearings may not be greased when shipped.
- Speed limits as published, are based on oil lubrication for open bearings or grease lubrication for sealed bearings. The speed limits are calculated based on a nominal load and heat balance equation. Higher speeds may be allowed depending on the application.
- Dynamic capacities are published based on INA standard usage of ISO and ABMA formulas. New life theory threshold values are published in other INA publications.
- Life calculations and evaluations can be made from INA engineering based catalogs which are available from your INA Sales Representative.
- Other features are available based on current production volumes including heat stabilization of the rings, matched bearing sets, with oil holes and grooves, etc.

ABMA American Bearing Manufacturers Association

ASTM American Society Of Testing And Materials

DIN Deutsches Institut für Normung e.V.

ISO International Standards Organization

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Permaglide is a registered trademark and a product of KOLBENSCHMIDT AG, Neckarsulm, also produced in Greensburg, Indiana, USA.

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Although every effort has been made to ensure the accuracy of the information contained in this catalog, INA shall not be liable for any omissions or errors. Purchasers should consult their own testing to determine the suitability of any product for a particular purpose. In no event shall INA be liable for any claims for damages based upon breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.

INA USA Corporation reserves the right to make changes / revisions to specifications contained herein without notice.

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General Information

THRUST BEARINGS

PRODUCT DESCRIPTION

INA Ball Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as banded, 3 piece grooved race, 3 piece flat race and self aligning series.
- Races are made from through hardening and case hardening steels, selective sizes available from stainless steel.
- Cage materials include phenolic, steel, plastic, aluminum and bronze.

INA Roller Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as complete bearings or cage and roller assemblies and washer components.
- Races are made from through hardening and case hardening steels.
- Cage materials include phenolic, steel, plastic, aluminum and bronze.

INA Double Direction Thrust Bearings

- Available in a wide collection of ISO, DIN and popular metric series.
- Available as complete bearings in ball series or component groups of cage and roller assemblies and ZS washers.
- Races are made from through hardening and case hardening steels.

INA Self Aligning Thrust Bearings

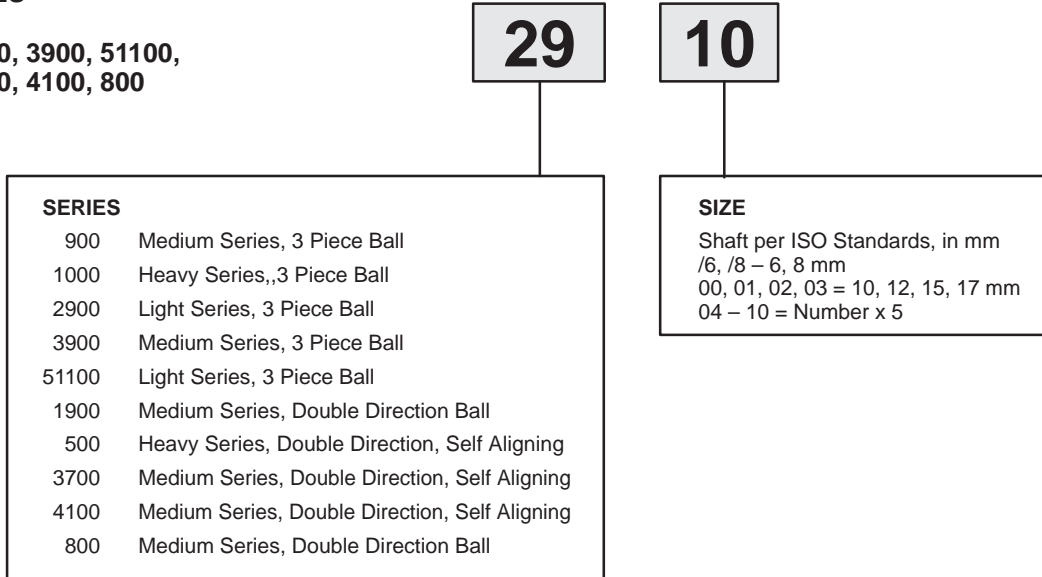
- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as complete bearings with the self aligning seats sold separately.
- Races are made from through hardening and case hardening steels.

Part Number Identification

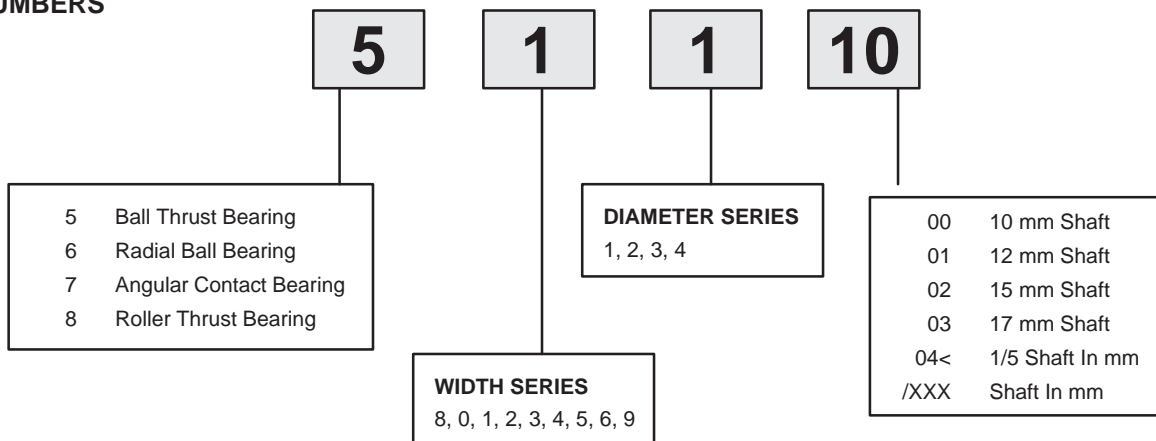
THRUST BEARINGS

THRUST BEARINGS METRIC SERIES

900, 1000, 2900, 3900, 51100,
1900, 500, 3700, 4100, 800



METRIC ISO SERIES 5 DIGIT NUMBERS

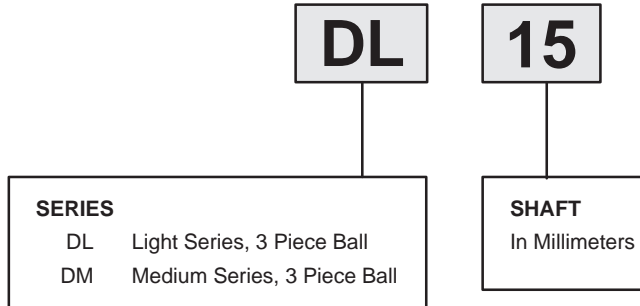


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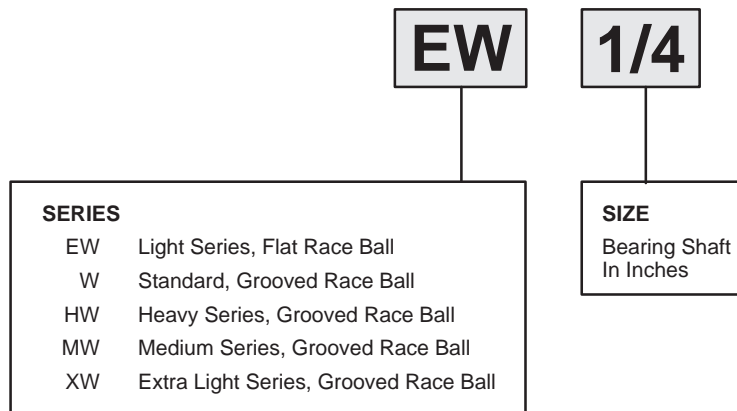
ANDREWS BALL THRUST BEARINGS METRIC SERIES

DL, DM



ANDREWS BALL THRUST BEARINGS INCH SERIES

EW, W, HW, MW, XW

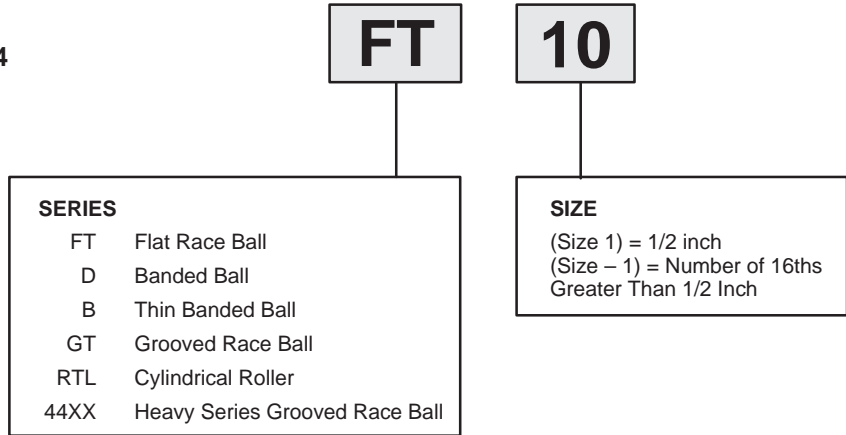


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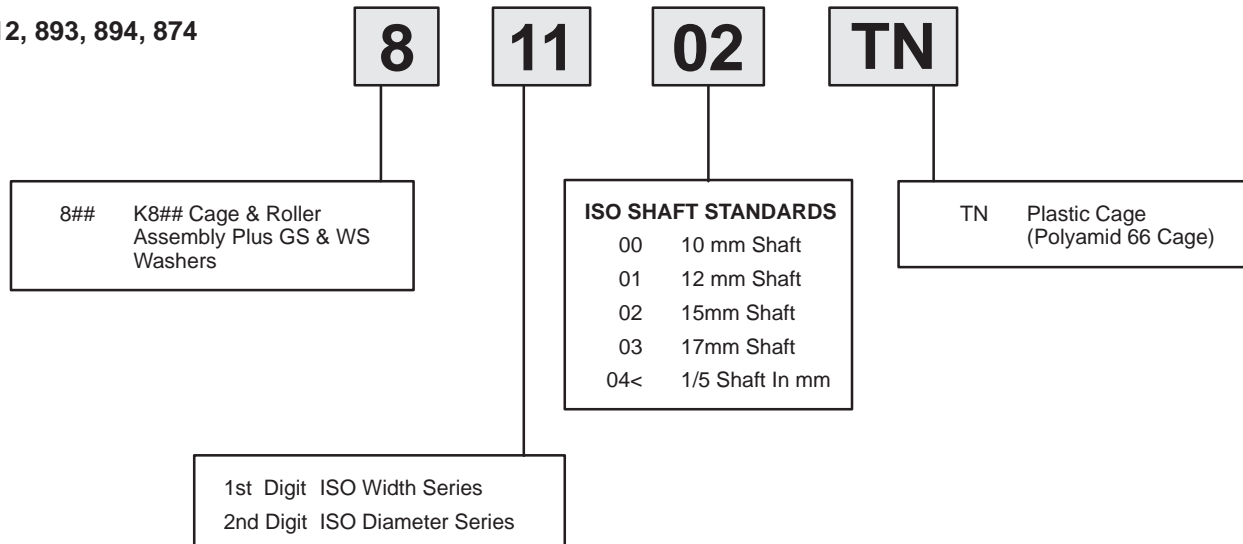
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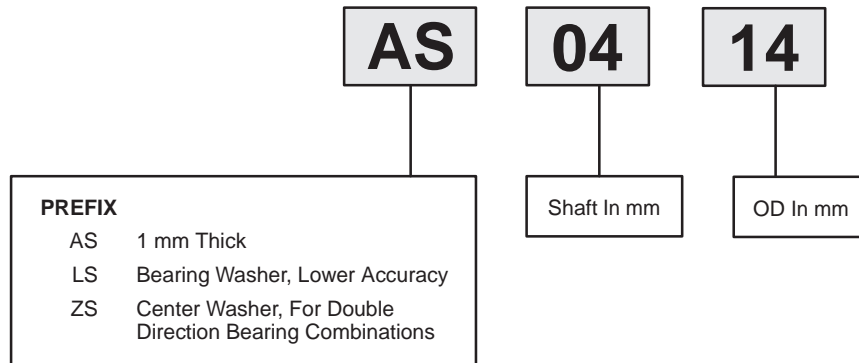


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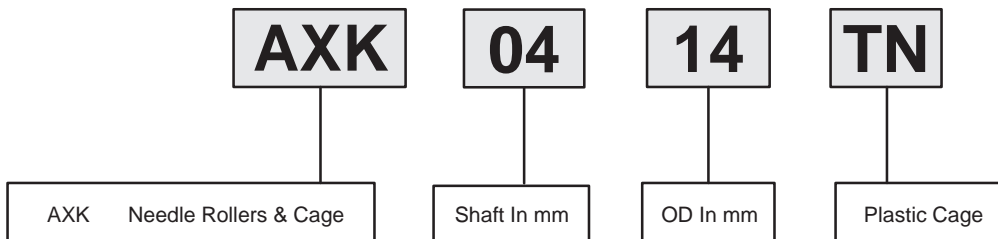
BEARING WASHERS METRIC SERIES

AS, LS, ZS



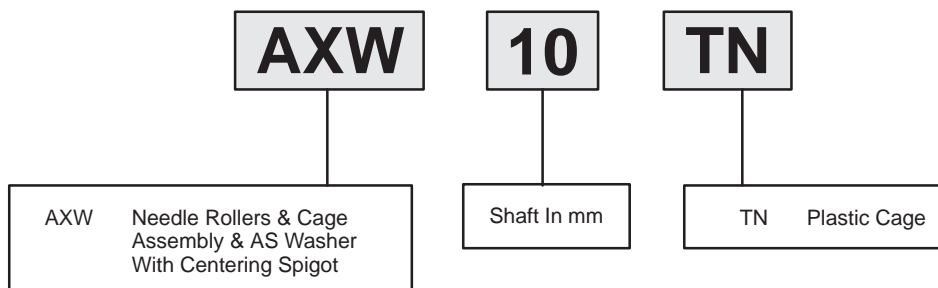
AXIAL NEEDLE CAGE AND ROLLER ASSEMBLIES METRIC SERIES

AXK



PILOTED AXIAL NEEDLE / CYLINDRICAL BEARINGS METRIC SERIES

AXW

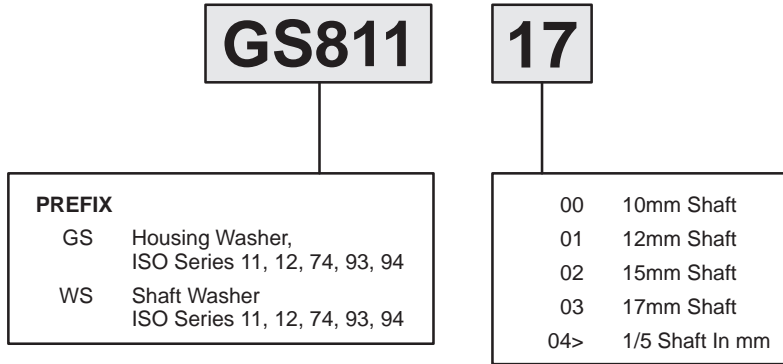


Part Number Identification

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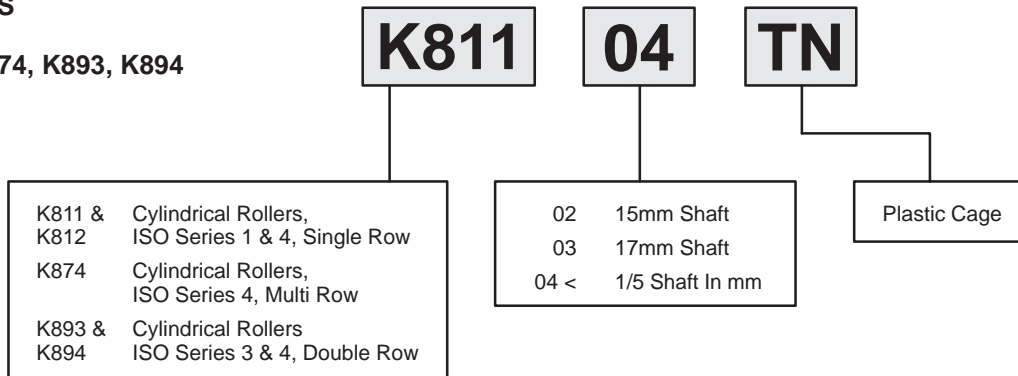
BEARING WASHERS METRIC SERIES

GS, WS



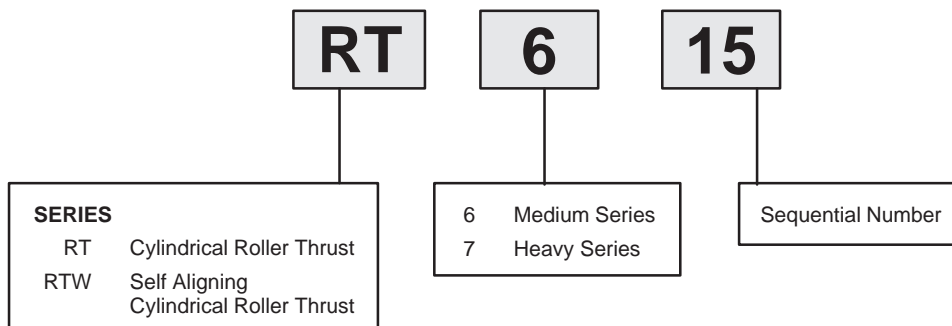
AXIAL NEEDLE / CYLINDRICAL CAGE AND ROLLER ASSEMBLIES METRIC SERIES

K811, K812, K874, K893, K894



ROLLER THRUST INCH SERIES

RT, RTW

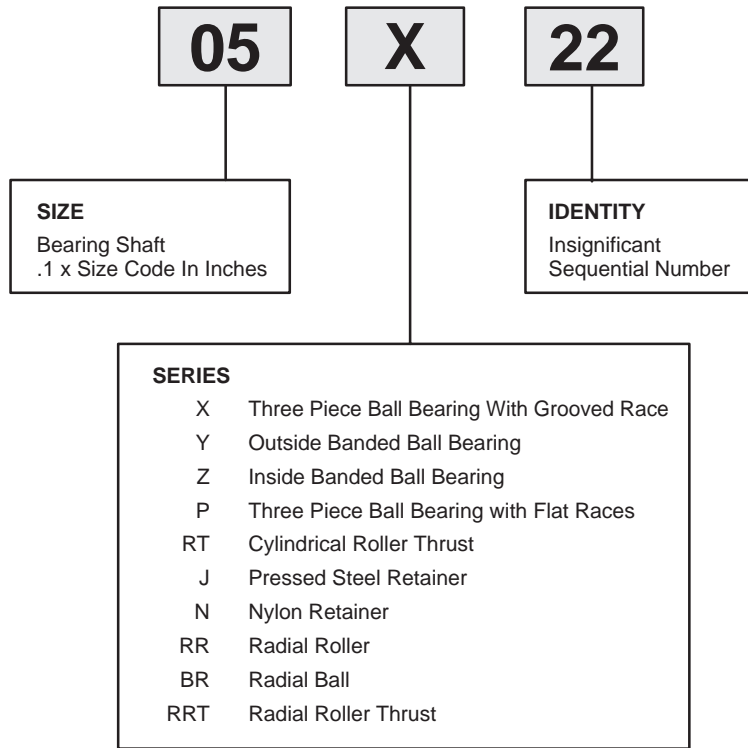


Part Number Identification

THRUST BEARINGS

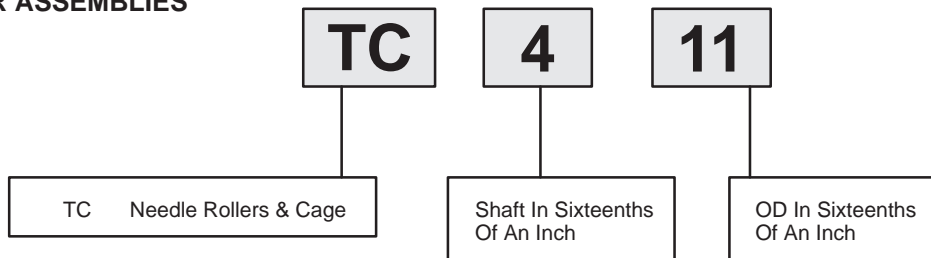
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X, Y, Z, P, RT, J, N,
RR, BR, RRT



AXIAL NEEDLE / CYLINDRICAL CAGE AND ROLLER ASSEMBLIES INCH SERIES

TC

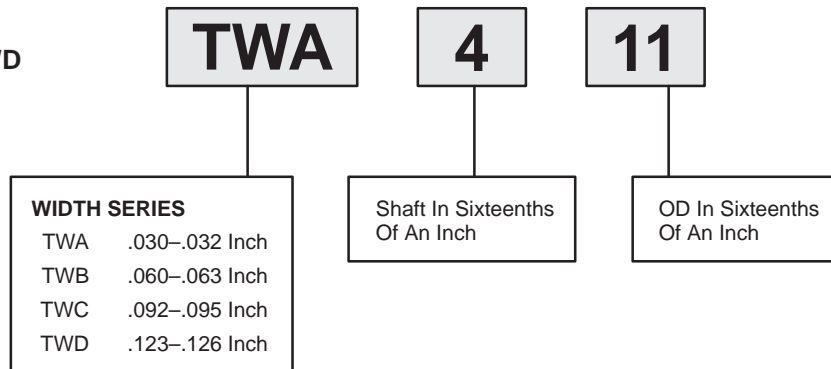


Part Number Identification

THRUST BEARINGS

BEARING WASHERS INCH SERIES

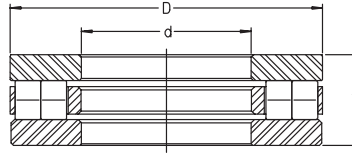
TWA, TWB, TWC, TWD



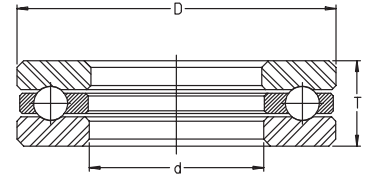
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages.
Please refer to Section Contents or Index for the correct page numbers.



RT7 SHOWN FOR DIMENSIONAL REFERENCE



GT SHOWN FOR DIMENSIONAL REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

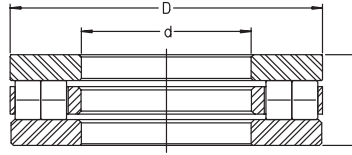
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
FT01	0.188	4.763	0.437	11.110	0.193	4.910
FT02	0.188	4.763	0.438	11.112	0.188	4.762
FT03	0.188	4.763	0.531	13.493	0.188	4.762
FT04	0.188	4.763	0.938	23.825	0.375	9.525
FT05	0.250	6.350	0.563	14.287	0.219	5.556
2004	0.250	6.350	0.625	15.875	0.438	11.113
EW-1/4	0.250	6.350	0.656	16.662	0.250	6.350
FT06	0.250	6.350	0.813	20.650	0.375	9.530
W-1/4	0.250	6.350	0.813	20.650	0.375	9.530
FT07	0.250	6.350	0.844	21.438	0.375	9.525
HW-1/4	0.250	6.350	0.938	23.825	0.531	13.487
FT08	0.313	7.938	0.625	15.875	0.250	6.350
2044	0.313	7.938	0.675	17.145	0.281	7.144
EW-5/16	0.313	7.938	0.750	19.050	0.250	6.350
FT09	0.313	7.938	0.844	21.431	0.375	9.525
W-5/16	0.313	7.938	1.000	25.400	0.531	13.490
HW-5/16	0.313	7.938	1.125	28.575	0.630	16.002
FT010	0.375	9.525	0.688	17.480	0.281	7.144
EW-3/8	0.375	9.525	0.813	20.650	0.250	6.350
W-3/8	0.375	9.525	1.000	25.400	0.530	13.460
FT011	0.375	9.525	1.031	26.190	0.500	12.700
FT012	0.375	9.525	1.094	27.790	0.500	12.700
HW-3/8	0.375	9.525	1.125	28.575	0.625	15.875
51100	0.394	10.000	0.945	24.000	0.354	9.000
900	0.394	10.000	0.984	25.000	0.472	12.000
4100	0.394	10.000	0.984	25.000	0.556	14.122
51200	0.394	10.000	1.024	26.000	0.433	11.000
2900	0.394	10.000	1.024	26.000	0.472	12.000
802	0.394	10.000	1.378	35.000	1.063	27.000
2003	0.406	10.312	0.750	19.050	0.250	6.350
FT013	0.438	11.113	0.813	20.650	0.313	7.950
2085	0.438	11.113	0.875	22.225	0.250	6.350
2063	0.438	11.113	0.937	23.800	0.500	12.700
FT014	0.438	11.113	1.094	27.788	0.500	12.700
W-7/16	0.438	11.113	1.281	32.540	0.625	15.875
HW-7/16	0.438	11.113	1.313	33.350	0.719	18.263
DL12	0.472	12.000	0.906	23.000	0.354	9.000
51101	0.472	12.000	1.024	26.000	0.354	9.000
51201	0.472	12.000	1.102	28.000	0.433	11.000
2901	0.472	12.000	1.102	28.000	0.472	12.000
2002	0.500	12.700	0.750	19.050	0.438	11.113
FT015	0.500	12.700	0.875	22.225	0.250	6.350
FT016	0.500	12.700	0.875	22.225	0.375	9.525
2097	0.500	12.700	0.875	22.225	0.563	14.288
EW-1/2	0.500	12.700	0.969	24.610	0.250	6.350
2458	0.500	12.700	1.062	26.975	0.312	7.925
B1	0.500	12.700	1.219	30.956	0.625	15.880



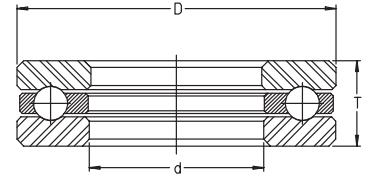
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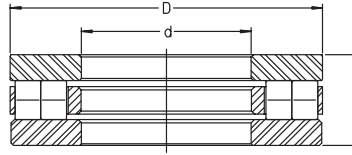
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
D1	0.500	12.700	1.219	30.963	0.563	14.300
FT1	0.500	12.700	1.219	30.963	0.563	14.300
GT1	0.500	12.700	1.219	30.963	0.563	14.300
W-1/2	0.500	12.700	1.281	32.540	0.625	15.875
HW-1/2	0.500	12.700	1.313	33.350	0.719	18.263
4401	0.500	12.700	1.438	36.513	0.625	15.875
B2	0.563	14.288	1.219	30.960	0.625	15.880
D2	0.563	14.288	1.219	30.963	0.563	14.300
FT2	0.563	14.288	1.219	30.963	0.563	14.300
GT2	0.563	14.288	1.219	30.963	0.563	14.300
W-9/16	0.563	14.288	1.406	35.710	0.625	15.875
4402	0.563	14.288	1.438	36.530	0.625	15.875
HW-9/16	0.563	14.300	1.563	39.700	0.750	19.050
DL15	0.591	15.000	1.024	26.000	0.354	9.000
51102	0.591	15.000	1.102	28.000	0.354	9.000
811 02 TN	0.591	15.000	1.102	28.000	0.354	9.000
2902	0.591	15.000	1.221	31.000	0.472	12.000
51202	0.591	15.000	1.260	32.000	0.472	12.000
902	0.591	15.000	1.378	35.000	0.551	14.000
4102	0.591	15.000	1.378	35.000	0.591	15.000
DM15	0.591	15.000	1.378	35.000	0.610	15.500
1002	0.591	15.000	1.378	35.000	0.787	20.000
502	0.591	15.000	1.378	35.000	0.787	20.000
804	0.591	15.000	1.575	40.000	1.142	29.000
2006	0.625	15.875	1.000	25.400	0.500	12.700
EW-5/8	0.625	15.875	1.094	27.788	0.281	7.140
2132	0.625	15.875	1.125	28.575	0.563	14.288
2043	0.625	15.875	1.250	31.750	0.563	14.288
D3	0.625	15.875	1.344	34.138	0.563	14.300
FT3	0.625	15.875	1.344	34.138	0.563	14.300
GT3	0.625	15.875	1.344	34.138	0.563	14.300
B3	0.625	15.875	1.344	34.138	0.625	15.875
W-5/8	0.625	15.875	1.406	35.710	0.625	15.875
4403	0.625	15.875	1.563	39.700	0.625	15.875
HW-5/8	0.625	15.875	1.563	39.700	0.750	19.050
DL17	0.669	17.000	1.102	28.000	0.374	9.500
51103	0.669	17.000	1.181	30.000	0.354	9.000
811 03 TN	0.669	17.000	1.181	30.000	0.354	9.000
51203	0.669	17.000	1.378	35.000	0.472	12.000
1003	0.669	17.000	1.457	37.000	0.756	19.200
503	0.669	17.000	1.457	37.000	0.787	20.000
DM17	0.669	17.000	1.535	39.000	0.748	19.000
D4	0.688	17.463	1.344	34.138	0.563	14.300
FT4	0.688	17.463	1.344	34.138	0.563	14.300
GT4	0.688	17.463	1.344	34.138	0.563	14.300
B4	0.688	17.463	1.344	34.140	0.625	15.880
4404	0.688	17.463	1.563	39.700	0.625	15.875



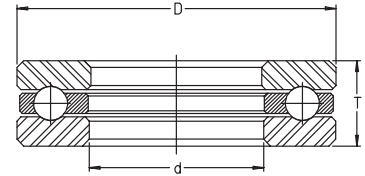
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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RT7 SHOWN FOR DIMENSIONAL REFERENCE



GT7 SHOWN FOR DIMENSIONAL REFERENCE

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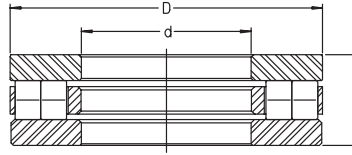
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
2903	0.709	18.000	1.378	35.000	0.472	12.000
2009	0.750	19.050	1.250	31.750	0.438	11.113
2005	0.750	19.050	1.250	31.750	0.563	14.288
EW-3/4	0.750	19.050	1.313	33.350	0.281	7.140
D5	0.750	19.050	1.469	37.313	0.563	14.300
FT5	0.750	19.050	1.469	37.313	0.563	14.300
GT5	0.750	19.050	1.469	37.313	0.563	14.300
B5	0.750	19.050	1.469	37.313	0.625	15.880
W-3/4	0.750	19.050	1.531	38.890	0.625	15.875
MW-3/4	0.750	19.050	1.563	39.700	0.719	18.263
4405	0.750	19.050	1.688	42.880	0.630	16.000
HW-3/4	0.750	19.050	1.813	46.050	0.875	22.225
51104	0.787	20.000	1.378	35.000	0.394	10.000
811 04 TN	0.787	20.000	1.378	35.000	0.394	10.000
2904	0.787	20.000	1.457	37.000	0.472	12.000
DL20	0.787	20.000	1.535	39.000	0.520	13.200
51204	0.787	20.000	1.575	40.000	0.551	14.000
904	0.787	20.000	1.575	40.000	0.551	14.000
4104	0.787	20.000	1.575	40.000	0.630	16.000
DM20	0.787	20.000	1.693	43.000	0.748	19.000
1004	0.787	20.000	1.772	45.000	0.906	23.000
504	0.787	20.000	1.772	45.000	0.945	24.000
805	0.787	20.000	1.890	48.000	1.221	31.000
2007	0.813	20.638	1.250	31.750	0.500	12.700
B6	0.813	20.638	1.469	37.310	0.625	15.880
D6	0.813	20.638	1.469	37.313	0.563	14.300
FT6	0.813	20.638	1.469	37.313	0.563	14.300
GT6	0.813	20.638	1.469	37.313	0.563	14.300
4406	0.813	20.638	1.688	42.880	0.625	15.875
2904-1/2	0.866	22.000	1.654	42.000	0.551	14.000
2011	0.875	22.225	1.375	34.925	0.563	14.288
EW-7/8	0.875	22.225	1.500	38.100	0.375	9.525
W-7/8	0.875	22.225	1.656	42.060	0.625	15.875
MW-7/8	0.875	22.225	1.813	46.050	0.750	19.050
D7	0.875	22.225	1.844	46.838	0.625	15.875
FT7	0.875	22.225	1.844	46.838	0.625	15.875
GT7	0.875	22.225	1.844	46.838	0.625	15.875
RTL7	0.875	22.225	1.844	46.838	0.625	15.875
B7	0.875	22.225	1.844	46.840	0.750	19.050
4407	0.875	22.225	1.938	49.230	0.750	19.050
HW-7/8	0.875	22.225	2.063	52.400	1.000	25.400
2001	0.938	23.813	1.500	38.100	0.500	12.700
D8	0.938	23.813	1.844	46.838	0.625	15.875
FT8	0.938	23.813	1.844	46.838	0.625	15.875
GT8	0.938	23.813	1.844	46.838	0.625	15.875
RTL8	0.938	23.813	1.844	46.838	0.625	15.875
B8	0.938	23.813	1.844	46.838	0.750	19.050



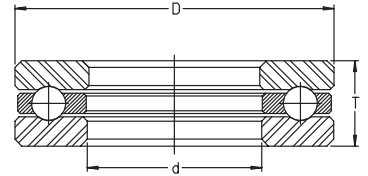
Thrust Bearing Selector

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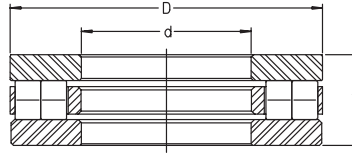
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
4408	0.938	23.813	1.938	49.230	0.750	19.050
51105	0.984	25.000	1.654	42.000	0.433	11.000
811 05 TN	0.984	25.000	1.654	42.000	0.433	11.000
2905	0.984	25.000	1.772	45.000	0.551	14.000
DL25	0.984	25.000	1.772	45.000	0.551	14.000
51205	0.984	25.000	1.850	47.000	0.591	15.000
905	0.984	25.000	1.890	48.000	0.610	15.500
4105	0.984	25.000	1.890	48.000	0.669	17.000
3905	0.984	25.000	2.047	52.000	0.630	16.000
3705	0.984	25.000	2.047	52.000	0.748	19.000
DM25	0.984	25.000	2.087	53.000	0.866	22.000
806	0.984	25.000	2.087	53.000	1.299	33.000
1005	0.984	25.000	2.284	58.000	1.173	29.800
505	0.984	25.000	2.284	58.000	1.181	30.000
2008	1.000	25.400	1.500	38.100	0.625	15.875
2087	1.000	25.400	1.625	41.275	0.563	14.288
EW1	1.000	25.400	1.625	41.280	0.375	9.530
2010	1.000	25.400	1.750	44.450	0.563	14.288
W1	1.000	25.400	1.781	45.240	0.625	15.875
B9	1.000	25.400	1.969	50.010	0.750	19.050
D9	1.000	25.400	1.969	50.013	0.625	15.875
FT9	1.000	25.400	1.969	50.013	0.625	15.875
GT9	1.000	25.400	1.969	50.013	0.625	15.875
RTL9	1.000	25.400	1.969	50.013	0.625	15.875
MW1	1.000	25.400	2.000	50.800	0.750	19.050
4409	1.000	25.400	2.063	52.400	0.750	19.050
RT601	1.000	25.400	2.126	53.988	0.813	20.638
RTW601	1.000	25.400	2.251	57.168	1.062	26.975
HW1	1.000	25.400	2.438	61.930	1.125	28.575
RTW602	1.060	26.924	2.251	57.168	1.062	26.975
2209	1.063	26.988	1.687	42.850	0.625	15.875
B10	1.063	26.988	1.969	50.012	0.750	19.050
D10	1.063	26.988	1.969	50.013	0.625	15.875
FT10	1.063	26.988	1.969	50.013	0.625	15.875
GT10	1.063	26.988	1.969	50.013	0.625	15.875
RTL10	1.063	26.988	1.969	50.013	0.625	15.875
4410	1.063	26.988	2.063	52.400	0.750	19.050
RT602	1.063	26.988	2.126	53.988	0.812	20.625
EW1-1/8	1.125	28.575	1.750	44.450	0.375	9.530
2024	1.125	28.575	1.875	47.625	0.563	14.288
W1-1/8	1.125	28.575	1.906	48.410	0.625	15.875
RTL11	1.125	28.575	2.094	53.181	0.625	15.875
D11	1.125	28.575	2.094	53.188	0.625	15.875
FT11	1.125	28.575	2.094	53.188	0.625	15.875
GT11	1.125	28.575	2.094	53.188	0.625	15.875
B11	1.125	28.575	2.094	53.190	0.750	19.050
4411	1.125	28.575	2.188	55.580	0.750	19.050



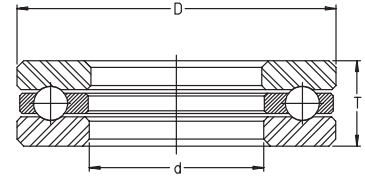
Thrust Bearing Selector

PART NUMBER AND SIZE

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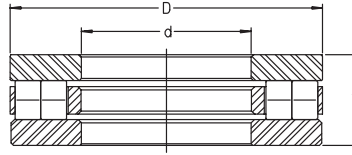
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RT603	1.125	28.575	2.250	57.150	0.813	20.638
MW1-1/8	1.125	28.575	2.250	57.150	0.875	22.225
RTW603	1.125	28.575	2.375	60.325	1.062	26.975
HW1-1/8	1.125	28.575	2.688	68.275	1.313	33.350
51106	1.181	30.000	1.850	47.000	0.433	11.000
811 06 TN	1.181	30.000	1.850	47.000	0.433	11.000
2906	1.181	30.000	1.969	50.000	0.551	14.000
51206	1.181	30.000	2.047	52.000	0.630	16.000
812 06 TN	1.181	30.000	2.047	52.000	0.630	16.000
906	1.181	30.000	2.087	53.000	0.610	15.500
DL30	1.181	30.000	2.087	53.000	0.610	15.500
4106	1.181	30.000	2.087	53.000	0.709	18.000
893 06 TN	1.181	30.000	2.362	60.000	0.709	18.000
3906	1.181	30.000	2.362	60.000	0.748	19.000
3706	1.181	30.000	2.362	60.000	0.827	21.000
DM30	1.181	30.000	2.441	62.000	0.965	24.500
1006	1.181	30.000	2.520	64.000	1.299	33.000
506	1.181	30.000	2.520	64.000	1.339	34.000
808	1.181	30.000	2.520	64.000	1.496	38.000
2283	1.188	30.163	1.938	49.212	0.531	13.494
RTL12	1.188	30.163	2.094	53.181	0.625	15.875
D12	1.188	30.163	2.094	53.188	0.625	15.875
FT12	1.188	30.163	2.094	53.188	0.625	15.875
GT12	1.188	30.163	2.094	53.188	0.625	15.875
B12	1.188	30.163	2.094	53.190	0.750	19.050
4412	1.188	30.163	2.188	55.580	0.750	19.050
RT604	1.188	30.163	2.250	57.150	0.813	20.637
RTW604	1.188	30.163	2.375	60.325	1.062	26.975
2096	1.250	31.750	2.000	50.800	0.813	20.638
EW1-1/4	1.250	31.750	2.063	52.400	0.500	12.700
W1-1/4	1.250	31.750	2.094	53.190	0.719	18.260
4413	1.250	31.750	2.313	58.750	0.750	19.050
RTL13	1.250	31.750	2.344	59.531	0.625	15.875
D13	1.250	31.750	2.344	59.538	0.625	15.875
FT13	1.250	31.750	2.344	59.538	0.625	15.875
GT13	1.250	31.750	2.344	59.538	0.625	15.875
B13	1.250	31.750	2.344	59.538	0.750	19.050
RT605	1.250	31.750	2.375	60.325	0.813	20.637
MW1-1/4	1.250	31.750	2.500	63.500	1.000	25.400
RTW605	1.250	31.750	2.500	63.500	1.063	26.988
HW1-1/4	1.250	31.750	3.000	76.200	1.500	38.100
4414	1.313	33.338	2.313	58.750	0.750	19.050
RTL14	1.313	33.338	2.344	59.531	0.625	15.875
D14	1.313	33.338	2.344	59.538	0.625	15.875
FT14	1.313	33.338	2.344	59.538	0.625	15.875
GT14	1.313	33.338	2.344	59.538	0.625	15.875
B14	1.313	33.338	2.344	59.540	0.750	19.050



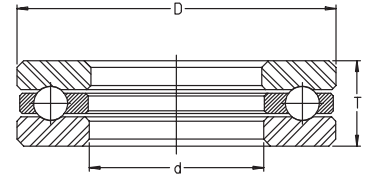
Thrust Bearing Selector

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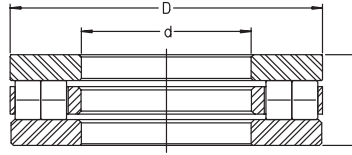
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RT606	1.313	33.338	2.375	60.325	0.813	20.637
RTW606	1.313	33.338	2.500	63.500	1.062	26.975
EW1-3/8	1.375	34.925	2.188	55.575	0.500	12.700
W1-3/8	1.375	34.925	2.219	56.360	0.719	18.260
4415	1.375	34.925	2.438	61.930	0.750	19.050
D15	1.375	34.925	2.469	62.713	0.625	15.875
FT15	1.375	34.925	2.469	62.713	0.625	15.875
GT15	1.375	34.925	2.469	62.713	0.625	15.875
RTL15	1.375	34.925	2.469	62.713	0.625	15.875
B15	1.375	34.925	2.469	62.713	0.750	19.050
MW1-3/8	1.375	34.925	2.625	66.675	1.000	25.400
RT607	1.375	34.925	2.875	73.025	0.813	20.637
RTW607	1.375	34.925	3.000	76.200	1.062	26.975
HW1-3/8	1.375	34.925	3.125	79.375	1.500	38.100
51107X	1.378	35.000	2.047	52.000	0.472	12.000
811 07 TN	1.378	35.000	2.047	52.000	0.472	12.000
51107	1.378	35.000	2.087	53.000	0.472	12.000
2907	1.378	35.000	2.165	55.000	0.630	16.000
DL35	1.378	35.000	2.244	57.000	0.681	17.300
51207	1.378	35.000	2.441	62.000	0.709	18.000
812 07 TN	1.378	35.000	2.441	62.000	0.709	18.000
907	1.378	35.000	2.441	62.000	0.709	18.000
4107	1.378	35.000	2.441	62.000	0.827	21.000
893 07 TN	1.378	35.000	2.677	68.000	0.787	20.000
3907	1.378	35.000	2.677	68.000	0.906	23.000
3707	1.378	35.000	2.677	68.000	0.945	24.000
DM35	1.378	35.000	2.677	68.000	0.965	24.500
1007	1.378	35.000	2.835	72.000	1.457	37.000
507	1.378	35.000	2.835	72.000	1.496	38.000
809	1.378	35.000	2.874	73.000	1.732	44.000
4416	1.438	36.513	2.438	61.930	0.750	19.050
B16	1.438	36.513	2.469	62.710	0.750	19.050
FT16	1.438	36.513	2.469	62.713	0.625	15.875
RTL16	1.438	36.513	2.469	62.713	0.625	15.875
D16	1.438	36.513	2.469	65.888	0.625	15.875
GT16	1.438	36.513	2.469	65.888	0.625	15.875
RT608	1.438	36.513	2.875	73.025	0.812	20.625
RTW608	1.438	36.513	3.000	76.200	1.602	40.691
2092	1.438	36.513	3.250	82.550	1.313	33.338
EW1-1/2	1.500	38.100	2.313	58.750	0.500	12.700
W1-1/2	1.500	38.100	2.344	59.540	0.719	18.260
4417	1.500	38.100	2.563	65.100	0.750	19.050
RTL17	1.500	38.100	2.594	65.881	0.625	15.875
D17	1.500	38.100	2.594	65.888	0.625	15.875
FT17	1.500	38.100	2.594	65.888	0.625	15.875
GT17	1.500	38.100	2.594	65.888	0.625	15.875
B17	1.500	38.100	2.594	65.888	0.750	19.050



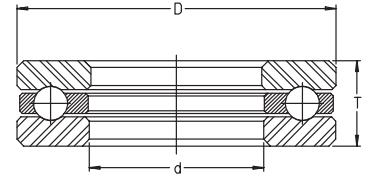
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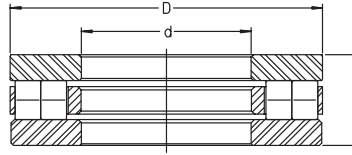
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
MW1-1/2	1.500	38.100	2.875	73.025	1.125	28.575
RT609	1.500	38.100	3.000	76.200	0.813	20.637
RTW609	1.500	38.100	3.125	79.375	1.062	26.975
HW1-1/2	1.500	38.100	3.500	88.900	1.750	44.450
4418	1.563	39.688	2.563	65.100	0.750	19.050
RTL18	1.563	39.688	2.594	65.881	0.625	15.875
D18	1.563	39.688	2.594	65.888	0.625	15.875
FT18	1.563	39.688	2.594	65.888	0.625	15.875
GT18	1.563	39.688	2.594	65.888	0.625	15.875
B18	1.563	39.688	2.594	65.890	0.750	19.050
RT610	1.563	39.688	3.000	76.200	0.812	20.625
RTW610	1.563	39.688	3.125	79.375	1.062	26.975
51108	1.575	40.000	2.362	60.000	0.512	13.000
811 08 TN	1.575	40.000	2.362	60.000	0.512	13.000
2908	1.575	40.000	2.362	60.000	0.630	16.000
908	1.575	40.000	2.520	64.000	0.709	18.000
DL40	1.575	40.000	2.520	64.000	0.748	19.000
4108	1.575	40.000	2.520	64.000	0.827	21.000
51208	1.575	40.000	2.677	68.000	0.748	19.000
812 08 TN	1.575	40.000	2.677	68.000	0.748	19.000
DM40	1.575	40.000	2.953	75.000	1.102	28.000
3908	1.575	40.000	2.992	76.000	0.984	25.000
3708	1.575	40.000	2.992	76.000	1.063	27.000
893 08 TN	1.575	40.000	3.071	78.000	0.866	22.000
810	1.575	40.000	3.071	78.000	1.752	44.500
1008	1.575	40.000	3.347	85.000	1.634	41.500
508	1.575	40.000	3.347	85.000	1.732	44.000
874 08	1.575	40.000	3.543	90.000	0.906	23.000
2282	1.625	41.275	2.381	60.477	0.656	16.662
EW1-5/8	1.625	41.275	2.438	61.930	0.500	12.700
W1-5/8	1.625	41.275	2.469	62.710	0.719	18.260
4419	1.625	41.275	2.813	71.450	0.875	22.225
B19	1.625	41.275	2.969	75.410	0.875	22.220
FT19	1.625	41.275	2.969	75.413	0.813	20.638
GT19	1.625	41.275	2.969	75.413	0.813	20.638
D19	1.625	41.275	2.969	75.413	0.813	20.650
RTL19	1.625	41.275	2.969	75.413	0.813	20.650
MW1-5/8	1.625	41.275	3.000	76.200	1.125	28.575
RCT11	1.625	41.275	3.093	78.562	0.812	20.625
RT611	1.625	41.275	3.250	82.550	1.000	25.400
RWCT11	1.625	41.275	3.343	84.912	0.813	20.638
RTW611	1.625	41.275	3.375	85.725	1.312	33.325
HW1-5/8	1.625	41.275	3.625	92.075	1.750	44.450
2041	1.688	42.863	2.375	60.325	0.563	14.288
4420	1.688	42.863	2.813	71.450	0.875	22.225
B20	1.688	42.863	2.969	75.410	0.875	22.220
FT20	1.688	42.863	2.969	75.413	0.813	20.638



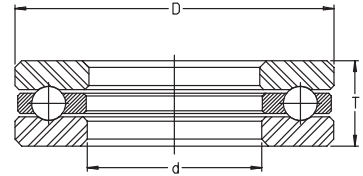
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
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RT7 SHOWN FOR DIMENSIONAL REFERENCE



GT SHOWN FOR DIMENSIONAL REFERENCE

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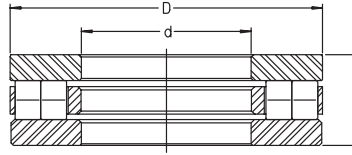
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
GT20	1.688	42.863	2.969	75.413	0.813	20.638
D20	1.688	42.863	2.969	75.413	0.813	20.650
RTL20	1.688	42.863	2.969	75.413	0.813	20.650
RT612	1.688	42.863	3.250	82.550	1.000	25.400
RTW612	1.688	42.863	3.376	85.748	1.313	33.338
EW1-3/4	1.750	44.450	2.625	66.675	0.625	15.875
W1-3/4	1.750	44.450	2.688	68.280	0.755	19.180
4421	1.750	44.450	2.938	74.630	0.875	22.225
RTL21	1.750	44.450	3.094	78.588	0.813	20.637
FT21	1.750	44.450	3.094	78.588	0.813	20.638
GT21	1.750	44.450	3.094	78.588	0.813	20.638
D21	1.750	44.450	3.094	78.588	0.813	20.650
B21	1.750	44.450	3.094	78.590	0.875	22.220
MW1-3/4	1.750	44.450	3.313	84.150	1.250	31.750
RT613	1.750	44.450	3.375	85.725	1.000	25.400
RTW613	1.750	44.450	3.500	88.900	1.312	33.325
HW1-3/4	1.750	44.450	4.000	101.600	2.000	50.800
51109	1.772	45.000	2.559	65.000	0.551	14.000
811 09 TN	1.772	45.000	2.559	65.000	0.551	14.000
2909	1.772	45.000	2.677	68.000	0.630	16.000
DL45	1.772	45.000	2.835	72.000	0.886	22.500
51209	1.772	45.000	2.874	73.000	0.787	20.000
812 09 TN	1.772	45.000	2.874	73.000	0.787	20.000
909	1.772	45.000	2.874	73.000	0.866	22.000
4109	1.772	45.000	2.874	73.000	0.984	25.000
DM45	1.772	45.000	3.150	80.000	1.102	28.000
893 09 TN	1.772	45.000	3.346	85.000	0.945	24.000
3909	1.772	45.000	3.347	85.000	1.102	28.000
3709	1.772	45.000	3.347	85.000	1.181	30.000
811	1.772	45.000	3.465	88.000	2.008	51.000
1009	1.772	45.000	3.740	95.000	1.850	47.000
509	1.772	45.000	3.740	95.000	1.969	50.000
874 09	1.772	45.000	3.937	100.000	0.984	25.000
4422	1.813	46.038	2.938	74.630	0.875	22.225
FT22	1.813	46.038	3.094	78.588	0.813	20.638
GT22	1.813	46.038	3.094	78.588	0.813	20.638
D22	1.813	46.038	3.094	78.588	0.813	20.650
RTL22	1.813	46.038	3.094	78.588	0.813	20.650
B22	1.813	46.038	3.094	78.590	0.875	22.220
RT614	1.813	46.038	3.375	85.725	1.000	25.400
RTW614	1.813	46.038	3.500	88.900	1.312	33.325
EW1-7/8	1.875	47.625	2.750	69.850	0.625	15.875
W1-7/8	1.875	47.625	2.813	71.450	0.750	19.050
4423	1.875	47.625	3.063	77.800	0.875	22.225
B23	1.875	47.625	3.219	81.760	0.875	22.220
D23	1.875	47.625	3.219	81.763	0.813	20.650
FT23	1.875	47.625	3.219	81.763	0.813	20.638



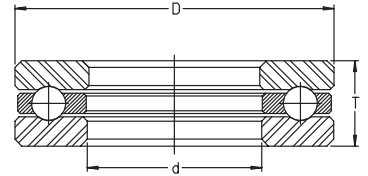
Thrust Bearing Selector

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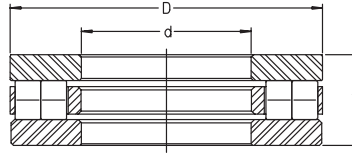
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
GT23	1.875	47.625	3.219	81.763	0.813	20.638
RTL23	1.875	47.625	3.219	81.763	0.813	20.650
MW1-7/8	1.875	47.625	3.438	87.325	1.250	31.750
RT615	1.875	47.625	3.500	88.900	1.000	25.400
RTW615	1.875	47.625	3.625	92.075	1.312	33.325
HW1-7/8	1.875	47.625	4.125	104.775	2.000	50.800
4424	1.938	49.213	3.063	77.800	0.875	22.225
B24	1.938	49.213	3.219	81.760	0.875	22.220
D24	1.938	49.213	3.219	81.763	0.813	20.650
FT24	1.938	49.213	3.219	81.763	0.813	20.638
GT24	1.938	49.213	3.219	81.763	0.813	20.638
RTL24	1.938	49.213	3.219	81.763	0.813	20.650
RCT16	1.938	49.213	3.246	82.448	0.812	20.625
RT616	1.938	49.213	3.500	88.900	1.000	25.400
RWCT16	1.938	49.213	3.593	91.262	0.812	20.625
RTW616	1.938	49.213	3.625	92.075	1.312	33.325
51110	1.969	50.000	2.756	70.000	0.551	14.000
811 10 TN	1.969	50.000	2.756	70.000	0.551	14.000
2910	1.969	50.000	2.913	74.000	0.709	18.000
51210	1.969	50.000	3.071	78.000	0.866	22.000
812 10 TN	1.969	50.000	3.071	78.000	0.866	22.000
910	1.969	50.000	3.071	78.000	0.866	22.000
4110	1.969	50.000	3.071	78.000	0.984	25.000
DL50	1.969	50.000	3.150	80.000	0.965	24.500
DM50	1.969	50.000	3.347	85.000	1.240	31.500
812	1.969	50.000	3.543	90.000	1.949	49.500
3910	1.969	50.000	3.622	92.000	1.221	31.000
3710	1.969	50.000	3.622	92.000	1.299	33.000
893 10 TN	1.969	50.000	3.740	95.000	1.063	27.000
874 10 TN	1.969	50.000	4.331	110.000	1.063	27.000
1010	1.969	50.000	4.331	110.000	2.165	55.000
510	1.969	50.000	4.331	110.000	2.205	56.000
EW2	2.000	50.800	2.875	73.020	0.625	15.875
W2	2.000	50.800	2.969	75.410	0.750	19.050
XW2	2.000	50.800	3.063	77.800	0.688	17.480
4425	2.000	50.800	3.188	80.980	0.875	22.225
2280	2.000	50.800	3.250	82.550	0.813	20.638
D25	2.000	50.800	3.344	84.938	0.813	20.650
RTL25	2.000	50.800	3.344	84.938	0.813	20.637
FT25	2.000	50.800	3.344	84.938	0.813	20.638
GT25	2.000	50.800	3.344	84.938	0.813	20.638
B25	2.000	50.800	3.344	84.940	0.875	22.220
2023	2.000	50.800	3.500	88.900	1.625	41.275
RT617	2.000	50.800	3.625	92.075	1.000	25.400
MW2	2.000	50.800	3.688	93.680	1.375	34.925
RTW617	2.000	50.800	3.750	95.250	1.312	33.325
RCT17	2.000	50.800	3.952	100.380	1.000	25.400



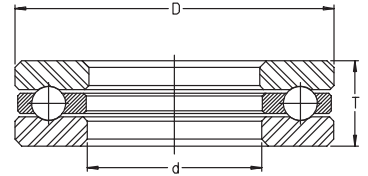
Thrust Bearing Selector

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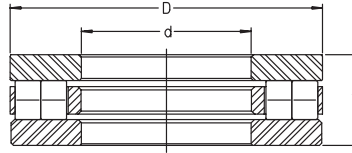
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RWCT17	2.000	50.800	4.000	101.600	1.000	25.400
HW2	2.000	50.800	4.625	117.475	2.250	57.150
RT727	2.000	50.800	6.000	152.400	1.375	34.925
RTW727	2.000	50.800	6.312	160.325	1.812	46.025
RT728	2.000	50.800	7.002	177.838	1.375	34.920
RTW728	2.000	50.800	7.312	185.725	1.812	46.025
RT729	2.000	50.800	8.002	203.238	1.375	34.925
RTW729	2.000	50.800	8.314	211.173	1.813	46.038
4426	2.063	52.388	3.188	80.980	0.875	22.225
D26	2.063	52.388	3.344	84.938	0.813	20.650
FT26	2.063	52.388	3.344	84.938	0.813	20.638
GT26	2.063	52.388	3.344	84.938	0.813	20.638
B26	2.063	52.388	3.344	84.940	0.875	22.220
XW2-1/8	2.125	53.975	3.188	80.980	0.688	17.480
W2-1/8	2.125	53.975	3.219	81.760	0.875	22.225
4427	2.125	53.975	3.313	84.150	0.875	22.225
FT27	2.125	53.975	3.594	91.288	0.813	20.638
GT27	2.125	53.975	3.594	91.288	0.813	20.638
D27	2.125	53.975	3.594	91.288	0.813	20.650
RTL27	2.125	53.975	3.594	91.288	0.813	20.650
B27	2.125	53.975	3.594	91.290	0.875	22.225
RT618	2.125	53.975	3.750	95.250	1.000	25.400
RTW618	2.125	53.975	3.875	98.425	1.312	33.325
51111	2.165	55.000	3.071	78.000	0.630	16.000
811 11 TN	2.165	55.000	3.071	78.000	0.630	16.000
2911	2.165	55.000	3.071	78.000	0.709	18.000
911	2.165	55.000	3.465	88.000	0.965	24.500
4111	2.165	55.000	3.465	88.000	1.102	28.000
DL55	2.165	55.000	3.465	88.000	1.102	28.000
51211	2.165	55.000	3.543	90.000	0.984	25.000
812 11 TN	2.165	55.000	3.543	90.000	0.984	25.000
DM55	2.165	55.000	3.740	95.000	1.378	35.000
3911	2.165	55.000	3.937	100.000	1.299	33.000
3711	2.165	55.000	3.937	100.000	1.378	35.000
814	2.165	55.000	4.055	103.000	2.284	58.000
893 11 TN	2.165	55.000	4.134	105.000	1.181	30.000
874 11	2.165	55.000	4.724	120.000	1.142	29.000
1011	2.165	55.000	4.724	120.000	2.480	63.000
511	2.165	55.000	4.724	120.000	2.520	64.000
4428	2.188	55.563	3.313	84.138	0.875	22.225
FT28	2.188	55.563	3.594	91.288	0.813	20.638
GT28	2.188	55.563	3.594	91.288	0.813	20.638
D28	2.188	55.563	3.594	91.288	0.813	20.650
RTL28	2.188	55.563	3.594	91.288	0.813	20.650
B28	2.188	55.563	3.594	91.290	0.875	22.220
EW2-1/4	2.250	57.150	3.125	79.380	0.625	15.875
B29	2.250	57.150	3.719	80.747	0.875	22.220



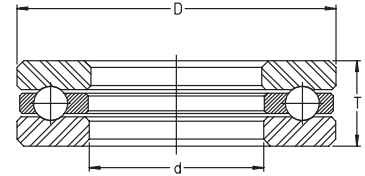
Thrust Bearing Selector

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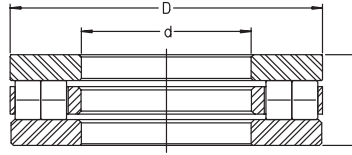
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
W2-1/4	2.250	57.150	3.344	84.940	0.875	22.225
XW2-1/4	2.250	57.150	3.352	85.150	0.688	17.480
4429	2.250	57.150	3.438	87.330	0.880	22.360
FT29	2.250	57.150	3.719	94.463	0.813	20.638
GT29	2.250	57.150	3.719	94.463	0.813	20.638
D29	2.250	57.150	3.719	94.463	0.813	20.650
RTL29	2.250	57.150	3.719	94.463	0.813	20.650
RT619	2.250	57.150	3.875	98.425	1.000	25.400
RCT19	2.250	57.150	4.000	101.600	1.000	25.400
RTW619	2.250	57.150	4.000	101.600	1.312	33.325
RCT20C	2.250	57.150	4.250	107.950	1.000	25.400
RWCT19	2.250	57.150	4.250	107.950	1.000	25.400
MW2-1/4	2.250	57.150	4.250	107.950	1.688	42.875
RWCT20C	2.250	57.150	4.375	111.125	1.000	25.400
HW2-1/4	2.250	57.150	5.250	133.350	2.500	63.500
4430	2.313	58.738	3.438	87.330	0.875	22.225
B30	2.313	58.738	3.719	94.460	0.875	22.220
FT30	2.313	58.738	3.719	94.463	0.813	20.638
GT30	2.313	58.738	3.719	94.463	0.813	20.638
D30	2.313	58.738	3.719	94.463	0.813	20.650
RCT20B	2.313	58.738	4.265	108.331	1.005	25.527
RWCT20B	2.313	58.738	4.375	111.125	1.000	25.400
2912	2.362	60.000	3.228	82.000	0.709	18.000
51112	2.362	60.000	3.347	85.000	0.669	17.000
811 12 TN	2.362	60.000	3.346	85.000	0.669	17.000
2913	2.559	65.000	3.543	90.000	0.787	20.000
912	2.362	60.000	3.543	90.000	0.965	24.500
4112	2.362	60.000	3.543	90.000	1.102	28.000
51212	2.362	60.000	3.740	95.000	1.024	26.000
812 12 TN	2.362	60.000	3.740	95.000	1.024	26.000
DL60	2.362	60.000	3.858	98.000	1.201	30.500
DM60	2.362	60.000	4.055	103.000	1.496	38.000
3912	2.362	60.000	4.173	106.000	1.378	35.000
3712	2.362	60.000	4.173	106.000	1.457	37.000
893 12 TN	2.362	60.000	4.331	110.000	1.181	30.000
815	2.362	60.000	4.331	110.000	2.284	58.000
874 12	2.362	60.000	5.118	130.000	1.260	32.000
894 12 TN	2.362	60.000	5.118	130.000	1.654	42.000
1012	2.362	60.000	5.118	130.000	2.598	66.000
512	2.362	60.000	5.118	130.000	2.677	68.000
XW2-3/8	2.375	60.325	3.438	87.330	0.688	17.480
4431	2.375	60.325	3.563	90.500	0.875	22.225
W2-3/8	2.375	60.325	3.594	91.290	1.000	25.400
D31	2.375	60.325	3.844	97.638	0.813	20.650
FT31	2.375	60.325	3.844	97.638	0.813	20.638
GT31	2.375	60.325	3.844	97.638	0.813	20.638
RTL31	2.375	60.325	3.844	97.638	0.813	20.650



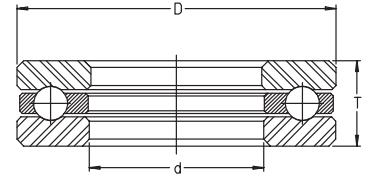
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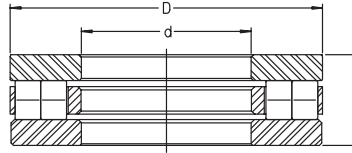
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
B31	2.375	60.325	3.844	97.640	0.875	22.220
RT620	2.375	60.325	4.000	101.600	1.000	25.400
RTW620	2.375	60.325	4.125	104.775	1.312	33.325
4432	2.438	61.913	3.563	90.500	0.875	22.225
D32	2.438	61.913	3.844	97.638	0.813	20.650
FT32	2.438	61.913	3.844	97.638	0.813	20.638
GT32	2.438	61.913	3.844	97.638	0.813	20.638
RTL32	2.438	61.913	3.844	97.638	0.813	20.650
B32	2.438	61.913	3.844	97.640	0.875	22.225
XW2-1/2	2.500	63.500	3.563	90.500	0.688	17.480
2281	2.500	63.500	3.688	93.662	0.938	23.813
W2-1/2	2.500	63.500	3.719	94.460	1.000	25.400
D33	2.500	63.500	3.969	100.813	0.813	20.650
RTL33	2.500	63.500	3.969	100.813	0.813	20.637
FT33	2.500	63.500	3.969	100.813	0.814	20.671
GT33	2.500	63.500	3.969	100.813	0.814	20.671
B33	2.500	63.500	3.969	100.813	0.875	22.225
4433	2.500	63.500	4.000	101.600	1.125	28.580
RT621	2.500	63.500	4.126	104.803	1.000	25.400
RTW621	2.500	63.500	4.250	107.950	1.312	33.325
MW2-1/2	2.500	63.500	4.750	120.650	2.000	50.800
HW2-1/2	2.500	63.500	5.750	146.050	2.750	69.850
51113	2.559	65.000	3.543	90.000	0.709	18.000
811 13 TN	2.559	65.000	3.543	90.000	0.709	18.000
51213	2.559	65.000	3.937	100.000	1.063	27.000
812 13 TN	2.559	65.000	3.937	100.000	1.063	27.000
913	2.559	65.000	3.937	100.000	1.063	27.000
4113	2.559	65.000	3.937	100.000	1.260	32.000
DL65	2.559	65.000	4.055	103.000	1.240	31.500
3913	2.559	65.000	4.409	112.000	1.417	36.000
3713	2.559	65.000	4.409	112.000	1.496	38.000
DM65	2.559	65.000	4.409	112.000	1.634	41.500
893 13 TN	2.559	65.000	4.528	115.000	1.181	30.000
816	2.559	65.000	4.528	115.000	2.500	63.500
874 13	2.559	65.000	5.512	140.000	1.339	34.000
894 13 TN	2.559	65.000	5.512	140.000	1.772	45.000
1013	2.559	65.000	5.512	140.000	2.874	73.000
513	2.559	65.000	5.512	140.000	2.913	74.000
D34	2.563	65.088	3.969	100.813	0.813	20.650
FT34	2.563	65.088	3.969	100.813	0.813	20.638
GT34	2.563	65.088	3.969	100.813	0.813	20.638
B34	2.563	65.088	3.969	100.813	0.875	22.225
4434	2.563	65.088	4.000	101.600	1.125	28.580
XW2-5/8	2.625	66.675	3.750	95.250	0.750	19.050
W2-5/8	2.625	66.675	3.844	97.640	1.000	25.400
4435	2.625	66.675	4.125	104.770	1.125	28.580
RT622	2.625	66.675	4.343	110.300	1.000	25.400



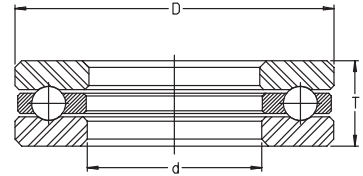
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
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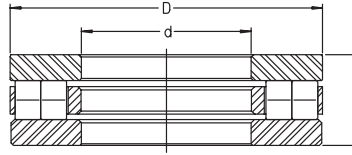
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
D35	2.625	66.675	4.344	110.338	1.000	25.400
FT35	2.625	66.675	4.344	110.338	1.000	25.400
GT35	2.625	66.675	4.344	110.338	1.000	25.400
RTL35	2.625	66.675	4.344	110.338	1.000	25.400
B35	2.625	66.675	4.344	110.340	1.125	28.580
RTW622	2.625	66.675	4.530	115.062	1.312	33.325
D36	2.688	68.263	4.344	110.338	1.000	25.400
FT36	2.688	68.263	4.344	110.338	1.000	25.400
GT36	2.688	68.263	4.344	110.338	1.000	25.400
B36	2.688	68.263	4.344	110.340	1.125	28.580
XW2-3/4	2.750	69.850	3.875	98.430	0.750	19.050
W2-3/4	2.750	69.850	4.031	102.390	1.000	25.400
4436	2.750	69.850	4.250	107.950	1.125	28.580
RT623	2.750	69.850	4.468	113.475	1.000	25.400
B37	2.750	69.850	4.469	113.510	1.125	28.580
D37	2.750	69.850	4.469	113.513	1.000	25.400
FT37	2.750	69.850	4.469	113.513	1.000	25.400
GT37	2.750	69.850	4.469	113.513	1.000	25.400
RTL37	2.750	69.850	4.469	113.513	1.000	25.400
RTW623	2.750	69.850	4.655	118.237	1.313	33.338
RCT23	2.750	69.850	4.750	120.650	1.000	25.400
RWCT23	2.750	69.850	4.843	123.012	1.000	25.400
RCT24A	2.750	69.850	4.875	123.825	1.250	31.750
MW2-3/4	2.750	69.850	4.875	123.825	2.000	50.800
RWCT24A	2.750	69.850	5.156	130.962	1.250	31.750
HW2-3/4	2.750	69.850	6.000	152.400	2.750	69.850
51114	2.756	70.000	3.740	95.000	0.709	18.000
811 14 TN	2.756	70.000	3.740	95.000	0.709	18.000
2914	2.756	70.000	3.740	95.000	0.787	20.000
914	2.756	70.000	4.055	103.000	1.063	27.000
4114	2.756	70.000	4.055	103.000	1.260	32.000
51214	2.756	70.000	4.134	105.000	1.063	27.000
812 14 TN	2.756	70.000	4.134	105.000	1.063	27.000
DL70	2.756	70.000	4.252	108.000	1.260	32.000
3914	2.756	70.000	4.724	120.000	1.496	38.000
3714	2.756	70.000	4.724	120.000	1.575	40.000
DM70	2.756	70.000	4.803	122.000	1.634	41.500
893 14 TN	2.756	70.000	4.921	125.000	1.339	34.000
817	2.756	70.000	4.921	125.000	2.795	71.000
874 14	2.756	70.000	5.906	150.000	1.417	36.000
894 14 TN	2.756	70.000	5.906	150.000	1.890	48.000
1014	2.756	70.000	5.906	150.000	3.071	78.000
514	2.756	70.000	5.906	150.000	3.150	80.000
B38	2.813	71.438	4.469	113.510	1.125	28.580
D38	2.813	71.438	4.469	113.513	1.000	25.400
FT38	2.813	71.438	4.469	113.513	1.000	25.400
GT38	2.813	71.438	4.469	113.513	1.000	25.400



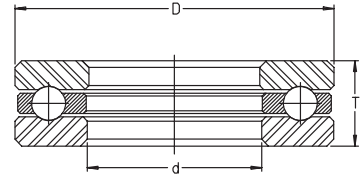
Thrust Bearing Selector

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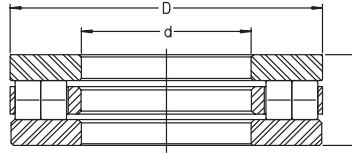
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RCT23B	2.813	71.438	4.750	120.650	1.000	25.400
RWCT23B	2.813	71.438	4.843	123.012	1.000	25.400
XW2-7/8	2.875	73.025	4.000	101.600	0.750	19.050
W2-7/8	2.875	73.025	4.156	105.560	1.000	25.400
FT39	2.875	73.025	4.594	116.688	1.000	25.400
GT39	2.875	73.025	4.594	116.688	1.000	25.400
4437	2.938	74.613	4.438	112.730	1.125	28.580
D39	2.938	74.613	4.594	116.688	1.000	25.400
FT40	2.938	74.613	4.594	116.688	1.000	25.400
GT40	2.938	74.613	4.594	116.688	1.000	25.400
B39	2.938	74.613	4.594	116.690	1.125	28.580
51115	2.953	75.000	3.937	100.000	0.748	19.000
811 15 TN	2.953	75.000	3.937	100.000	0.748	19.000
2915	2.953	75.000	3.937	100.000	0.787	20.000
51215	2.953	75.000	4.331	110.000	1.063	27.000
812 15 TN	2.953	75.000	4.331	110.000	1.063	27.000
915	2.953	75.000	4.331	110.000	1.063	27.000
4115	2.953	75.000	4.331	110.000	1.260	32.000
DL75	2.953	75.000	4.409	112.000	1.280	32.500
DM75	2.953	75.000	4.921	125.000	1.634	41.500
3915	2.953	75.000	5.039	128.000	1.614	41.000
3715	2.953	75.000	5.039	128.000	1.693	43.000
893 15 TN	2.953	75.000	5.315	135.000	1.417	36.000
818	2.953	75.000	5.315	135.000	2.854	72.500
874 15	2.953	75.000	6.299	160.000	1.496	38.000
894 15	2.953	75.000	6.299	160.000	2.008	51.000
515	2.953	75.000	6.299	160.000	3.268	83.000
1015	2.953	75.000	6.299	160.000	3.307	84.000
XW3	3.000	76.200	4.125	104.770	0.750	19.050
W3	3.000	76.200	4.375	111.130	1.125	28.580
4438	3.000	76.200	4.500	114.300	1.125	28.580
D39-1/2	3.000	76.200	4.594	116.688	1.000	25.400
B40	3.000	76.200	4.719	119.860	1.125	28.580
D40	3.000	76.200	4.719	119.863	1.000	25.400
FT41	3.000	76.200	4.719	119.863	1.000	25.400
GT41	3.000	76.200	4.719	119.863	1.000	25.400
RTL41	3.000	76.200	4.719	119.863	1.000	25.400
RT624	3.000	76.200	4.719	119.870	1.000	25.400
RTW624	3.000	76.200	4.969	126.213	1.312	33.325
MW3	3.000	76.200	5.625	142.875	2.250	57.150
RT730	3.000	76.200	6.000	152.400	1.375	34.925
RTW730	3.000	76.200	6.312	160.325	1.812	46.025
HW3	3.000	76.200	6.875	174.625	3.375	85.725
RT731	3.000	76.200	7.000	177.800	1.375	34.925
RTW731	3.000	76.200	7.312	185.725	1.812	46.025
RT732	3.000	76.200	8.000	203.200	1.375	34.925
RTW732	3.000	76.200	8.314	211.173	1.813	46.038



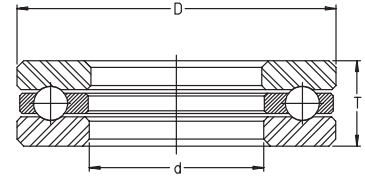
Thrust Bearing Selector

PART NUMBER AND SIZE

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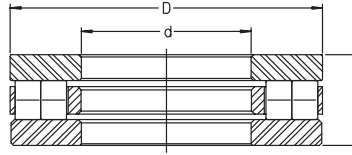
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RT733	3.000	76.200	9.000	228.600	1.375	34.925
RTW733	3.000	76.200	9.314	236.573	1.813	46.038
FT42	3.063	77.788	4.719	119.863	1.000	25.400
GT42	3.063	77.788	4.719	119.863	1.000	25.400
XW3-1/8	3.125	79.375	4.250	107.950	0.750	19.050
W3-1/8	3.125	79.375	4.500	114.300	1.125	28.580
4439	3.125	79.375	4.625	117.480	1.125	28.580
51116	3.150	80.000	4.134	105.000	0.748	19.000
811 16 TN	3.150	80.000	4.134	105.000	0.748	19.000
2916	3.150	80.000	4.331	110.000	0.906	23.000
51216	3.150	80.000	4.528	115.000	1.102	28.000
812 16 TN	3.150	80.000	4.528	115.000	1.102	28.000
916	3.150	80.000	4.528	115.000	1.142	29.000
4116	3.150	80.000	4.528	115.000	1.378	35.000
DL80	3.150	80.000	4.646	118.000	1.339	34.000
DM80	3.150	80.000	5.276	134.000	1.772	45.000
3916	3.150	80.000	5.354	136.000	1.732	44.000
3716	3.150	80.000	5.354	136.000	1.811	46.000
893 16 TN	3.150	80.000	5.512	140.000	1.417	36.000
819	3.150	80.000	5.512	140.000	3.051	77.500
874 16	3.150	80.000	6.693	170.000	1.614	41.000
894 16	3.150	80.000	6.693	170.000	2.126	54.000
1016	3.150	80.000	6.693	170.000	3.465	88.000
516	3.150	80.000	6.693	170.000	3.543	90.000
XW3-1/4	3.250	82.550	4.375	111.130	0.750	19.050
2279	3.250	82.550	4.499	114.262	1.125	28.575
4440	3.250	82.550	4.750	120.650	1.125	28.580
W3-1/4	3.250	82.550	4.813	122.250	1.250	31.750
RT625	3.250	82.550	4.968	126.187	1.000	25.400
B41	3.250	82.550	4.969	126.210	1.125	28.580
D41	3.250	82.550	4.969	126.213	1.000	25.400
FT43	3.250	82.550	4.969	126.213	1.000	25.400
GT43	3.250	82.550	4.969	126.213	1.000	25.400
RTL43	3.250	82.550	4.969	126.213	1.000	25.400
RTW625	3.250	82.550	5.220	132.585	1.313	33.338
RCT27A	3.250	82.550	6.125	155.575	1.500	38.100
RCT27C	3.250	82.550	6.187	157.150	1.750	44.450
MW3-1/4	3.250	82.550	6.188	157.175	2.500	63.500
RWCT27A	3.250	82.550	6.250	158.750	1.500	38.100
RWCT27C	3.250	82.550	6.375	161.925	1.750	44.450
HW3-1/4	3.250	82.550	7.125	180.975	3.375	85.725
51117	3.347	85.000	4.331	110.000	0.748	19.000
811 17 TN	3.347	85.000	4.331	110.000	0.748	19.000
2917	3.347	85.000	4.528	115.000	0.866	22.000
917	3.347	85.000	4.921	125.000	1.201	30.500
51217	3.347	85.000	4.921	125.000	1.221	31.000
812 17 TN	3.347	85.000	4.921	125.000	1.220	31.000



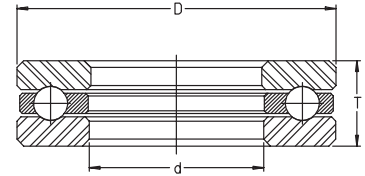
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PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
DL85	3.347	85.000	4.921	125.000	1.339	34.000
4117	3.347	85.000	4.921	125.000	1.496	38.000
DM85	3.347	85.000	5.512	140.000	1.772	45.000
3917	3.347	85.000	5.709	145.000	1.850	47.000
3717	3.347	85.000	5.709	145.000	1.929	49.000
893 17	3.347	85.000	5.906	150.000	1.535	39.000
820	3.347	85.000	5.906	150.000	3.071	78.000
874 17	3.347	85.000	7.087	180.000	1.654	42.000
894 17	3.347	85.000	7.087	180.000	2.283	58.000
1017	3.347	85.000	7.087	180.000	3.228	82.000
517	3.347	85.000	7.087	180.000	3.740	95.000
XW3-3/8	3.375	85.725	4.500	114.300	0.750	19.050
4441	3.375	85.725	4.875	123.820	1.125	28.580
W3-3/8	3.375	85.725	4.938	125.430	1.250	31.750
XW3-1/2	3.500	88.900	4.625	117.480	0.750	19.050
4442	3.500	88.900	5.000	127.000	1.125	28.580
W3-1/2	3.500	88.900	5.063	128.600	1.250	31.750
B42	3.500	88.900	5.219	132.560	1.125	28.580
D42	3.500	88.900	5.219	132.563	1.000	25.400
FT44	3.500	88.900	5.219	132.563	1.000	25.400
GT44	3.500	88.900	5.219	132.563	1.000	25.400
RTL44	3.500	88.900	5.219	132.563	1.000	25.400
RT626	3.500	88.900	5.220	132.575	1.000	25.400
RTW626	3.500	88.900	5.468	138.875	1.313	33.338
RCT27B	3.500	88.900	6.156	156.362	1.625	41.275
RWCT27B	3.500	88.900	6.375	161.925	1.625	41.275
MW3-1/2	3.500	88.900	6.438	163.525	2.500	63.500
RCT28A	3.500	88.900	6.750	171.450	1.625	41.275
RWCT28A	3.500	88.900	6.937	176.200	1.625	41.275
HW3-1/2	3.500	88.900	7.875	200.025	4.000	101.600
2918	3.543	90.000	4.724	120.000	0.866	22.000
51118	3.543	90.000	4.724	120.000	0.866	22.000
811 18 TN	3.543	90.000	4.724	120.000	0.866	22.000
DL90	3.543	90.000	5.276	134.000	1.496	38.000
918	3.543	90.000	5.315	135.000	1.201	30.500
51218	3.543	90.000	5.315	135.000	1.378	35.000
812 18 TN	3.543	90.000	5.315	135.000	1.378	35.000
4118	3.543	90.000	5.315	135.000	1.496	38.000
893 18	3.543	90.000	6.102	155.000	1.535	39.000
3918	3.543	90.000	6.102	155.000	1.969	50.000
3718	3.543	90.000	6.102	155.000	2.047	52.000
821	3.543	90.000	6.102	155.000	3.307	84.000
DM90	3.543	90.000	6.221	158.000	2.047	52.000
874 18	3.543	90.000	7.480	190.000	1.772	45.000
894 18	3.543	90.000	7.480	190.000	2.362	60.000
1018	3.543	90.000	7.480	190.000	3.819	97.000
518	3.543	90.000	7.480	190.000	3.937	100.000



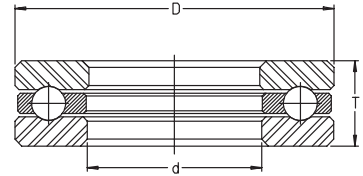
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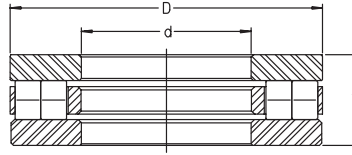
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RCT30B	3.563	90.488	6.375	161.925	1.375	34.925
RWCT30B	3.563	90.488	6.375	161.925	1.375	34.925
XW3-5/8	3.625	92.075	4.750	120.650	0.750	19.050
W3-5/8	3.625	92.075	5.188	131.780	1.250	31.750
4443	3.625	92.075	5.625	142.880	1.375	34.930
2919	3.740	95.000	5.118	130.000	0.984	25.000
919	3.740	95.000	5.512	140.000	1.280	32.500
DL95	3.740	95.000	5.512	140.000	1.496	38.000
4119	3.740	95.000	5.512	140.000	1.614	41.000
DM95	3.740	95.000	6.457	164.000	2.047	52.000
3919	3.740	95.000	6.496	165.000	2.126	54.000
1019	3.740	95.000	7.874	200.000	4.055	103.000
XW3-3/4	3.750	95.250	4.875	123.820	0.750	19.050
2278	3.750	95.250	5.061	128.549	1.281	32.544
W3-3/4	3.750	95.250	5.313	134.950	1.250	31.750
4444	3.750	95.250	5.750	146.050	1.375	34.930
MW3-3/4	3.750	95.250	7.000	177.800	2.813	71.450
RCT34A	3.750	95.250	7.125	180.975	1.875	47.625
RWCT34A	3.750	95.250	7.250	184.150	1.875	47.625
HW3-3/4	3.750	95.250	8.125	206.375	4.000	101.600
XW3-7/8	3.875	98.425	5.000	127.000	0.750	19.050
W3-7/8	3.875	98.425	5.688	144.480	1.375	34.930
4445	3.875	98.425	5.875	149.230	1.375	34.930
2920	3.937	100.000	5.315	135.000	0.984	25.000
51120	3.937	100.000	5.315	135.000	0.984	25.000
811 20 TN	3.937	100.000	5.315	135.000	0.984	25.000
51220	3.937	100.000	5.906	150.000	1.496	38.000
812 20 TN	3.937	100.000	5.906	150.000	1.496	38.000
4120	3.937	100.000	5.906	150.000	1.614	41.000
920	3.937	100.000	5.906	150.000	2.067	52.500
DL100	3.937	100.000	6.063	154.000	1.634	41.500
823	3.937	100.000	6.496	165.000	3.524	89.500
893 20 TN	3.937	100.000	6.693	170.000	1.654	42.000
3920	3.937	100.000	6.772	172.000	2.244	57.000
3720	3.937	100.000	6.772	172.000	2.323	59.000
DM100	3.937	100.000	6.929	176.000	2.185	55.500
874 20	3.937	100.000	8.268	210.000	1.969	50.000
894 20	3.937	100.000	8.268	210.000	2.638	67.000
1020	3.937	100.000	8.465	215.000	4.291	109.000
520	3.937	100.000	8.465	215.000	4.331	110.000
XW4	4.000	101.600	5.250	133.350	0.875	22.225
W4	4.000	101.600	5.813	147.650	1.375	34.930
4446	4.000	101.600	6.000	152.400	1.375	34.925
RT734	4.000	101.600	7.000	177.800	1.750	44.450
MW4	4.000	101.600	7.250	184.150	2.813	71.450
RTW734	4.000	101.600	7.375	187.325	2.312	58.725
RT735	4.000	101.600	8.000	203.200	1.750	44.450



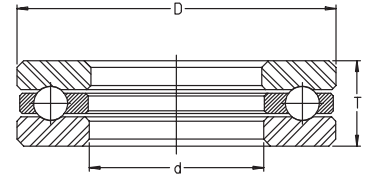
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
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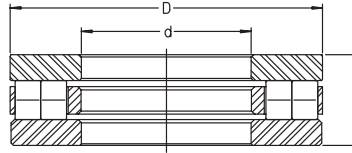
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RTW735	4.000	101.600	8.375	212.725	2.313	58.738
RT736	4.000	101.600	9.000	228.600	1.750	44.450
HW4	4.000	101.600	9.125	231.775	4.500	114.300
RTW736	4.000	101.600	9.375	238.125	2.313	58.738
RT737	4.000	101.600	10.000	254.000	1.750	44.450
RTW737	4.000	101.600	10.500	266.700	2.313	58.738
4447	4.125	104.775	6.134	155.800	1.375	34.930
2921	4.134	105.000	5.512	140.000	0.984	25.000
921	4.134	105.000	6.102	155.000	1.575	40.000
4121	4.134	105.000	6.102	155.000	1.811	46.000
3921	4.134	105.000	7.087	180.000	2.362	60.000
XW4-1/4	4.250	107.950	5.500	139.700	0.875	22.225
4448	4.250	107.950	6.250	158.750	1.375	34.930
W4-1/4	4.250	107.950	6.313	160.350	1.750	44.450
RCT35A	4.250	107.950	8.171	207.543	2.000	50.800
RWCT35A	4.250	107.950	8.375	212.725	2.000	50.800
2922	4.331	110.000	5.709	145.000	0.984	25.000
51122	4.331	110.000	5.709	145.000	0.984	25.000
811 22 TN	4.331	110.000	5.709	145.000	0.984	25.000
51222	4.331	110.000	6.299	160.000	1.496	38.000
812 22 TN	4.331	110.000	6.299	160.000	1.496	38.000
922	4.331	110.000	6.299	160.000	1.575	40.000
4122	4.331	110.000	6.299	160.000	1.811	46.000
825	4.331	110.000	6.890	175.000	3.721	94.500
893 22	4.331	110.000	7.480	190.000	1.890	48.000
3922	4.331	110.000	7.480	190.000	2.480	63.000
3722	4.331	110.000	7.480	190.000	2.559	65.000
874 22	4.331	110.000	9.055	230.000	2.126	54.000
894 22	4.331	110.000	9.055	230.000	2.874	73.000
4449	4.375	111.125	6.375	161.920	1.375	34.930
XW4-1/2	4.500	114.300	5.750	146.050	1.000	25.400
W4-1/2	4.500	114.300	6.500	165.100	1.750	44.450
4450	4.500	114.300	6.750	171.450	1.625	41.280
RCT38A	4.500	114.300	8.125	206.375	2.000	50.800
RWCT38A	4.500	114.300	8.312	211.125	2.000	50.800
MW4-1/2	4.500	114.300	8.375	212.725	3.375	85.725
HW4-1/2	4.500	114.300	10.313	261.950	5.000	127.000
2923	4.528	115.000	5.906	150.000	0.984	25.000
923	4.528	115.000	6.496	165.000	1.693	43.000
4123	4.528	115.000	6.496	165.000	1.929	49.000
3923	4.528	115.000	7.874	200.000	2.598	66.000
1023	4.528	115.000	9.449	240.000	4.685	119.000
523	4.528	115.000	9.449	240.000	4.724	120.000
2284	4.625	117.475	5.997	152.320	1.500	38.100
4451	4.625	117.475	6.875	174.630	1.625	41.280
51124	4.724	120.000	6.102	155.000	0.984	25.000
811 24 TN	4.724	120.000	6.102	155.000	0.984	25.000



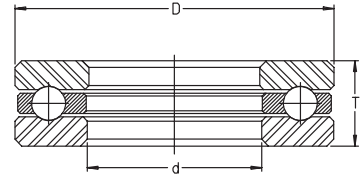
Thrust Bearing Selector

PART NUMBER AND SIZE

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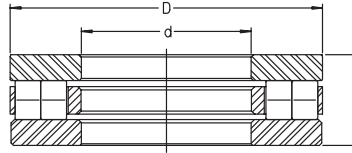
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
2924	4.724	120.000	6.299	160.000	1.063	27.000
51224	4.724	120.000	6.693	170.000	1.535	39.000
812 24 TN	4.724	120.000	6.693	170.000	1.535	39.000
924	4.724	120.000	6.693	170.000	1.693	43.000
4124	4.724	120.000	6.693	170.000	1.929	49.000
828	4.724	120.000	7.874	200.000	4.311	109.500
893 24	4.724	120.000	8.268	210.000	2.126	54.000
3924	4.724	120.000	8.268	210.000	2.717	69.000
3724	4.724	120.000	8.296	210.720	2.835	72.000
874 24	4.724	120.000	9.843	250.000	2.283	58.000
894 24	4.724	120.000	9.843	250.000	3.071	78.000
XW4-3/4	4.750	120.650	6.000	152.400	1.000	25.400
4452	4.750	120.650	7.000	177.800	1.625	41.280
W4-3/4	4.750	120.650	7.063	179.400	2.000	50.800
4453	4.875	123.825	7.125	180.980	1.625	41.280
2925	4.921	125.000	6.496	165.000	1.063	27.000
925	4.921	125.000	6.890	175.000	1.831	46.500
4125	4.921	125.000	6.890	175.000	2.087	53.000
1025	4.921	125.000	10.630	270.000	5.118	130.000
525	4.921	125.000	10.630	270.000	5.118	130.000
XW5	5.000	127.000	6.500	165.100	1.018	25.850
4454	5.000	127.000	7.250	184.150	1.625	41.280
W5	5.000	127.000	7.313	185.750	2.000	50.800
RT738	5.000	127.000	8.000	203.200	1.750	44.450
RTW738	5.000	127.000	8.500	215.900	2.312	58.725
RT739	5.000	127.000	9.000	228.600	1.750	44.450
RCT39A	5.000	127.000	9.156	232.562	2.250	57.150
RWCT39A	5.000	127.000	9.375	238.125	2.250	57.150
RTW739	5.000	127.000	9.500	241.300	2.312	58.725
MW5	5.000	127.000	9.500	241.300	4.000	101.600
RT740	5.000	127.000	10.000	254.000	2.000	50.800
RTW740	5.000	127.000	10.500	266.700	2.625	66.675
RT741	5.000	127.000	11.002	279.451	2.000	50.800
HW5	5.000	127.000	11.438	290.525	5.625	142.875
RTW741	5.000	127.000	11.500	292.100	2.625	66.675
RT742	5.000	127.000	12.000	304.800	2.000	50.800
RTW742	5.000	127.000	12.500	317.500	2.625	66.675
51126	5.118	130.000	6.693	170.000	1.181	30.000
811 26 TN	5.118	130.000	6.693	170.000	1.181	30.000
926	5.118	130.000	7.087	180.000	1.831	46.500
4126	5.118	130.000	7.087	180.000	2.087	53.000
51226	5.118	130.000	7.480	190.000	1.772	45.000
812 26	5.118	130.000	7.480	190.000	1.772	45.000
893 26	5.118	130.000	8.858	225.000	2.283	58.000
874 26	5.118	130.000	10.630	270.000	2.480	63.000
894 26	5.118	130.000	10.630	270.000	3.346	85.000
4455	5.125	130.175	7.375	187.325	1.625	41.275



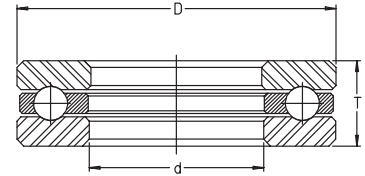
Thrust Bearing Selector

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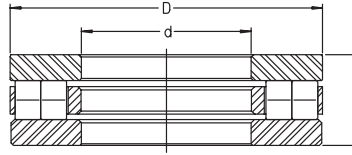
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
XW5-1/4	5.250	133.350	6.750	171.450	1.125	28.580
4456	5.250	133.350	7.500	190.500	1.625	41.280
4457	5.375	136.525	7.625	193.675	1.630	41.400
XW5-1/2	5.500	139.700	7.000	177.800	1.007	25.580
W5-1/2	5.500	139.700	8.063	204.800	2.193	55.700
4458	5.500	139.700	8.250	209.550	1.875	47.630
RCT44A	5.500	139.700	10.100	256.540	2.500	63.500
MW5-1/2	5.500	139.700	10.375	263.525	4.250	107.950
RWCT44A	5.500	139.700	10.500	266.700	2.500	63.500
HW5-1/2	5.500	139.700	11.938	303.225	5.625	142.875
51128	5.512	140.000	7.087	180.000	1.221	31.000
811 28 TN	5.512	140.000	7.087	180.000	1.220	31.000
2928	5.512	140.000	7.284	185.000	1.221	31.000
51228	5.512	140.000	7.874	200.000	1.811	46.000
812 28	5.512	140.000	7.874	200.000	1.811	46.000
928	5.512	140.000	7.874	200.000	2.047	52.000
4128	5.512	140.000	7.874	200.000	2.362	60.000
893 28	5.512	140.000	9.449	240.000	2.362	60.000
874 28	5.512	140.000	11.024	280.000	2.480	63.000
894 28	5.512	140.000	11.024	280.000	3.346	85.000
1028	5.512	140.000	11.811	300.000	5.512	140.000
528	5.512	140.000	11.811	300.000	5.512	140.000
RCT45B	5.563	141.288	11.500	292.100	2.000	50.800
RWCT45B	5.563	141.288	11.500	292.100	2.000	50.800
4459	5.625	142.875	8.375	212.730	1.875	47.630
XW5-3/4	5.750	146.050	7.250	184.150	1.125	28.580
4460	5.750	146.050	8.500	215.900	1.875	47.630
4461	5.875	149.225	8.625	219.080	1.875	47.630
51130	5.906	150.000	7.480	190.000	1.221	31.000
811 30 TN	5.906	150.000	7.480	190.000	1.220	31.000
51230	5.906	150.000	8.465	215.000	1.969	50.000
812 30	5.906	150.000	8.465	215.000	1.969	50.000
930	5.906	150.000	8.661	220.000	2.165	55.000
4130	5.906	150.000	8.661	220.000	2.362	60.000
893 30	5.906	150.000	9.843	250.000	2.362	60.000
874 30	5.906	150.000	11.811	300.000	2.638	67.000
894 30	5.906	150.000	11.811	300.000	3.543	90.000
XW6	6.000	152.400	7.625	193.680	1.250	31.750
W6	6.000	152.400	8.688	220.663	2.375	60.325
4462	6.000	152.400	8.750	222.250	1.875	47.625
RT743	6.000	152.400	9.000	228.600	2.000	50.800
RTW743	6.000	152.400	9.500	241.300	2.625	66.675
RT744	6.000	152.400	10.000	254.000	2.000	50.800
RTW744	6.000	152.400	10.500	266.700	2.625	66.675
RT745	6.000	152.400	11.000	279.400	2.000	50.800
MW6	6.000	152.400	11.125	282.575	4.500	114.300
RCT45A	6.000	152.400	11.156	283.362	3.000	76.200



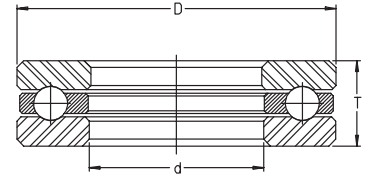
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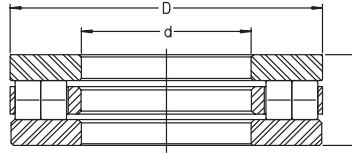
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RWCT45A	6.000	152.400	11.375	288.925	3.000	76.200
RTW745	6.000	152.400	11.500	292.100	2.625	66.675
RT746	6.000	152.400	12.000	304.800	2.000	50.800
RTW746	6.000	152.400	12.500	317.500	2.625	66.675
HW6	6.000	152.400	13.750	349.250	6.750	171.450
4463	6.125	155.575	8.875	225.420	1.875	47.630
4464	6.250	158.750	9.000	228.600	1.875	47.630
51132	6.299	160.000	7.874	200.000	1.221	31.000
811 32	6.299	160.000	7.874	200.000	1.220	31.000
51232	6.299	160.000	8.858	225.000	2.008	51.000
812 32	6.299	160.000	8.858	225.000	2.008	51.000
932	6.299	160.000	9.252	235.000	2.362	60.000
4132	6.299	160.000	9.252	235.000	2.559	65.000
893 32	6.299	160.000	10.630	270.000	2.638	67.000
874 32	6.299	160.000	12.598	320.000	2.874	73.000
894 32	6.299	160.000	12.598	320.000	3.740	95.000
4465	6.375	161.925	9.125	231.770	1.875	47.630
XW6-1/2	6.500	165.100	8.125	206.380	1.250	31.750
W6-1/2	6.500	165.100	9.406	238.910	2.500	63.500
4466	6.500	165.100	9.500	241.300	2.250	57.150
4467	6.625	168.275	9.625	244.480	2.250	57.150
51134	6.693	170.000	8.465	215.000	1.339	34.000
811 34	6.693	170.000	8.465	215.000	1.339	34.000
51234	6.693	170.000	9.449	240.000	2.165	55.000
812 34	6.693	170.000	9.449	240.000	2.165	55.000
934	6.693	170.000	9.843	250.000	2.559	65.000
4134	6.693	170.000	9.843	250.000	2.756	70.000
893 34	6.693	170.000	11.024	280.000	2.638	67.000
874 34	6.693	170.000	13.386	340.000	3.071	78.000
894 34	6.693	170.000	13.386	340.000	4.055	103.000
4468	6.750	171.450	9.750	247.650	2.250	57.150
RCT49A	6.813	173.038	12.750	323.850	2.500	63.500
RWCT49A	6.813	173.038	12.750	323.850	2.500	63.500
XW7	7.000	177.800	8.750	222.250	1.375	34.930
RT747	7.000	177.800	10.000	254.000	2.000	50.800
W7	7.000	177.800	10.125	257.180	2.625	66.680
RTW747	7.000	177.800	10.500	266.700	2.625	66.675
RT748	7.000	177.800	11.000	279.400	2.000	50.800
RTW748	7.000	177.800	11.500	292.100	2.625	66.675
RT749	7.000	177.800	12.000	304.800	2.000	50.800
RTW749	7.000	177.800	12.500	317.500	2.625	66.675
MW7	7.000	177.800	12.750	323.850	5.000	127.000
RT750	7.000	177.800	14.000	355.600	3.000	76.200
RTW750	7.000	177.800	14.750	374.650	4.000	101.600
51136	7.087	180.000	8.858	225.000	1.339	34.000
811 36	7.087	180.000	8.858	225.000	1.339	34.000
51236	7.087	180.000	9.843	250.000	2.205	56.000



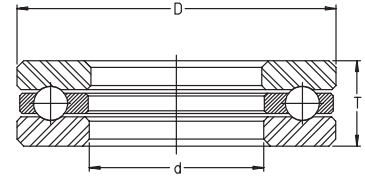
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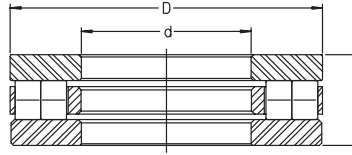
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
812 36	7.087	180.000	9.843	250.000	2.205	56.000
936	7.087	180.000	10.236	260.000	2.559	65.000
4136	7.087	180.000	10.236	260.000	2.756	70.000
893 36	7.087	180.000	11.811	300.000	2.874	73.000
874 36	7.087	180.000	14.173	360.000	3.228	82.000
894 36	7.087	180.000	14.173	360.000	4.291	109.000
51138	7.480	190.000	9.449	240.000	1.457	37.000
811 38	7.480	190.000	9.449	240.000	1.457	37.000
51238	7.480	190.000	10.630	270.000	2.441	62.000
812 38	7.480	190.000	10.630	270.000	2.441	62.000
938	7.480	190.000	10.827	275.000	2.756	70.000
4138	7.480	190.000	10.827	275.000	3.150	80.000
893 38	7.480	190.000	12.598	320.000	3.071	78.000
874 38	7.480	190.000	14.961	380.000	3.346	85.000
894 38	7.480	190.000	14.961	380.000	4.528	115.000
XW7-1/2	7.500	190.500	9.250	234.950	1.375	34.930
W7-1/2	7.500	190.500	10.875	276.220	2.750	69.850
51140	7.874	200.000	9.843	250.000	1.457	37.000
811 40	7.874	200.000	9.843	250.000	1.457	37.000
51240	7.874	200.000	11.024	280.000	2.441	62.000
812 40	7.874	200.000	11.024	280.000	2.441	62.000
940	7.874	200.000	11.417	290.000	2.756	70.000
4140	7.874	200.000	11.417	290.000	3.150	80.000
893 40	7.874	200.000	13.386	340.000	3.346	85.000
874 40	7.874	200.000	15.748	400.000	3.543	90.000
894 40	7.874	200.000	15.748	400.000	4.803	122.000
XW8	8.000	203.200	10.000	254.000	1.500	38.100
W8	8.000	203.200	11.625	295.280	3.000	76.200
RT751	8.000	203.200	12.002	304.851	3.000	76.200
RTW751	8.000	203.200	12.750	323.850	4.000	101.600
RT752	8.000	203.200	14.000	355.600	3.000	76.200
MW8	8.000	203.200	14.375	365.125	5.625	142.875
RTW752	8.000	203.200	14.750	374.650	4.000	101.600
RT753	8.000	203.200	16.000	406.400	3.000	76.200
RTW753	8.000	203.200	16.875	428.625	4.000	101.600
RCT52	8.438	214.313	14.500	368.300	3.000	76.200
RWCT52	8.438	214.313	14.500	368.300	3.000	76.200
XW8-1/2	8.500	215.900	10.500	266.700	1.500	38.100
51144	8.661	220.000	10.630	270.000	1.457	37.000
811 44	8.661	220.000	10.630	270.000	1.457	37.000
51244	8.661	220.000	11.811	300.000	2.480	63.000
812 44	8.661	220.000	11.811	300.000	2.480	63.000
944	8.661	220.000	12.402	315.000	3.150	80.000
894 44	8.661	220.000	16.535	420.000	4.803	122.000
XW9	9.000	228.600	11.250	285.750	1.875	47.625
W9	9.000	228.600	13.125	333.380	3.500	88.900
MW9	9.000	228.600	16.625	422.275	6.750	171.450



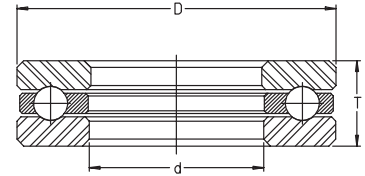
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages.
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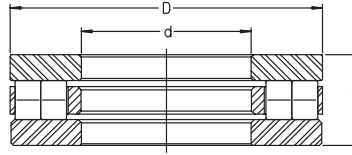
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
RCT54	9.313	236.538	16.500	419.100	3.000	76.200
RWCT54	9.313	236.538	16.500	419.100	3.000	76.200
51148	9.449	240.000	11.811	300.000	1.772	45.000
811 48	9.449	240.000	11.811	300.000	1.772	45.000
51248	9.449	240.000	13.386	340.000	3.071	78.000
812 48	9.449	240.000	13.386	340.000	3.071	78.000
948	9.449	240.000	13.583	345.000	3.347	85.000
894 48	9.449	240.000	17.323	440.000	4.803	122.000
XW9-1/2	9.500	241.300	11.750	298.450	1.875	47.625
XW10	10.000	254.000	12.500	317.500	2.125	53.975
W10	10.000	254.000	14.625	371.475	4.000	101.600
RT754	10.000	254.000	16.000	406.400	3.000	76.200
RTW754	10.000	254.000	16.875	428.625	4.000	101.600
RT755	10.000	254.000	18.000	457.200	3.750	95.250
RTW755	10.000	254.000	18.875	479.425	5.000	127.000
RT756	10.000	254.000	20.000	508.000	3.750	95.250
RTW756	10.000	254.000	20.875	530.225	5.000	127.000
51152	10.236	260.000	12.598	320.000	1.772	45.000
811 52	10.236	260.000	12.598	320.000	1.772	45.000
51252	10.236	260.000	14.173	360.000	3.110	79.000
812 52	10.236	260.000	14.173	360.000	3.110	79.000
952	10.236	260.000	14.764	375.000	3.543	90.000
894 52	10.236	260.000	18.898	480.000	5.197	132.000
XW10-1/2	10.500	266.700	13.000	330.200	2.125	53.975
XW11	11.000	279.400	13.750	349.250	2.375	60.320
W11	11.000	279.400	15.875	403.220	4.250	107.950
51156	11.024	280.000	13.780	350.000	2.087	53.000
811 56	11.024	280.000	13.780	350.000	2.087	53.000
51256	11.024	280.000	14.961	380.000	3.150	80.000
812 56	11.024	280.000	14.961	380.000	3.150	80.000
956	11.024	280.000	15.748	400.000	3.740	95.000
894 56	11.024	280.000	20.472	520.000	5.709	145.000
XW11-1/2	11.500	292.100	14.250	361.950	2.375	60.320
51160	11.811	300.000	14.961	380.000	2.441	62.000
811 60	11.811	300.000	14.961	380.000	2.441	62.000
51260	11.811	300.000	16.535	420.000	3.740	95.000
812 60	11.811	300.000	16.535	420.000	3.740	95.000
960	11.811	300.000	16.929	430.000	4.134	105.000
894 60	11.811	300.000	21.260	540.000	5.709	145.000
XW12	12.000	304.800	15.000	381.000	2.500	63.500
W12	12.000	304.800	17.375	441.330	4.500	114.300
RT757	12.000	304.800	18.000	457.200	3.750	95.250
RTW757	12.000	304.800	18.875	479.425	5.000	127.000
RT758	12.000	304.800	20.000	508.000	4.500	114.300
RTW758	12.000	304.800	20.875	530.225	6.000	152.400
RT759	12.000	304.800	24.000	609.600	4.500	114.300
RTW759	12.000	304.800	24.875	631.825	6.000	152.400



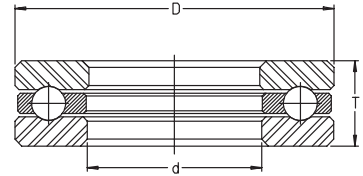
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
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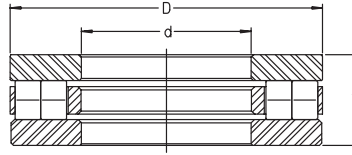
PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
XW12-1/2	12.500	317.500	15.500	393.700	2.625	66.680
51164	12.598	320.000	15.748	400.000	2.480	63.000
811 64	12.598	320.000	15.748	400.000	2.480	63.000
51264	12.598	320.000	17.323	440.000	3.740	95.000
812 64	12.598	320.000	17.323	440.000	3.740	95.000
XW13	13.000	330.200	16.250	412.750	2.750	69.850
51168	13.386	340.000	16.535	420.000	2.520	64.000
811 68	13.386	340.000	16.535	420.000	2.520	64.000
51268	13.386	340.000	18.110	460.000	3.780	96.000
812 68	13.386	340.000	18.110	460.000	3.780	96.000
XW13-1/2	13.500	342.900	16.750	425.450	2.875	73.020
XW14	14.000	355.600	17.500	444.500	3.000	76.200
RT760	14.000	355.600	20.000	508.000	3.750	95.250
RTW760	14.000	355.600	20.875	530.225	4.875	123.825
RT761	14.000	355.600	22.000	558.800	3.750	95.250
RTW761	14.000	355.600	22.875	581.025	4.875	123.825
RT762	14.000	355.600	24.000	609.600	3.750	95.250
RTW762	14.000	355.600	24.875	631.825	4.875	123.825
51172	14.173	360.000	17.323	440.000	2.559	65.000
811 72	14.173	360.000	17.323	440.000	2.559	65.000
51272	14.173	360.000	19.685	500.000	4.331	110.000
812 72	14.173	360.000	19.685	500.000	4.331	110.000
XW14-1/2	14.500	368.300	18.000	457.200	3.125	79.380
811 76	14.961	380.000	18.110	460.000	2.559	65.000
812 76	14.961	380.000	20.472	520.000	4.409	112.000
XW15	15.000	381.000	18.750	476.250	3.250	82.550
XW15-1/2	15.500	393.700	19.250	488.950	3.375	85.730
811 80	15.748	400.000	18.898	480.000	2.559	65.000
812 80	15.748	400.000	21.260	540.000	4.409	112.000
XW16	16.000	406.400	20.000	508.000	3.500	88.900
RT763	16.000	406.400	22.000	558.800	4.500	114.300
RTW763	16.000	406.400	22.875	581.025	6.000	152.400
RT764	16.000	406.400	24.000	609.600	4.500	114.300
RTW764	16.000	406.400	25.000	635.000	6.000	152.400
XW16-1/2	16.500	419.100	20.500	520.700	3.625	92.070
811 84	16.535	420.000	19.685	500.000	2.559	65.000
812 84	16.535	420.000	22.835	580.000	5.118	130.000
XW17	17.000	431.800	21.250	539.750	3.750	95.250
811 88	17.323	440.000	21.260	540.000	3.150	80.000
812 88	17.323	440.000	23.622	600.000	5.118	130.000
XW17-1/2	17.500	444.500	21.750	552.450	3.875	98.430
XW18	18.000	457.200	22.500	571.500	4.000	101.600
811 92	18.110	460.000	22.047	560.000	3.150	80.000
812 92	18.110	460.000	24.409	620.000	5.118	130.000
XW18-1/2	18.500	469.900	23.000	584.200	4.125	104.770
811 96	18.898	480.000	22.835	580.000	3.150	80.000
812 96	18.898	480.000	25.591	650.000	5.315	135.000



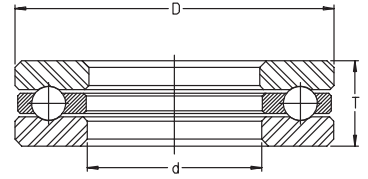
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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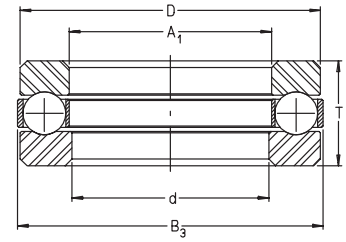
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PART NUMBER	SHAFT inch	SHAFT mm	OD inch	OD mm	WIDTH inch	WIDTH mm
XW19	19.000	482.600	23.750	603.250	4.250	107.950
XW19-1/2	19.500	495.300	24.250	615.950	4.375	111.130
811/500	19.685	500.000	23.622	600.000	3.150	80.000
812/500	19.685	500.000	26.378	670.000	5.315	135.000
XW20	20.000	508.000	24.750	628.650	4.500	114.300
811/530	20.866	530.000	25.197	640.000	3.346	85.000
812/530	20.866	530.000	27.953	710.000	5.512	140.000
811/560	22.047	560.000	26.378	670.000	3.346	85.000
812/560	22.047	560.000	29.528	750.000	5.906	150.000
811/600	23.622	600.000	27.953	710.000	3.346	85.000
812/600	23.622	600.000	31.496	800.000	6.299	160.000

Ball Thrust Bearings

1000 SERIES

- Heavy cross section
- Grooved race
- Single direction
- Available as self-aligning 500/500AW series
- Speed limit shown is for oil lubrication



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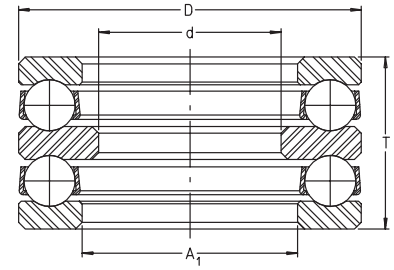
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
1002	0.591	15	1.378	35	0.787	20	0.24	0.109	5060	22500	6970	31000	8000	0.5980	15.189
1003	0.669	17	1.457	37	0.756	19.2	0.23	0.104	5850	26000	8430	37500	7000	0.6770	17.196
1004	0.787	20	1.772	45	0.906	23	0.41	0.188	9330	41500	13490	60000	6000	0.7950	20.193
1005	0.984	25	2.284	58	1.173	29.8	1.00	0.454	14600	65000	22500	100000	4500	0.9920	25.197
1006	1.181	30	2.520	64	1.299	33	1.17	0.529	15700	70000	25000	111000	4000	1.1890	30.201
1007	1.378	35	2.835	72	1.457	37	1.66	0.754	20200	90000	34400	153000	3500	1.3860	35.204
1008	1.575	40	3.347	85	1.634	41.5	2.80	1.270	22000	98000	36600	163000	3200	1.5830	40.208
1009	1.772	45	3.740	95	1.850	47	3.58	1.622	29700	132000	51000	225000	2800	1.7800	45.212
1010	1.969	50	4.331	110	2.165	55	6.51	2.950	41000	181000	71000	315000	2400	1.9760	50.19
1011	2.165	55	4.724	120	2.480	63	7.95	3.605	50000	223000	90000	400000	2200	2.1730	55.194
1012	2.362	60	5.118	130	2.598	66	11.00	4.990	55000	244000	100000	445000	2000	2.3700	60.198
1013	2.559	65	5.512	140	2.874	73	12.35	5.600	60000	265000	111000	495000	1900	2.5670	65.202
1014	2.756	70	5.906	150	3.071	78	14.40	6.530	72000	320000	135000	600000	1700	2.7640	70.206
1015	2.953	75	6.299	160	3.307	84	18.52	8.401	78000	345000	146000	650000	1600	2.9610	75.209
1016	3.150	80	6.693	170	3.465	88	21.50	9.750	92000	410000	173000	770000	1600	3.1570	80.188
1017	3.347	85	7.087	180	3.228	82	22.00	9.978	97000	430000	187000	830000	1500	3.3540	85.192
1018	3.543	90	7.480	190	3.819	97	29.00	13.150	103000	460000	202000	900000	1400	3.5510	90.195
1019	3.740	95	7.874	200	4.055	103	35.16	15.946	119000	530000	234000	1040000	1400	3.7480	95.199
1020	3.937	100	8.465	215	4.291	109	40.00	18.140	144000	640000	283000	1260000	1300	3.9450	100.203
1023	4.528	115	9.449	240	4.685	119	58.94	26.730	169000	750000	360000	1600000	1100	4.5350	115.189
1025	4.921	125	10.630	270	5.118	130	76.07	34.500	205000	910000	450000	2000000	950	4.9290	125.197
1028	5.512	140	11.811	300	5.512	140	107.80	48.888	247000	1100000	549000	2440000	900	5.5200	140.208



Ball Thrust Bearings

1900 SERIES

- Medium cross section
- Grooved race
- Dual direction
- Available in self aligning 800/800AW series
- Speed limit shown is for oil lubrication



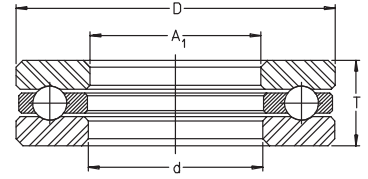
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
1902	0.394	10	1.378	35	0.984	25	0.249	0.113	5,400	24100	7,800	34500	8000	0.590	14.986
1904	0.591	15	1.575	40	0.984	25	0.351	0.159	5,500	24500	8,700	38500	6500	0.795	20.193
1905	0.787	20	1.890	48	1.102	28	0.549	0.249	5,800	26000	10,300	46000	5000	0.992	25.197
1906	0.984	25	2.087	53	1.102	28	0.549	0.249	6,000	26500	11,200	50000	4700	1.189	30.201
1908	1.181	30	2.520	64	1.260	32	0.849	0.385	8,500	38000	17,500	78000	3800	1.583	40.208
1909	1.378	35	2.874	73	1.496	38	1.301	0.59	12,600	56000	27,000	121000	3400	1.780	45.212
1910	1.575	40	3.071	78	1.516	38.5	1.601	0.726	12,100	54000	27,000	121000	3100	1.976	50.19
1911	1.772	45	3.465	88	1.732	44	2.500	1.134	15,700	70000	35,500	158000	2800	2.173	55.194
1912	1.969	50	3.543	90	1.673	42.5	2.000	0.907	12,600	56000	30,500	136000	2600	2.370	60.198
1914	2.165	55	4.055	103	1.890	48	3.001	1.361	16,600	74000	42,000	187000	2300	2.764	70.206
1915	2.362	60	4.331	110	1.890	48	3.400	1.542	17,300	77000	44,500	197000	2400	2.961	75.209
1916	2.559	65	4.528	115	2.028	51.5	3.901	1.769	20,000	89000	51,000	225000	2100	3.157	80.188
1917	2.756	70	4.921	125	2.205	56	4.800	2.177	24,500	109000	62,000	275000	2100	3.354	85.192
1918	2.953	75	5.315	135	2.264	57.5	6.099	2.766	27,500	122000	67,000	300000	1900	3.551	90.195
1919	3.150	80	5.512	140	2.382	60.5	7.001	3.175	30,000	134000	80,000	355000	1800	3.748	95.199
1920	3.347	85	5.906	150	2.402	61	9.100	4.127	31,500	140000	80,000	355000	1700	3.945	100.203
1921	3.543	90	6.102	155	2.835	72	10.200	4.626	38,500	172000	99,000	440000	1600	4.142	105.207
1923	3.937	100	6.496	165	3.051	77.5	13.801	6.259	39,500	175000	106,000	470000	1500	4.535	115.189
1925	4.331	110	6.890	175	3.209	81.5	14.299	6.485	38,000	168000	106,000	470000	1400	4.929	125.197
1926	4.331	110	7.087	180	3.740	95	15.499	7.029	38,000	168000	106,000	470000	1400	5.126	130.2
1928	4.724	120	7.874	200	3.681	93.5	16.701	7.574	53,000	234000	155,000	690000	1200	5.520	140.208

Ball Thrust Bearings

2000 SERIES

- Light/medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

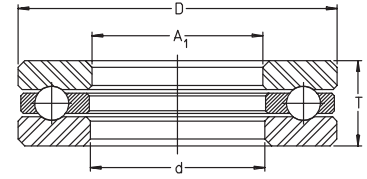
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
2004	0.250	6.350	0.625	15.875	0.438	11.113	0.026	0.012	940	4200	1110	4950	18000
2044	0.313	7.938	0.675	17.145	0.281	7.144	0.018	0.008	980	4350	1240	5500	16000
2003	0.406	10.312	0.750	19.050	0.250	6.350	0.015	0.007	1070	4750	1530	6800	14000
2063	0.438	11.113	0.937	23.800	0.500	12.700	0.064	0.029	1510	6700	2160	9600	11000
2085	0.438	11.113	0.875	22.225	0.250	6.350	0.022	0.010	980	4350	1390	6200	13000
2002	0.500	12.700	0.750	19.050	0.438	11.113	0.026	0.012	540	2380	780	3450	13000
2097	0.500	12.700	0.875	22.225	0.563	14.288	0.057	0.026	1070	4750	1660	7400	11000
2458	0.500	12.700	1.062	26.975	0.312	7.925	0.042	0.019	1460	6500	2160	9600	10000
2006	0.625	15.875	1.000	25.400	0.500	12.700	0.057	0.026	1010	4500	1660	7400	9500
2043	0.625	15.875	1.250	31.750	0.563	14.288	0.115	0.052	2410	10700	3390	15100	8500
2132	0.625	15.875	1.125	28.575	0.563	14.288	0.090	0.041	2070	9200	3130	13900	9000
2005	0.750	19.050	1.250	31.750	0.563	14.288	0.104	0.047	2250	10000	3730	16600	8000
2009	0.750	19.050	1.250	31.750	0.438	11.113	0.077	0.035	2250	10000	3730	16600	8000
2007	0.813	20.638	1.250	31.750	0.500	12.700	0.084	0.038	1750	7800	3240	14400	7500
2011	0.875	22.225	1.375	34.925	0.563	14.288	0.117	0.053	2290	10200	4050	18000	7000
2001	0.938	23.813	1.500	38.100	0.500	12.700	0.119	0.054	2230	9900	4050	18000	6500
2008	1.000	25.400	1.500	38.100	0.625	15.875	0.146	0.066	2230	9900	4050	18000	6500
2010	1.000	25.400	1.750	44.450	0.563	14.288	0.196	0.089	3730	16600	6600	29500	5500
2087	1.000	25.400	1.625	41.275	0.563	14.288	0.165	0.075	4200	18700	7800	34500	6000
2209	1.063	26.988	1.687	42.850	0.625	15.875	0.203	0.092	4700	20900	9400	42000	5500
2024	1.125	28.575	1.875	47.625	0.563	14.288	0.227	0.103	2680	11900	6000	26500	5000
2283	1.188	30.163	1.938	49.212	0.531	13.494	0.207	0.094	3910	17400	7800	34500	4800
2096	1.250	31.750	2.000	50.800	0.813	20.638	0.368	0.167	3910	17400	7800	34500	4800
2092	1.438	36.513	3.250	82.550	1.313	33.338	1.910	0.867	19300	86000	34600	154000	3400
2282	1.625	41.275	2.381	60.477	0.656	16.662	0.350	0.157	4000	17800	8900	39500	3900
2041	1.688	42.863	2.375	60.325	0.563	14.288	0.260	0.120	4000	17800	8900	39500	3800
2023	2.000	50.800	3.500	88.900	1.625	41.275	2.590	1.175	22900	102000	48600	216000	2800
2280	2.000	50.800	3.250	82.550	0.813	20.638	0.900	0.406	9200	41000	22500	100000	2800
2281	2.500	63.500	3.688	93.662	0.938	23.813	1.190	0.541	12400	55000	30600	136000	2600
2279	3.250	82.550	4.499	114.262	1.125	28.575	1.940	0.881	16600	74000	44300	197000	2000
2278	3.750	95.250	5.061	128.549	1.281	32.544	2.710	1.227	17800	79000	51000	227000	1800
2284	4.625	117.475	5.997	152.320	1.500	38.100	4.060	1.840	22000	98000	67400	300000	1500



Ball Thrust Bearings

2900 SERIES

- Light cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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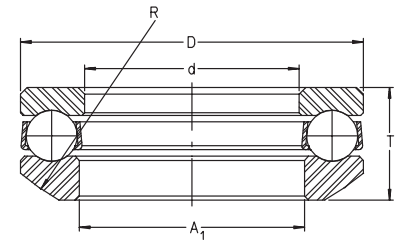
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
2900	0.394	10	1.024	26	0.472	12	0.072	0.033	2630	11700	3395	15100	11000	0.402	10.211
2901	0.472	12	1.102	28	0.472	12	0.082	0.037	2110	9400	3125	13900	9500	0.480	12.192
2902	0.591	15	1.221	31	0.472	12	0.094	0.043	2320	10300	3730	16600	8500	0.598	15.189
2903	0.709	18	1.378	35	0.472	12	0.115	0.052	3350	14900	5960	26500	7500	0.717	18.212
2904	0.787	20	1.457	37	0.472	12	0.121	0.055	3350	14900	5960	26500	7500	0.795	20.193
2904-1/2	0.866	22	1.654	42	0.551	14	0.185	0.084	4900	21800	8430	37500	6000	0.874	22.2
2905	0.984	25	1.772	45	0.551	14	0.203	0.092	5010	22300	9100	40500	5500	0.992	25.197
2906	1.181	30	1.969	50	0.551	14	1.312	0.595	5100	22700	9800	43500	5000	1.189	30.201
2907	1.378	35	2.165	55	0.630	16	0.302	0.137	6200	27500	12100	54000	4400	1.386	35.204
2908	1.575	40	2.362	60	0.630	16	1.605	0.728	5960	26500	12100	54000	4000	1.583	40.208
2909	1.772	45	2.677	68	0.630	16	0.421	0.191	6500	29000	14600	65000	3600	1.780	45.212
2910	1.969	50	2.913	74	0.709	18	0.564	0.256	8300	37000	19800	88000	3200	1.976	50.19
2911	2.165	55	3.071	78	0.709	18	0.582	0.264	8400	37500	21000	93000	3000	2.173	55.194
2912	2.362	60	3.228	82	0.709	18	0.604	0.274	8800	39000	23000	102000	2800	2.370	60.198
2913	2.559	65	3.543	90	0.787	20	0.919	0.417	9700	43000	25000	111000	2600	2.567	65.202
2914	2.756	70	3.740	95	0.787	20	0.871	0.395	10200	45500	27000	122000	2400	2.764	70.206
2915	2.953	75	3.937	100	0.787	20	0.922	0.418	10300	46000	29000	127000	2300	2.961	75.209
2916	3.150	80	4.331	110	0.906	23	1.376	0.624	13500	60000	37000	166000	2100	3.157	80.188
2917	3.347	85	4.528	115	0.866	22	1.369	0.621	11900	53000	35000	156000	2000	3.354	85.192
2918	3.543	90	4.724	120	0.866	22	1.638	0.743	11900	53000	35000	156000	1900	3.551	90.195
2919	3.740	95	5.118	130	0.984	25	2.029	0.920	17800	79000	51000	227000	1800	3.748	95.199
2920	3.937	100	5.315	135	0.984	25	2.119	0.961	17800	79000	53000	237000	1700	3.945	100.203
2921	4.134	105	5.512	140	0.984	25	2.227	1.010	18200	81000	57000	255000	1600	4.142	105.207
2922	4.331	110	5.709	145	0.984	25	2.293	1.040	19100	85000	62000	275000	1600	4.339	110.211
2923	4.528	115	5.906	150	0.984	25	2.368	1.074	18200	81000	57000	255000	1500	4.535	115.189
2924	4.724	120	6.299	160	1.063	27	3.111	1.411	21000	95000	70000	310000	1400	4.732	120.193
2925	4.921	125	6.496	165	1.063	27	3.594	1.630	19800	88000	65000	290000	1400	4.929	125.197
2928	5.512	140	7.284	185	1.221	31	4.611	2.091	27000	121000	90000	400000	1200	5.520	140.208



Ball Thrust Bearings

3700 SERIES

- Medium cross section
- Grooved race
- Single direction
- Static alignment = $\pm 3.0^\circ$
- Available as non aligning 3900 series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

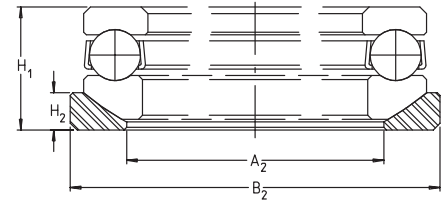
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	SEAT RADIUS R mm	BORE A ₁ inch	BORE A ₁ mm
3705	0.984	25	2.047	52	0.748	19	0.39	0.177	5845	26000	10300	46000	5000	40	1.0240	26
3706	1.181	30	2.362	60	0.827	21	0.578	0.262	7980	35500	15100	67000	4200	45	1.2590	32
3707	1.378	35	2.677	68	0.945	24	0.529	0.240	10800	48000	20500	91000	3900	55	1.4570	37
3708	1.575	40	2.992	76	1.063	27	1.162	0.527	13700	61000	27000	118000	3400	60	1.6540	42
3709	1.772	45	3.347	85	1.181	30	1.499	0.680	17100	76000	34000	150000	3100	65	1.8500	47
3710	1.969	50	3.622	92	1.299	33	2.053	0.931	20700	92000	42000	185000	2800	75	2.0470	52
3711	2.165	55	3.937	100	1.378	35	2.399	1.088	24500	109000	50000	224000	2600	80	2.2440	57
3712	2.362	60	4.173	106	1.457	37	2.928	1.328	24100	107000	50000	224000	2400	85	2.4410	62
3713	2.559	65	4.409	112	1.496	38	3.281	1.488	29000	127000	60000	265000	2300	90	2.6380	67
3714	2.756	70	4.724	120	1.575	40	4.02	1.823	31000	137000	70000	310000	2100	95	2.8350	72
3715	2.953	75	5.039	128	1.693	43	4.922	2.232	36000	158000	82000	365000	2000	105	3.0320	77
3716	3.150	80	5.354	136	1.811	46	5.755	2.610	37000	166000	81000	360000	1900	110	3.2280	82
3717	3.347	85	5.709	145	1.929	49	7.232	3.280	47000	208000	109000	485000	1700	120	3.4650	88
3718	3.543	90	6.102	155	2.047	52	8.522	3.865	47000	211000	107000	475000	1600	125	3.6610	93
3720	3.937	100	6.772	172	2.323	59	11.993	5.439	58000	260000	135000	600000	1500	140	4.0550	103
3722	4.331	110	7.480	190	2.559	65	16.176	7.336	71000	315000	166000	740000	1300	155	4.5280	115
3724	4.724	120	8.296	210.72	2.835	72	23.055	10.456	93000	415000	234000	1040000	1200	170	4.9210	125



Aligning Washers

3700 AW SERIES

- Used with 3700 series aligning seat thrust bearings
- Order bearing separately



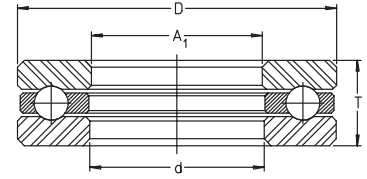
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT A ₂ inch	SHAFT A ₂ mm	OD B ₂ inch	OD B ₂ mm	WIDTH WASHER H ₂ inch	WIDTH WASHER H ₂ mm	WIDTH BEARING H ₁ inch	WIDTH BEARING H ₁ mm	WEIGHT WASHER lbs	WEIGHT WASHER kg
3705AW	1.575	40	2.165	55	0.295	7.5	0.866	22	0.120	0.054
3706AW	1.772	45	2.559	65	0.315	8.0	0.945	24	0.190	0.086
3707AW	2.165	55	2.953	75	0.315	8.0	1.063	27	0.220	0.100
3708AW	2.362	60	3.347	85	0.335	8.5	1.181	30	0.340	0.154
3709AW	2.559	65	3.740	95	0.374	9.5	1.299	33	0.400	0.181
3710AW	2.953	75	3.937	100	0.374	9.5	1.417	36	0.500	0.227
3711AW	3.150	80	4.331	110	0.433	11.0	1.535	39	0.680	0.308
3712AW	3.347	85	4.528	115	0.433	11.0	1.614	41	0.710	0.322
3713AW	3.543	90	4.724	120	0.453	11.5	1.654	42	0.750	0.340
3714AW	3.740	95	5.118	130	0.472	12.0	1.732	44	1.000	0.454
3715AW	4.134	105	5.512	140	0.472	12.0	1.850	47	1.100	0.499
3716AW	4.331	110	5.709	145	0.512	13.0	1.969	50	1.200	0.544
3717AW	4.724	120	6.102	155	0.512	13.0	2.126	54	1.400	0.635
3718AW	4.921	125	6.496	165	0.591	15.0	2.244	57	1.800	0.816
3720AW	5.512	140	7.284	185	0.650	16.5	2.520	64	2.399	1.088
3722AW	6.102	155	8.071	205	0.669	17.0	2.756	70	3.199	1.451
3724AW	6.693	170	8.858	225	0.748	19.0	3.071	78	4.300	1.950

Ball Thrust Bearings

3900 SERIES

- Medium cross section
- Grooved race
- Single direction
- Available as self aligning 3700/3700AW series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

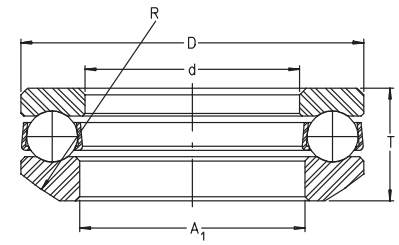
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
3905	0.984	25	2.047	52	0.630	16	0.331	0.150	5845	26000	10300	46000	5000	0.992	25.197
3906	1.181	30	2.362	60	0.748	19	0.516	0.234	7980	35500	15100	67000	4200	1.189	30.201
3907	1.378	35	2.677	68	0.906	23	0.807	0.366	10800	48000	20500	91000	3900	1.386	35.204
3908	1.575	40	2.992	76	0.984	25	1.2	0.544	13700	61000	27000	118000	3400	1.583	40.208
3909	1.772	45	3.347	85	1.102	28	1.499	0.680	17100	76000	34000	150000	3100	1.780	45.212
3910	1.969	50	3.622	92	1.221	31	2.205	1.000	20900	93000	42000	185000	2800	1.976	50.19
3911	2.165	55	3.937	100	1.299	33	2.384	1.081	22300	99000	46000	204000	2600	2.173	55.194
3912	2.362	60	4.173	106	1.378	35	3.197	1.450	24000	107000	50000	224000	2400	2.370	60.198
3913	2.559	65	4.409	112	1.417	36	3.12	1.415	29000	127000	60000	265000	2300	2.567	65.202
3914	2.756	70	4.724	120	1.496	38	4.3	1.950	31000	137000	70000	310000	2100	2.764	70.206
3915	2.953	75	5.039	128	1.614	41	4.728	2.144	36000	158000	82000	365000	2000	2.961	75.209
3916	3.150	80	5.354	136	1.732	44	6.196	2.810	37000	166000	81000	360000	1900	3.157	80.188
3917	3.347	85	5.709	145	1.850	47	7.001	3.175	47000	208000	109000	485000	1700	3.354	85.192
3918	3.543	90	6.102	155	1.969	50	9.393	4.260	47000	211000	107000	475000	1600	3.551	90.195
3919	3.740	95	6.496	165	2.126	54	10.222	4.636	53000	235000	119000	530000	1500	3.748	95.199
3920	3.937	100	6.772	172	2.244	57	13.098	5.940	58000	260000	135000	600000	1500	3.945	100.203
3921	4.134	105	7.087	180	2.362	60	13.622	6.178	72000	320000	166000	740000	1400	4.142	105.207
3922	4.331	110	7.480	190	2.480	63	17.794	8.070	71000	315000	166000	740000	1300	4.339	110.211
3923	4.528	115	7.874	200	2.598	66	18.604	8.437	85000	380000	200000	890000	1300	4.535	115.189
3924	4.724	120	8.268	210	2.717	69	23.505	10.660	93000	415000	234000	1040000	1200	4.732	120.193



Ball Thrust Bearings

4100 SERIES

- Medium cross section
- Grooved race
- Single direction
- Static alignment $\pm 3.0^\circ$
- Available in non aligning 900 series
- Speed limit shown is for oil lubrication



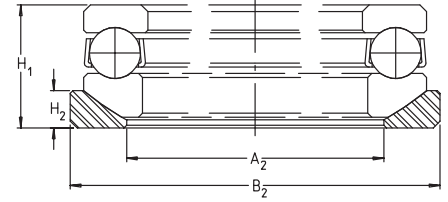
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT	SEAL RADIUS R	BORE A ₁
	d	d	D	D	T	T								R	A ₁
	inch	mm	inch	mm	inch	mm	lbs	kg	lbf	N	lbf	N	rpm	mm	inch
4100	0.394	10	0.984	25	0.556	14	0.079	0.036	2650	11800	3390	15100	11000	25	0.4720
4102	0.591	15	1.378	35	0.591	15	0.154	0.07	4340	19300	6290	28000	8000	30	0.6690
4104	0.787	20	1.575	40	0.630	16	0.201	0.091	4450	19800	6970	31000	6500	35	0.8660
4105	0.984	25	1.890	48	0.669	17	0.293	0.133	5850	26000	10340	46000	5000	35	1.0630
4106	1.181	30	2.087	53	0.709	18	0.331	0.15	5960	26500	11240	50000	4700	40	1.2600
4107	1.378	35	2.441	62	0.827	21	0.562	0.255	7980	35500	15100	67000	4200	50	1.4570
4108	1.575	40	2.520	64	0.827	21	0.490	0.222	8540	38000	17500	78000	3800	50	1.6540
4109	1.772	45	2.874	73	0.984	25	0.900	0.408	10680	47500	23400	104000	3400	60	1.8500
4110	1.969	50	3.071	78	0.984	25	0.849	0.385	12100	54000	27000	121000	3100	65	2.0470
4111	2.165	55	3.465	88	1.102	28	1.422	0.645	15700	70000	36000	158000	2800	70	2.2440
4112	2.362	60	3.543	90	1.102	28	1.200	0.544	12600	56000	31000	136000	2600	75	2.4410
4113	2.559	65	3.937	100	1.260	32	1.985	0.9	14800	66000	36000	158000	2400	80	2.6380
4114	2.756	70	4.055	103	1.260	32	1.799	0.816	16600	74000	42000	187000	2300	85	2.8350
4115	2.953	75	4.331	110	1.260	32	2.262	1.026	16900	75000	44000	197000	2100	90	3.0320
4116	3.150	80	4.528	115	1.378	35	2.300	1.043	20000	89000	51000	225000	2100	95	3.2280
4117	3.347	85	4.921	125	1.496	38	3.493	1.584	24000	107000	62000	275000	1900	105	3.4650
4118	3.543	90	5.315	135	1.496	38	3.601	1.633	27000	120000	67000	300000	1800	110	3.6620
4119	3.740	95	5.512	140	1.614	41	4.736	2.148	30000	132000	80000	355000	1700	125	3.8580
4120	3.937	100	5.906	150	1.614	41	4.900	2.222	31000	137000	80000	355000	1600	125	4.0550
4121	4.134	105	6.102	155	1.811	46	6.476	2.937	38000	169000	99000	440000	1500	130	4.2520
4122	4.331	110	6.299	160	1.811	46	6.800	3.084	39000	172000	106000	470000	1500	135	4.4490
4123	4.528	115	6.496	165	1.929	49	7.512	3.407	39000	172000	106000	470000	1400	140	4.6460
4124	4.724	120	6.693	170	1.929	49	7.887	3.577	41000	181000	117000	520000	1400	140	4.8430
4125	4.921	125	6.890	175	2.087	53	8.910	4.041	41000	181000	117000	520000	1300	150	5.0390
4126	5.118	130	7.087	180	2.087	53	8.996	4.080	37000	165000	106000	470000	1300	155	5.2360
4128	5.512	140	7.874	200	2.362	60	13.614	6.174	53000	234000	155000	690000	1200	170	5.6300
4130	5.906	150	8.661	220	2.362	60	16.500	7.483	63000	280000	180000	800000	1100	185	6.0630
4132	6.299	160	9.252	235	2.559	65	20.910	9.483	73000	325000	225000	1000000	1000	198	6.4570
4134	6.693	170	9.843	250	2.756	70	25.569	11.596	81000	360000	250000	1110000	950	210	6.8500
4136	7.087	180	10.236	260	2.756	70	26.771	12.141	88000	390000	277000	1230000	900	220	7.2440
4138	7.480	190	10.827	275	3.150	80	34.885	15.821	97000	430000	306000	1360000	850	235	7.6380
4140	7.874	200	11.417	290	3.150	80	38.398	17.414	105000	465000	335000	1490000	800	245	8.3020

Aligning Washers

4100 AW SERIES

- Used with 4100 series ball thrust bearings
- Order bearing separately



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

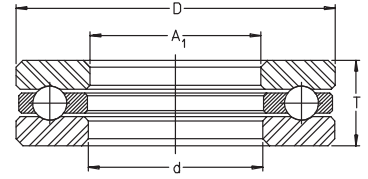
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WIDTH	WIDTH	WEIGHT	WEIGHT
	A ₂	A ₂	B ₂	B ₂	WASHER	WASHER	BEARING	BEARING	WASHER	WASHER
	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
4100AW	0.551	14	1.378	35	0.138	3.5	0.591	15	0.030	0.014
4102AW	0.748	19	1.496	38	0.197	5.0	0.669	17	0.050	0.023
4104AW	0.984	25	1.772	45	0.217	5.5	0.709	18	0.080	0.036
4105AW	1.339	34	0.197	5	0.236	6.0	0.748	19	0.070	0.032
4106AW	1.673	43	2.323	59	0.236	6.0	0.787	20	0.130	0.059
4107AW	1.693	43	2.638	67	0.276	7.0	0.906	23	0.160	0.073
4108AW	1.890	48	2.717	69	0.276	7.0	0.906	23	0.150	0.068
4109AW	2.087	53	3.071	78	0.315	8.0	1.063	27	0.240	0.109
4110AW	2.284	58	3.268	83	0.315	8.0	1.063	27	0.260	0.118
4111AW	2.598	66	3.701	94	0.315	8.0	1.181	30	0.310	0.141
4112AW	2.717	69	3.780	96	0.315	8.0	1.181	30	0.310	0.141
4113AW	2.913	74	4.134	105	0.354	9.0	1.339	34	0.420	0.191
4114AW	3.110	79	4.291	109	0.354	9.0	1.339	34	0.420	0.191
4115AW	3.307	84	4.488	114	0.394	10.0	1.339	34	0.420	0.191
4116AW	3.504	89	4.882	124	0.394	10.0	1.457	37	0.660	0.299
4117AW	3.780	96	5.433	138	0.413	10.5	1.575	40	0.950	0.431
4118AW	4.201	107	5.551	141	0.413	10.5	1.575	40	0.770	0.349
4119AW	4.213	107	5.945	151	0.492	12.5	1.732	44	1.200	0.544
4120AW	4.409	112	6.142	156	0.512	13.0	1.732	44	1.500	0.680
4121AW	4.646	118	6.417	163	0.551	14.0	1.929	49	1.600	0.726
4122AW	4.921	125	6.693	170	0.551	14.0	1.929	49	1.800	0.816
4123AW	5.039	128	6.811	173	0.551	14.0	2.047	52	1.800	0.816
4124AW	5.394	137	7.087	180	0.551	14.0	2.047	52	1.800	0.816
4125AW	5.472	139	7.323	186	0.551	14.0	2.205	56	1.800	0.816
4126AW	5.709	145	7.480	190	0.551	14.0	2.205	56	2.000	0.907
4128AW	6.102	155	8.347	212	0.610	15.5	2.441	62	3.100	1.406
4132AW	7.087	180	9.252	235	0.709	18.0	2.756	70	5.499	2.494
4130AW	7.165	182	8.663	220	0.630	16.0	2.559	65	5.499	2.494
4134AW	7.480	190	9.843	250	0.787	20.0	2.953	75	5.499	2.494
4136AW	7.953	202	10.236	260	0.748	19.0	2.953	75	6.600	2.993
4138AW	8.386	213	10.827	275	0.945	24.0	3.386	86	6.600	2.993
4140AW	8.819	224	11.417	290	0.866	22.0	3.386	86	6.600	2.993



Ball Thrust Bearings

4400 SERIES

- Medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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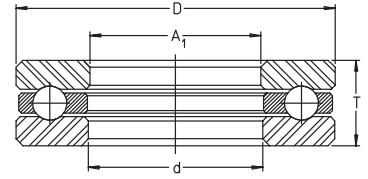
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
4401	0.500	12.700	1.438	36.513	0.625	15.875	0.19	0.086	3170	14100	4430	19700	8000	0.531	13.487
4402	0.563	14.288	1.438	36.530	0.625	15.875	0.185	0.084	3170	14100	4430	19700	8000	0.594	15.088
4403	0.625	15.875	1.563	39.700	0.625	15.875	0.218	0.099	3510	15600	5530	24600	7000	0.656	16.662
4404	0.688	17.463	1.563	39.700	0.625	15.875	0.212	0.096	3510	15600	5530	24600	7000	0.719	18.263
4405	0.750	19.050	1.688	42.880	0.630	16.000	0.247	0.112	3840	17100	6630	29500	6500	0.781	19.837
4406	0.813	20.638	1.688	42.880	0.625	15.875	0.236	0.107	3840	17100	6630	29500	6500	0.844	21.438
4407	0.875	22.225	1.938	49.230	0.750	19.050	0.39	0.177	5850	26000	10340	46000	5000	0.906	23.012
4408	0.938	23.813	1.938	49.230	0.750	19.050	0.377	0.171	5850	26000	10340	46000	5000	0.969	24.613
4409	1.000	25.400	2.063	52.400	0.750	19.050	0.419	0.190	5850	26000	10340	46000	5000	1.031	26.187
4410	1.063	26.988	2.063	52.400	0.750	19.050	0.404	0.183	5850	26000	10340	46000	5000	1.094	27.788
4411	1.125	28.575	2.188	55.580	0.750	19.050	0.454	0.206	5960	26500	11240	50000	4700	1.156	29.362
4412	1.188	30.163	2.188	55.580	0.750	19.050	0.437	0.198	5960	26500	11240	50000	4700	1.219	30.963
4413	1.250	31.750	2.313	58.750	0.750	19.050	0.483	0.219	5960	26500	11240	50000	4700	1.281	32.537
4414	1.313	33.338	2.313	58.750	0.750	19.050	0.47	0.213	6180	27500	12100	54000	4400	1.344	34.138
4415	1.375	34.925	2.438	61.930	0.750	19.050	0.509	0.231	5960	26500	12100	54000	4000	1.406	35.712
4416	1.438	36.513	2.438	61.930	0.750	19.050	0.498	0.226	5960	26500	12100	54000	4000	1.469	37.313
4417	1.500	38.100	2.563	65.100	0.750	19.050	0.556	0.252	6410	28500	13900	62000	3800	1.531	38.887
4418	1.563	39.688	2.563	65.100	0.750	19.050	0.534	0.242	6410	28500	13900	62000	3800	1.594	40.488
4419	1.625	41.275	2.813	71.450	0.875	22.225	0.809	0.367	10680	47500	23400	104000	3400	1.656	42.062
4420	1.688	42.863	2.813	71.450	0.875	22.225	0.783	0.355	10680	47500	23400	104000	3400	1.719	43.663
4421	1.750	44.450	2.938	74.630	0.875	22.225	0.851	0.386	9440	42000	21100	94000	3300	1.781	45.237
4422	1.813	46.038	2.938	74.630	0.875	22.225	0.822	0.373	9440	42000	21100	94000	3300	1.844	46.838
4423	1.875	47.625	3.063	77.800	0.875	22.225	0.889	0.403	9440	42000	21100	94000	3300	1.906	48.412
4424	1.938	49.213	3.063	77.800	0.875	22.225	0.878	0.398	6970	31000	17300	77000	3000	1.969	50.013
4425	2.000	50.800	3.188	80.980	0.875	22.225	0.953	0.432	6970	31000	17300	77000	3000	2.031	51.587
4426	2.063	52.388	3.188	80.980	0.875	22.225	0.917	0.416	6970	31000	17300	77000	3000	2.094	53.188
4427	2.125	53.975	3.313	84.150	0.875	22.225	0.97	0.440	9220	41000	22500	100000	2800	2.156	54.762
4428	2.188	55.563	3.313	84.138	0.875	22.225	0.937	0.425	9220	41000	22500	100000	2800	2.219	56.363
4429	2.250	57.150	3.438	87.330	0.880	22.360	1.019	0.462	9220	41000	22500	100000	2800	2.281	57.937
4430	2.313	58.738	3.438	87.330	0.875	22.225	1.001	0.454	8770	39000	22900	102000	2800	2.344	59.538
4431	2.375	60.325	3.563	90.500	0.875	22.225	1.001	0.454	8990	40000	22500	100000	2600	2.406	61.112
4432	2.438	61.913	3.563	90.500	0.875	22.225	1.01	0.458	8990	40000	22500	100000	2600	2.469	62.713
4433	2.500	63.500	4.000	101.600	1.125	28.580	1.881	0.853	14800	66000	36000	158000	2400	2.531	64.287
4434	2.563	65.088	4.000	101.600	1.125	28.580	1.83	0.830	14800	66000	36000	158000	2400	2.594	65.888
4435	2.625	66.675	4.125	104.770	1.125	28.580	1.998	0.906	16600	74000	42000	187000	2300	2.656	67.462
4436	2.750	69.850	4.250	107.950	1.125	28.580	2.059	0.934	16600	74000	42000	187000	2300	2.781	70.637
4437	2.938	74.613	4.438	112.730	1.125	28.580	2.17	0.984	16900	75000	44000	197000	2100	2.969	75.413
4438	3.000	76.200	4.500	114.300	1.125	28.580	2.201	0.998	16900	75000	44000	197000	2100	3.031	76.987
4439	3.125	79.375	4.625	117.480	1.125	28.580	2.26	1.025	16600	74000	44000	197000	2000	3.156	80.162
4440	3.250	82.550	4.750	120.650	1.125	28.580	2.322	1.053	16600	74000	44000	197000	2000	3.281	83.337
4441	3.375	85.725	4.875	123.820	1.125	28.580	2.388	1.083	24100	107000	62000	275000	1900	3.406	86.512
4442	3.500	88.900	5.000	127.000	1.125	28.580	2.498	1.133	17800	79000	51000	227000	1800	3.531	89.687
4443	3.625	92.075	5.625	142.880	1.375	34.930	3.991	1.810	30000	132000	80000	355000	1700	3.656	92.862
4444	3.750	95.250	5.750	146.050	1.375	34.930	4.434	2.011	30000	132000	80000	355000	1700	3.781	96.037
4445	3.875	98.425	5.875	149.230	1.375	34.930	4.807	2.180	24000	107000	70000	310000	1600	3.906	99.212
4446	4.000	101.600	6.000	152.400	1.375	34.925	4.648	2.108	24000	107000	70000	310000	1600	4.031	102.387



Ball Thrust Bearings

4400 SERIES

- Medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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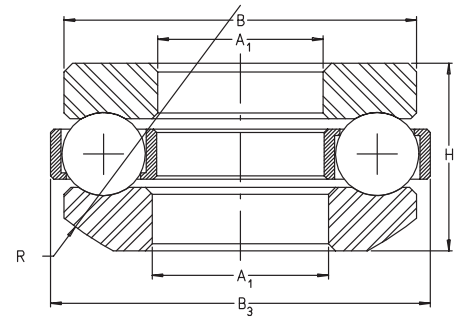
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
4447	4.125	104.775	6.134	155.800	1.375	34.930	5.204	2.360	24000	107000	70000	310000	1500	4.156	105.562
4448	4.250	107.950	6.250	158.750	1.375	34.930	4.844	2.197	24000	107000	70000	310000	1500	4.281	108.737
4449	4.375	111.125	6.375	161.920	1.375	34.930	5.601	2.540	24000	107000	70000	310000	1500	4.406	111.912
4450	4.500	114.300	6.750	171.450	1.625	41.280	7.071	3.207	34000	153000	100000	445000	1400	4.531	115.087
4451	4.625	117.475	6.875	174.630	1.625	41.280	8.092	3.670	34000	153000	100000	445000	1400	4.656	118.262
4452	4.750	120.650	7.000	177.800	1.625	41.280	7.332	3.325	34000	153000	100000	445000	1300	4.781	121.437
4453	4.875	123.825	7.125	180.980	1.625	41.280	8.71	3.950	33000	149000	100000	445000	1300	4.906	124.612
4454	5.000	127.000	7.250	184.150	1.625	41.280	7.59	3.442	33000	149000	100000	445000	1300	5.031	127.787
4455	5.125	130.175	7.375	187.325	1.625	41.275	8.996	4.080	36000	159000	110000	490000	1300	5.156	130.962
4456	5.250	133.350	7.500	190.500	1.625	41.280	7.973	3.616	36000	159000	110000	490000	1200	5.281	134.137
4457	5.375	136.525	7.625	193.675	1.630	41.400	8.134	3.689	36000	159000	110000	490000	1200	5.406	137.312
4458	5.500	139.700	8.250	209.550	1.875	47.630	11.993	5.439	53000	234000	155000	690000	1200	5.531	140.487
4459	5.625	142.875	8.375	212.730	1.875	47.630	12.167	5.518	51000	228000	155000	690000	1100	5.656	143.662
4460	5.750	146.050	8.500	215.900	1.875	47.630	12.319	5.587	44000	197000	135000	600000	1100	5.781	146.837
4461	5.875	149.225	8.625	219.080	1.875	47.630	12.5	5.669	44000	197000	135000	600000	1100	5.906	150.012
4462	6.000	152.400	8.750	222.250	1.875	47.625	12.679	5.750	44000	197000	135000	600000	1100	6.031	153.187
4463	6.125	155.575	8.875	225.420	1.875	47.630	13.06	5.923	47000	210000	148000	660000	1000	6.156	156.362
4464	6.250	158.750	9.000	228.600	1.875	47.630	13.241	6.005	46000	204000	148000	660000	1000	6.281	159.537
4465	6.375	161.925	9.125	231.770	1.875	47.630	13.422	6.087	46000	204000	148000	660000	1000	6.406	162.712
4466	6.500	165.100	9.500	241.300	2.250	57.150	18.579	8.426	56000	250000	178000	790000	1000	6.531	165.887
4467	6.625	168.275	9.625	244.480	2.250	57.150	18.826	8.538	56000	250000	178000	790000	950	6.656	169.062
4468	6.750	171.450	9.750	247.650	2.250	57.150	19.367	8.783	60000	265000	196000	870000	950	6.781	172.237



Ball Thrust Bearings

500 SERIES

- Heavy cross section
- Grooved race
- Single direction
- Static Alignment = $\pm 3.0^\circ$
- Available as non aligning 1000 series
- Speed limit shown is for oil lubrication



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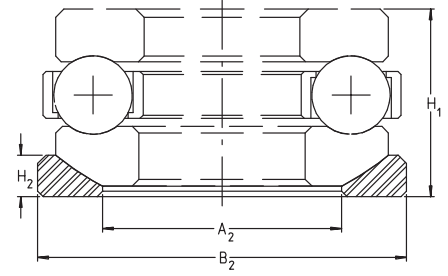
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN.	DYN.	STAT.	STAT.	SPEED	SEAT	BORE	BORE
	d	d	D	D	T	T			CAP.	CAP.	CAP.	CAP.	LIMIT	RADIUS	A ₁	A ₁
	inch	mm	inch	mm	inch	mm	lbs	kg	lbf	N	lbf	N	rpm	mm	inch	mm
502	0.591	15	1.378	35	0.787	20	0.271	0.123	5060	22.5	6970	31	8000	30	0.669	17
503	0.669	17	1.457	37	0.787	20	0.24	0.109	7190	32	10000	44.5	7500	35	0.749	19
504	0.787	20	1.772	45	0.945	24	0.437	0.198	9330	41.5	13500	60	6000	40	0.867	22
505	0.984	25	2.284	58	1.181	30	0.891	0.404	14600	65	22500	100	4500	45	1.063	27
506	1.181	30	2.520	64	1.339	34	1.211	0.549	14200	63	25000	111	4000	50	1.260	32
507	1.378	35	2.835	72	1.496	38	1.704	0.773	22500	100	38000	168	3500	60	1.457	37
508	1.575	40	3.347	85	1.732	44	2.706	1.227	20000	89	37000	163	3200	70	1.654	42
509	1.772	45	3.740	95	1.969	50	3.808	1.727	32000	142	54000	241	2800	80	1.850	47
510	1.969	50	4.331	110	2.205	56	5.883	2.668	41000	181	71000	315	2400	90	2.074	53
511	2.165	55	4.724	120	2.520	64	7.942	3.602	50000	223	90000	400	2200	100	2.283	58
512	2.362	60	5.118	130	2.677	68	9.786	4.438	56000	249	100000	445	2100	110	2.480	63
513	2.559	65	5.512	140	2.913	74	12.557	5.695	60000	265	111000	495	1900	125	2.677	68
514	2.756	70	5.906	150	3.150	80	15.331	6.953	72000	320	135000	600	1700	140	2.874	73
515	2.953	75	6.299	160	3.268	83	18.253	8.278	78000	345	146000	650	1700	150	3.071	78
516	3.150	80	6.693	170	3.543	90	22.043	9.997	92000	410	173000	770	1600	155	3.268	83
517	3.347	85	7.087	180	3.740	95	26.478	12.008	97000	430	187000	830	1500	160	3.465	88
518	3.543	90	7.480	190	3.937	100	30.299	13.741	103000	460	202000	900	1400	165	3.661	93
520	3.937	100	8.465	215	4.331	110	43.941	19.928	144000	640	283000	1260	1300	180	4.055	103
523	4.528	115	9.449	240	4.724	120	58.355	26.465	169000	750	360000	1600	1100	200	4.646	118
525	4.921	125	10.630	270	5.118	130	82.072	37.221	209000	930	450000	2000	1000	230	5.039	128
528	5.512	140	11.811	300	5.512	140	105.644	47.911	247000	1100	549000	2440	900	260	5.630	143



Aligning Washers

500 AW SERIES

- Used with 500 series aligning seat thrust bearings
- Order bearing separately



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

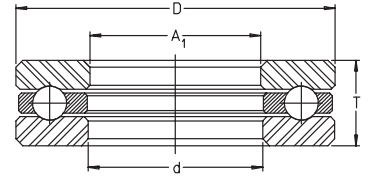
PART NUMBER	SHAFT A ₂ inch	SHAFT A ₂ mm	OD B ₂ inch	OD B ₂ mm	WIDTH WASHER H ₂ inch	WIDTH WASHER H ₂ mm	WIDTH BEARING H ₁ inch	WIDTH BEARING H ₁ mm	WEIGHT WASHER lbs	WEIGHT WASHER kg
502AW	0.866	22	1.752	44.5	0.217	5.5	0.866	22.000	0.071	0.032
503AW	0.866	22	1.752	44.5	0.217	5.5	0.866	22.000	0.090	0.041
504AW	1.181	30	1.969	50	0.236	6	1.024	26.000	0.090	0.041
505AW	1.614	41	2.480	63	0.295	7.5	1.260	32.000	0.170	0.077
506AW	1.811	46	2.795	71	0.315	8	1.417	36.000	0.229	0.104
507AW	2.008	51	3.110	79	0.354	9	1.614	41.000	0.331	0.150
508AW	2.362	60	3.740	95	0.413	10.5	1.850	47.000	0.580	0.263
509AW	2.598	66	4.370	111	0.453	11.5	2.087	53.000	0.959	0.435
510AW	3.032	77	5.000	127	0.512	13	2.323	59.000	1.400	0.635
511AW	3.228	82	5.591	142	0.551	14	2.638	67.000	2.000	0.907
512AW	3.661	93	5.906	150	0.551	14	2.795	71.000	2.000	0.907
513AW	3.661	93	6.221	158	0.610	15.5	3.032	77.000	2.500	1.134
514AW	4.055	103	7.087	180	0.630	16	3.307	84.000	3.799	1.723
515AW	4.449	113	7.480	190	0.630	16	3.543	90.000	4.000	1.814
516AW	4.803	122	7.874	200	0.669	17	3.701	94.000	4.600	2.086
517AW	4.921	125	8.268	210	0.787	20	3.937	100.000	6.000	2.721
518AW	5.039	128	8.740	222	0.827	21	4.095	104.000	7.100	3.220
520AW	5.984	152	10.000	254	0.886	22.5	4.488	114.000	9.601	4.354
523AW	6.870	174.5	10.827	275	0.984	25	4.921	125.000	11.9	5.397
525AW	7.697	195.5	12.205	310	1.063	27	5.315	135.000	16.0	7.256
528AW	8.858	225	13.386	340	1.063	27	5.709	145.000	18.0	8.163



Ball Thrust Bearings

51100 SERIES

- Light cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



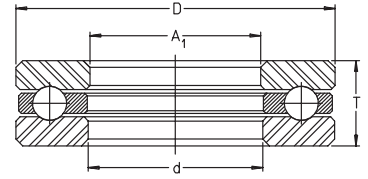
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
51100	0.394	10	0.945	24	0.354	9	0.042	0.019	1910	8.5	2500	11.1	11000	0.433	10.998
51101	0.472	12	1.024	26	0.354	9	0.049	0.022	2180	9.7	3130	13.9	11000	0.512	13.005
51102	0.591	15	1.102	28	0.354	9	0.051	0.023	2360	10.5	3730	16.6	9500	0.630	16.002
51103	0.669	17	1.181	30	0.354	9	0.055	0.025	2290	10.2	3730	16.6	8500	0.709	18.009
51104	0.787	20	1.378	35	0.394	10	0.084	0.038	3350	14.9	5960	26.5	7500	0.827	21.006
51105	0.984	25	1.654	42	0.433	11	0.126	0.057	4200	18.7	7760	34.5	6000	1.024	26.01
51106	1.181	30	1.850	47	0.433	11	0.106	0.048	4360	19.4	8880	39.5	5000	1.220	30.988
51107	1.378	35	2.087	53	0.472	12	0.194	0.088	4180	18.6	9220	41	4500	1.417	35.992
51107X	1.378	35	2.047	52	0.472	12	0.183	0.083	4180	18.6	9220	41	4600	1.417	35.992
51108	1.575	40	2.362	60	0.512	13	0.26	0.118	5600	24.9	12600	56	4000	1.654	42.012
51109	1.772	45	2.559	65	0.551	14	0.315	0.143	5850	26	13900	62	3600	1.850	46.99
51110	1.969	50	2.756	70	0.551	14	0.346	0.157	6070	27	15500	69	3300	2.047	51.994
51111	2.165	55	3.071	78	0.630	16	0.496	0.225	6970	31	17300	77	3000	2.244	56.998
51112	2.362	60	3.347	85	0.669	17	0.631	0.286	8770	39	22900	102	2800	2.441	62.001
51113	2.559	65	3.543	90	0.709	18	0.708	0.321	9670	43	25000	111	2600	2.638	67.005
51114	2.756	70	3.740	95	0.709	18	0.759	0.344	10200	45.5	27000	122	2400	2.835	72.009
51115	2.953	75	3.937	100	0.748	19	0.862	0.391	10300	46	29000	127	2300	3.031	76.987
51116	3.150	80	4.134	105	0.748	19	0.931	0.422	9400	42	29000	130	2200	3.228	81.991
51117	3.347	85	4.331	110	0.748	19	0.972	0.441	9400	42	29000	130	2100	3.465	88.011
51118	3.543	90	4.724	120	0.866	22	1.424	0.646	11900	53	35000	156	1900	3.661	92.989
51120	3.937	100	5.315	135	0.984	25	2.119	0.961	17800	79	53000	237	1700	4.055	102.997
51122	4.331	110	5.709	145	0.984	25	2.335	1.059	19100	85	62000	275	1600	4.449	113.005
51124	4.724	120	6.102	155	0.984	25	2.476	1.123	18700	83	62000	275	1500	4.843	123.012
51126	5.118	130	6.693	170	1.181	30	3.74	1.696	22500	100	73000	325	1300	5.236	132.994
51128	5.512	140	7.087	180	1.221	31	4.172	1.892	22900	102	79000	350	1200	5.630	143.002
51130	5.906	150	7.480	190	1.221	31	4.492	2.037	24300	108	90000	400	1200	6.024	153.01
51132	6.299	160	7.874	200	1.221	31	4.708	2.135	24300	108	90000	400	1100	6.417	162.992
51134	6.693	170	8.465	215	1.339	34	6.143	2.786	28000	125	103000	460	1000	6.811	172.999
51136	7.087	180	8.858	225	1.339	34	6.478	2.938	29000	130	111000	495	1000	7.205	183.007
51138	7.480	190	9.449	240	1.457	37	9.51	4.313	34000	153	128000	570	950	7.598	192.989
51140	7.874	200	9.843	250	1.457	37	8.56	3.882	36000	160	137000	610	900	7.992	202.997
51144	8.661	220	10.630	270	1.457	37	9.283	4.210	36000	161	146000	650	800	8.780	223.012
51148	9.449	240	11.811	300	1.772	45	15.04	6.821	48000	214	189000	840	750	9.567	243.002
51152	10.236	260	12.598	320	1.772	45	16.134	7.317	48000	215	202000	900	700	10.354	262.992
51156	11.024	280	13.780	350	2.087	53	24.202	10.976	65000	290	265000	1180	650	11.142	283.007
51160	11.811	300	14.961	380	2.441	62	35.514	16.106	81000	360	337000	1500	600	11.929	302.997
51164	12.598	320	15.748	400	2.480	63	38.14	17.297	89000	395	375000	1670	550	12.716	322.986
51168	13.386	340	16.535	420	2.520	64	40.673	18.446	89000	395	375000	1670	550	13.503	342.976
51172	14.173	360	17.323	440	2.559	65	43.432	19.697	98000	435	416000	1850	500	14.291	362.991

Ball Thrust Bearings

51200 SERIES

- Metric series
- Medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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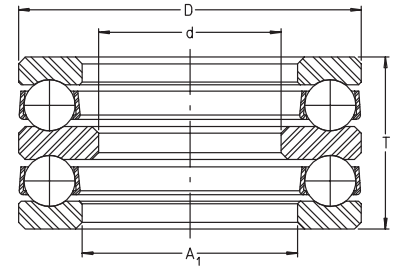
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
51200	0.394	10	1.024	26	0.433	11	0.064	0.029	2630	11.7	3395	15.1	11000	0.472	11.989
51201	0.472	12	1.102	28	0.433	11	0.095	0.043	2160	9.6	3125	13.9	10000	0.551	13.995
51202	0.591	15	1.260	32	0.472	12	0.049	0.108	3210	14.3	5100	22.7	8500	0.669	16.993
51203	0.669	17	1.378	35	0.472	12	0.119	0.054	3420	15.2	6000	26.5	7500	0.748	18.999
51204	0.787	20	1.575	40	0.551	14	0.170	0.077	4450	19.8	7000	31	6500	0.866	21.996
51205	0.984	25	1.850	47	0.591	15	0.253	0.115	5000	22.3	9100	40.5	5500	1.063	27
51206	1.181	30	2.047	52	0.630	16	0.136	0.300	6000	26.5	11200	50	4900	1.260	32.004
51207	1.378	35	2.441	62	0.709	18	0.467	0.212	8000	35.5	15100	67	4200	1.457	37.008
51208	1.575	40	2.677	68	0.748	19	0.774	0.351	8500	38	17500	78	3700	1.654	42.012
51209	1.772	45	2.874	73	0.787	20	0.690	0.313	10700	47.5	23400	104	3400	1.850	46.99
51210	1.969	50	3.071	78	0.866	22	1.061	0.481	12100	54	27000	121	3100	2.047	51.994
51211	2.165	55	3.543	90	0.984	25	1.330	0.603	15700	70	36000	158	2800	2.244	56.998
51212	2.362	60	3.740	95	1.024	26	1.903	0.863	12400	55	31000	136	2600	2.441	62.001
51213	2.559	65	3.937	100	1.063	27	1.629	0.739	14800	66	36000	158	2400	2.638	67.005
51214	2.756	70	4.134	105	1.063	27	1.821	0.826	21400	95	42000	187	5500	2.835	72.009
51215	2.953	75	4.331	110	1.063	27	1.865	0.846	16900	75	44000	197	2100	3.031	76.987
51216	3.150	80	4.528	115	1.102	28	2.026	0.919	20000	89	51000	225	2100	3.228	81.991
51217	3.347	85	4.921	125	1.221	31	2.761	1.252	24000	107	62000	275	1900	3.465	88.011
51218	3.543	90	5.315	135	1.378	35	3.691	1.674	27000	120	67000	300	1800	3.661	92.989
51220	3.937	100	5.906	150	1.496	38	4.902	2.223	31000	137	80000	355	1600	4.055	102.997
51222	4.331	110	6.299	160	1.496	38	5.413	2.455	39000	172	106000	470	1500	4.449	113.005
51224	4.724	120	6.693	170	1.535	39	7.607	3.450	41000	181	117000	520	1400	4.843	123.012
51226	5.118	130	7.480	190	1.772	45	9.087	4.121	40000	177	117000	520	1300	5.236	132.994
51228	5.512	140	7.874	200	1.811	46	9.986	4.529	53000	234	155000	690	1200	5.630	143.002
51230	5.906	150	8.465	215	1.969	50	12.324	5.589	55000	245	160000	710	1100	6.024	153.01
51232	6.299	160	8.858	225	2.008	51	13.345	6.052	56000	248	169000	750	1000	6.417	162.992
51234	6.693	170	9.449	240	2.165	55	16.524	7.494	62000	275	189000	840	1000	6.811	172.999
51236	7.087	180	9.843	250	2.205	56	17.755	8.052	64000	285	200000	890	950	7.205	183.007
51238	7.480	190	10.630	270	2.441	62	24.072	10.917	79000	350	250000	1110	850	7.638	194.005
51240	7.874	200	11.024	280	2.441	62	25.150	11.406	81000	360	263000	1170	850	8.031	203.987
51244	8.661	220	11.811	300	2.480	63	27.629	12.530	82000	365	274000	1220	750	8.819	224.003
51248	9.449	240	13.386	340	3.071	78	47.796	21.676	119000	530	398000	1770	700	9.606	243.992
51252	10.236	260	14.173	360	3.110	79	52.254	23.698	124000	550	438000	1950	650	10.394	264.008
51256	11.024	280	14.961	380	3.150	80	56.318	25.541	128000	570	459000	2040	600	11.181	283.997
51260	11.811	300	16.535	420	3.740	95	87.885	39.857	164000	730	598000	2660	550	11.969	304.013
51264	12.598	320	17.323	440	3.740	95	92.588	41.990	169000	750	625000	2780	550	12.795	324.993
51268	13.386	340	18.110	460	3.780	96	98.608	44.720	169000	750	652000	2900	500	13.583	345.008
51272	14.173	360	19.685	500	4.331	110	141.753	64.287	216000	960	816000	3630	470	14.370	364.998



Ball Thrust Bearings

52200 & 52300 SERIES

- Metric series
- Double direction – flat seat
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WASHER BORE A ₁ inch	WASHER BORE A ₁ mm	WIDTH T inch	WIDTH T mm	B inch	B mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
52202	0.394	10	1.260	32	0.669	17	0.866	22	0.197	5	0.179	0.081	3,700	16500	5,600	25000	7000
52204	0.591	15	1.575	40	0.866	22	1.024	26	0.236	6	0.331	0.150	5,100	22500	8,400	37500	6000
52205	0.787	20	1.850	47	1.063	27	1.102	28	0.276	7	0.485	0.220	6,200	27600	11,200	50000	5300
52206	0.984	25	2.047	52	1.260	32	1.142	29	0.276	7	0.551	0.250	5,700	25500	10,700	47500	4800
52207	1.181	30	2.441	62	1.457	37	1.339	34	0.315	8	0.904	0.410	7,900	35100	15,100	67000	4000
52208	1.181	30	2.677	68	1.654	42	1.417	36	0.354	9	1.213	0.550	10,500	46800	22,000	98000	4000
52209	1.378	35	2.874	73	1.850	47	1.457	37	0.354	9	1.323	0.600	8,800	39000	18,000	80000	3600
52210	1.575	40	3.071	78	2.047	52	1.535	39	0.354	9	1.566	0.710	11,100	49400	23,800	106000	3400

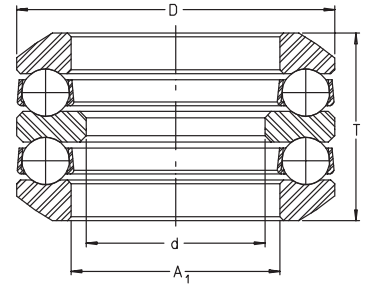
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WASHER BORE A ₁ inch	WASHER BORE A ₁ mm	WIDTH T inch	WIDTH T mm	B inch	B mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
52305	0.787	20	2.047	52	1.063	27	1.339	34	0.315	8	0.728	0.330	7,800	34500	12,400	55000	4500
52306	0.984	25	2.362	60	1.260	32	1.496	38	0.354	9	1.036	0.470	8,500	37700	14,700	65500	3800
52307	1.181	30	2.677	68	1.457	37	1.732	44	0.354	9	1.499	0.680	11,100	49400	19,800	88000	3400
52308	1.181	30	3.071	78	1.654	42	1.929	49	0.394	10	2.315	1.050	13,900	61800	25,200	11200	3000
52309	1.378	35	3.346	85	1.850	47	2.047	52	0.472	12	2.756	1.250	17,100	76100	31,500	140000	2800
52310	1.575	40	3.740	95	2.047	52	2.283	58	0.551	14	3.859	1.750	19,900	88400	38,900	173000	2600



Ball Thrust Bearings

800 SERIES

- Medium cross section
- Grooved race
- Dual direction
- Static Alignment = $\pm 3.0^\circ$
- Available in non aligning 1900 series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

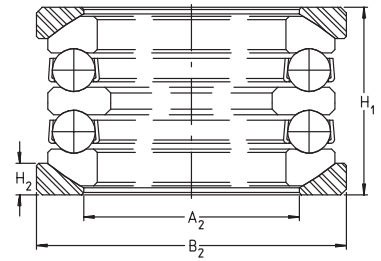
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
802	0.394	10	1.378	35	1.063	27	0.25	0.113	4340	19.3	6290	28	8000	0.6690	16.993
804	0.591	15	1.575	40	1.142	29	0.36	0.163	4450	19.8	6970	31	6500	0.8660	21.996
805	0.787	20	1.890	48	1.221	31	0.56	0.254	5850	26	10340	46	5000	1.0630	27
806	0.984	25	2.087	53	1.299	33	0.60	0.272	5960	26.5	11200	50	4700	1.2600	32.004
808	1.181	30	2.520	64	1.496	38	0.90	0.408	8540	38	17500	78	3800	1.6540	42.012
809	1.378	35	2.874	73	1.732	44	1.40	0.635	11000	49	23000	104	3700	1.8500	46.99
810	1.575	40	3.071	78	1.752	44.5	1.70	0.771	12100	54	27000	121	3100	2.0470	51.994
811	1.772	45	3.465	88	2.008	51	2.60	1.179	16000	71	36000	158	3000	2.2440	56.998
812	1.969	50	3.543	90	1.949	49.5	2.20	0.998	12600	56	31000	136	2600	2.4410	62.001
814	2.165	55	4.055	103	2.284	58	3.40	1.542	17100	76	42000	187	2500	2.8350	72.009
815	2.362	60	4.331	110	2.284	58	3.80	1.723	17300	77	44000	197	2400	3.0320	77.013
816	2.559	65	4.528	115	2.500	63.5	4.40	1.995	20000	89	51000	225	2100	3.2280	81.991
817	2.756	70	4.921	125	2.795	71	5.80	2.630	24500	109	62000	275	2100	3.4650	88.011
818	2.953	75	5.315	135	2.854	72.5	7.20	3.265	27000	122	67000	300	1900	3.6620	93.015
819	3.150	80	5.512	140	3.051	77.5	9.30	4.218	30000	134	80000	355	1800	3.8580	97.993
820	3.347	85	5.906	150	3.071	78	10.00	4.535	31000	140	80000	355	1700	4.0550	102.997
821	3.543	90	6.102	155	3.307	84	10.50	4.762	38000	169	99000	440	1500	4.2520	108.001
823	3.937	100	6.496	165	3.524	89.5	13.50	6.122	39000	175	106000	470	1500	4.6460	118.008
825	4.331	110	6.890	175	3.721	94.5	17.00	7.710	38000	168	106000	470	1400	5.0390	127.991
828	4.724	120	7.874	200	4.311	109.5	22.00	9.977	54000	239	155000	690	1300	5.6300	143.002



Aligning Washers

800 AW SERIES

- Used with 800 series aligning seat thrust bearings
- Order bearing separately



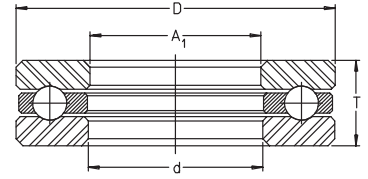
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT A ₂	SHAFT A ₂	OD B ₂	OD B ₂	WIDTH WASHER H ₂	WIDTH WASHER H ₂	WIDTH BEARING H ₁	WIDTH BEARING H ₁	WEIGHT WASHER	WEIGHT WASHER
	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
802AW	0.743	18.87	1.496	38	0.202	5.1	1.221	31	0.050	0.023
804AW	0.984	25	1.772	45	0.217	5.5	1.299	33	0.080	0.036
805AW	1.334	33.88	1.969	50	0.241	6.1	1.378	35	0.070	0.032
806AW	1.673	42.5	2.323	59	0.236	6.0	1.457	37	0.130	0.059
808AW	1.890	48	2.717	69	0.276	7.0	1.654	42	0.150	0.068
809AW	2.087	53	3.071	78	0.315	8.0	1.890	48	0.240	0.109
810AW	2.284	58	3.268	83	0.315	8.0	1.909	48.5	0.260	0.118
811AW	2.520	64	3.701	94	0.315	8.0	2.165	55	0.310	0.141
812AW	2.717	69	3.780	96	0.315	8.0	2.106	53.5	0.310	0.141
814AW	3.110	79	4.291	109	0.354	9.0	2.441	62	0.420	0.191
815AW	3.307	84	4.488	114	0.394	10.0	2.441	62	0.420	0.191
816AW	3.504	89	4.882	124	0.394	10.0	2.658	67.5	0.660	0.299
817AW	3.780	96	5.433	138	0.413	10.5	2.953	75	0.950	0.431
818AW	3.976	101	5.551	141	0.413	10.5	3.014	76.55	0.760	0.345
819AW	4.213	107	5.945	151	0.492	12.5	3.248	82.5	1.300	0.590
820AW	4.409	112	6.142	156	0.512	13.0	3.307	84	2.000	0.907
821AW	4.646	118	6.417	163	0.551	14.0	3.543	90	2.800	1.270
823AW	5.039	128	6.811	173	0.551	14.0	3.760	95.5	3.499	1.587
825AW	5.472	139	7.323	186	0.551	14.0	3.957	100.5	4.500	2.041
828AW	6.102	155	8.347	212	0.610	15.5	4.547	115.5	5.499	2.494

Ball Thrust Bearings

900 SERIES

- Medium cross section
- Grooved race
- Single direction
- Available as self aligning 4100/4100AW series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

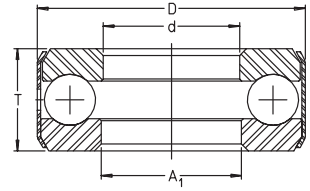
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
900	0.394	10	0.984	25	0.472	12	0.067	0.030	2650	11.8	3390	15.1	11000	0.402	10.211
902	0.591	15	1.378	35	0.551	14	0.143	0.065	4340	19.3	6290	28	8000	0.598	15.189
904	0.787	20	1.575	40	0.551	14	0.169	0.077	4450	19.8	6970	31	6500	0.795	20.193
905	0.984	25	1.890	48	0.610	15.5	0.265	0.120	5850	26	10300	46	5000	0.992	25.197
906	1.181	30	2.087	53	0.610	15.5	0.298	0.135	5960	26.5	11200	50	4700	1.189	30.201
907	1.378	35	2.441	62	0.709	18	0.467	0.212	7980	35.5	15100	67	4200	1.386	35.204
908	1.575	40	2.520	64	0.709	18	0.465	0.211	8540	38	17500	78	3800	1.583	40.208
909	1.772	45	2.874	73	0.866	22	0.782	0.355	10700	47.5	23400	104	3400	1.780	45.212
910	1.969	50	3.071	78	0.866	22	0.843	0.382	12100	54	27000	121	3100	1.976	50.19
911	2.165	55	3.465	88	0.965	24.5	1.225	0.556	15700	70	36000	158	2800	2.173	55.194
912	2.362	60	3.543	90	0.965	24.5	1.186	0.538	12600	56	31000	136	2600	2.370	60.198
913	2.559	65	3.937	100	1.063	27	1.629	0.739	14800	66	36000	158	2400	2.567	65.202
914	2.756	70	4.055	103	1.063	27	1.670	0.757	16600	74	42000	187	2300	2.764	70.206
915	2.953	75	4.331	110	1.063	27	1.865	0.846	16900	75	44000	197	2100	2.961	75.209
916	3.150	80	4.528	115	1.142	29	2.119	0.961	20000	89	51000	225	2100	3.228	81.991
917	3.347	85	4.921	125	1.201	30.5	2.703	1.226	24000	107	62000	275	1900	3.354	85.192
918	3.543	90	5.315	135	1.201	30.5	3.067	1.391	27000	120	67000	300	1800	3.551	90.195
919	3.740	95	5.512	140	1.280	32.5	3.603	1.634	30000	132	80000	355	1700	3.748	95.199
920	3.937	100	5.906	150	2.067	52.5	7.380	3.347	31000	137	80000	355	1600	3.945	100.203
921	4.134	105	6.102	155	1.575	40	5.541	2.513	38000	169	99000	440	1500	4.142	105.207
922	4.331	110	6.299	160	1.575	40	6.196	2.810	39000	172	106000	470	1500	4.339	110.211
923	4.528	115	6.496	165	1.693	43	6.518	2.956	39000	172	106000	470	1400	4.535	115.189
924	4.724	120	6.693	170	1.693	43	6.858	3.110	41000	181	117000	520	1400	4.732	120.193
925	4.921	125	6.890	175	1.831	46.5	7.757	3.518	41000	181	117000	520	1300	4.929	125.197
926	5.118	130	7.087	180	1.831	46.5	8.401	3.810	40000	177	117000	520	1300	5.126	130.2
928	5.512	140	7.874	200	2.047	52	11.660	5.288	53000	234	155000	690	1200	5.520	140.208
930	5.906	150	8.661	220	2.165	55	16.008	7.260	63000	280	180000	800	1100	5.913	150.19
932	6.299	160	9.252	235	2.362	60	19.309	8.757	73000	325	225000	1000	1000	6.319	160.503
934	6.693	170	9.843	250	2.559	65	26.019	11.800	81000	360	250000	1110	950	6.713	170.51
936	7.087	180	10.236	260	2.559	65	24.910	11.297	88000	390	277000	1230	900	7.106	180.492
938	7.480	190	10.827	275	2.756	70	31.973	14.500	97000	430	306000	1360	850	7.500	190.5
940	7.874	200	11.417	290	2.756	70	33.148	15.033	105000	465	335000	1490	800	7.894	200.508
944	8.661	220	12.402	315	3.150	80	48.069	21.800	102000	455	335000	1490	750	8.681	220.497
948	9.449	240	13.583	345	3.347	85	56.510	25.628	142000	630	468000	2080	700	9.468	240.487
952	10.236	260	14.764	375	3.543	90	63.063	28.600	162000	720	542000	2410	650	10.256	260.502
956	11.024	280	15.748	400	3.740	95	83.228	37.745	182000	810	623000	2770	600	11.043	280.492
960	11.811	300	16.929	430	4.134	105	115.326	52.302	205000	910	708000	3150	550	11.831	300.507



Ball Thrust Bearings

B SERIES

- Banded assembly
- Medium cross section
- Grooved race
- Single direction
- Oil hole in band – Standard
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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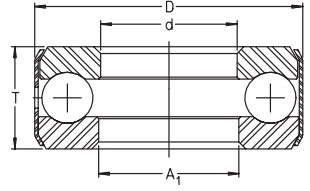
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	A ₁ inch
B1	0.500	12.700	1.219	30.956	0.625	15.880	0.132	0.060	3850	17100	5600	24900	7000	0.531
B2	0.563	14.288	1.219	30.960	0.625	15.880	0.130	0.059	3850	17100	5600	24900	7000	0.594
B3	0.625	15.875	1.344	34.138	0.625	15.875	0.154	0.070	4100	18200	6700	29800	6000	0.656
B4	0.688	17.463	1.344	34.140	0.625	15.880	0.148	0.067	4100	18200	6700	29800	6000	0.719
B5	0.750	19.050	1.469	37.313	0.625	15.880	0.174	0.079	4250	18900	7300	32500	5500	0.781
B6	0.813	20.638	1.469	37.310	0.625	15.880	0.165	0.075	4250	18900	7300	32500	5500	0.844
B7	0.875	22.225	1.844	46.840	0.750	19.050	0.344	0.156	6600	29400	12200	54300	4100	0.906
B8	0.938	23.813	1.844	46.838	0.750	19.050	0.333	0.151	6600	29400	12200	54300	4100	0.969
B9	1.000	25.400	1.969	50.010	0.750	19.050	0.370	0.168	8500	37800	15100	67000	4000	1.031
B10	1.063	26.988	1.969	50.012	0.750	19.050	0.357	0.162	8500	37800	15100	67000	4000	1.094
B11	1.125	28.575	2.094	53.190	0.750	19.050	0.399	0.181	8800	39100	16300	73000	3700	1.156
B12	1.188	30.163	2.094	53.190	0.750	19.050	0.386	0.175	8800	39100	16300	73000	3700	1.219
B13	1.250	31.750	2.344	59.538	0.750	19.050	0.490	0.222	9300	41400	18800	84000	3200	1.281
B14	1.313	33.338	2.344	59.540	0.750	19.050	0.481	0.218	9300	41400	18800	84000	3200	1.354
B15	1.375	34.925	2.469	62.713	0.750	19.050	0.527	0.239	9500	42300	20100	89000	3000	1.406
B16	1.438	36.513	2.469	62.710	0.750	19.050	0.512	0.232	9500	42300	20100	89000	3000	1.469
B17	1.500	38.100	2.594	65.888	0.750	19.050	0.556	0.252	9800	43600	21400	95000	2800	1.531
B18	1.563	39.688	2.594	65.890	0.750	19.050	0.540	0.245	9800	43600	21400	95000	2800	1.594
B19	1.625	41.275	2.969	75.410	0.875	22.220	0.869	0.394	12600	56000	27500	122000	2600	1.656
B20	1.688	42.863	2.969	75.410	0.875	22.220	0.845	0.383	12600	56000	27500	122000	2600	1.719
B21	1.750	44.450	3.094	78.590	0.875	22.220	0.922	0.418	12900	57400	29000	129000	2400	1.781
B22	1.813	46.038	3.094	78.590	0.875	22.220	0.895	0.406	12900	57400	29000	129000	2400	1.844
B23	1.875	47.625	3.219	81.760	0.875	22.220	0.968	0.439	13200	58700	31000	138000	2300	1.906
B24	1.938	49.213	3.219	81.760	0.875	22.220	0.942	0.427	13200	58700	31000	138000	2300	1.969
B25	2.000	50.800	3.344	84.940	0.875	22.220	1.017	0.461	13400	59600	32500	145000	2200	2.031
B26	2.063	52.388	3.344	84.940	0.875	22.220	0.986	0.447	13400	59600	32500	145000	2200	2.094
B27	2.125	53.975	3.594	91.290	0.875	22.225	1.166	0.529	13600	60000	34000	151000	2100	2.156
B28	2.188	55.563	3.594	91.290	0.875	22.220	1.140	0.517	13600	60000	34000	151000	2100	2.219
B29	2.250	57.150	3.719	80.747	0.875	22.220	1.235	0.560	14000	62000	36000	160000	2000	2.281
B30	2.313	58.738	3.719	94.460	0.875	22.220	1.191	0.540	14000	62000	36000	160000	2000	2.344
B31	2.375	60.325	3.844	97.640	0.875	22.220	1.270	0.576	14200	63000	37500	167000	1900	2.406
B32	2.438	61.913	3.844	97.640	0.875	22.225	1.237	0.561	14200	63000	37500	167000	1900	2.469
B33	2.500	63.500	3.969	100.813	0.875	22.225	1.343	0.609	14300	64000	39500	176000	1800	2.531
B34	2.563	65.088	3.969	100.813	0.875	22.225	1.299	0.589	14300	64000	39500	176000	1800	2.594
B35	2.625	66.675	4.344	110.340	1.125	28.580	2.229	1.011	21100	94000	54000	240000	1700	2.656
B36	2.688	68.263	4.344	110.340	1.125	28.580	2.152	0.976	21100	94000	54000	240000	1700	2.719
B37	2.750	69.850	4.469	113.510	1.125	28.580	2.265	1.027	21400	95000	57000	254000	1600	2.781
B38	2.813	71.438	4.469	113.510	1.125	28.580	2.216	1.005	21400	95000	57000	254000	1600	2.844
B39	2.938	74.613	4.594	116.690	1.125	28.580	2.428	1.101	21400	95000	57000	254000	1600	2.969
B40	3.000	76.200	4.719	119.860	1.125	28.580	2.578	1.169	22100	98000	59000	262000	1500	3.031
B41	3.250	82.550	4.969	126.210	1.125	28.580	2.683	1.217	22300	99000	62000	276000	1500	3.281
B42	3.500	88.900	5.219	132.560	1.125	28.580	2.847	1.291	23100	103000	68000	302000	1300	3.531



Ball Thrust Bearings

D SERIES

- Banded assembly
- Medium cross section
- Grooved race
- Single direction
- Oil hole in band – Standard
- Dimensionally interchangeable with GT, FT or RTL series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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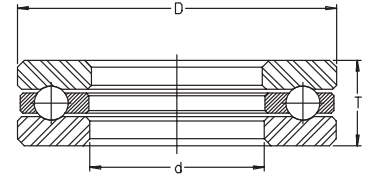
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT g	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	A ₁ inch
D1	0.500	12.700	1.219	30.963	0.563	14.300	0.12	54	3850	17100	5600	24900	7000	0.531
D2	0.563	14.288	1.219	30.963	0.563	14.300	0.11	51	3850	17100	5600	24900	7000	0.594
D3	0.625	15.875	1.344	34.138	0.563	14.300	0.14	63	4100	18200	6700	29800	6000	0.656
D4	0.688	17.463	1.344	34.138	0.563	14.300	0.13	60	4100	18200	6700	29800	6000	0.719
D5	0.750	19.050	1.469	37.313	0.563	14.300	0.15	70	4250	18900	7300	32500	5500	0.781
D6	0.813	20.638	1.469	37.313	0.563	14.300	0.15	66	4250	18900	7300	32500	5500	0.844
D7	0.875	22.225	1.844	46.838	0.625	15.875	0.28	127	6600	29400	12200	54000	4100	0.906
D8	0.938	23.813	1.844	46.838	0.625	15.875	0.27	122	6600	29400	12200	54000	4100	0.969
D9	1.000	25.400	1.969	50.013	0.625	15.875	0.3	138	6700	29800	13100	58000	3800	1.031
D10	1.063	26.988	1.969	50.013	0.625	15.875	0.29	133	6700	29800	13100	58000	3800	1.094
D11	1.125	28.575	2.094	53.188	0.625	15.875	0.33	148	6900	30700	14000	62000	3600	1.156
D12	1.188	30.163	2.094	53.188	0.625	15.875	0.31	142	6900	30700	14000	62000	3600	1.219
D13	1.250	31.750	2.344	59.538	0.625	15.875	0.4	181	7200	32000	15700	70000	3200	1.281
D14	1.313	33.338	2.344	59.538	0.625	15.875	0.39	176	7200	32000	15700	70000	3200	1.344
D15	1.375	34.925	2.469	62.713	0.625	15.875	0.43	196	7300	32500	16600	74000	3000	1.406
D16	1.438	36.513	2.469	65.888	0.625	15.875	0.42	190	7300	32500	16600	74000	3000	1.469
D17	1.500	38.100	2.594	65.888	0.625	15.875	0.46	209	7700	34000	18300	81000	2800	1.531
D18	1.563	39.688	2.594	65.888	0.625	15.875	0.45	204	7700	34000	18300	81000	2800	1.594
D19	1.625	41.275	2.969	75.413	0.813	20.650	0.83	378	10300	46000	25000	111000	2400	1.656
D20	1.688	42.863	2.969	75.413	0.813	20.650	0.81	366	10300	46000	25000	111000	2400	1.719
D21	1.750	44.450	3.094	78.588	0.813	20.650	0.9	406	10600	47000	26500	118000	2300	1.781
D22	1.813	46.038	3.094	78.588	0.813	20.650	0.86	388	10600	47000	26500	118000	2300	1.844
D23	1.875	47.625	3.219	81.763	0.813	20.650	0.94	426	10800	48000	27500	122000	2200	1.906
D24	1.938	49.213	3.219	81.763	0.813	20.650	0.91	412	10800	48000	27500	122000	2200	1.969
D25	2.000	50.800	3.344	84.938	0.813	20.650	0.96	433	10800	48000	29000	129000	2100	2.031
D26	2.063	52.388	3.344	84.938	0.813	20.650	0.94	424	10800	48000	29000	129000	2100	2.094
D27	2.125	53.975	3.594	91.288	0.813	20.650	1.12	510	11100	49000	30000	133000	2000	2.156
D28	2.188	55.563	3.594	91.288	0.813	20.650	1.09	495	11100	49000	30000	133000	2000	2.219
D29	2.250	57.150	3.719	94.463	0.813	20.650	1.17	530	11200	50000	31500	140000	1900	2.281
D30	2.313	58.738	3.719	94.463	0.813	20.650	1.13	514	11200	50000	31500	140000	1900	2.344
D31	2.375	60.325	3.844	97.638	0.813	20.650	1.22	551	11500	51000	32500	145000	1900	2.406
D32	2.438	61.913	3.844	97.638	0.813	20.650	1.19	538	11500	51000	32500	145000	1900	2.469
D33	2.500	63.500	3.969	100.813	0.813	20.650	1.28	580	11500	51000	34000	151000	1800	2.531
D34	2.563	65.088	3.969	100.813	0.813	20.650	1.24	560	11500	51000	34000	151000	1800	2.594
D35	2.625	66.675	4.344	110.338	1.000	25.400	1.95	886	18100	81000	49000	218000	1600	2.656
D36	2.688	68.263	4.344	110.338	1.000	25.400	1.88	854	18100	81000	49000	218000	1600	2.719
D37	2.750	69.850	4.469	113.513	1.000	25.400	1.97	896	18200	81000	51000	227000	1600	2.781
D38	2.813	71.438	4.469	113.513	1.000	25.400	1.93	877	18200	81000	51000	227000	1600	2.844
D39	2.938	74.613	4.594	116.688	1.000	25.400	2.11	956	18200	81000	51000	227000	1600	2.969
D39-1/2	3.000	76.200	4.594	116.688	1.000	25.400	2.05	928	18200	81000	51000	227000	1600	3.063
D40	3.000	76.200	4.719	119.863	1.000	25.400	2.23	1010	18700	83000	54000	240000	1500	3.031
D41	3.250	82.550	4.969	126.213	1.000	25.400	2.34	1061	18800	84000	56000	249000	1500	3.281
D42	3.500	88.900	5.219	132.563	1.000	25.400	2.48	1125	19200	85000	60000	267000	1400	3.531



Ball Thrust Bearings

DL SERIES

- Light cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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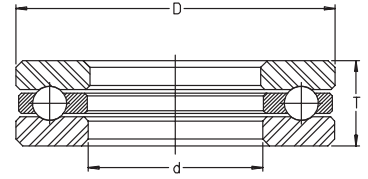
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
DL12	0.472	12	0.906	23	0.354	9	0.036	0.016	1510	6700	2160	9600	11000
DL15	0.591	15	1.024	26	0.354	9	0.146	0.066	1620	7200	2600	11600	10000
DL17	0.669	17	1.102	28	0.374	9.5	0.050	0.023	1600	7100	2600	11600	9000
DL20	0.787	20	1.535	39	0.520	13.2	0.120	0.054	2380	10600	4350	19400	7000
DL25	0.984	25	1.772	45	0.551	14	0.199	0.090	3750	16600	6600	29500	5500
DL30	1.181	30	2.087	53	0.610	15.5	0.280	0.127	3900	17400	7800	34500	4800
DL35	1.378	35	2.244	57	0.681	17.3	0.367	0.166	6200	27500	12100	54000	4400
DL40	1.575	40	2.520	64	0.748	19	0.500	0.227	6000	26500	12100	54000	4000
DL45	1.772	45	2.835	72	0.886	22.5	0.777	0.352	9400	42000	21100	94000	3300
DL50	1.969	50	3.150	80	0.965	24.5	1.300	0.590	12100	54000	27000	121000	3100
DL55	2.165	55	3.465	88	1.102	28	1.409	0.639	10900	48500	23800	106000	2800
DL60	2.362	60	3.858	98	1.201	30.5	2.205	1.000	12400	55000	30500	136000	2500
DL65	2.559	65	4.055	103	1.240	31.5	2.163	0.981	14800	66000	35500	158000	2400
DL70	2.756	70	4.252	108	1.260	32	2.403	1.090	16400	73000	42000	187000	2200
DL75	2.953	75	4.409	112	1.280	32.5	2.489	1.129	16900	75000	44500	197000	2100
DL80	3.150	80	4.646	118	1.339	34	2.800	1.270	19600	87000	50500	225000	2000
DL85	3.347	85	4.921	125	1.339	34	3.105	1.408	24100	107000	62000	275000	1900
DL90	3.543	90	5.276	134	1.496	38	3.991	1.810	23600	105000	62000	275000	1800
DL95	3.740	95	5.512	140	1.496	38	4.399	1.995	29500	132000	80000	355000	1700
DL100	3.937	100	6.063	154	1.634	41.5	5.402	2.450	31000	137000	80000	355000	1600



Ball Thrust Bearings

DM SERIES

- Medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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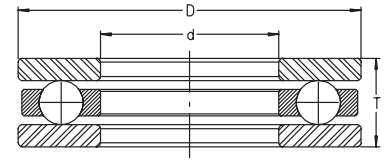
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
DM15	0.591	15	1.378	35	0.610	15.5	0.163	0.074	4400	19500	6300	28000	8000
DM17	0.669	17	1.535	39	0.748	19	0.221	0.100	4900	21800	7000	31000	7500
DM20	0.787	20	1.693	43	0.748	19	0.304	0.138	3850	17100	6600	29500	6500
DM25	0.984	25	2.087	53	0.866	22	0.501	0.227	5800	26000	10300	46000	5000
DM30	1.181	30	2.441	62	0.965	24.5	0.774	0.351	8000	35500	15100	67000	4200
DM35	1.378	35	2.677	68	0.965	24.5	0.809	0.367	8500	38000	17500	78000	3800
DM40	1.575	40	2.953	75	1.102	28	1.202	0.545	10300	46000	20500	91000	3500
DM45	1.772	45	3.150	80	1.102	28	1.301	0.590	12400	55000	27000	121000	3200
DM50	1.969	50	3.347	85	1.240	31.5	1.663	0.754	11900	53000	27000	121000	3000
DM55	2.165	55	3.740	95	1.378	35	2.403	1.090	12600	56000	30500	136000	2600
DM60	2.362	60	4.055	103	1.496	38	2.968	1.346	14800	66000	35500	158000	2400
DM65	2.559	65	4.409	112	1.634	41.5	3.991	1.810	23800	106000	50000	224000	2300
DM70	2.756	70	4.803	122	1.634	41.5	4.441	2.014	25500	114000	58000	260000	2100
DM75	2.953	75	4.921	125	1.634	41.5	4.807	2.180	25000	112000	58000	260000	2000
DM80	3.150	80	5.276	134	1.772	45	5.713	2.591	32500	145000	80000	355000	1900
DM85	3.347	85	5.512	140	1.772	45	8.291	3.760	32000	143000	80000	355000	1800
DM90	3.543	90	6.221	158	2.047	52	9.296	4.216	39500	175000	96000	425000	1600
DM95	3.740	95	6.457	164	2.047	52	13.010	5.900	38500	172000	96000	425000	1500
DM100	3.937	100	6.929	176	2.185	55.5	15.589	7.070	50000	223000	124000	550000	1400



Ball Thrust Bearings

EW SERIES

- Light cross section
- Flat race
- Single direction
- Speed limit shown is for oil lubrication



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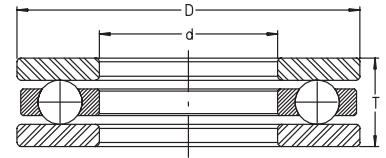
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT g	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
EW-1/4	0.250	6.350	0.656	16.662	0.250	6.350	0.020	9.07	285	1260	101	450	18000
EW-5/16	0.313	7.938	0.750	19.050	0.250	6.350	0.018	7.94	325	1440	134	600	15000
EW-3/8	0.375	9.525	0.813	20.650	0.250	6.350	0.019	8.77	310	1390	134	600	13000
EW-1/2	0.500	12.700	0.969	24.610	0.250	6.350	0.026	11.79	390	1740	201	900	11000
EW-5/8	0.625	15.875	1.094	27.788	0.281	7.140	0.033	15.00	520	2320	260	1170	9500
EW-3/4	0.750	19.050	1.313	33.350	0.281	7.140	0.047	21.11	550	2470	315	1400	7500
EW-7/8	0.875	22.225	1.500	38.100	0.375	9.525	0.085	38.38	780	3450	455	2010	6500
EW1	1.000	25.400	1.625	41.280	0.375	9.530	0.092	41.90	760	3350	455	2010	6000
EW1-1/8	1.125	28.575	1.750	44.450	0.375	9.530	0.102	46.25	810	3600	530	2350	5500
EW1-1/4	1.250	31.750	2.063	52.400	0.500	12.700	0.204	92.67	1300	5800	810	3600	4800
EW1-3/8	1.375	34.925	2.188	55.575	0.500	12.700	0.222	100.79	1400	6200	940	4200	4400
EW1-1/2	1.500	38.100	2.313	58.750	0.500	12.700	0.242	109.95	1580	7000	1140	5100	4300
EW1-5/8	1.625	41.275	2.438	61.930	0.500	12.700	0.254	114.99	1470	6500	1070	4750	3900
EW1-3/4	1.750	44.450	2.625	66.675	0.625	15.875	0.387	175.66	1840	8200	1360	6000	3600
EW1-7/8	1.875	47.625	2.750	69.850	0.625	15.875	0.406	184.34	1810	8100	1360	6000	3400
EW2	2.000	50.800	2.875	73.020	0.625	15.875	0.427	193.62	1780	7900	1360	6000	3200
EW2-1/4	2.250	57.150	3.125	79.380	0.625	15.875	0.471	213.38	1870	8300	1530	6800	2900



Ball Thrust Bearings

FT SERIES

- Medium cross section
- Flat race
- Single direction
- Dimensionally interchangeable with D, GT, and RTL series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

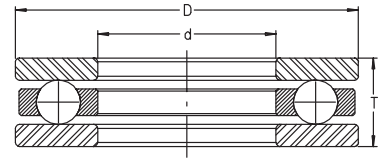
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN.	DYN.	STAT.	STAT.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg	CAP.	CAP.	CAP.	CAP.	
	inch	mm	inch	mm	inch	mm			lbf	N	lbf	N	rpm
FT1	0.500	12.700	1.219	30.963	0.563	14.300	0.121	0.055	750	3350	375	1680	6500
FT2	0.563	14.288	1.219	30.963	0.563	14.300	0.115	0.052	740	3300	375	1680	6500
FT3	0.625	15.875	1.344	34.138	0.563	14.300	0.139	0.063	770	3400	415	1850	6000
FT4	0.688	17.463	1.344	34.138	0.563	14.300	0.130	0.059	770	3400	415	1850	6000
FT5	0.750	19.050	1.469	37.313	0.563	14.300	0.159	0.072	880	3800	530	2350	5000
FT6	0.813	20.638	1.469	37.313	0.563	14.300	0.150	0.068	880	3900	530	2350	5500
FT7	0.875	22.225	1.844	46.838	0.625	15.875	0.278	0.126	1520	6700	940	4200	4300
FT8	0.938	23.813	1.844	46.838	0.625	15.875	0.267	0.121	1520	6700	940	4200	4300
FT9	1.000	25.400	1.969	50.013	0.625	15.875	0.300	0.136	1520	6700	940	4200	4300
FT10	1.063	26.988	1.969	50.013	0.625	15.875	0.289	0.131	1520	6700	940	4200	4300
FT11	1.125	28.575	2.094	53.188	0.625	15.875	0.324	0.147	1510	6700	1010	4500	3600
FT12	1.188	30.163	2.094	53.188	0.625	15.875	0.311	0.141	1510	6700	1010	4500	3600
FT13	1.250	31.750	2.344	59.538	0.625	15.875	0.404	0.183	1520	6800	1070	4750	3300
FT14	1.313	33.338	2.344	59.538	0.625	15.875	0.388	0.176	1520	6800	1070	4750	3300
FT15	1.375	34.925	2.469	62.713	0.625	15.875	0.432	0.196	1610	7200	1210	5400	3000
FT16	1.438	36.513	2.469	62.713	0.625	15.875	0.417	0.189	1610	7200	1210	5400	3000
FT17	1.500	38.100	2.594	65.888	0.625	15.875	0.441	0.200	1690	7500	1340	6000	2800
FT18	1.563	39.688	2.594	65.888	0.625	15.875	0.421	0.191	1690	7500	1340	6000	2800
FT19	1.625	41.275	2.969	75.413	0.813	20.638	0.842	0.382	2390	10600	1890	8400	2400
FT20	1.688	42.863	2.969	75.413	0.813	20.638	0.818	0.371	2450	10900	1890	8400	2600
FT21	1.750	44.450	3.094	78.588	0.813	20.638	0.893	0.405	2600	11500	2100	9300	2400
FT22	1.813	46.038	3.094	78.588	0.813	20.638	0.864	0.392	2600	11500	2100	9300	2400
FT23	1.875	47.625	3.219	81.763	0.813	20.638	0.935	0.424	2550	11300	2100	9300	2300
FT24	1.938	49.213	3.219	81.763	0.813	20.638	0.904	0.410	2600	11600	2100	9300	2500
FT25	2.000	50.800	3.344	84.938	0.813	20.638	0.977	0.443	2440	10900	2100	9300	2000
FT26	2.063	52.388	3.344	84.938	0.813	20.638	0.944	0.428	2500	11200	2100	9300	2200
FT27	2.125	53.975	3.594	91.288	0.813	20.638	1.085	0.492	3350	14900	2700	12100	2000
FT28	2.188	55.563	3.594	91.288	0.813	20.638	1.054	0.478	3350	14900	2700	12100	2000
FT29	2.250	57.150	3.719	94.463	0.813	20.638	1.140	0.517	3550	15900	3000	13400	2000
FT30	2.313	58.738	3.719	94.463	0.813	20.638	1.107	0.502	3500	15600	3000	13400	1900
FT31	2.375	60.325	3.844	97.638	0.813	20.638	1.173	0.532	3400	15100	2850	12800	1900
FT32	2.438	61.913	3.844	97.638	0.813	20.638	1.140	0.517	3400	15100	2850	12800	1900
FT33	2.500	63.500	3.969	100.813	0.814	20.671	1.233	0.559	3600	15900	3150	14100	1800
FT34	2.563	65.088	3.969	100.813	0.813	20.638	1.195	0.542	3600	15900	3150	14100	1800
FT35	2.625	66.675	4.344	110.338	1.000	25.400	2.018	0.915	3650	16200	3450	15400	1600
FT36	2.688	68.263	4.344	110.338	1.000	25.400	1.967	0.892	3650	16200	3450	15400	1600
FT37	2.750	69.850	4.469	113.513	1.000	25.400	2.090	0.948	3800	16800	3600	16100	1600
FT38	2.813	71.438	4.469	113.513	1.000	25.400	2.037	0.924	3800	16900	3600	16100	1600
FT39	2.875	73.025	4.594	116.688	1.000	25.400	2.156	0.978	3800	16900	3600	16100	1600
FT40	2.938	74.613	4.594	116.688	1.000	25.400	2.101	0.953	3750	16700	3600	16100	1600
FT41	3.000	76.200	4.719	119.863	1.000	25.400	2.000	0.907	3800	17000	3750	16800	1500
FT42	3.063	77.788	4.719	119.863	1.000	25.400	2.172	0.985	3800	17000	3750	16800	1500
FT43	3.250	82.550	4.969	126.213	1.000	25.400	2.000	0.907	3950	17600	4100	18100	1400
FT44	3.500	88.900	5.219	132.563	1.000	25.400	3.001	1.361	4000	17700	4250	18800	1400



Ball Thrust Bearings

FTO SERIES

- Light cross section
- Flat race
- Single direction
- Speed limit shown is for oil lubrication



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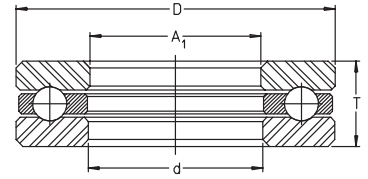
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT g	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
FT01	0.188	4.763	0.438	11.112	0.188	4.762	0.005	2.39	103	455	42	187	25000
FT02	0.188	4.763	0.531	13.493	0.188	4.762	0.005	2.30	103	455	42	187	25000
FT03	0.188	4.763	0.625	15.875	0.250	6.350	0.007	3.26	207	920	85	380	19000
FT04	0.188	4.763	0.938	23.825	0.375	9.525	0.060	27.20	415	1850	201	900	14000
FT05	0.250	6.350	0.563	14.287	0.219	5.556	0.009	4.18	221	980	94	420	19000
FT06	0.250	6.350	0.813	20.650	0.375	9.530	0.050	22.70	390	1730	184	820	13000
FT07	0.250	6.350	0.844	21.438	0.375	9.525	0.042	19.24	390	1730	184	820	13000
FT08	0.313	7.938	0.625	15.875	0.250	6.350	0.012	5.66	213	950	94	420	17000
FT09	0.313	7.938	0.844	21.431	0.375	9.525	0.038	17.27	740	3300	300	1340	14000
FT010	0.375	9.525	0.688	17.480	0.281	7.144	0.017	7.50	232	1030	113	500	15000
FT011	0.375	9.525	1.031	26.190	0.500	12.700	0.080	36.11	740	3300	340	1510	11000
FT012	0.375	9.525	1.094	27.790	0.500	12.700	0.100	45.40	740	3300	340	1510	11000
FT013	0.438	11.113	0.813	20.650	0.313	7.950	0.025	11.25	360	1600	168	750	13000
FT014	0.438	11.113	1.094	27.788	0.500	12.700	0.086	38.99	730	3250	340	1510	10000
FT015	0.500	12.700	0.875	22.225	0.250	6.350	0.020	9.26	390	1740	201	900	11000
FT016	0.500	12.700	0.875	22.225	0.375	9.525	0.035	15.69	390	1740	201	900	11000



Ball Thrust Bearings

GT SERIES

- Medium cross section
- Grooved race
- Single direction
- Dimensionally interchangeable with D, FT or RTL series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

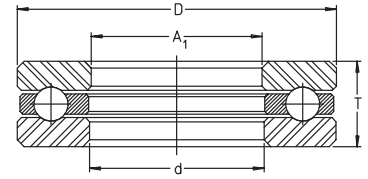
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN. CAP. AXIAL	DYN. CAP. AXIAL	STAT. CAP. AXIAL	STAT. CAP. AXIAL	SPEED LIMIT	BORE A ₁	BORE A ₁
	d	d	D	D	T	T							rpm	inch	mm
	inch	mm	inch	mm	inch	mm	lbs	g	lbf	kN	lbf	kN			
GT1	0.500	12.700	1.219	30.963	0.563	14.300	0.126	57	2330	10.4	3750	16.7	8500	0.531	13.487
GT2	0.563	14.288	1.219	30.963	0.563	14.300	0.120	54	2330	10.4	3750	16.7	8500	0.594	15.088
GT3	0.625	15.875	1.344	34.138	0.563	14.300	0.143	65	2260	10.1	3750	16.7	8000	0.656	16.662
GT4	0.688	17.463	1.344	34.138	0.563	14.300	0.135	61	2260	10.1	3750	16.7	8000	0.719	18.263
GT5	0.750	19.050	1.469	37.313	0.563	14.300	0.161	73	2380	10.6	4400	19.6	7000	0.781	19.837
GT6	0.813	20.638	1.469	37.313	0.563	14.300	0.152	69	2380	10.6	4400	19.6	7000	0.844	21.438
GT7	0.875	22.225	1.844	46.838	0.625	15.875	0.279	126	3750	16.7	6700	29.8	5500	0.906	23.012
GT8	0.938	23.813	1.844	46.838	0.625	15.875	0.268	121	3750	16.7	6700	29.8	5500	0.969	24.613
GT9	1.000	25.400	1.969	50.013	0.625	15.875	0.302	137	3650	16.2	6700	29.8	5000	1.031	26.187
GT10	1.063	26.988	1.969	50.013	0.625	15.875	0.289	131	3650	16.2	6700	29.8	5000	1.094	27.788
GT11	1.125	28.575	2.094	53.188	0.625	15.875	0.329	149	3900	17.3	7800	34.7	4800	1.156	29.362
GT12	1.188	30.163	2.094	53.188	0.625	15.875	0.315	143	3900	17.3	7800	34.7	4800	1.219	30.963
GT13	1.250	31.750	2.344	59.538	0.625	15.875	0.414	188	4350	19.3	9500	42.3	4300	1.281	32.537
GT14	1.313	33.338	2.344	59.538	0.625	15.875	0.398	181	4350	19.3	9500	42.3	4300	1.344	34.138
GT15	1.375	34.925	2.469	62.713	0.625	15.875	0.440	199	4350	19.3	9500	42.3	4300	1.406	35.712
GT16	1.438	36.513	2.469	65.888	0.625	15.875	0.483	219	4350	19.3	9500	42.3	4300	1.469	37.313
GT17	1.500	38.100	2.594	65.888	0.625	15.875	0.468	212	4350	19.3	10000	44.5	3800	1.531	38.887
GT18	1.563	39.688	2.594	65.888	0.625	15.875	0.450	204	4350	19.3	10000	44.5	3800	1.594	40.488
GT19	1.625	41.275	2.969	75.413	0.813	20.638	0.850	386	6100	27.1	14000	62	3300	1.656	42.062
GT20	1.688	42.863	2.969	75.413	0.813	20.638	0.824	374	6100	27.1	14000	62	3300	1.719	43.663
GT21	1.750	44.450	3.094	78.588	0.813	20.638	0.893	405	6100	27.1	14000	62	3300	1.781	45.237
GT22	1.813	46.038	3.094	78.588	0.813	20.638	0.864	392	6100	27.1	14000	62	3300	1.844	46.838
GT23	1.875	47.625	3.219	81.763	0.813	20.638	0.953	432	6900	30.7	17500	78	3000	1.906	48.412
GT24	1.938	49.213	3.219	81.763	0.813	20.638	0.923	419	6900	30.7	17500	78	3000	1.969	50.013
GT25	2.000	50.800	3.344	84.938	0.813	20.638	0.966	438	9200	40.9	22600	101	2800	2.031	51.587
GT26	2.063	52.388	3.344	84.938	0.813	20.638	0.936	425	9200	40.9	22600	101	2800	2.094	53.188
GT27	2.125	53.975	3.594	91.288	0.813	20.638	1.106	501	9000	40	22600	101	2600	2.156	54.762
GT28	2.188	55.563	3.594	91.288	0.813	20.638	1.075	487	9000	40	22600	101	2600	2.219	56.363
GT29	2.250	57.150	3.719	94.463	0.813	20.638	1.148	521	9000	40	22600	101	2600	2.281	57.937
GT30	2.313	58.738	3.719	94.463	0.813	20.638	1.115	506	9000	40	22600	101	2600	2.344	59.538
GT31	2.375	60.325	3.844	97.638	0.813	20.638	1.190	540	9000	40	22600	101	2600	2.406	61.112
GT32	2.438	61.913	3.844	97.638	0.813	20.638	1.155	524	9000	40	22600	101	2600	2.469	62.713
GT33	2.500	63.500	3.969	100.813	0.814	20.671	1.266	574	10300	45.8	27500	122	2400	2.531	64.287
GT34	2.563	65.088	3.969	100.813	0.813	20.638	1.227	556	10300	45.8	27500	122	2400	2.594	65.888
GT35	2.625	66.675	4.344	110.338	1.000	25.400	1.969	893	12100	54	31000	138	2300	2.656	67.462
GT36	2.688	68.263	4.344	110.338	1.000	25.400	1.919	870	16700	74	42500	189	2300	2.719	69.063
GT37	2.750	69.850	4.469	113.513	1.000	25.400	2.041	926	16900	75	44500	198	2100	2.781	70.637
GT38	2.813	71.438	4.469	113.513	1.000	25.400	1.994	904	16900	75	44500	198	2100	2.844	72.238
GT39	2.875	73.025	4.594	116.688	1.000	25.400	2.098	952	16900	75	44500	198	2100	2.906	73.812
GT40	2.938	74.613	4.594	116.688	1.000	25.400	2.049	929	16900	75	44500	198	2100	2.969	75.413
GT41	3.000	76.200	4.719	119.863	1.000	25.400	2.156	978	16600	74	44500	198	2000	3.031	76.987
GT42	3.063	77.788	4.719	119.863	1.000	25.400	2.105	955	16600	74	44500	198	2000	3.094	78.588
GT43	3.250	82.550	4.969	126.213	1.000	25.400	2.271	1030	16600	74	44500	198	2000	3.281	83.337
GT44	3.500	88.900	5.219	132.563	1.000	25.400	2.443	1108	17700	79	51000	227	1800	3.531	89.687



Ball Thrust Bearings

HW SERIES

- Heavy cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



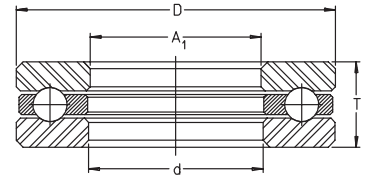
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
HW-1/4	0.250	6.350	0.938	23.825	0.531	13.487	0.07	0.034	2290	10.2	2540	11.3	13000
HW-5/16	0.313	7.938	1.125	28.575	0.630	16.002	0.13	0.057	2880	12.8	3330	14.8	11000
HW-3/8	0.375	9.525	1.125	28.575	0.625	15.875	0.12	0.055	2810	12.5	3330	14.8	10000
HW-7/16	0.438	11.113	1.313	33.350	0.719	18.263	0.19	0.086	3440	15.3	4200	18.7	9000
HW-1/2	0.500	12.700	1.313	33.350	0.719	18.263	0.18	0.083	3420	15.2	4200	18.7	8500
HW-9/16	0.563	14.300	1.563	39.700	0.750	19.050	0.27	0.125	4920	21.9	7000	31	7500
HW-5/8	0.625	15.875	1.563	39.700	0.750	19.050	0.27	0.121	4900	21.8	7000	31	7000
HW-3/4	0.750	19.050	1.813	46.050	0.875	22.225	0.41	0.188	6860	30.5	10000	44.5	6000
HW-7/8	0.875	22.225	2.063	52.400	1.000	25.400	0.61	0.276	9100	40.5	13500	60	5500
HW1	1.000	25.400	2.438	61.930	1.125	28.575	0.95	0.432	11700	52	17800	79	4800
HW1-1/8	1.125	28.575	2.688	68.275	1.313	33.350	1.37	0.619	14400	64	22500	100	4100
HW1-1/4	1.250	31.750	3.000	76.200	1.500	38.100	1.96	0.889	17100	76	27700	123	3700
HW1-3/8	1.375	34.925	3.125	79.375	1.500	38.100	2.06	0.933	16900	75	27700	123	3500
HW1-1/2	1.500	38.100	3.500	88.900	1.750	44.450	3.08	1.398	24100	107	40000	177	3100
HW1-5/8	1.625	41.275	3.625	92.075	1.750	44.450	3.27	1.484	32600	145	54000	241	3000
HW1-3/4	1.750	44.450	4.000	101.600	2.000	50.800	4.57	2.073	31700	141	54000	241	2700
HW1-7/8	1.875	47.625	4.125	104.775	2.000	50.800	4.74	2.148	31300	139	54000	241	2600
HW2	2.000	50.800	4.625	117.475	2.250	57.150	6.85	3.106	40000	179	71000	315	2400
HW2-1/4	2.250	57.150	5.250	133.350	2.500	63.500	9.77	4.432	50000	221	90000	400	2100
HW2-1/2	2.500	63.500	5.750	146.050	2.750	69.850	12.9	5.830	60000	265	111000	495	1900
HW2-3/4	2.750	69.850	6.000	152.400	2.750	69.850	13.5	6.119	60000	265	111000	495	1800
HW3	3.000	76.200	6.875	174.625	3.375	85.725	22.7	10.292	83000	370	160000	710	1600
HW3-1/4	3.250	82.550	7.125	180.975	3.375	85.725	23.6	10.721	82000	365	160000	710	1500
HW3-1/2	3.500	88.900	7.875	200.025	4.000	101.600	35.4	16.062	111000	495	218000	970	1400
HW3-3/4	3.750	95.250	8.125	206.375	4.000	101.600	36.7	16.640	109000	485	218000	970	1300
HW4	4.000	101.600	9.125	231.775	4.500	114.300	54.5	24.714	151000	670	319000	1420	1200
HW4-1/2	4.500	114.300	10.313	261.950	5.000	127.000	75.4	34.193	173000	770	360000	1600	1100
HW5	5.000	127.000	11.438	290.525	5.625	142.875	104.7	47.479	209000	930	443000	1970	950
HW5-1/2	5.500	139.700	11.938	303.225	5.625	142.875	109.9	49.851	207000	920	443000	1970	900
HW6	6.000	152.400	13.750	349.250	6.750	171.450	181.6	82.340	290000	1290	398000	1770	800

Ball Thrust Bearings

MW SERIES

- Medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



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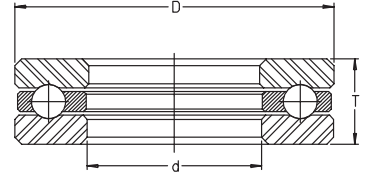
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg					
	inch	mm	inch	mm	inch	mm			lbf	N	lbf	N	rpm
MW-3/4	0.750	19.050	1.563	39.700	0.719	18.263	0.236	0.107	3900	17300	5600	24900	7000
MW-7/8	0.875	22.225	1.813	46.050	0.750	19.050	0.419	0.19	5300	23700	8700	38500	6000
MW1	1.000	25.400	2.000	50.800	0.750	19.050	0.390	0.177	5800	26000	10300	46000	5000
MW1-1/8	1.125	28.575	2.250	57.150	0.875	22.225	0.569	0.258	7400	33000	12400	55000	4800
MW1-1/4	1.250	31.750	2.500	63.500	1.000	25.400	0.809	0.367	9900	44000	16900	75000	4300
MW1-3/8	1.375	34.925	2.625	66.675	1.000	25.400	0.853	0.387	9800	43500	16900	75000	4100
MW1-1/2	1.500	38.100	2.875	73.025	1.125	28.575	1.202	0.545	13900	62000	26500	118000	3500
MW1-5/8	1.625	41.275	3.000	76.200	1.125	28.575	1.222	0.554	12100	54000	22300	99000	3500
MW1-3/4	1.750	44.450	3.313	84.150	1.250	31.750	1.685	0.764	15300	68000	28000	125000	3200
MW1-7/8	1.875	47.625	3.438	87.325	1.250	31.750	1.755	0.796	15100	67000	28000	125000	3100
MW2	2.000	50.800	3.688	93.680	1.375	34.925	2.249	1.020	18200	81000	34500	154000	2800
MW2-1/4	2.250	57.150	4.250	107.950	1.688	42.875	3.801	1.724	26000	116000	50000	222000	2500
MW2-1/2	2.500	63.500	4.750	120.650	2.000	50.800	5.755	2.610	35000	155000	67000	300000	2200
MW2-3/4	2.750	69.850	4.875	123.825	2.000	50.800	7.166	3.250	34000	151000	67000	300000	2100
MW3	3.000	76.200	5.625	142.875	2.250	57.150	11.261	5.107	43000	192000	89000	395000	1800
MW3-1/4	3.250	82.550	6.188	157.175	2.500	63.500	15.323	6.949	54000	240000	112000	500000	1700
MW3-1/2	3.500	88.900	6.438	163.525	2.500	63.500	16.134	7.317	53000	237000	112000	500000	1600
MW3-3/4	3.750	95.250	7.000	177.800	2.813	71.450	21.726	9.853	64000	285000	139000	620000	1500
MW4	4.000	101.600	7.250	184.150	2.813	71.450	22.736	10.311	64000	285000	139000	620000	1400
MW4-1/2	4.500	114.300	8.375	212.725	3.375	85.725	37.223	16.881	90000	400000	200000	890000	1200
MW5	5.000	127.000	9.500	241.300	4.000	101.600	57.709	26.172	119000	530000	270000	1210000	1100
MW5-1/2	5.500	139.700	10.375	263.525	4.250	107.950	72.716	32.978	135000	600000	315000	1390000	1000
MW6	6.000	152.400	11.125	282.575	4.500	114.300	87.307	39.595	151000	670000	355000	1580000	900
MW7	7.000	177.800	12.750	323.850	5.000	127.000	125.498	56.915	187000	830000	450000	2000000	800
MW8	8.000	203.200	14.375	365.125	5.625	142.875	177.368	80.439	220000	980000	550000	2460000	700
MW9	9.000	228.600	16.625	422.275	6.750	171.450	291.552	132.223	315000	1390000	800000	3550000	600



Ball Thrust Bearings

W SERIES

- Medium cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



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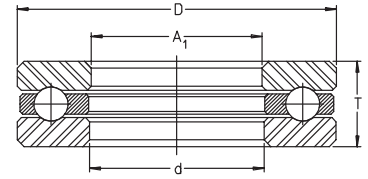
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
W-1/4	0.250	6.350	0.813	20.650	0.375	9.530	0.037	0.017	1170	5200	1300	5800	15000
W-5/16	0.313	7.938	1.000	25.400	0.531	13.490	0.084	0.038	1910	8500	2500	11100	11000
W-3/8	0.375	9.525	1.000	25.400	0.530	13.460	0.082	0.037	1910	8500	2500	11100	11000
W-7/16	0.438	11.113	1.281	32.540	0.625	15.875	0.157	0.071	3150	14100	4450	19700	8000
W-1/2	0.500	12.700	1.281	32.540	0.625	15.875	0.150	0.068	3150	14100	4450	19700	8000
W-9/16	0.563	14.288	1.406	35.710	0.625	15.875	0.181	0.082	4350	19300	6300	28000	8000
W-5/8	0.625	15.875	1.406	35.710	0.625	15.875	0.172	0.078	4350	19300	6300	28000	8000
W-3/4	0.750	19.050	1.531	38.890	0.625	15.875	0.192	0.087	3500	15600	5500	24600	7000
W-7/8	0.875	22.225	1.656	42.060	0.625	15.875	0.221	0.1	4200	18700	7800	34500	6000
W1	1.000	25.400	1.781	45.240	0.625	15.875	0.234	0.106	3750	16600	6600	29500	5500
W1-1/8	1.125	28.575	1.906	48.410	0.625	15.875	0.254	0.115	3650	16300	6600	29500	5000
W1-1/4	1.250	31.750	2.094	53.190	0.719	18.260	0.355	0.161	6000	26500	11200	50000	4700
W1-3/8	1.375	34.925	2.219	56.360	0.719	18.260	0.379	0.172	6200	27500	12100	54000	4400
W1-1/2	1.500	38.100	2.344	59.540	0.719	18.260	0.404	0.183	4800	21500	9800	43500	4100
W1-5/8	1.625	41.275	2.469	62.710	0.719	18.260	0.434	0.197	6400	28500	13900	62000	3800
W1-3/4	1.750	44.450	2.688	68.280	0.755	19.180	0.547	0.248	6500	29000	14600	65000	3600
W1-7/8	1.875	47.625	2.813	71.450	0.750	19.050	0.564	0.256	6200	27500	13900	62000	3300
W2	2.000	50.800	2.969	75.410	0.750	19.050	0.613	0.278	6200	27500	13900	62000	3200
W2-1/8	2.125	53.975	3.219	81.760	0.875	22.225	0.770	0.349	8700	38500	20000	89000	3000
W2-1/4	2.250	57.150	3.344	84.940	0.875	22.225	0.931	0.422	9200	41000	22500	100000	2800
W2-3/8	2.375	60.325	3.594	91.290	1.000	25.400	1.286	0.583	12600	56000	30500	136000	2600
W2-1/2	2.500	63.500	3.719	94.460	1.000	25.400	1.330	0.603	12400	55000	30500	136000	2600
W2-5/8	2.625	66.675	3.844	97.640	1.000	25.400	1.400	0.635	11500	51000	27000	121000	2500
W2-3/4	2.750	69.850	4.031	102.390	1.000	25.400	1.491	0.676	12100	54000	30500	136000	2300
W2-7/8	2.875	73.025	4.156	105.560	1.000	25.400	1.537	0.697	12100	54000	30500	136000	2300
W3	3.000	76.200	4.375	111.130	1.125	28.580	2.022	0.917	16900	75000	44500	197000	2100
W3-1/8	3.125	79.375	4.500	114.300	1.125	28.580	2.077	0.942	16600	74000	44500	197000	2000
W3-1/4	3.250	82.550	4.813	122.250	1.250	31.750	2.500	1.134	20200	90000	53000	237000	2000
W3-3/8	3.375	85.725	4.938	125.430	1.250	31.750	2.809	1.274	19600	87000	51000	225000	1900
W3-1/2	3.500	88.900	5.063	128.600	1.250	31.750	2.880	1.306	19100	85000	51000	225000	1900
W3-5/8	3.625	92.075	5.188	131.780	1.250	31.750	3.199	1.451	19100	85000	51000	225000	1800
W3-3/4	3.750	95.250	5.313	134.950	1.250	31.750	3.301	1.497	19100	85000	51000	225000	1700
W3-7/8	3.875	98.425	5.688	144.480	1.375	34.930	4.059	1.841	23200	103000	62000	275000	1700
W4	4.000	101.600	5.813	147.650	1.375	34.930	4.148	1.881	23200	103000	62000	275000	1600
W4-1/4	4.250	107.950	6.313	160.350	1.750	44.450	6.754	3.063	33000	146000	90000	400000	1500
W4-1/2	4.500	114.300	6.500	165.100	1.750	44.450	7.850	3.560	33000	146000	90000	400000	1400
W4-3/4	4.750	120.650	7.063	179.400	2.000	50.800	8.800	3.991	44000	196000	121000	540000	1300
W5	5.000	127.000	7.313	185.750	2.000	50.800	10.103	4.582	43000	192000	121000	540000	1300
W5-1/2	5.500	139.700	8.063	204.800	2.193	55.700	13.708	6.217	53000	234000	155000	690000	1200
W6	6.000	152.400	8.688	220.663	2.375	60.325	16.701	7.574	55000	245000	160000	710000	1100
W6-1/2	6.500	165.100	9.406	238.910	2.500	63.500	20.326	9.218	60000	265000	180000	800000	1000
W7	7.000	177.800	10.125	257.180	2.625	66.680	25.000	11.338	66000	295000	202000	900000	900
W7-1/2	7.500	190.500	10.875	276.220	2.750	69.850	29.977	13.595	70000	310000	225000	1000000	850
W8	8.000	203.200	11.625	295.280	3.000	76.200	37.500	17.007	80000	355000	250000	1110000	800
W9	9.000	228.600	13.125	333.380	3.500	88.900	56.144	25.462	115000	510000	360000	1600000	700
W10	10.000	254.000	14.625	371.475	4.000	101.600	84.500	38.322	151000	670000	488000	2170000	650



Ball Thrust Bearings

XW SERIES

- Light cross section
- Grooved race
- Single direction
- Speed limit shown is for oil lubrication



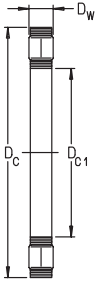
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
XW2	2.000	50.800	3.0630	77.800	0.6882	17.480	0.617	0.28	7000	31	17300	77	3000
XW2-1/8	2.125	53.975	3.1882	80.980	0.6882	17.480	0.69	0.313	7000	31	17300	77	3000
XW2-1/4	2.250	57.150	3.3524	85.150	0.6882	17.480	0.712	0.323	5800	26	15500	69	2800
XW2-3/8	2.375	60.325	3.4382	87.330	0.6882	17.480	0.77	0.349	5800	26	15500	69	2800
XW2-1/2	2.500	63.500	3.5630	90.500	0.6882	17.480	0.759	0.344	6000	27	16900	75	2600
XW2-5/8	2.625	66.675	3.7500	95.250	0.7500	19.050	0.893	0.405	6500	29	17300	77	2500
XW2-3/4	2.750	69.850	3.8752	98.430	0.7500	19.050	0.924	0.419	6400	29	17300	77	2400
XW2-7/8	2.875	73.025	4.0000	101.600	0.7500	19.050	1.1	0.499	6700	30	19100	85	2300
XW3	3.000	76.200	4.1248	104.770	0.7500	19.050	1.021	0.463	9400	42	29200	130	2200
XW3-1/8	3.125	79.375	4.2500	107.950	0.7500	19.050	1.052	0.477	9400	42	29200	130	2200
XW3-1/4	3.250	82.550	4.3752	111.130	0.7500	19.050	1.069	0.485	7000	31	20700	92	2100
XW3-3/8	3.375	85.725	4.5000	114.300	0.7500	19.050	1.301	0.59	7000	31	20700	92	2100
XW3-1/2	3.500	88.900	4.6252	117.480	0.7500	19.050	1.14	0.517	7100	32	22500	100	1900
XW3-5/8	3.625	92.075	4.7500	120.650	0.7500	19.050	1.171	0.531	7100	32	22500	100	1900
XW3-3/4	3.750	95.250	4.8748	123.820	0.7500	19.050	1.213	0.55	7400	33	24300	108	1800
XW3-7/8	3.875	98.425	5.0000	127.000	0.7500	19.050	1.244	0.564	7400	33	24300	108	1800
XW4	4.000	101.600	5.2500	133.350	0.8750	22.225	1.707	0.774	10700	48	35000	155	1700
XW4-1/4	4.250	107.950	5.5000	139.700	0.8750	22.225	1.819	0.825	11700	52	40000	177	1600
XW4-1/2	4.500	114.300	5.7500	146.050	1.0000	25.400	2.289	1.038	12100	54	45000	200	1500
XW4-3/4	4.750	120.650	6.0000	152.400	1.0000	25.400	2.386	1.082	12100	54	45000	200	1500
XW5	5.000	127.000	6.5000	165.100	1.0177	25.850	2.926	1.327	14200	63	47500	211	1400
XW5-1/4	5.250	133.350	6.7500	171.450	1.1252	28.580	3.497	1.586	14200	63	51000	226	1300
XW5-1/2	5.500	139.700	7.0000	177.800	1.0071	25.580	3.799	1.723	14200	63	51000	226	1300
XW5-3/4	5.750	146.050	7.2500	184.150	1.1252	28.580	3.782	1.715	14800	66	54000	241	1200
XW6	6.000	152.400	7.6252	193.680	1.2500	31.750	4.772	2.164	18000	80	66000	295	1200
XW6-1/2	6.500	165.100	8.1252	206.380	1.2500	31.750	5.118	2.321	18900	84	71000	315	1100
XW7	7.000	177.800	8.7500	222.250	1.3752	34.930	6.505	2.950	22300	99	84000	375	1000
XW7-1/2	7.500	190.500	9.2500	234.950	1.3752	34.930	7.1	3.220	23200	103	90000	400	950
XW8	8.000	203.200	10.0000	254.000	1.5000	38.100	9.4	4.263	19300	86	71000	315	850
XW8-1/2	8.500	215.900	10.5000	266.700	1.5000	38.100	9.744	4.419	29200	130	117000	520	850
XW9	9.000	228.600	11.2500	285.750	1.8750	47.625	15.199	6.893	39100	174	160000	710	800
XW9-1/2	9.500	241.300	11.7500	298.450	1.8750	47.625	15.79	7.161	40700	181	169000	750	750
XW10	10.000	254.000	12.5000	317.500	2.1250	53.975	21.148	9.591	54000	238	218000	970	700
XW10-1/2	10.500	266.700	13.0000	330.200	2.1250	53.975	22.2	10.068	54000	238	232000	1030	650
XW11	11.000	279.400	13.7500	349.250	2.3748	60.320	28.702	13.017	61000	270	250000	1110	650
XW11-1/2	11.500	292.100	14.2500	361.950	2.3748	60.320	32.499	14.739	61000	270	265000	1180	600
XW12	12.000	304.800	15.0000	381.000	2.5000	63.500	35.62	16.154	65000	290	285000	1260	600
XW12-1/2	12.500	317.500	15.5000	393.700	2.6252	66.680	43	19.501	69000	305	300000	1340	550
XW13	13.000	330.200	16.2500	412.750	2.7500	69.850	46.188	20.947	73000	325	320000	1420	550
XW13-1/2	13.500	342.900	16.7500	425.450	2.8748	73.020	54	24.490	81000	360	360000	1600	500
XW14	14.000	355.600	17.5000	444.500	3.0000	76.200	58.128	26.362	89000	395	375000	1670	500
XW14-1/2	14.500	368.300	18.0000	457.200	3.1252	79.380	68	30.839	98000	435	415000	1850	480
XW15	15.000	381.000	18.7500	476.250	3.2500	82.550	73.124	33.163	98000	435	445000	1970	470
XW15-1/2	15.500	393.700	19.2500	488.950	3.3752	85.730	83.001	37.642	107000	475	460000	2040	450
XW16	16.000	406.400	20.0000	508.000	3.5000	88.900	89.071	40.395	117000	520	500000	2240	440
XW16-1/2	16.500	419.100	20.5000	520.700	3.6248	92.070	105	47.619	117000	520	535000	2380	430



Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication



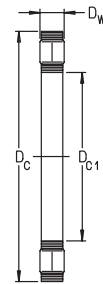
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT D _{c1} inch	SHAFT D _{c1} mm	OD D _c inch	OD D _c mm	ROLLER DIA. inch	ROLLER DIA. mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
AXK 0414 TN	0.158	4	0.551	14	0.079	2	0.002	0.001	1,000	4.45	1,800	8	21000
AXK 0515 TN	0.197	5	0.591	15	0.079	2	0.002	0.001	1,070	4.75	2,070	9.2	21000
AXK 0619 TN	0.236	6	0.748	19	0.079	2	0.002	0.001	1,530	6.8	3,500	15.5	19000
TC411	0.2500	6.350	0.6870	17.450	0.0781	1.984	0.004	0.002	1370	6.1	3000	13.3	20000
TC512	0.3125	7.938	0.7500	19.050	0.0781	1.984	0.007	0.003	1560	6.9	3650	16.2	18000
AXK 0821 TN	0.315	8	0.827	21	0.079	2	0.004	0.002	1,750	7.8	4,350	19.4	18000
TC613	0.3750	9.525	0.8125	20.638	0.0781	1.984	0.007	0.003	1620	7.2	4000	17.8	16000
AXK 1024	0.394	10	0.945	24	0.079	2	0.007	0.003	2,070	9.2	5,700	25.5	17000
AXK 1226	0.472	12	1.024	26	0.079	2	0.007	0.003	2,230	9.9	6,500	29	15000
TC815	0.5000	12.700	0.9375	23.813	0.0781	1.984	0.009	0.004	1920	8.5	5300	23.6	13000
K 811 02 TN	0.591	15	1.102	28	0.138	3.5	0.013	0.006	3,250	14.4	6,400	28.5	13000
AXK 1528	0.591	15	1.102	28	0.079	2	0.009	0.004	2,550	11.3	8,100	36	13000
TC1018	0.6250	15.875	1.1250	28.575	0.0781	1.984	0.009	0.004	2170	9.7	6600	29.5	11000
K 811 03 TN	0.669	17	1.181	30	0.138	3.5	0.02	0.009	3,600	15.9	7,500	33.5	12000
AXK 1730	0.669	17	1.181	30	0.079	2	0.009	0.004	2,700	11.9	8,900	39.5	12000
TC1220	0.7500	19.050	1.2500	31.750	0.0781	1.984	0.014	0.006	2410	10.7	8000	35.5	9500
K 811 04 TN	0.787	20	1.378	35	0.177	4.5	0.029	0.013	5,600	24.9	11,900	53	10000
AXK 2035	0.787	20	1.378	35	0.079	2	0.011	0.005	2,950	13.1	10,500	46.5	10000
TC1423	0.8750	22.225	1.4375	36.513	0.0781	1.984	0.013	0.006	2900	12.9	10500	46.5	8000
TC1427	0.8750	22.225	1.6875	42.863	0.0781	1.984	0.029	0.013	4400	19.6	18600	83	7500
K 811 05 TN	0.984	25	1.654	42	0.197	5	0.033	0.015	7,500	33.5	17,100	76	8500
AXK 2542	0.984	25	1.654	42	0.079	2	0.015	0.007	3,300	14.7	13,000	58	8500
TC1625	1.0000	25.400	1.5625	39.688	0.0781	1.984	0.013	0.006	3150	14	12100	54	7500
TC1726	1.0625	26.988	1.6250	41.275	0.0781	1.984	0.021	0.010	3,900	17.3	16,400	73	7000
TC1828	1.1250	28.575	1.7500	44.450	0.0781	1.984	0.018	0.008	3850	17.1	16300	73	6500
K 811 06 TN	1.181	30	1.850	47	0.197	5	0.037	0.017	8,000	35.5	19,300	86	7500
AXK 3047	1.181	30	1.850	47	0.079	2	0.018	0.008	3,650	16.3	15,700	70	7500
K 812 06 TN	1.181	30	2.047	52	0.295	7.5	0.073	0.033	14,400	64	31,500	141	7000
K 893 06 TN	1.181	30	2.362	60	0.217	5.5	0.529	0.24	15,500	69	44,500	197	6500
TC1931	1.1875	30.163	1.9375	49.213	0.0781	1.984	0.033	0.015	4500	20	20500	91	6000
TC2031	1.2500	31.750	1.9375	49.213	0.0781	1.984	0.022	0.010	4500	20	20500	91	6000
TC2233	1.3750	34.925	2.0625	52.388	0.0781	1.984	0.033	0.015	4600	20.5	21600	96	5500
K 811 07 TN	1.378	35	2.047	52	0.197	5	0.042	0.019	8,800	39	22,700	101	6500
AXK 3552	1.378	35	2.047	52	0.079	2	0.022	0.010	4,000	17.8	18,200	81	6500
K 812 07 TN	1.378	35	2.441	62	0.295	7.5	0.095	0.043	18,000	80	44,500	199	6000
K 893 07 TN	1.378	35	2.677	68	0.236	6	0.75	0.34	18,000	80	53,000	237	5500
K 894 07 TN	1.378	35	3.150	80	0.354	9	0.245	0.111	35,000	155	97,000	430	5000
TC2435	1.5000	38.100	2.1875	55.563	0.0781	1.984	0.024	0.011	4850	21.6	23700	105	5000
K 811 08 TN	1.575	40	2.362	60	0.236	6	0.068	0.031	12,600	56	33,500	148	6000
AXK 4060	1.575	40	2.362	60	0.118	3	0.035	0.016	6,300	28	25,500	114	6000
K 812 08 TN	1.575	40	2.677	68	0.354	9	0.179	0.081	24,100	107	60,000	265	5500
K 893 08 TN	1.575	40	3.071	78	0.276	7	1.067	0.484	27,500	122	87,000	385	4900
K 874 08	1.575	40	3.543	90	0.256	6.5	0.28	0.127	30,500	135	108,000	480	4400
K 894 08 TN	1.575	40	3.543	90	0.394	10	0.441	0.2	45,000	200	130,000	580	4400
TC2840	1.7500	44.450	2.5000	63.500	0.0781	1.984	0.045	0.020	5600	24.9	30000	133	4400
K 811 09 TN	1.772	45	2.559	65	0.236	6	0.077	0.035	13,300	59	36,500	163	5000



Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication



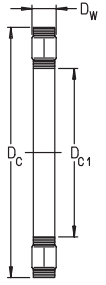
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PART NUMBER	SHAFT D_{c1} inch	SHAFT D_{c1} mm	OD D_c inch	OD D_c mm	ROLLER DIA. inch	ROLLER DIA. mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
AXK 4565	1.772	45	2.559	65	0.118	3	0.04	0.018	6,700	30	29,000	128	5000
K 812 09 TN	1.772	45	2.874	73	0.354	9	0.187	0.085	23,600	105	60,000	265	4900
K 893 09 TN	1.772	45	3.347	85	0.295	7.5	1.356	0.615	31,500	139	100,000	445	4400
K 874 09	1.772	45	3.937	100	0.276	7	0.384	0.174	34,500	154	126,000	560	4000
K 894 09 TN	1.772	45	3.937	100	0.433	11	0.578	0.262	54,000	239	157,000	700	4000
K 811 10 TN	1.969	50	2.756	70	0.236	6	0.084	0.038	13,700	61	40,000	177	4800
AXK 5070	1.969	50	2.756	70	0.118	3	0.044	0.020	7,200	32	32,000	143	4800
K 812 10 TN	1.969	50	3.071	78	0.354	9	0.216	0.098	26,500	117	71,000	315	4500
K 893 10 TN	1.969	50	3.740	95	0.315	8	1.956	0.887	37,500	167	126,000	560	4000
K 874 10 TN	1.969	50	4.331	110	0.315	8	0.564	0.256	45,000	200	166,000	740	3600
K 894 10 TN	1.969	50	4.331	110	0.472	12	0.794	0.36	66,000	295	202,000	900	3600
TC3244	2.0000	50.800	2.7500	69.850	0.0781	1.984	0.033	0.015	5800	26	32500	145	4000
K 811 11 TN	2.165	55	3.071	78	0.236	6	0.099	0.045	20,200	90	67,000	300	4300
AXK 5578	2.165	55	3.071	78	0.118	3	0.062	0.028	8,500	38	42,000	186	4300
K 812 11 TN	2.165	55	3.543	90	0.433	11	0.366	0.166	34,500	154	91,000	405	4000
K 893 11 TN	2.165	55	4.134	105	0.354	9	2.602	1.18	41,500	184	135,000	600	3600
K 874 11	2.165	55	4.724	120	0.315	8	0.668	0.303	50,000	222	196,000	870	3300
K 894 11 TN	2.165	55	4.724	120	0.512	13	1.043	0.473	76,000	340	236,000	1050	3300
TC3648	2.2500	57.150	3.0000	76.200	0.0781	1.984	0.037	0.017	6000	26.5	35000	156	3600
K 811 12 TN	2.362	60	3.347	85	0.295	7.5	0.181	0.082	23,200	103	71,000	315	4000
AXK 6085	2.362	60	3.347	85	0.118	3	0.073	0.033	10,000	44.5	53,000	234	4000
K 812 12 TN	2.362	60	3.740	95	0.433	11	0.388	0.176	38,500	172	108,000	480	3700
K 893 12 TN	2.362	60	4.331	110	0.354	9	2.778	1.26	44,000	196	151,000	670	3400
K 874 12	2.362	60	5.118	130	0.354	9	0.838	0.38	58,000	260	225,000	1000	3000
K 894 12 TN	2.362	60	5.118	130	0.551	14	1.186	0.538	88,000	390	275,000	1220	3000
TC4052	2.5000	63.500	3.2500	82.550	0.0781	1.984	0.042	0.019	6200	27.5	37500	167	3300
K 811 13 TN	2.559	65	3.543	90	0.295	7.5	0.198	0.09	24,100	107	76,000	340	3700
AXK 6590	2.559	65	3.543	90	0.118	3	0.077	0.035	105,000	46.5	57,000	255	3700
K 812 13 TN	2.559	65	3.937	100	0.433	11	0.408	0.185	40,000	177	112,000	500	3500
K 893 13 TN	2.559	65	4.528	115	0.354	9	2.933	1.33	43,500	194	151,000	670	3200
K 874 13	2.559	65	5.512	140	0.394	10	1.036	0.47	67,000	300	255,000	1140	2800
K 894 13 TN	2.559	65	5.512	140	0.591	15	1.588	0.72	100,000	445	315,000	1410	2800
K 811 14 TN	2.756	70	3.740	95	0.295	7.5	0.203	0.092	25,000	111	82,000	365	3500
AXK 7095	2.756	70	3.740	95	0.158	4	0.132	0.060	121,000	540	57,000	255	3500
K 812 14 TN	2.756	70	4.134	105	0.433	11	0.467	0.212	42,000	187	124,000	550	3300
K 893 14 TN	2.756	70	4.921	125	0.394	10	4.013	1.82	54,000	239	187,000	830	3000
K 874 14	2.756	70	5.906	150	0.433	11	1.433	0.65	81,000	360	310,000	1380	2600
K 894 14	2.756	70	5.906	150	0.630	16	2.029	0.92	101,000	450	315,000	1390	2600
K 811 15 TN	2.953	75	3.937	100	0.295	7.5	0.212	0.096	24,100	107	79,000	350	3300
AXK 75100	2.953	75	3.937	100	0.158	4	0.135	0.061	124,000	550	60,000	265	3300
K 812 15 TN	2.953	75	4.331	110	0.433	11	0.43	0.195	38,500	172	112,000	500	3100
K 893 15 TN	2.953	75	5.315	135	0.433	11	4.917	2.23	64,000	285	227,000	1010	2700
K 874 15	2.953	75	6.299	160	0.472	12	1.764	0.8	97,000	430	375,000	1660	2500
K 894 15	2.953	75	6.299	160	0.669	17	2.359	1.07	112,000	500	355,000	1580	2500
TC4860	3.0000	76.200	3.7402	95.000	0.0781	1.984	0.049	0.022	6600	29.5	42500	189	2800
K 811 16 TN	3.150	80	4.134	105	0.295	7.5	0.209	0.095	23,800	106	79,000	350	3100



Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication



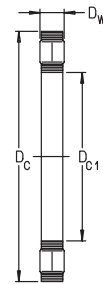
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT D _{c1} inch	SHAFT D _{c1} mm	OD D _c inch	OD D _c mm	ROLLER DIA. inch	ROLLER DIA. mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
AXK 80105	3.150	80	4.134	105	0.158	4	0.139	0.063	126,000	560	63,000	280	3100
K 812 16 TN	3.150	80	4.528	115	0.433	11	0.516	0.234	45,000	201	142,000	630	3000
K 893 16 TN	3.150	80	5.512	140	0.433	11	5.226	2.37	69,000	305	250,000	1110	2600
K 874 16	3.150	80	6.693	170	0.472	12	1.94	0.88	101,000	450	405,000	1810	2300
K 894 16	3.150	80	6.693	170	0.709	18	3.109	1.41	126,000	560	400,000	1770	2300
TC5266	3.2500	82.550	4.1250	104.775	0.1250	3.175	0.145	0.066	10900	48.5	61000	270	2600
K 811 17 TN	3.347	85	4.331	110	0.295	7.5	0.26	0.118	25,000	112	87,000	385	3000
AXK 85110	3.347	85	4.331	110	0.158	4	0.148	0.067	130,000	580	65,000	290	3000
K 812 17 TN	3.347	85	4.921	125	0.472	12	0.617	0.28	49,000	217	148,000	660	2700
K 893 17	3.347	85	5.906	150	0.472	12	6.615	3	73,000	325	255,000	1140	2500
K 874 17	3.347	85	7.087	180	0.512	13	2.271	1.03	109,000	485	430,000	1920	2200
K 894 17	3.347	85	7.087	180	0.748	19	3.55	1.61	139,000	620	445,000	1980	2200
K 811 18 TN	3.543	90	4.724	120	0.354	9	0.331	0.15	31,500	141	105,000	465	2700
AXK 90120	3.543	90	4.724	120	0.158	4	0.19	0.086	164,000	730	91,000	405	2700
K 812 18 TN	3.543	90	5.315	135	0.551	14	1.195	0.542	65,000	290	200,000	890	2600
K 893 18	3.543	90	6.102	155	0.472	12	7.232	3.28	74,000	330	270,000	1200	2400
K 874 18	3.543	90	7.480	190	0.512	13	2.492	1.13	115,000	510	470,000	2090	2100
K 894 18	3.543	90	7.480	190	0.787	20	4.123	1.87	153,000	680	495,000	2200	2100
K 811 20 TN	3.937	100	5.315	135	0.433	11	0.551	0.25	44,500	199	146,000	650	2500
AXK 100135	3.937	100	5.315	135	0.158	4	0.229	0.104	205,000	910	126,000	560	2500
K 812 20 TN	3.937	100	5.906	150	0.591	15	1.323	0.6	76,500	340	245,000	1080	2300
K 893 20	3.937	100	6.693	170	0.512	13	8.952	4.06	85,000	380	315,000	1400	2100
K 874 20	3.937	100	8.268	210	0.591	15	3.66	1.66	153,000	680	630,000	2800	1900
K 894 20	3.937	100	8.268	210	0.866	22	5.292	2.4	191,000	850	640,000	2850	1900
TC6681	4.1250	104.775	5.0625	128.588	0.1250	3.175	0.071	0.032	14200	63	92000	410	2100
K 811 22 TN	4.331	110	5.709	145	0.433	11	0.595	0.27	46,500	207	157,000	700	2300
AXK 110145	4.331	110	5.709	145	0.158	4	0.269	0.122	218,000	970	139,000	620	2300
K 812 22 TN	4.331	110	6.299	160	0.591	15	1.51	0.685	73,000	325	230,000	1030	2100
K 893 22	4.331	110	7.480	190	0.591	15	13.296	6.03	112,000	500	420,000	1870	1900
K 874 22	4.331	110	9.055	230	0.669	17	4.741	2.15	182,000	810	750,000	3350	1700
K 894 22	4.331	110	9.055	230	0.945	24	7.277	3.3	225,000	1000	760,000	3400	1700
K 811 24 TN	4.724	120	6.102	155	0.433	11	0.639	0.29	48,000	214	171,000	760	2100
AXK 120155	4.724	120	6.102	155	0.158	4	0.289	0.131	22,900	102	153,000	680	2100
K 812 24 TN	4.724	120	6.693	170	0.591	15	1.61	0.73	76,000	340	250,000	1120	2000
K 893 24	4.724	120	8.268	210	0.669	17	18.787	8.52	144,000	640	540,000	2420	1700
K 874 24	4.724	120	9.843	250	0.709	18	6.439	2.92	216,000	960	920,000	4100	1600
K 894 24	4.724	120	9.843	250	1.024	26	9.482	4.3	260,000	1160	900,000	4000	1600
K 811 26 TN	5.118	130	6.693	170	0.472	12	0.838	0.38	56,000	250	202,000	900	1900
AXK 130170	5.118	130	6.693	170	0.197	5	0.452	0.205	30,000	133	189,000	840	1900
K 812 26	5.118	130	7.480	190	0.748	19	2.523	1.144	108,000	480	340,000	1520	1800
K 893 26	5.118	130	8.858	225	0.709	18	22.05	10	160,000	710	610,000	2700	1600
K 874 26	5.118	130	10.630	270	0.748	19	7.519	3.41	236,000	1050	1,020,000	4550	1400
K 894 26	5.118	130	10.630	270	1.102	28	11.025	5	300,000	1330	1,030,000	4600	1400
K 811 28 TN	5.512	140	7.087	180	0.472	12	0.882	0.4	58,000	260	216,000	960	1800
AXK 140180	5.512	140	7.087	180	0.197	5	0.483	0.219	31,000	138	202,000	900	1800
K 812 28	5.512	140	7.874	200	0.748	19	2.639	1.197	100,000	445	325,000	1450	1700



Thrust Roller And Cage Assemblies

- Metric and inch
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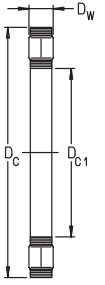
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PART NUMBER	SHAFT D _{c1} inch	SHAFT D _{c1} mm	OD D _c inch	OD D _c mm	ROLLER DIA. inch	ROLLER DIA. mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
K 893 28	5.512	140	9.449	240	0.748	19	26.438	11.99	184,000	820	720,000	3200	1500
K 874 28	5.512	140	11.024	280	0.748	19	8.114	3.68	250,000	1110	1,110,000	4950	1400
K 894 28	5.512	140	11.024	280	1.102	28	13.23	6	310,000	1380	1,110,000	4950	1400
K 811 30 TN	5.906	150	7.480	190	0.472	12	0.948	0.43	61,000	270	229,000	1020	1700
AXK 150190	5.906	150	7.480	190	0.197	5	0.512	0.232	32,000	143	216,000	960	1700
K 812 30	5.906	150	8.465	215	0.827	21	3.352	1.52	133,000	590	435,000	1940	1600
K 893 30	5.906	150	9.843	250	0.748	19	27.849	12.63	189,000	840	750,000	3350	1400
K 874 30	5.906	150	11.811	300	0.827	21	9.812	4.45	285,000	1260	1,240,000	5500	1300
K 894 30	5.906	150	11.811	300	1.181	30	15.656	7.1	355,000	1570	1,280,000	5700	1300
K 811 32	6.299	160	7.874	200	0.472	12	1.114	0.505	61,000	270	235,000	1050	1600
AXK 160200	6.299	160	7.874	200	0.197	5	0.542	0.246	33,500	148	229,000	1020	1600
K 812 32	6.299	160	8.858	225	0.827	21	3.535	1.603	135,000	600	455,000	2030	1500
K 893 32	6.299	160	10.630	270	0.827	21	36.625	16.61	218,000	970	880,000	3900	1300
K 874 32	6.299	160	12.598	320	0.866	22	11.753	5.33	325,000	1450	1,480,000	6600	1200
K 894 32	6.299	160	12.598	320	1.260	32	18.963	8.6	400,000	1780	1,460,000	6500	1200
K 811 34	6.693	170	8.465	215	0.551	14	1.654	0.75	81,000	360	310,000	1380	1500
K 812 34	6.693	170	9.449	240	0.866	22	4.167	1.89	153,000	680	530,000	2340	1400
K 893 34	6.693	170	11.024	280	0.827	21	38.279	17.36	225,000	1000	910,000	4050	1300
K 874 34	6.693	170	13.386	340	0.945	24	14.862	6.74	365,000	1620	1,640,000	7300	1100
K 894 34	6.693	170	13.386	340	1.339	34	22.491	10.2	445,000	1990	1,660,000	7400	1100
K 811 36	7.087	180	8.858	225	0.551	14	1.764	0.8	76,000	340	290,000	1300	1400
K 812 36	7.087	180	9.843	250	0.866	22	4.366	1.98	155,000	690	550,000	2440	1300
K 893 36	7.087	180	11.811	300	0.945	24	48.753	22.11	285,000	1260	1,150,000	5100	1200
K 874 36	7.087	180	14.173	360	0.984	25	18.765	8.51	420,000	1860	1,930,000	8600	1100
K 894 36	7.087	180	14.173	360	1.417	36	26.901	12.2	495,000	2210	1,840,000	8200	1100
K 811 38	7.480	190	9.449	240	0.591	15	2.073	0.94	87,000	385	335,000	1500	1300
K 812 38	7.480	190	10.630	270	1.024	26	6.02	2.73	198,000	880	670,000	3000	1300
K 893 38	7.480	190	12.598	320	1.024	26	59.248	26.87	320,000	1420	1,280,000	5700	1100
K 874 38	7.480	190	14.961	380	1.024	26	19.779	8.97	445,000	1990	2,090,000	9300	1000
K 894 38	7.480	190	14.961	380	1.496	38	31.973	14.5	550,000	2450	2,070,000	9200	1000
K 811 40	7.874	200	9.843	250	0.591	15	2.161	0.98	88,000	390	350,000	1550	1300
K 812 40	7.874	200	11.024	280	1.024	26	6.813	3.09	202,000	900	710,000	3150	1200
K 893 40	7.874	200	13.386	340	1.102	28	70.406	31.93	365,000	1630	1,480,000	6600	1100
K 874 40	7.874	200	15.748	400	1.102	28	23.77	10.78	510,000	2290	2,410,000	10700	950
K 894 40	7.874	200	15.748	400	1.575	40	35.721	16.2	610,000	2700	2,290,000	10200	950
K 811 44	8.661	220	10.630	270	0.591	15	2.911	1.32	94,000	420	390,000	1730	1200
K 812 44	8.661	220	11.811	300	1.024	26	7.387	3.35	211,000	940	780,000	3450	1100
K 894 44	8.661	220	16.535	420	1.575	40	38.808	17.6	650,000	2900	2,600,000	11500	900
K 811 48	9.449	240	11.811	300	0.709	18	4.631	2.1	135,000	600	560,000	2500	1100
K 812 48	9.449	240	13.386	340	1.260	32	12.458	5.65	310,000	1370	1,120,000	5000	1000
K 894 48	9.449	240	17.323	440	1.575	40	42.336	19.2	670,000	3000	2,750,000	12200	850
K 811 52	10.236	260	12.598	320	0.709	18	5.072	2.3	139,000	620	600,000	2650	1000
K 812 52	10.236	260	14.173	360	1.260	32	13.451	6.1	325,000	1440	1,210,000	5400	950
K 894 52	10.236	260	18.898	480	1.732	44	56.228	25.5	800,000	3550	3,300,000	14600	800
K 811 56	11.024	280	13.780	350	0.866	22	6.615	3	193,000	860	820,000	3650	900
K 812 56	11.024	280	14.961	380	1.260	32	14.112	6.4	330,000	1460	1,260,000	5600	850



Thrust Roller And Cage Assemblies

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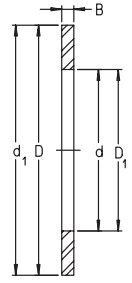
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PART NUMBER	SHAFT D_{c1} inch	SHAFT D_{c1} mm	OD D_c inch	OD D_c mm	ROLLER DIA. inch	ROLLER DIA. mm	WGT. lbs	WGT. kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
K 894 56	11.024	280	20.472	520	1.890	48	67.914	30.8	940,000	4200	3,900,000	17400	700
K 811 60	11.811	300	14.961	380	0.984	25	10.65	4.83	238,000	1060	1,010,000	4500	850
K 812 60	11.811	300	16.535	420	1.496	38	22.381	10.15	435,000	1930	1,640,000	7300	800
K 894 60	11.811	300	21.260	540	1.890	48	72.104	32.7	970,000	4300	4,150,000	18400	700
K 811 64	12.598	320	15.748	400	0.984	25	11.29	5.12	247,000	1100	1,070,000	4750	800
K 812 64	12.598	320	17.323	440	1.496	38	23.594	10.7	440,000	1960	1,710,000	7600	750
K 811 68	13.386	340	16.535	420	0.984	25	12.15	5.51	255,000	1130	1,120,000	5000	750
K 812 68	13.386	340	18.110	460	1.496	38	24.806	11.25	465,000	2060	1,870,000	8300	700
K 811 72	14.173	360	17.323	440	0.984	25	12.238	5.55	255,000	1140	1,150,000	5100	700
K 812 72	14.173	360	19.685	500	1.772	45	38.036	17.25	610,000	2700	2,380,000	10600	650
K 811 76	14.961	380	18.110	460	0.984	25	13.406	6.08	265,000	1170	1,210,000	5400	700
K 812 76	14.961	380	20.472	520	1.772	45	39.029	17.7	620,000	2750	2,470,000	11000	650
K 811 80	15.748	400	18.898	480	0.984	25	14.068	6.38	270,000	1200	1,280,000	5700	650
K 812 80	15.748	400	21.260	540	1.772	45	40.793	18.5	630,000	2800	2,550,000	11400	600
K 811 84	16.535	420	19.685	500	0.984	25	14.333	6.5	275,000	1230	1,330,000	5900	650
K 812 84	16.535	420	22.835	580	2.047	52	57.33	26	790,000	3500	3,200,000	14200	600
K 811 88	17.323	440	21.260	540	1.260	32	25.402	11.52	400,000	1780	1,840,000	8200	600
K 812 88	17.323	440	23.622	600	2.047	52	59.976	27.2	810,000	3600	3,350,000	14800	550
K 811 92	18.110	460	22.047	560	1.260	32	26.24	11.9	415,000	1840	1,960,000	8700	550
K 812 92	18.110	460	24.409	620	2.047	52	62.181	28.2	820,000	3650	3,450,000	15400	550
K 811 96	18.898	480	22.835	580	1.260	32	27.673	12.55	420,000	1860	2,000,000	8900	550
K 812 96	18.898	480	25.591	650	2.205	56	74.529	33.8	920,000	4100	3,800,000	17000	500
K 811/500	19.685	500	23.622	600	1.260	32	28.511	12.93	430,000	1910	2,090,000	9300	500
K 812/500	19.685	500	26.378	670	2.205	56	77.175	35	930,000	4150	3,950,000	17600	490
K 811/530	20.866	530	25.197	640	1.339	34	35.236	15.98	480,000	2140	2,360,000	10500	490
K 812/530	20.866	530	27.953	710	2.362	60	93.161	42.25	1,070,000	4750	4,550,000	20300	460
K 811/560	22.047	560	26.378	670	1.339	34	37.022	16.79	490,000	2190	2,470,000	11000	470
K 812/560	22.047	560	29.528	750	2.362	60	103.635	47	1,090,000	4850	4,750,000	21100	440
K 811/600	23.622	600	27.953	710	1.339	34	39.58	17.95	500,000	2230	2,600,000	11500	440
K 812/600	23.622	600	31.496	800	2.520	64	125.134	56.75	1,240,000	5500	5,400,000	24000	410

Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



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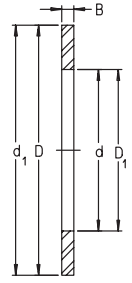
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
AS 0414	0.158	4	0.551	14	0.039	1	0.002	0.001	0.158	4	0.551	14
AS 0515	0.197	5	0.591	15	0.039	1	0.002	0.001	0.197	5	0.591	15
AS 0619	0.236	6	0.748	19	0.039	1	0.004	0.002	0.236	6	0.748	19
LS 0619	0.236	6	0.748	19	0.108	2.75	0.009	0.004	0.236	6	0.748	19
TWA411	0.250	6.350	0.688	17.463	0.032	0.810	0.003	0.001	0.250	6.350	0.688	17.463
TWB411	0.250	6.350	0.688	17.463	0.063	1.600	0.006	0.003	0.250	6.350	0.688	17.463
TWC411	0.250	6.350	0.688	17.463	0.092	2.337	0.008	0.004	0.250	6.350	0.688	17.463
TWD411	0.250	6.350	0.688	17.463	0.126	3.200	0.011	0.005	0.250	6.350	0.688	17.463
TWA512	0.313	7.938	0.750	19.050	0.032	0.810	0.003	0.001	0.313	7.938	0.750	19.050
TWB512	0.313	7.938	0.750	19.050	0.063	1.600	0.007	0.003	0.313	7.938	0.750	19.050
TWC512	0.313	7.938	0.750	19.050	0.092	2.337	0.010	0.004	0.313	7.938	0.750	19.050
TWD512	0.313	7.938	0.750	19.050	0.126	3.200	0.013	0.006	0.313	7.938	0.750	19.050
AS 0821	0.315	8	0.827	21	0.039	1	0.004	0.002	0.315	8	0.827	21
LS 0821	0.315	8	0.827	21	0.108	2.75	0.009	0.004	0.315	8	0.827	21
TWA613	0.375	9.525	0.813	20.638	0.032	0.810	0.003	0.001	0.375	9.525	0.813	20.638
TWB613	0.375	9.525	0.813	20.638	0.063	1.600	0.007	0.003	0.375	9.525	0.813	20.638
TWC613	0.375	9.525	0.813	20.638	0.092	2.337	0.011	0.005	0.375	9.525	0.813	20.638
TWD613	0.375	9.525	0.813	20.638	0.126	3.200	0.015	0.007	0.375	9.525	0.813	20.638
AS 1024	0.394	10	0.945	24	0.039	1	0.007	0.003	0.394	10	0.945	24
LS 1024	0.394	10	0.945	24	0.108	2.75	0.015	0.007	0.394	10	0.945	24
AS 1226	0.472	12	1.024	26	0.039	1	0.007	0.003	0.472	12	1.024	26
LS 1226	0.472	12	1.024	26	0.108	2.75	0.018	0.008	0.472	12	1.024	26
TWA812	0.500	12.700	0.750	19.050	0.032	0.810	0.002	0.001	0.500	12.700	0.750	19.050
TWB812	0.500	12.700	0.750	19.050	0.063	1.600	0.004	0.002	0.500	12.700	0.750	19.050
TWC812	0.500	12.700	0.750	19.050	0.092	2.337	0.006	0.003	0.500	12.700	0.750	19.050
TWD812	0.500	12.700	0.750	19.050	0.126	3.200	0.009	0.004	0.500	12.700	0.750	19.050
TWA815	0.500	12.700	0.938	23.813	0.032	0.810	0.004	0.002	0.500	12.700	0.938	23.813
TWB815	0.500	12.700	0.938	23.813	0.063	1.600	0.009	0.004	0.500	12.700	0.938	23.813
TWC815	0.500	12.700	0.938	23.813	0.092	2.337	0.013	0.006	0.500	12.700	0.938	23.813
TWD815	0.500	12.700	0.938	23.813	0.126	3.200	0.018	0.008	0.500	12.700	0.938	23.813
TWA916	0.563	14.290	1.000	25.400	0.032	0.810	0.004	0.002	0.563	14.290	1.000	25.400
TWB916	0.563	14.290	1.000	25.400	0.063	1.600	0.010	0.004	0.563	14.290	1.000	25.400
TWC916	0.563	14.290	1.000	25.400	0.092	2.337	0.014	0.006	0.563	14.290	1.000	25.400
TWD916	0.563	14.290	1.000	25.400	0.126	3.200	0.019	0.009	0.563	14.290	1.000	25.400
AS 1528	0.591	15	1.102	28	0.039	1	0.007	0.003	0.591	15	1.102	28
GS 81102	0.591	15	1.102	28	0.108	2.75	0.02	0.009	0.630	16	1.102	28
LS 1528	0.591	15	1.102	28	0.108	2.75	0.02	0.009	0.591	15	1.102	28
WS 81102	0.591	15	1.102	28	0.108	2.75	0.02	0.009	0.591	15	1.102	28
TWA1018	0.625	15.875	1.125	28.575	0.032	0.810	0.006	0.003	0.625	15.875	1.125	28.575
TWB1018	0.625	15.875	1.125	28.575	0.063	1.600	0.012	0.006	0.625	15.875	1.125	28.575
TWC1018	0.625	15.875	1.125	28.575	0.092	2.337	0.018	0.008	0.625	15.875	1.125	28.575
TWD1018	0.625	15.875	1.125	28.575	0.126	3.200	0.025	0.011	0.625	15.875	1.125	28.575
AS 1730	0.669	17	1.181	30	0.039	1	0.009	0.004	0.669	17	1.181	30
GS 81103	0.669	17	1.181	30	0.108	2.75	0.02	0.009	0.709	18	1.181	30
LS 1730	0.669	17	1.181	30	0.108	2.75	0.02	0.009	0.669	17	1.181	30
WS 81103	0.669	17	1.181	30	0.108	2.75	0.02	0.009	0.669	17	1.181	30
TWA1120	0.688	17.463	1.250	31.750	0.032	0.810	0.007	0.003	0.688	17.463	1.250	31.750



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



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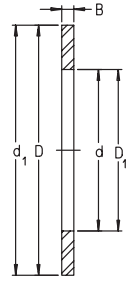
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
TWB1120	0.688	17.463	1.250	31.750	0.063	1.600	0.015	0.007	0.688	17.463	1.250	31.750
TWC1120	0.688	17.463	1.250	31.750	0.092	2.337	0.022	0.010	0.688	17.463	1.250	31.750
TWD1120	0.688	17.463	1.250	31.750	0.126	3.200	0.031	0.014	0.688	17.463	1.250	31.750
TWA1220	0.750	19.050	1.250	31.750	0.032	0.810	0.006	0.003	0.750	19.050	1.250	31.750
TWB1220	0.750	19.050	1.250	31.750	0.063	1.600	0.014	0.006	0.750	19.050	1.250	31.750
TWC1220	0.750	19.050	1.250	31.750	0.092	2.337	0.020	0.009	0.750	19.050	1.250	31.750
TWD1220	0.750	19.050	1.250	31.750	0.126	3.200	0.028	0.013	0.750	19.050	1.250	31.750
AS 2035	0.787	20	1.378	35	0.039	1	0.011	0.005	0.787	20	1.378	35
GS 81104	0.787	20	1.378	35	0.108	2.75	0.029	0.013	0.827	21	1.378	35
LS 2035	0.787	20	1.378	35	0.108	2.75	0.029	0.013	0.787	20	1.378	35
WS 81104	0.787	20	1.378	35	0.108	2.75	0.029	0.013	0.787	20	1.378	35
TWA1423	0.875	22.225	1.438	36.513	0.032	0.810	0.008	0.004	0.875	22.225	1.438	36.513
TWB1423	0.875	22.225	1.438	36.513	0.063	1.600	0.018	0.008	0.875	22.225	1.438	36.513
TWC1423	0.875	22.225	1.438	36.513	0.092	2.337	0.027	0.012	0.875	22.225	1.438	36.513
TWD1423	0.875	22.225	1.438	36.513	0.126	3.200	0.036	0.017	0.875	22.225	1.438	36.513
TWA1427	0.875	22.225	1.688	42.863	0.032	0.810	0.014	0.006	0.875	22.225	1.688	42.863
TWB1427	0.875	22.225	1.688	42.863	0.063	1.600	0.029	0.013	0.875	22.225	1.688	42.863
TWC1427	0.875	22.225	1.688	42.863	0.092	2.337	0.043	0.019	0.875	22.225	1.688	42.863
TWD1427	0.875	22.225	1.688	42.863	0.126	3.200	0.058	0.026	0.875	22.225	1.688	42.863
AS 2542	0.984	25	1.654	42	0.039	1	0.015	0.007	0.984	25	1.654	42
GS 81105	0.984	25	1.654	42	0.118	3	0.042	0.019	1.024	26	1.654	42
LS 2542	0.984	25	1.654	42	0.118	3	0.042	0.019	0.984	25	1.654	42
WS 81105	0.984	25	1.654	42	0.118	3	0.042	0.019	0.984	25	1.654	42
TWA1625	1.000	25.400	1.563	39.688	0.032	0.810	0.009	0.004	1.000	25.400	1.563	39.688
TWB1625	1.000	25.400	1.563	39.688	0.063	1.600	0.020	0.009	1.000	25.400	1.563	39.688
TWC1625	1.000	25.400	1.563	39.688	0.092	2.337	0.029	0.013	1.000	25.400	1.563	39.688
TWD1625	1.000	25.400	1.563	39.688	0.126	3.200	0.040	0.018	1.000	25.400	1.563	39.688
TWA1828	1.125	28.575	1.750	44.450	0.032	0.810	0.012	0.005	1.125	28.575	1.750	44.450
TWB1828	1.125	28.575	1.750	44.450	0.063	1.600	0.025	0.011	1.125	28.575	1.750	44.450
TWC1828	1.125	28.575	1.750	44.450	0.092	2.337	0.037	0.017	1.125	28.575	1.750	44.450
TWD1828	1.125	28.575	1.750	44.450	0.126	3.200	0.050	0.023	1.125	28.575	1.750	44.450
AS 3047	1.181	30	1.850	47	0.039	1	0.018	0.008	1.181	30	1.850	47
GS 81106	1.181	30	1.850	47	0.118	3	0.049	0.022	1.260	32	1.850	47
LS 3047	1.181	30	1.850	47	0.118	3	0.049	0.022	1.181	30	1.850	47
WS 81106	1.181	30	1.850	47	0.118	3	0.049	0.022	1.181	30	1.850	47
GS 812 06	1.181	30	2.047	52	0.167	4.25	0.099	0.045	1.260	32	2.047	52
WS 812 06	1.181	30	2.047	52	0.167	4.25	0.099	0.045	1.181	30	2.047	52
GS 893 06	1.181	30	2.362	60	0.246	6.25	0.209	0.095	1.260	32	2.362	60
WS 893 06	1.181	30	2.362	60	0.246	6.25	0.209	0.095	1.181	30	2.362	60
TWA2031	1.250	31.750	1.938	49.213	0.032	0.810	0.014	0.006	1.250	31.750	1.938	49.213
TWB2031	1.250	31.750	1.938	49.213	0.063	1.600	0.031	0.014	1.250	31.750	1.938	49.213
TWC2031	1.250	31.750	1.938	49.213	0.092	2.337	0.045	0.020	1.250	31.750	1.938	49.213
TWD2031	1.250	31.750	1.938	49.213	0.126	3.200	0.061	0.028	1.250	31.750	1.938	49.213
TWA2233	1.375	34.925	2.063	52.388	0.032	0.810	0.015	0.007	1.375	34.925	2.063	52.388
TWB2233	1.375	34.925	2.063	52.388	0.063	1.600	0.033	0.015	1.375	34.925	2.063	52.388
TWC2233	1.375	34.925	2.063	52.388	0.092	2.337	0.048	0.022	1.375	34.925	2.063	52.388
TWD2233	1.375	34.925	2.063	52.388	0.126	3.200	0.066	0.030	1.375	34.925	2.063	52.388



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

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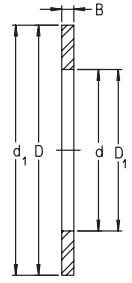
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
AS 3552	1.378	35	2.047	52	0.039	1	0.02	0.009	1.378	35	2.047	52
GS 81107	1.378	35	2.047	52	0.138	3.5	0.064	0.029	1.457	37	2.047	52
LS 3552	1.378	35	2.047	52	0.138	3.5	0.064	0.029	1.378	35	2.047	52
WS 81107	1.378	35	2.047	52	0.138	3.5	0.064	0.029	1.378	35	2.047	52
GS 812 07	1.378	35	2.441	62	0.207	5.25	0.168	0.076	1.457	37	2.441	62
WS 812 07	1.378	35	2.441	62	0.207	5.25	0.168	0.076	1.378	35	2.441	62
GS 893 07	1.378	35	2.677	68	0.276	7	0.295	0.134	1.457	37	2.677	68
WS 893 07	1.378	35	2.677	68	0.276	7	0.295	0.134	1.378	35	2.677	68
TWA2435	1.500	38.100	2.188	55.563	0.032	0.810	0.017	0.008	1.500	38.100	2.188	55.563
TWB2435	1.500	38.100	2.188	55.563	0.063	1.600	0.035	0.016	1.500	38.100	2.188	55.563
TWC2435	1.500	38.100	2.188	55.563	0.092	2.337	0.052	0.024	1.500	38.100	2.188	55.563
TWD2435	1.500	38.100	2.188	55.563	0.126	3.200	0.071	0.032	1.500	38.100	2.188	55.563
AS 4060	1.575	40	2.362	60	0.039	1	0.026	0.012	1.575	40	2.362	60
GS 81108	1.575	40	2.362	60	0.138	3.5	0.088	0.04	1.654	42	2.362	60
LS 4060	1.575	40	2.362	60	0.138	3.5	0.088	0.04	1.575	40	2.362	60
WS 81108	1.575	40	2.362	60	0.138	3.5	0.088	0.04	1.575	40	2.362	60
GS 812 08	1.575	40	2.677	68	0.197	5.0	0.185	0.084	1.654	42	2.677	68
WS 812 08	1.575	40	2.677	68	0.197	5.0	0.185	0.084	1.575	40	2.677	68
GS 893 08	1.575	40	3.071	78	0.295	7.5	0.426	0.193	1.654	42	3.071	78
WS 893 08	1.575	40	3.071	78	0.295	7.5	0.426	0.193	1.575	40	3.071	78
GS 874 08	1.575	40	3.543	90	0.325	8.25	0.684	0.31	1.654	42	3.543	90
WS 874 08	1.575	40	3.543	90	0.325	8.25	0.684	0.31	1.575	40	3.543	90
TWA2840	1.750	44.450	2.500	63.500	0.032	0.810	0.021	0.009	1.750	44.450	2.500	63.500
TWA2870	1.750	44.450	2.500	63.500	0.032	0.810	0.021	0.009	1.750	44.450	2.500	63.500
TWB2840	1.750	44.450	2.500	63.500	0.063	1.600	0.045	0.020	1.750	44.450	2.500	63.500
TWB2870	1.750	44.450	2.500	63.500	0.063	1.600	0.045	0.020	1.750	44.450	2.500	63.500
TWC2840	1.750	44.450	2.500	63.500	0.092	2.337	0.065	0.030	1.750	44.450	2.500	63.500
TWC2870	1.750	44.450	2.500	63.500	0.092	2.337	0.065	0.030	1.750	44.450	2.500	63.500
TWD2840	1.750	44.450	2.500	63.500	0.126	3.200	0.089	0.040	1.750	44.450	2.500	63.500
TWD2870	1.750	44.450	2.500	63.500	0.126	3.200	0.089	0.040	1.750	44.450	2.500	63.500
AS 4565	1.772	45	2.559	65	0.039	1	0.029	0.013	1.772	45	2.559	65
GS 81109	1.772	45	2.559	65	0.158	4	0.11	0.05	1.850	47	2.559	65
LS 4565	1.772	45	2.559	65	0.158	4	0.11	0.05	1.772	45	2.559	65
WS 81109	1.772	45	2.559	65	0.158	4	0.11	0.05	1.772	45	2.559	65
GS 812 09	1.772	45	2.874	73	0.217	5.5	0.223	0.101	1.850	47	2.874	73
WS 812 09	1.772	45	2.874	73	0.217	5.5	0.223	0.101	1.772	45	2.874	73
GS 893 09	1.772	45	3.347	85	0.325	8.25	0.545	0.247	1.850	47	3.347	85
WS 893 09	1.772	45	3.347	85	0.325	8.25	0.545	0.247	1.772	45	3.347	85
GS 874 09	1.772	45	3.937	100	0.354	9	0.97	0.44	1.850	47	3.937	100
WS 874 09	1.772	45	3.937	100	0.354	9	0.97	0.44	1.772	45	3.937	100
AS 5070	1.969	50	2.756	70	0.039	1	0.031	0.014	1.969	50	2.756	70
GS 81110	1.969	50	2.756	70	0.158	4	0.121	0.055	2.047	52	2.756	70
LS 5070	1.969	50	2.756	70	0.158	4	0.121	0.055	1.969	50	2.756	70
WS 81110	1.969	50	2.756	70	0.158	4	0.121	0.055	1.969	50	2.756	70
GS 812 10	1.969	50	3.071	78	0.256	6.5	0.284	0.129	2.047	52	3.071	78
WS 812 10	1.969	50	3.071	78	0.256	6.5	0.284	0.129	1.969	50	3.071	78
GS 893 10	1.969	50	3.740	95	0.374	9.5	0.785	0.356	2.047	52	3.740	95



Thrust Washers

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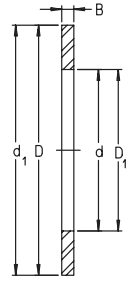
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
WS 893 10	1.969	50	3.740	95	0.374	9.5	0.785	0.356	1.969	50	3.740	95
GS 874 10	1.969	50	4.331	110	0.374	9.5	1.169	0.53	2.047	52	4.331	110
WS 874 10	1.969	50	4.331	110	0.374	9.5	1.169	0.53	1.969	50	4.331	110
TWA3244	2.000	50.800	2.750	69.850	0.032	0.810	0.023	0.011	2.000	50.800	2.750	69.850
TWB3244	2.000	50.800	2.750	69.850	0.063	1.600	0.050	0.023	2.000	50.800	2.750	69.850
TWC3244	2.000	50.800	2.750	69.850	0.092	2.337	0.073	0.033	2.000	50.800	2.750	69.850
TWD3244	2.000	50.800	2.750	69.850	0.126	3.200	0.100	0.045	2.000	50.800	2.750	69.850
TWA3446	2.125	53.975	2.875	73.020	0.032	0.810	0.025	0.011	2.125	53.975	2.875	73.020
TWB3446	2.125	53.975	2.875	73.020	0.063	1.600	0.052	0.024	2.125	53.975	2.875	73.020
TWC3446	2.125	53.975	2.875	73.020	0.092	2.337	0.077	0.035	2.125	53.975	2.875	73.020
TWD3446	2.125	53.975	2.875	73.020	0.126	3.200	0.105	0.048	2.125	53.975	2.875	73.020
AS 5578	2.165	55	3.071	78	0.039	1	0.04	0.018	2.165	55	3.071	78
GS 81111	2.165	55	3.071	78	0.197	5	0.194	0.088	2.244	57	3.071	78
LS 5578	2.165	55	3.071	78	0.197	5	0.194	0.088	2.165	55	3.071	78
WS 81111	2.165	55	3.071	78	0.197	5	0.194	0.088	2.165	55	3.071	78
GS 812 11	2.165	55	3.543	90	0.276	7	0.443	0.201	2.244	57	3.543	90
WS 812 11	2.165	55	3.543	90	0.276	7	0.443	0.201	2.165	55	3.543	90
GS 893 11	2.165	55	4.134	105	0.413	10.5	1.069	0.485	2.244	57	4.134	105
WS 893 11	2.165	55	4.134	105	0.413	10.5	1.069	0.485	2.165	55	4.134	105
GS 874 11	2.165	55	4.724	120	0.413	10.5	1.539	0.698	2.244	57	4.724	120
WS 874 11	2.165	55	4.724	120	0.413	10.5	1.539	0.698	2.165	55	4.724	120
TWA3648	2.250	57.150	3.000	76.200	0.032	0.810	0.026	0.012	2.250	57.150	3.000	76.200
TWB3648	2.250	57.150	3.000	76.200	0.063	1.600	0.055	0.025	2.250	57.150	3.000	76.200
TWC3648	2.250	57.150	3.000	76.200	0.092	2.337	0.081	0.037	2.250	57.150	3.000	76.200
TWD3648	2.250	57.150	3.000	76.200	0.126	3.200	0.110	0.050	2.250	57.150	3.000	76.200
AS 6085	2.362	60	3.347	85	0.039	1	0.049	0.022	2.362	60	3.347	85
GS 81112	2.362	60	3.347	85	0.187	4.75	0.214	0.097	2.441	62	3.347	85
LS 6085	2.362	60	3.347	85	0.187	4.75	0.214	0.097	2.362	60	3.347	85
WS 81112	2.362	60	3.347	85	0.187	4.75	0.214	0.097	2.362	60	3.347	85
GS 812 12	2.362	60	3.740	95	.295	7.5	0.514	0.233	2.441	62	3.740	95
WS 812 12	2.362	60	3.740	95	.295	7.5	0.514	0.233	2.362	60	3.740	95
GS 893 12	2.362	60	4.331	110	0.413	10.5	1.14	0.517	2.441	62	4.331	110
WS 893 12	2.362	60	4.331	110	0.413	10.5	1.14	0.517	2.362	60	4.331	110
GS 874 12	2.362	60	5.118	130	0.453	11.5	2.073	0.94	2.441	62	5.118	130
WS 874 12	2.362	60	5.118	130	0.453	11.5	2.073	0.94	2.362	60	5.118	130
GS 894 12	2.362	60	5.118	130	0.551	14	2.459	1.115	2.441	62	5.118	130
WS 894 12	2.362	60	5.118	130	0.551	14	2.459	1.115	2.362	60	5.118	130
TWA4052	2.500	63.500	3.250	82.550	0.032	0.810	0.028	0.013	2.500	63.500	3.250	82.550
TWB4052	2.500	63.500	3.250	82.550	0.063	1.600	0.060	0.027	2.500	63.500	3.250	82.550
TWC4052	2.500	63.500	3.250	82.550	0.092	2.337	0.088	0.040	2.500	63.500	3.250	82.550
TWD4052	2.500	63.500	3.250	82.550	0.126	3.200	0.121	0.055	2.500	63.500	3.250	82.550
AS 6590	2.559	65	3.543	90	0.039	1	0.053	0.024	2.559	65	3.543	90
GS 81113	2.559	65	3.543	90	0.207	5.25	0.254	0.115	2.638	67	3.543	90
LS 6590	2.559	65	3.543	90	0.207	5.25	0.254	0.115	2.559	65	3.543	90
WS 81113	2.559	65	3.543	90	0.207	5.25	0.254	0.115	2.559	65	3.543	90
GS 812 13	2.559	65	3.937	100	.315	8	0.591	0.268	2.638	67	3.937	100
WS 812 13	2.559	65	3.937	100	.315	8	0.591	0.268	2.559	65	3.937	100



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



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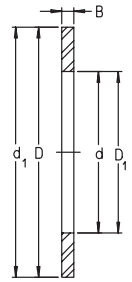
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
GS 893 13	2.559	65	4.528	115	0.413	10.5	1.18	0.535	2.638	67	4.528	115
WS 893 13	2.559	65	4.528	115	0.413	10.5	1.18	0.535	2.559	65	4.528	115
GS 874 13	2.559	65	5.512	140	0.472	12	2.514	1.14	2.677	68	5.512	140
WS 874 13	2.559	65	5.512	140	0.472	12	2.514	1.14	2.559	65	5.512	140
GS 894 13	2.559	65	5.512	140	0.591	15	3.087	1.4	2.677	68	5.512	140
WS 894 13	2.559	65	5.512	140	0.591	15	3.087	1.4	2.559	65	5.512	140
TWA4458	2.750	69.850	3.625	92.075	0.032	0.810	0.037	0.017	2.750	69.850	3.625	92.075
TWB4458	2.750	69.850	3.625	92.075	0.063	1.600	0.078	0.035	2.750	69.850	3.625	92.075
TWC4458	2.750	69.850	3.625	92.075	0.092	2.337	0.114	0.052	2.750	69.850	3.625	92.075
TWD4458	2.750	69.850	3.625	92.075	0.126	3.200	0.156	0.071	2.750	69.850	3.625	92.075
AS 7095	2.756	70	3.740	95	0.039	1	0.055	0.025	2.756	70	3.740	95
GS 81114	2.756	70	3.740	95	0.207	5.25	0.271	0.123	2.835	72	3.740	95
LS 7095	2.756	70	3.740	95	0.207	5.25	0.271	0.123	2.756	70	3.740	95
WS 81114	2.756	70	3.740	95	0.207	5.25	0.271	0.123	2.756	70	3.740	95
GS 812 14	2.756	70	4.134	105	.315	8	0.613	0.278	2.835	72	4.134	105
WS 812 14	2.756	70	4.134	105	.315	8	0.613	0.278	2.756	70	4.134	105
GS 893 14	2.756	70	4.921	125	0.472	12	1.764	0.8	2.835	72	4.921	125
WS 893 14	2.756	70	4.921	125	0.472	12	1.764	0.8	2.756	70	4.921	125
GS 874 14	2.756	70	5.906	150	0.492	12.5	2.999	1.36	2.874	73	5.906	150
WS 874 14	2.756	70	5.906	150	0.492	12.5	2.999	1.36	2.756	70	5.906	150
GS 894 14	2.756	70	5.906	150	0.630	16	3.815	1.73	2.874	73	5.906	150
WS 894 14	2.756	70	5.906	150	0.630	16	3.815	1.73	2.756	70	5.906	150
AS 75100	2.953	75	3.937	100	0.039	1	0.06	0.027	2.953	75	3.937	100
GS 81115	2.953	75	3.937	100	0.226	5.75	0.313	0.142	3.032	77	3.937	100
LS 75100	2.953	75	3.937	100	0.226	5.75	0.313	0.142	2.953	75	3.937	100
WS 81115	2.953	75	3.937	100	0.226	5.75	0.313	0.142	2.953	75	3.937	100
GS 812 15	2.953	75	4.331	110	.315	8	0.646	0.293	3.032	77	4.331	110
WS 812 15	2.953	75	4.331	110	.315	8	0.646	0.293	2.953	75	4.331	110
GS 893 15	2.953	75	5.315	135	0.492	12.5	2.139	0.97	3.032	77	5.315	135
WS 893 15	2.953	75	5.315	135	0.492	12.5	2.139	0.97	2.953	75	5.315	135
GS 874 15	2.953	75	6.299	160	0.512	13	3.55	1.61	3.071	78	6.299	160
WS 874 15	2.953	75	6.299	160	0.512	13	3.55	1.61	2.953	75	6.299	160
GS 894 15	2.953	75	6.299	160	0.669	17	4.608	2.09	3.071	78	6.299	160
WS 894 15	2.953	75	6.299	160	0.669	17	4.608	2.09	2.953	75	6.299	160
TWA4860	3.000	76.200	3.750	95.250	0.032	0.810	0.033	0.015	3.000	76.200	3.750	95.250
TWB4860	3.000	76.200	3.750	95.250	0.063	1.600	0.071	0.032	3.000	76.200	3.750	95.250
TWC4860	3.000	76.200	3.750	95.250	0.092	2.337	0.104	0.047	3.000	76.200	3.750	95.250
TWD4860	3.000	76.200	3.750	95.250	0.126	3.200	0.142	0.064	3.000	76.200	3.750	95.250
AS 80105	3.150	80	4.134	105	0.039	1	0.062	0.028	3.150	80	4.134	105
GS 81116	3.150	80	4.134	105	0.226	5.75	0.333	0.151	3.228	82	4.134	105
LS 80105	3.150	80	4.134	105	0.226	5.75	0.333	0.151	3.150	80	4.134	105
WS 81116	3.150	80	4.134	105	0.226	5.75	0.333	0.151	3.150	80	4.134	105
GS 812 16	3.150	80	4.528	115	.335	8.5	0.734	0.333	3.228	82	4.528	115
WS 812 16	3.150	80	4.528	115	.335	8.5	0.734	0.333	3.150	80	4.528	115
GS 893 16	3.150	80	5.512	140	0.492	12.5	2.249	1.02	3.228	82	5.512	140
WS 893 16	3.150	80	5.512	140	0.492	12.5	2.249	1.02	3.150	80	5.512	140
GS 874 16	3.150	80	6.693	170	0.571	14.5	4.9	2.222	3.268	83	6.693	170



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



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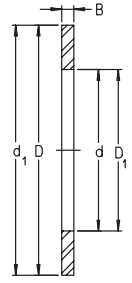
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
WS 874 16	3.150	80	6.693	170	0.571	14.5	4.9	2.222	3.150	80	6.693	170
GS 894 16	3.150	80	6.693	170	0.709	18	5.513	2.5	3.268	83	6.693	170
WS 894 16	3.150	80	6.693	170	0.709	18	5.513	2.5	3.150	80	6.693	170
TWA5266	3.250	82.550	4.125	104.775	0.032	0.810	0.043	0.019	3.250	82.550	4.125	104.775
TWB5266	3.250	82.550	4.125	104.775	0.063	1.600	0.090	0.041	3.250	82.550	4.125	104.775
TWC5266	3.250	82.550	4.125	104.775	0.092	2.337	0.132	0.060	3.250	82.550	4.125	104.775
TWD5266	3.250	82.550	4.125	104.775	0.126	3.200	0.181	0.082	3.250	82.550	4.125	104.775
AS 85110	3.347	85	4.331	110	0.039	1	0.064	0.029	3.347	85	4.331	110
GS 81117	3.347	85	4.331	110	0.226	5.75	0.351	0.159	3.425	87	4.331	110
LS 85110	3.347	85	4.331	110	0.226	5.75	0.351	0.159	3.347	85	4.331	110
WS 81117	3.347	85	4.331	110	0.226	5.75	0.351	0.159	3.347	85	4.331	110
GS 812 17	3.347	85	4.921	125	.374	9.5	1.08	0.49	3.465	88	4.921	125
WS 812 17	3.347	85	4.921	125	.374	9.5	1.08	0.49	3.347	85	4.921	125
GS 893 17	3.347	85	5.906	150	0.532	13.5	2.712	1.23	3.465	88	5.906	150
WS 893 17	3.347	85	5.906	150	0.532	13.5	2.712	1.23	3.347	85	5.906	150
GS 874 17	3.347	85	7.087	180	0.571	14.5	4.961	2.25	3.465	88	7.087	180
WS 874 17	3.347	85	7.087	180	0.571	14.5	4.961	2.25	3.347	85	7.087	180
GS 894 17	3.347	85	7.087	180	0.768	19.5	6.549	2.97	3.465	88	7.087	180
WS 894 17	3.347	85	7.087	180	0.768	19.5	6.549	2.97	3.347	85	7.087	180
AS 90120	3.543	90	4.724	120	0.039	1	0.086	0.039	3.543	90	4.724	120
GS 81118	3.543	90	4.724	120	0.256	6.5	0.516	0.234	3.622	92	4.724	120
LS 90120	3.543	90	4.724	120	0.256	6.5	0.516	0.234	3.543	90	4.724	120
WS 81118	3.543	90	4.724	120	0.256	6.5	0.516	0.234	3.543	90	4.724	120
GS 812 18	3.543	90	5.315	135	.413	10.5	1.354	0.614	3.661	93	5.315	135
WS 812 18	3.543	90	5.315	135	.413	10.5	1.354	0.614	3.543	90	5.315	135
GS 893 18	3.543	90	6.102	155	0.532	13.5	2.933	1.33	3.661	93	6.102	155
WS 893 18	3.543	90	6.102	155	0.532	13.5	2.933	1.33	3.543	90	6.102	155
GS 874 18	3.543	90	7.480	190	0.630	16	6.086	2.76	3.661	93	7.480	190
WS 874 18	3.543	90	7.480	190	0.630	16	6.086	2.76	3.543	90	7.480	190
GS 894 18	3.543	90	7.480	190	0.787	20	7.607	3.45	3.661	93	7.480	190
WS 894 18	3.543	90	7.480	190	0.787	20	7.607	3.45	3.543	90	7.480	190
TWA6074	3.750	95.250	4.625	117.475	0.032	0.810	0.048	0.022	3.750	95.250	4.625	117.475
TWB6074	3.750	95.250	4.625	117.475	0.063	1.600	0.103	0.047	3.750	95.250	4.625	117.475
TWC6074	3.750	95.250	4.625	117.475	0.092	2.337	0.150	0.068	3.750	95.250	4.625	117.475
TWD6074	3.750	95.250	4.625	117.475	0.126	3.200	0.205	0.093	3.750	95.250	4.625	117.475
AS 100135	3.937	100	5.315	135	0.039	1	0.11	0.050	3.937	100	5.315	135
GS 81120	3.937	100	5.315	135	0.276	7	0.772	0.35	4.016	102	5.315	135
LS 100135	3.937	100	5.315	135	0.276	7	0.772	0.35	3.937	100	5.315	135
WS 81120	3.937	100	5.315	135	0.276	7	0.772	0.35	3.937	100	5.315	135
GS 812 20	3.937	100	5.906	150	.453	11.5	1.764	0.8	4.055	103	5.906	150
WS 812 20	3.937	100	5.906	150	.453	11.5	1.764	0.8	3.937	100	5.906	150
GS 893 20	3.937	100	6.693	170	0.571	14.5	3.726	1.69	4.055	103	6.693	170
WS 893 20	3.937	100	6.693	170	0.571	14.5	3.726	1.69	3.937	100	6.693	170
GS 874 20	3.937	100	8.268	210	0.689	17.5	8.114	3.68	4.055	103	8.268	210
WS 874 20	3.937	100	8.268	210	0.689	17.5	8.114	3.68	3.937	100	8.268	210
GS 894 20	3.937	100	8.268	210	0.886	22.5	10.474	4.75	4.055	103	8.268	210
WS 894 20	3.937	100	8.268	210	0.886	22.5	10.474	4.75	3.937	100	8.268	210



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

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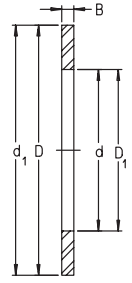
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
TWA6681	4.125	104.775	5.063	128.588	0.032	0.810	0.056	0.025	4.125	104.775	5.063	128.588
TWB6681	4.125	104.775	5.063	128.588	0.063	1.600	0.121	0.055	4.125	104.775	5.063	128.588
TWC6681	4.125	104.775	5.063	128.588	0.092	2.337	0.176	0.080	4.125	104.775	5.063	128.588
TWD6681	4.125	104.775	5.063	128.588	0.126	3.200	0.241	0.109	4.125	104.775	5.063	128.588
AS 110145	4.331	110	5.709	145	0.039	1	0.121	0.055	4.331	110	5.709	145
GS 81122	4.331	110	5.709	145	0.276	7	0.849	0.385	4.409	112	5.709	145
LS 110145	4.331	110	5.709	145	0.276	7	0.849	0.385	4.331	110	5.709	145
WS 81122	4.331	110	5.709	145	0.276	7	0.849	0.385	4.331	110	5.709	145
GS 812 22	4.331	110	6.299	160	.453	11.5	1.94	0.88	4.449	113	6.299	160
WS 812 22	4.331	110	6.299	160	.453	11.5	1.94	0.88	4.331	110	6.299	160
GS 893 22	4.331	110	7.480	190	0.650	16.5	5.38	2.44	4.449	113	7.480	190
WS 893 22	4.331	110	7.480	190	0.650	16.5	5.38	2.44	4.331	110	7.480	190
GS 874 22	4.331	110	9.055	230	0.728	18.5	10.275	4.66	4.449	113	9.055	230
WS 874 22	4.331	110	9.055	230	0.728	18.5	10.275	4.66	4.331	110	9.055	230
GS 894 22	4.331	110	9.055	230	0.965	24.5	13.561	6.15	4.449	113	9.055	230
WS 894 22	4.331	110	9.055	230	0.965	24.5	13.561	6.15	4.331	110	9.055	230
AS 120155	4.724	120	6.102	155	0.039	1	0.13	0.059	4.724	120	6.102	155
GS 81124	4.724	120	6.102	155	0.276	7	0.915	0.415	4.803	122	6.102	155
LS 120155	4.724	120	6.102	155	0.276	7	0.915	0.415	4.724	120	6.102	155
WS 81124	4.724	120	6.102	155	0.276	7	0.915	0.415	4.724	120	6.102	155
GS 812 24	4.724	120	6.693	170	.472	12	2.161	0.98	4.843	123	6.693	170
WS 812 24	4.724	120	6.693	170	.472	12	2.161	0.98	4.724	120	6.693	170
GS 893 24	4.724	120	8.268	210	0.728	18.5	7.497	3.4	4.843	123	8.268	210
WS 893 24	4.724	120	8.268	210	0.728	18.5	7.497	3.4	4.724	120	8.268	210
GS 874 24	4.724	120	9.843	250	0.787	20	13.098	5.94	4.843	123	9.843	250
WS 874 24	4.724	120	9.843	250	0.787	20	13.098	5.94	4.724	120	9.843	250
GS 894 24	4.724	120	9.843	250	1.024	26	16.979	7.7	4.843	123	9.843	250
WS 894 24	4.724	120	9.843	250	1.024	26	16.979	7.7	4.724	120	9.843	250
AS 130170	5.118	130	6.693	170	0.039	1	0.143	0.065	5.118	130	6.693	170
GS 81126	5.118	130	6.693	170	0.354	9	1.462	0.663	5.197	132	6.693	170
LS 130170	5.118	130	6.693	170	0.354	9	1.462	0.663	5.118	130	6.693	170
WS 81126	5.118	130	6.693	170	0.354	9	1.462	0.663	5.118	130	6.693	170
GS 812 26	5.118	130	7.480	190	.512	13	3.374	1.53	5.236	133	7.480	190
WS 812 26	5.118	130	7.480	190	.512	13	3.374	1.53	5.118	130	7.362	187
GS 893 26	5.118	130	8.858	225	0.787	20	8.919	4.045	5.276	134	8.858	225
WS 893 26	5.118	130	8.858	225	0.787	20	8.919	4.045	5.118	130	8.858	225
GS 874 26	5.118	130	10.630	270	0.866	22	16.758	7.6	5.276	134	10.630	270
WS 874 26	5.118	130	10.630	270	0.866	22	16.758	7.6	5.118	130	10.630	270
GS 894 26	5.118	130	10.630	270	1.122	28.5	20.948	9.5	5.276	134	10.630	270
WS 894 26	5.118	130	10.630	270	1.122	28.5	20.948	9.5	5.118	130	10.630	270
AS 140180	5.512	140	7.087	180	0.039	1	0.174	0.079	5.512	140	7.087	180
GS 81128	5.512	140	7.087	180	0.374	9.5	1.652	0.749	5.591	142	7.087	180
LS 140180	5.512	140	7.087	180	0.374	9.5	1.652	0.749	5.512	140	7.087	180
WS 81128	5.512	140	7.087	180	0.374	9.5	1.652	0.749	5.512	140	7.008	178
GS 812 28	5.512	140	7.874	200	.531	13.5	3.605	1.635	5.630	143	7.874	200
WS 812 28	5.512	140	7.874	200	.531	13.5	3.605	1.635	5.512	140	7.756	197
GS 893 28	5.512	140	9.449	240	0.807	20.5	10.584	4.8	5.669	144	9.449	240



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



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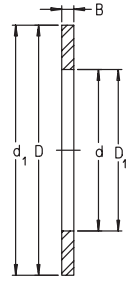
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
WS 893 28	5.512	140	9.449	240	0.807	20.5	10.584	4.8	5.512	140	9.449	240
GS 874 28	5.512	140	11.024	280	0.866	22	17.596	7.98	5.669	144	11.024	280
WS 874 28	5.512	140	11.024	280	0.866	22	17.596	7.98	5.512	140	11.024	280
GS 894 28	5.512	140	11.024	280	1.122	28.5	23.373	10.6	5.669	144	11.024	280
WS 894 28	5.512	140	11.024	280	1.122	28.5	23.373	10.6	5.512	140	11.024	280
AS 150190	5.906	150	7.480	190	0.039	1	0.185	0.084	5.906	150	7.480	190
GS 81130	5.906	150	7.480	190	0.374	9.5	1.755	0.796	5.984	152	7.480	190
LS 150190	5.906	150	7.480	190	0.374	9.5	1.755	0.796	5.906	150	7.480	190
WS 81130	5.906	150	7.480	190	0.374	9.5	1.755	0.796	5.906	150	7.402	188
GS 812 30	5.906	150	8.465	215	.571	14.5	4.807	2.18	6.024	153	8.465	215
WS 812 30	5.906	150	8.465	215	.571	14.5	4.807	2.18	5.906	150	8.347	212
GS 893 30	5.906	150	9.843	250	0.807	20.5	11.157	5.06	6.063	154	9.843	250
WS 893 30	5.906	150	9.843	250	0.807	20.5	11.157	5.06	5.906	150	9.843	250
GS 874 30	5.906	150	11.811	300	0.906	23	21.124	9.58	6.063	154	11.811	300
WS 874 30	5.906	150	11.811	300	0.906	23	21.124	9.58	5.906	150	11.811	300
GS 894 30	5.906	150	11.811	300	1.181	30	27.563	12.5	6.063	154	11.811	300
WS 894 30	5.906	150	11.811	300	1.181	30	27.563	12.5	5.906	150	11.811	300
AS 160200	6.299	160	7.874	200	0.039	1	0.196	0.089	6.299	160	7.874	200
GS 81132	6.299	160	7.874	200	0.374	9.5	1.857	0.842	6.378	162	7.874	200
LS 160200	6.299	160	7.874	200	0.374	9.5	1.857	0.842	6.299	160	7.874	200
WS 81132	6.299	160	7.874	200	0.374	9.5	1.857	0.842	6.299	160	7.795	198
GS 812 32	6.299	160	8.858	225	.591	15	5.072	2.3	6.417	163	8.858	225
WS 812 32	6.299	160	8.858	225	.591	15	5.072	2.3	6.299	160	8.740	222
GS 893 32	6.299	160	10.630	270	0.906	23	14.84	6.73	6.457	164	10.630	270
WS 893 32	6.299	160	10.630	270	0.906	23	14.84	6.73	6.299	160	10.630	270
GS 874 32	6.299	160	12.598	320	1.004	25.5	26.681	12.1	6.457	164	12.598	320
WS 874 32	6.299	160	12.598	320	1.004	25.5	26.681	12.1	6.299	160	12.598	320
GS 894 32	6.299	160	12.598	320	1.240	31.5	32.634	14.8	6.457	164	12.598	320
WS 894 32	6.299	160	12.598	320	1.240	31.5	32.634	14.8	6.299	160	12.598	320
GS 811 34	6.693	170	8.465	215	0.394	10	2.426	1.1	6.772	172	8.465	215
WS 811 34	6.693	170	8.465	215	0.394	10	2.426	1.1	6.693	170	8.386	213
GS 812 34	6.693	170	9.449	240	.650	16.5	6.395	2.9	6.811	173	9.449	240
WS 812 34	6.693	170	9.449	240	.650	16.5	6.395	2.9	6.693	170	9.331	237
GS 893 34	6.693	170	11.024	280	0.906	23	15.501	7.03	6.850	174	11.024	280
WS 893 34	6.693	170	11.024	280	0.906	23	15.501	7.03	6.693	170	11.024	280
GS 874 34	6.693	170	13.386	340	1.063	27	31.973	14.5	6.850	174	13.386	340
WS 874 34	6.693	170	13.386	340	1.063	27	31.973	14.5	6.693	170	13.386	340
GS 894 34	6.693	170	13.386	340	1.358	34.5	40.793	18.5	6.850	174	13.386	340
WS 894 34	6.693	170	13.386	340	1.358	34.5	40.793	18.5	6.693	170	13.386	340
GS 811 36	7.087	180	8.858	225	0.394	10	2.47	1.12	7.205	183	8.858	225
WS 811 36	7.087	180	8.858	225	0.394	10	2.47	1.12	7.087	180	8.740	222
GS 812 36	7.087	180	9.843	250	.669	17	6.902	3.13	7.205	183	9.843	250
WS 812 36	7.087	180	9.843	250	.669	17	6.902	3.13	7.087	180	9.724	247
GS 893 36	7.087	180	11.811	300	0.965	24.5	19.184	8.7	7.244	184	11.811	300
WS 893 36	7.087	180	11.811	300	0.965	24.5	19.184	8.7	7.087	180	11.811	300
GS 874 36	7.087	180	14.173	360	1.122	28.5	37.706	17.1	7.244	184	14.173	360
WS 874 36	7.087	180	14.173	360	1.122	28.5	37.706	17.1	7.087	180	14.173	360



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



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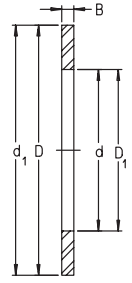
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
GS 894 36	7.087	180	14.173	360	1.437	36.5	46.967	21.3	7.244	184	14.173	360
WS 894 36	7.087	180	14.173	360	1.437	36.5	46.967	21.3	7.087	180	14.173	360
GS 811 38	7.480	190	9.449	240	0.433	11	3.197	1.45	7.598	193	9.449	240
WS 811 38	7.480	190	9.449	240	0.433	11	3.197	1.45	7.480	190	9.331	237
GS 812 38	7.480	190	10.630	270	.709	18	8.456	3.835	7.638	194	10.630	270
WS 812 38	7.480	190	10.630	270	.709	18	8.456	3.835	7.480	190	10.512	267
GS 893 38	7.480	190	12.598	320	1.024	26	23.439	10.63	7.677	195	12.598	320
WS 893 38	7.480	190	12.598	320	1.024	26	23.439	10.63	7.480	190	12.598	320
GS 874 38	7.480	190	14.961	380	1.161	29.5	43.659	19.8	7.677	195	14.961	380
WS 874 38	7.480	190	14.961	380	1.161	29.5	43.659	19.8	7.480	190	14.961	380
GS 894 38	7.480	190	14.961	380	1.516	38.5	56.448	25.6	7.677	195	14.961	380
WS 894 38	7.480	190	14.961	380	1.516	38.5	56.448	25.6	7.480	190	14.961	380
GS 811 40	7.874	200	9.843	250	0.433	11	3.33	1.51	7.992	203	9.843	250
WS 811 40	7.874	200	9.843	250	0.433	11	3.33	1.51	7.874	200	9.724	247
GS 812 40	7.874	200	11.024	280	.709	18	9.724	4.41	8.032	204	11.024	280
WS 812 40	7.874	200	11.024	280	.709	18	9.724	4.41	7.874	200	10.906	277
GS 893 40	7.874	200	13.386	340	1.122	28.5	27.717	12.57	8.071	205	13.386	340
WS 893 40	7.874	200	13.386	340	1.122	28.5	27.717	12.57	7.874	200	13.386	340
GS 874 40	7.874	200	15.748	400	1.221	31	50.715	23	8.071	205	15.748	400
WS 874 40	7.874	200	15.748	400	1.221	31	50.715	23	7.874	200	15.748	400
GS 894 40	7.874	200	15.748	400	1.614	41	64.607	29.3	8.071	205	15.748	400
WS 894 40	7.874	200	15.748	400	1.614	41	64.607	29.3	7.874	200	15.748	400
GS 811 44	8.661	220	10.630	270	0.433	11	3.506	1.59	8.780	223	10.630	270
WS 811 44	8.661	220	10.630	270	0.433	11	3.506	1.59	8.661	220	10.512	267
GS 812 44	8.661	220	11.811	300	.728	18.5	10.474	4.75	8.819	224	11.811	300
WS 812 44	8.661	220	11.811	300	.728	18.5	10.474	4.75	8.661	220	11.693	297
GS 894 44	8.661	220	16.535	420	1.614	41	71.001	32.2	8.858	225	16.535	420
WS 894 44	8.661	220	16.535	420	1.614	41	71.001	32.2	8.661	220	16.535	420
GS 811 48	9.449	240	11.811	300	0.532	13.5	5.667	2.57	9.567	243	11.811	300
WS 811 48	9.449	240	11.811	300	0.532	13.5	5.667	2.57	9.449	240	11.693	297
GS 812 48	9.449	240	13.386	340	.906	23	17.971	8.15	9.606	244	13.386	340
WS 812 48	9.449	240	13.386	340	.906	23	17.971	8.15	9.449	240	13.189	335
GS 894 48	9.449	240	17.323	440	1.614	41	75.632	34.3	9.646	245	17.323	440
WS 894 48	9.449	240	17.323	440	1.614	41	75.632	34.3	9.449	240	17.323	440
GS 811 52	10.236	260	12.598	320	0.532	13.5	6.097	2.765	10.354	263	12.598	320
WS 811 52	10.236	260	12.598	320	0.532	13.5	6.097	2.765	10.236	260	12.480	317
GS 812 52	10.236	260	14.173	360	.927	23.5	19.625	8.9	10.394	264	14.173	360
WS 812 52	10.236	260	14.173	360	.927	23.5	19.625	8.9	10.236	260	13.976	355
GS 894 52	10.236	260	18.898	480	1.732	44	97.571	44.25	10.433	265	18.898	480
WS 894 52	10.236	260	18.898	480	1.732	44	97.571	44.25	10.236	260	18.898	480
GS 811 56	11.024	280	13.780	350	0.610	15.5	8.048	3.65	11.142	283	13.780	350
WS 811 56	11.024	280	13.780	350	0.610	15.5	8.048	3.65	11.024	280	13.661	347
GS 812 56	11.024	280	14.961	380	.945	24	21.499	9.75	11.181	284	14.961	380
WS 812 56	11.024	280	14.961	380	.945	24	21.499	9.75	11.024	280	14.764	375
GS 894 56	11.024	280	20.472	520	1.909	48.5	122.598	55.6	11.221	285	20.472	520
WS 894 56	11.024	280	20.472	520	1.909	48.5	122.598	55.6	11.024	280	20.472	520
GS 811 60	11.811	300	14.961	380	0.728	18.5	13.054	5.92	11.969	304	14.961	380



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

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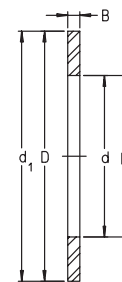
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
WS 811 60	11.811	300	14.961	380	0.728	18.5	13.054	5.92	11.811	300	14.803	376
GS 812 60	11.811	300	16.535	420	1.122	28.5	33.516	15.2	11.969	304	16.535	420
WS 812 60	11.811	300	16.535	420	1.122	28.5	33.516	15.2	11.811	300	16.339	415
GS 894 60	11.811	300	21.260	540	1.909	48.5	176.731	80.15	12.008	305	21.260	540
WS 894 60	11.811	300	21.260	540	1.909	48.5	176.731	80.15	11.811	300	21.260	540
GS 811 64	12.598	320	15.748	400	0.748	19	14.002	6.35	12.756	324	15.748	400
WS 811 64	12.598	320	15.748	400	0.748	19	14.002	6.35	12.598	320	15.591	396
GS 812 64	12.598	320	17.323	440	1.122	28.5	35.17	15.95	12.795	325	17.323	440
WS 812 64	12.598	320	17.323	440	1.122	28.5	35.17	15.95	12.598	320	17.126	435
GS 811 68	13.386	340	16.535	420	0.768	19.5	15.369	6.97	13.543	344	16.535	420
WS 811 68	13.386	340	16.535	420	0.768	19.5	15.369	6.97	13.386	340	16.378	416
GS 812 68	13.386	340	18.110	460	1.142	29	39.139	17.75	13.583	345	18.110	460
WS 812 68	13.386	340	18.110	460	1.142	29	39.139	17.75	13.386	340	17.913	455
GS 811 72	14.173	360	17.323	440	0.787	20	15.38	6.975	14.331	364	17.323	440
WS 811 72	14.173	360	17.323	440	0.787	20	15.38	6.975	14.173	360	17.165	436
GS 812 72	14.173	360	19.685	500	1.280	32.5	53.361	24.2	14.370	365	19.685	500
WS 812 72	14.173	360	19.685	500	1.280	32.5	53.361	24.2	14.173	360	19.488	495
GS 811 76	14.961	380	18.110	460	0.787	20	17.442	7.91	15.118	384	18.110	460
WS 811 76	14.961	380	18.110	460	0.787	20	17.442	7.91	14.961	380	17.953	456
GS 812 76	14.961	380	20.472	520	1.319	33.5	57.771	26.2	15.158	385	20.472	520
WS 812 76	14.961	380	20.472	520	1.319	33.5	57.771	26.2	14.961	380	20.276	515
GS 811 80	15.748	400	18.898	480	0.787	20	18.213	8.26	15.906	404	18.898	480
WS 811 80	15.748	400	18.898	480	0.787	20	18.213	8.26	15.748	400	18.740	476
GS 812 80	15.748	400	21.260	540	1.319	33.5	60.197	27.3	15.945	405	21.260	540
WS 812 80	15.748	400	21.260	540	1.319	33.5	60.197	27.3	15.748	400	21.063	535
GS 811 84	16.535	420	19.685	500	0.787	20	19.073	8.65	16.693	424	19.685	500
WS 811 84	16.535	420	19.685	500	0.787	20	19.073	8.65	16.535	420	19.488	495
GS 812 84	16.535	420	22.835	580	1.535	39	76.734	34.8	16.732	425	22.835	580
WS 812 84	16.535	420	22.835	580	1.535	39	76.734	34.8	16.535	420	22.638	575
GS 811 88	17.323	440	21.260	540	0.945	24	30.76	13.95	17.480	444	21.260	540
WS 811 88	17.323	440	21.260	540	0.945	24	30.76	13.95	17.323	440	21.063	535
GS 812 88	17.323	440	23.622	600	1.535	39	89.303	40.5	17.520	445	23.622	600
WS 812 88	17.323	440	23.622	600	1.535	39	89.303	40.5	17.323	440	23.425	595
GS 811 92	18.110	460	22.047	560	0.945	24	32.171	14.59	18.268	464	22.047	560
WS 811 92	18.110	460	22.047	560	0.945	24	32.171	14.59	18.110	460	21.850	555
GS 812 92	18.110	460	24.409	620	1.535	39	98.784	44.8	18.307	465	24.409	620
WS 812 92	18.110	460	24.409	620	1.535	39	98.784	44.8	18.110	460	24.213	615
GS 811 96	18.898	480	22.835	580	0.945	24	33.296	15.1	19.055	484	22.835	580
WS 811 96	18.898	480	22.835	580	0.945	24	33.296	15.1	18.898	480	22.638	575
GS 812 96	18.898	480	25.591	650	1.555	39.5	104.186	47.25	19.095	485	25.591	650
WS 812 96	18.898	480	25.591	650	1.555	39.5	104.186	47.25	18.898	480	25.394	645
GS811/500	19.685	500	23.622	600	0.945	24	34.354	15.58	19.882	505	23.622	600
WS811/500	19.685	500	23.622	600	0.945	24	34.354	15.58	19.685	500	23.425	595
GS812/500	19.685	500	26.378	670	1.555	39.5	108.045	49	19.882	505	26.378	670
WS812/500	19.685	500	26.378	670	1.555	39.5	108.045	49	19.685	500	26.181	665
GS811/530	20.866	530	25.197	640	1.004	25.5	43.549	19.75	21.063	535	25.197	640
WS811/530	20.866	530	25.197	640	1.004	25.5	43.549	19.75	20.866	530	25.000	635



Thrust Washers

FLAT RACE THRUST WASHERS SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

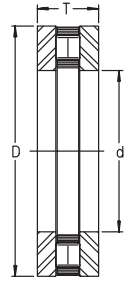
PART NUMBER	SHAFT inch	SHAFT mm	HOUSING inch	HOUSING mm	THICKNESS inch	THICKNESS mm	WEIGHT lbs	WEIGHT kg	BORE inch	BORE mm	OD inch	OD mm
GS812/530	20.866	530	27.953	710	1.575	40	122.929	55.75	21.063	535	27.953	710
WS812/530	20.866	530	27.953	710	1.575	40	122.929	55.75	20.866	530	27.756	705
GS811/560	22.047	560	26.378	670	1.004	25.5	45.313	20.55	22.244	565	26.378	670
WS811/560	22.047	560	26.378	670	1.004	25.5	45.313	20.55	22.047	560	26.181	665
GS812/560	22.047	560	29.528	750	1.772	45	154.791	70.2	22.244	565	29.528	750
WS812/560	22.047	560	29.528	750	1.772	45	154.791	70.2	22.047	560	29.331	745
GS811/600	23.622	600	27.953	710	1.004	25.5	48.29	21.9	23.819	605	27.953	710
WS811/600	23.622	600	27.953	710	1.004	25.5	48.29	21.9	23.622	600	27.756	705
GS812/600	23.622	600	31.496	800	1.890	48	202.199	91.7	23.819	605	31.496	800
WS812/600	23.622	600	31.496	800	1.890	48	202.199	91.7	23.622	600	31.299	795



Roller Thrust Bearings

811 SERIES

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- High axial loads
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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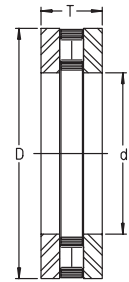
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN.	DYN.	STAT.	STAT.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg	CAP.	CAP.	CAP.	CAP.	
	inch	mm	inch	mm	inch	mm			lbf	N	lbf	N	rpm
811 02 TN	0.591	15	1.102	28	0.354	9	0.053	0.024	3200	14400	6400	28500	13000
811 03 TN	0.669	17	1.181	30	0.354	9	0.06	0.027	3600	15900	7500	33500	12000
811 04 TN	0.787	20	1.378	35	0.394	10	0.082	0.037	5600	24900	11900	53000	10000
811 05 TN	0.984	25	1.654	42	0.433	11	0.117	0.053	7500	33500	17100	76000	8500
811 06 TN	1.181	30	1.85	47	0.433	11	0.126	0.057	8000	35500	19300	86000	7500
811 07 TN	1.378	35	2.047	52	0.472	12	0.161	0.073	8800	39000	22700	101000	6500
811 08 TN	1.575	40	2.362	60	0.512	13	0.232	0.105	12600	56000	33000	148000	6000
811 09 TN	1.772	45	2.559	65	0.551	14	0.287	0.13	13300	59000	37000	163000	5000
811 10 TN	1.969	50	2.756	70	0.551	14	0.309	0.14	13700	61000	40000	177000	4800
811 11 TN	2.165	55	3.071	78	0.63	16	0.481	0.218	20200	90000	67000	300000	4300
811 12 TN	2.362	60	3.346	85	0.669	17	0.587	0.266	23200	103000	71000	315000	4000
811 13 TN	2.559	65	3.543	90	0.709	18	0.684	0.31	24100	107000	76000	340000	3700
811 14 TN	2.756	70	3.74	95	0.709	18	0.732	0.332	25000	111000	82000	365000	3500
811 15 TN	2.953	75	3.937	100	0.748	19	0.867	0.393	24100	107000	79000	350000	3300
811 16 TN	3.150	80	4.134	105	0.748	19	0.882	0.4	23800	106000	79000	350000	3100
811 17 TN	3.347	85	4.331	110	0.748	19	0.926	0.42	25200	112000	87000	385000	3000
811 18 TN	3.543	90	4.724	120	0.866	22	1.367	0.62	32000	141000	105000	465000	2700
811 20 TN	3.937	100	5.315	135	0.984	25	2.095	0.95	45000	199000	146000	650000	2500
811 22 TN	4.331	110	5.709	145	0.984	25	2.293	1.04	47000	207000	157000	700000	2300
811 24 TN	4.724	120	6.102	155	0.984	25	2.47	1.12	48000	214000	171000	760000	2100
811 26 TN	5.118	130	6.693	170	1.181	30	3.682	1.67	56000	250000	202000	900000	1900
811 28 TN	5.512	140	7.087	180	1.22	31	4.19	1.9	58000	260000	216000	960000	1800
811 30 TN	5.906	150	7.48	190	1.22	31	4.454	2.02	61000	270000	229000	1020000	1700
811 32	6.299	160	7.874	200	1.22	31	4.827	2.189	61000	270000	235000	1050000	1600
811 34	6.693	170	8.465	215	1.339	34	6.505	2.95	81000	360000	310000	1380000	1500
811 36	7.087	180	8.858	225	1.339	34	6.703	3.04	76000	340000	292000	1300000	1400
811 38	7.480	190	9.449	240	1.457	37	8.467	3.84	87000	385000	337000	1500000	1300
811 40	7.874	200	9.843	250	1.457	37	8.82	4	88000	390000	350000	1550000	1300
811 44	8.661	220	10.63	270	1.457	37	9.923	4.5	94000	420000	389000	1730000	1200
811 48	9.449	240	11.811	300	1.772	45	15.986	7.25	135000	600000	562000	2500000	1100
811 52	10.236	260	12.598	320	1.772	45	17.265	7.83	139000	620000	596000	2650000	1000
811 56	11.024	280	13.78	350	2.087	53	22.712	10.3	193000	860000	821000	3650000	900
811 60	11.811	300	14.961	380	2.441	62	36.757	16.67	238000	1060000	1012000	4500000	850
811 64	12.598	320	15.748	400	2.48	63	39.293	17.82	247000	1100000	1068000	4750000	800
811 68	13.386	340	16.535	420	2.52	64	42.887	19.45	254000	1130000	1124000	5000000	750
811 72	14.173	360	17.323	440	2.559	65	42.998	19.5	256000	1140000	1147000	5100000	700
811 76	14.961	380	18.11	460	2.559	65	48.29	21.9	263000	1170000	1214000	5400000	700
811 80	15.748	400	18.898	480	2.559	65	50.583	22.94	270000	1200000	1281000	5700000	650
811 84	16.535	420	19.685	500	2.559	65	52.479	23.8	277000	1230000	1326000	5900000	650
811 88	17.323	440	21.26	540	3.15	80	86.921	39.42	400000	1780000	1844000	8200000	600
811 92	18.110	460	22.047	560	3.15	80	90.581	41.08	414000	1840000	1956000	8700000	550
811 96	18.898	480	22.835	580	3.15	80	94.264	42.75	418000	1860000	2001000	8900000	550
811/500	19.685	500	23.622	600	3.15	80	97.218	44.09	429000	1910000	2091000	9300000	500
811/530	20.866	530	25.197	640	3.346	85	122.333	55.48	481000	2140000	2361000	10500000	490
811/560	22.047	560	26.378	670	3.346	85	127.647	57.89	492000	2190000	2473000	11000000	470
811/600	23.622	600	27.953	710	3.346	85	136.159	61.75	501000	2230000	2585000	11500000	440



Roller Thrust Bearings

812 SERIES

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- High axial loads
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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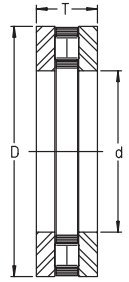
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg	lbf	kN	lbf	kN	
	inch	mm	inch	mm	inch	mm							rpm
812 06 TN	1.181	30	2.047	52	0.630	16	0.271	0.123	14400	64	31700	141	7000
812 07 TN	1.378	35	2.441	62	0.709	18	0.430	0.195	18000	80	44700	199	6000
812 08 TN	1.575	40	2.677	68	0.748	19	0.549	0.249	24100	107	60000	265	5500
812 09 TN	1.772	45	2.874	73	0.787	20	0.633	0.287	23600	105	60000	265	4900
812 10 TN	1.969	50	3.071	78	0.866	22	0.785	0.356	26300	117	71000	315	4500
812 11 TN	2.165	55	3.543	90	0.984	25	1.252	0.568	34600	154	91000	405	4000
812 12 TN	2.362	60	3.740	95	1.024	26	1.416	0.642	38700	172	108000	480	3700
812 13 TN	2.559	65	3.937	100	1.063	27	1.590	0.721	39800	177	112000	500	3500
812 14 TN	2.756	70	4.134	105	1.063	27	1.693	0.768	42000	187	124000	550	3300
812 15 TN	2.953	75	4.331	110	1.063	27	1.764	0.800	38700	172	112000	500	3100
812 16 TN	3.150	80	4.528	115	1.102	28	1.985	0.900	45200	201	142000	630	3000
812 17 TN	3.347	85	4.921	125	1.220	31	2.778	1.260	48800	217	148000	660	2700
812 18 TN	3.543	90	5.315	135	1.378	35	3.903	1.770	65000	290	200000	890	2600
812 20 TN	3.937	100	5.906	150	1.496	38	4.851	2.200	76500	340	245000	1080	2300
812 22 TN	4.331	110	6.299	160	1.496	38	5.049	2.290	73000	325	230000	1030	2100
812 24 TN	4.724	120	6.693	170	1.535	39	5.601	2.540	76000	340	250000	1120	2000
812 26	5.118	130	7.480	190	1.772	45	9.270	4.204	108000	480	340000	1520	1800
812 28	5.512	140	7.874	200	1.811	46	10.070	4.567	102000	455	325000	1450	1700
812 30	5.906	150	8.465	215	1.969	50	12.979	5.886	133000	590	436000	1940	1600
812 32	6.299	160	8.858	225	2.008	51	13.678	6.203	135000	600	456000	2030	1500
812 34	6.693	170	9.449	240	2.165	55	16.956	7.690	153000	680	530000	2340	1400
812 36	7.087	180	9.843	250	2.205	56	18.169	8.240	155000	690	550000	2440	1300
812 38	7.480	190	10.630	270	2.441	62	22.932	10.400	198000	880	670000	3000	1300
812 40	7.874	200	11.024	280	2.441	62	26.262	11.910	202000	900	710000	3150	1200
812 44	8.661	220	11.811	300	2.480	63	28.334	12.850	211000	940	780000	3450	1100
812 48	9.449	240	13.386	340	3.071	78	48.400	21.950	308000	1370	1120000	5000	1000
812 52	10.236	260	14.173	360	3.110	79	52.700	23.900	324000	1440	1210000	5400	950
812 56	11.024	280	14.961	380	3.150	80	57.110	25.900	328000	1460	1260000	5600	850
812 60	11.811	300	16.535	420	3.740	95	89.413	40.550	434000	1930	1640000	7300	800
812 64	12.598	320	17.323	440	3.740	95	93.933	42.600	441000	1960	1710000	7600	750
812 68	13.386	340	18.110	460	3.780	96	103.084	46.750	463000	2060	1870000	8300	700
812 72	14.173	360	19.685	500	4.331	110	144.758	65.650	610000	2700	2380000	10600	650
812 76	14.961	380	20.472	520	4.409	112	154.571	70.100	620000	2750	2470000	11000	650
812 80	15.748	400	21.260	540	4.409	112	161.186	73.100	630000	2800	2560000	11400	600
812 84	16.535	420	22.835	580	5.118	130	210.798	95.600	790000	3500	3190000	14200	600
812 88	17.323	440	23.622	600	5.118	130	238.581	108.200	810000	3600	3330000	14800	550
812 92	18.110	460	24.409	620	5.118	130	259.749	117.800	820000	3650	3460000	15400	550
812 96	18.898	480	25.591	650	5.315	135	282.902	128.300	920000	4100	3820000	17000	500
812/500	19.685	500	26.378	670	5.315	135	293.265	133.000	930000	4150	3960000	17600	490
812/530	20.866	530	27.953	710	5.512	140	339.019	153.750	1070000	4750	4560000	20300	460
812/560	22.047	560	29.528	750	5.906	150	413.217	187.400	1090000	4850	4740000	21100	440
812/600	23.622	600	31.496	800	6.299	160	529.531	240.150	1240000	5500	5400000	24000	410



Roller Thrust Bearings

874 SERIES

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- Very high axial loads
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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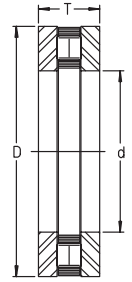
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT		DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg	lbf	kN	lbf	kN	
	inch	mm	inch	mm	inch	mm							rpm
874 08	1.575	40	3.543	90	0.906	23	1.647	0.747	30500	135	108000	480	4400
874 09	1.772	45	3.937	100	0.984	25	2.324	1.054	34500	154	126000	560	4000
874 10 TN	1.969	50	4.331	110	1.063	27	2.902	1.316	45000	200	166000	740	3600
874 11	2.165	55	4.724	120	1.142	29	3.746	1.699	50000	222	196000	870	3300
874 12	2.362	60	5.118	130	1.260	32	4.983	2.260	58000	260	225000	1000	3000
874 13	2.559	65	5.512	140	1.339	34	6.064	2.750	67000	300	255000	1140	2800
874 14	2.756	70	5.906	150	1.417	36	7.431	3.370	81000	360	310000	1380	2600
874 15	2.953	75	6.299	160	1.496	38	8.864	4.020	97000	430	375000	1660	2500
874 16	3.150	80	6.693	170	1.614	41	11.731	5.320	101000	450	405000	1810	2300
874 17	3.347	85	7.087	180	1.654	42	12.194	5.530	109000	485	430000	1920	2200
874 18	3.543	90	7.480	190	1.772	45	14.663	6.650	115000	510	470000	2090	2100
874 20	3.937	100	8.268	210	1.969	50	19.889	9.020	153000	680	630000	2800	1900
874 22	4.331	110	9.055	230	2.126	54	25.291	11.470	182000	810	750000	3350	1700
874 24	4.724	120	9.843	250	2.283	58	32.634	14.800	216000	960	920000	4100	1600
874 26	5.118	130	10.630	270	2.480	63	41.035	18.610	236000	1050	1020000	4550	1400
874 28	5.512	140	11.024	280	2.480	63	43.306	19.640	250000	1110	1110000	4950	1400
874 30	5.906	150	11.811	300	2.638	67	52.060	23.610	285000	1260	1240000	5500	1300
874 32	6.299	160	12.598	320	2.874	73	65.114	29.530	325000	1450	1480000	6600	1200
874 34	6.693	170	13.386	340	3.071	78	78.807	35.740	365000	1620	1640000	7300	1100
874 36	7.087	180	14.173	360	3.228	82	94.176	42.710	420000	1860	1930000	8600	1100
874 38	7.480	190	14.961	380	3.346	85	107.097	48.570	445000	1990	2090000	9300	1000
874 40	7.874	200	15.748	400	3.543	90	125.200	56.780	520000	2290	2410000	10700	950



Roller Thrust Bearings

893 SERIES

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- Very high axial loads
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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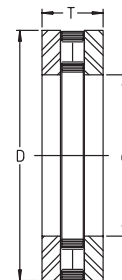
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
893 06 TN	1.181	30	2.362	60	0.709	18	0.529	0.240	15500	69	44500	197	6500
893 07 TN	1.378	35	2.677	68	0.787	20	0.750	0.340	18000	80	53000	237	5500
893 08 TN	1.575	40	3.071	78	0.866	22	1.067	0.484	27500	122	87000	385	4900
893 09 TN	1.772	45	3.346	85	0.945	24	1.356	0.615	31500	139	100000	445	4400
893 10 TN	1.969	50	3.740	95	1.063	27	1.956	0.887	37500	167	126000	560	4000
893 11 TN	2.165	55	4.134	105	1.181	30	2.602	1.180	41500	184	135000	600	3600
893 12 TN	2.362	60	4.331	110	1.181	30	2.778	1.260	44000	196	151000	670	3400
893 13 TN	2.559	65	4.528	115	1.181	30	2.933	1.330	43500	194	151000	670	3200
893 14 TN	2.756	70	4.921	125	1.339	34	4.013	1.820	54000	239	187000	830	3000
893 15 TN	2.953	75	5.315	135	1.417	36	4.917	2.230	64000	285	227000	1010	2700
893 16 TN	3.150	80	5.512	140	1.417	36	5.226	2.370	69000	305	250000	1110	2600
893 17	3.347	85	5.906	150	1.535	39	6.615	3.000	73000	325	255000	1140	2500
893 18	3.543	90	6.102	155	1.535	39	7.232	3.280	74000	330	270000	1200	2400
893 20 TN	3.937	100	6.693	170	1.654	42	8.952	4.060	85000	380	315000	1400	2100
893 22	4.331	110	7.480	190	1.890	48	13.296	6.030	112000	500	420000	1870	1900
893 24	4.724	120	8.268	210	2.126	54	18.787	8.520	144000	640	545000	2420	1700
893 26	5.118	130	8.858	225	2.283	58	22.050	10.000	160000	710	605000	2700	1600
893 28	5.512	140	9.449	240	2.362	60	26.438	11.990	184000	820	720000	3200	1500
893 30	5.906	150	9.843	250	2.362	60	27.849	12.630	189000	840	755000	3350	1400
893 32	6.299	160	10.630	270	2.638	67	36.625	16.610	218000	970	875000	3900	1300
893 34	6.693	170	11.024	280	2.638	67	38.279	17.360	225000	1000	901000	4050	1300
893 36	7.087	180	11.811	300	2.874	73	48.753	22.110	285000	1260	1145000	5100	1200
893 38	7.480	190	12.598	320	3.071	78	59.248	26.870	320000	1420	1280000	5700	1100
893 40	7.874	200	13.386	340	3.346	85	70.406	31.930	365000	1630	1485000	6600	1100



Roller Thrust Bearings

894 SERIES

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- Very high axial loads
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
894 12 TN	2.362	60	5.118	130	1.654	42	6.214	2.818	88000	390	274000	1220	3000
894 13 TN	2.559	65	5.512	140	1.772	45	7.762	3.520	100000	445	317000	1410	2800
894 14 TN	2.756	70	5.906	150	1.890	48	9.217	4.180	101000	450	313000	1390	2600
894 15	2.953	75	6.299	160	2.008	51	11.576	5.250	112000	500	355000	1580	2500
894 16	3.150	80	6.693	170	2.126	54	14.134	6.410	126000	560	398000	1770	2300
894 17	3.347	85	7.087	180	2.283	58	16.648	7.550	139000	620	445000	1980	2200
894 18	3.543	90	7.480	190	2.362	60	19.338	8.770	153000	680	495000	2200	2100
894 20	3.937	100	8.268	210	2.638	67	26.240	11.900	191000	850	641000	2850	1900
894 22	4.331	110	9.055	230	2.874	73	34.398	15.600	225000	1000	764000	3400	1700
894 24	4.724	120	9.843	250	3.071	78	43.439	19.700	261000	1160	899000	4000	1600
894 26	5.118	130	10.630	270	3.346	85	52.920	24.000	299000	1330	1034000	4600	1400
894 28	5.512	140	11.024	280	3.346	85	59.976	27.200	310000	1380	1113000	4950	1400
894 30	5.906	150	11.811	300	3.543	90	70.781	32.100	353000	1570	1281000	5700	1300
894 32	6.299	160	12.598	320	3.740	95	84.231	38.200	400000	1780	1461000	6500	1200
894 34	6.693	170	13.386	340	4.055	103	104.076	47.200	447000	1990	1664000	7400	1100
894 36	7.087	180	14.173	360	4.291	109	120.834	54.800	497000	2210	1844000	8200	1100
894 38	7.480	190	14.961	380	4.528	115	144.869	65.700	551000	2450	2068000	9200	1000
894 40	7.874	200	15.748	400	4.803	122	164.934	74.800	607000	2700	2293000	10200	950
894 44	8.661	220	16.535	420	4.803	122	180.810	82.000	652000	2900	2585000	11500	900
894 48	9.449	240	17.323	440	4.803	122	193.599	87.800	674000	3000	2743000	12200	850
894 52	10.236	260	18.898	480	5.197	132	251.370	114.000	798000	3550	3282000	14600	800
894 56	11.024	280	20.472	520	5.709	145	313.110	142.000	944000	4200	3912000	17400	700
894 60	11.811	300	21.260	540	5.709	145	337.365	153.000	967000	4300	4137000	18400	700

Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series, multi-row
- 893, 894 series, double row



811 SHOWN FOR REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
811 02 TN	K 811 02 TN	GS 811 02	WS 811 02
811 03 TN	K 811 03 TN	GS 811 03	WS 811 03
811 04 TN	K 811 04 TN	GS 811 04	WS 811 04
811 05 TN	K 811 05 TN	GS 811 05	WS 811 05
811 06 TN	K 811 06 TN	GS 811 06	WS 811 06
811 07 TN	K 811 07 TN	GS 811 07	WS 811 07
811 08 TN	K 811 08 TN	GS 811 08	WS 811 08
811 09 TN	K 811 09 TN	GS 811 09	WS 811 09
811 10 TN	K 811 10 TN	GS 811 10	WS 811 10
811 11 TN	K 811 11 TN	GS 811 11	WS 811 11
811 12 TN	K 811 12 TN	GS 811 12	WS 811 12
811 13 TN	K 811 13 TN	GS 811 13	WS 811 13
811 14 TN	K 811 14 TN	GS 811 14	WS 811 14
811 15 TN	K 811 15 TN	GS 811 15	WS 811 15
811 16 TN	K 811 16 TN	GS 811 16	WS 811 16
811 17 TN	K 811 17 TN	GS 811 17	WS 811 17
811 18 TN	K 811 18 TN	GS 811 18	WS 811 18
811 20 TN	K 811 20 TN	GS 811 20	WS 811 20
811 22 TN	K 811 22 TN	GS 811 22	WS 811 22
811 24 TN	K 811 24	GS 811 24	WS 811 24
811 26 TN	K 811 26	GS 811 26	WS 811 26
811 28 TN	K 811 28	GS 811 28	WS 811 28
811 30 TN	K 811 30	GS 811 30	WS 811 30
811 32	K 811 32	GS 811 32	WS 811 32
811 34	K 811 34	GS 811 34	WS 811 34
811 36	K 811 36	GS 811 36	WS 811 36
811 38	K 811 38	GS 811 38	WS 811 38
811 40	K 811 40	GS 811 40	WS 811 40
811 44	K 811 44	GS 811 44	WS 811 44
811 48	K 811 48	GS 811 48	WS 811 48
811 52	K 811 52	GS 811 52	WS 811 52
811 56	K 811 56	GS 811 56	WS 811 56
811 60	K 811 60	GS 811 60	WS 811 60
811 64	K 811 64	GS 811 64	WS 811 64
811 68	K 811 68	GS 811 68	WS 811 68
811 72	K 811 72	GS 811 72	WS 811 72
811 76	K 811 76	GS 811 76	WS 811 76
811 80	K 811 80	GS 811 80	WS 811 80
811 84	K 811 84	GS 811 84	WS 811 84
811 88	K 811 88	GS 811 88	WS 811 88
811 92	K 811 92	GS 811 92	WS 811 92
811 96	K 811 96	GS 811 96	WS 811 96
811/500	K811/500	GS811/500	WS811/500
811/530	K811/530	GS811/530	WS811/530
811/560	K811/560	GS811/560	WS811/560
811/600	K811/600	GS811/600	WS811/600
812 06 TN	K812 06 TN	GS 812 06	WS 812 06



Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series, multi-row
- 893, 894 series, double row



811 SHOWN FOR REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
812 07 TN	K812 07 TN	GS 812 07	WS 812 07
812 08 TN	K812 08 TN	GS 812 08	WS 812 08
812 09 TN	K812 09 TN	GS 812 09	WS 812 09
812 10 TN	K812 10 TN	GS 812 10	WS 812 10
812 11 TN	K812 11 TN	GS 812 11	WS 812 11
812 12 TN	K812 12 TN	GS 812 12	WS 812 12
812 13 TN	K812 13 TN	GS 812 13	WS 812 13
812 14 TN	K812 14 TN	GS 812 14	WS 812 14
812 15 TN	K812 15 TN	GS 812 15	WS 812 15
812 16 TN	K812 16 TN	GS 812 16	WS 812 16
812 17 TN	K812 17 TN	GS 812 17	WS 812 17
812 18 TN	K812 18 TN	GS 812 18	WS 812 18
812 20 TN	K812 20 TN	GS 812 20	WS 812 20
812 22 TN	K812 22 TN	GS 812 22	WS 812 22
812 24 TN	K812 24 TN	GS 812 24	WS 812 24
812 26	K812 26	GS 812 26	WS 812 26
812 28	K812 28	GS 812 28	WS 812 28
812 30	K812 30	GS 812 30	WS 812 30
812 32	K812 32	GS 812 32	WS 812 32
812 34	K812 34	GS 812 34	WS 812 34
812 36	K812 36	GS 812 36	WS 812 36
812 38	K812 38	GS 812 38	WS 812 38
812 40	K812 40	GS 812 40	WS 812 40
812 44	K812 44	GS 812 44	WS 812 44
812 48	K812 48	GS 812 48	WS 812 48
812 52	K812 52	GS 812 52	WS 812 52
812 56	K812 56	GS 812 56	WS 812 56
812 60	K812 60	GS 812 60	WS 812 60
812 64	K812 64	GS 812 64	WS 812 64
812 68	K812 68	GS 812 68	WS 812 68
812 72	K812 72	GS 812 72	WS 812 72
812 76	K812 76	GS 812 76	WS 812 76
812 80	K812 80	GS 812 80	WS 812 80
812 84	K812 84	GS 812 84	WS 812 84
812 88	K812 88	GS 812 88	WS 812 88
812 92	K812 92	GS 812 92	WS 812 92
812 96	K812 96	GS 812 96	WS 812 96
812/500	K812/500	GS812/500	WS812/500
812/530	K812/530	GS812/530	WS812/530
812/560	K812/560	GS812/560	WS812/560
812/600	K812/600	GS812/600	WS812/600
874 08	K 874 08	GS 874 08	WS 874 08
874 09	K 874 09	GS 874 09	WS 874 09
874 10 TN	K 874 10 TN	GS 874 10	WS 874 10
874 11	K 874 11	GS 874 11	WS 874 11
874 12	K 874 12	GS 874 12	WS 874 12
874 13	K 874 13	GS 874 13	WS 874 13



Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series, multi-row
- 893, 894 series, double row



811 SHOWN FOR REFERENCE

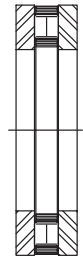
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
874 14	K 874 14	GS 874 14	WS 874 14
874 15	K 874 15	GS 874 15	WS 874 15
874 16	K 874 16	GS 874 16	WS 874 16
874 17	K 874 17	GS 874 17	WS 874 17
874 18	K 874 18	GS 874 18	WS 874 18
874 20	K 874 20	GS 874 20	WS 874 20
874 22	K 874 22	GS 874 22	WS 874 22
874 24	K 874 24	GS 874 24	WS 874 24
874 26	K 874 26	GS 874 26	WS 874 26
874 28	K 874 28	GS 874 28	WS 874 28
874 30	K 874 30	GS 874 30	WS 874 30
874 32	K 874 32	GS 874 32	WS 874 32
874 34	K 874 34	GS 874 34	WS 874 34
874 36	K 874 36	GS 874 36	WS 874 36
874 38	K 874 38	GS 874 38	WS 874 38
874 40	K 874 40	GS 874 40	WS 874 40
893 06 TN	K 893 06 TN	GS 893 06	WS 893 06
893 07 TN	K 893 07 TN	GS 893 07	WS 893 07
893 08 TN	K 893 08 TN	GS 893 08	WS 893 08
893 09 TN	K 893 09 TN	GS 893 09	WS 893 09
893 10 TN	K 893 10 TN	GS 893 10	WS 893 10
893 11 TN	K 893 11 TN	GS 893 11	WS 893 11
893 12 TN	K 893 12 TN	GS 893 12	WS 893 12
893 13 TN	K 893 13 TN	GS 893 13	WS 893 13
893 14 TN	K 893 14 TN	GS 893 14	WS 893 14
893 15 TN	K 893 15 TN	GS 893 15	WS 893 15
893 16 TN	K 893 16 TN	GS 893 16	WS 893 16
893 17	K 893 17	GS 893 17	WS 893 17
893 18	K 893 18	GS 893 18	WS 893 18
893 20 TN	K 893 20	GS 893 20	WS 893 20
893 22	K 893 22	GS 893 22	WS 893 22
893 24	K 893 24	GS 893 24	WS 893 24
893 26	K 893 26	GS 893 26	WS 893 26
893 28	K 893 28	GS 893 28	WS 893 28
893 30	K 893 30	GS 893 30	WS 893 30
893 32	K 893 32	GS 893 32	WS 893 32
893 34	K 893 34	GS 893 34	WS 893 34
893 36	K 893 36	GS 893 36	WS 893 36
893 38	K 893 38	GS 893 38	WS 893 38
893 40	K 893 40	GS 893 40	WS 893 40
894 12 TN	K 894 12 TN	GS 894 12	WS 894 12
894 13 TN	K 894 13 TN	GS 894 13	WS 894 13
894 14 TN	K 894 14	GS 894 14	WS 894 14
894 15	K 894 15	GS 894 15	WS 894 15
894 16	K 894 16	GS 894 16	WS 894 16
894 17	K 894 17	GS 894 17	WS 894 17
894 18	K 894 18	GS 894 18	WS 894 18



Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series, multi-row
- 893, 894 series, double row



811 SHOWN FOR REFERENCE

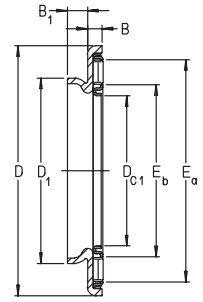
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
894 20	K 894 20	GS 894 20	WS 894 20
894 22	K 894 22	GS 894 22	WS 894 22
894 24	K 894 24	GS 894 24	WS 894 24
894 26	K 894 26	GS 894 26	WS 894 26
894 28	K 894 28	GS 894 28	WS 894 28
894 30	K 894 30	GS 894 30	WS 894 30
894 32	K 894 32	GS 894 32	WS 894 32
894 34	K 894 34	GS 894 34	WS 894 34
894 36	K 894 36	GS 894 36	WS 894 36
894 38	K 894 38	GS 894 38	WS 894 38
894 40	K 894 40	GS 894 40	WS 894 40
894 44	K 894 44	GS 894 44	WS 894 44
894 48	K 894 48	GS 894 48	WS 894 48
894 52	K 894 52	GS 894 52	WS 894 52
894 56	K 894 56	GS 894 56	WS 894 56
894 60	K 894 60	GS 894 60	WS 894 60

Piloted Thrust Bearings

AXW SERIES

- Consisting of AXK axial needle roller cage and centering spigot on washer for piloting cage
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT D _{c1}	SHAFT D _{c1}	OD. D	OD. D	WIDTH B ₁	WIDTH B ₁	WEIGHT	WEIGHT	DYN. CAP. C	DYN. CAP. C	STAT. CAP. C ₀	STAT. CAP. C ₀
	inch	mm	inch	mm	inch	mm	lbs	g	lbf	kN	lbf	kN
AXW 10	0.394	10	1.063	27	0.126	3.2	.018	8.3	2,070	9.2	5,700	25.5
AXW 12	0.472	12	1.142	29	0.126	3.2	.020	9.1	2,230	9.9	6,500	29
AXW 15	0.591	15	1.221	31	0.126	3.2	.022	10	2,550	11.3	8,100	36
AXW 17	0.669	17	1.299	33	0.126	3.2	.024	11	2,700	11.9	8,900	39.5
AXW 20	0.787	20	1.496	38	0.126	3.2	.031	14	2,950	13.1	10,500	46.5
AXW 25	0.984	25	1.772	45	0.126	3.2	.044	20	3,300	14.7	13,000	58
AXW 30	1.181	30	1.969	50	0.126	3.2	.048	22	3,650	16.3	15,700	70
AXW 35	1.378	35	2.165	55	0.126	3.2	.060	27	4,000	17.8	18,200	81
AXW 40	1.575	40	2.480	63	0.165	4.2	.086	39	6,300	28	25,500	114
AXW 45	1.772	45	2.677	68	0.165	4.2	.095	43	6,700	30	29,000	128
AXW 50	1.969	50	2.874	73	0.165	4.2	.108	49	7,200	32	32,000	143

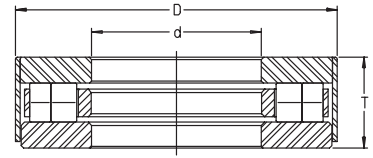
PART NUMBER	CENTER WASHER OD D ₁	CENTER WASHER OD D ₁	CENTER WASHER WIDTH B	CENTER WASHER WIDTH B	SPEED LIMIT	INTERNAL RACEWAY DIA. E _b	INTERNAL RACEWAY DIA. E _b	EXTERNAL RACEWAY DIA. E _a	EXTERNAL RACEWAY DIA. E _a
	inch	mm	inch	mm	rpm	inch	mm	inch	mm
AXW 10	0.551	14	0.118	3	16000	0.472	12	0.906	23
AXW 12	0.630	16	0.118	3	14000	0.551	14	0.984	25
AXW 15	0.827	21	0.138	3.5	13000	0.669	17	1.063	27
AXW 17	0.906	23	0.138	3.5	12000	0.748	19	1.142	29
AXW 20	1.024	26	0.138	3.5	10000	0.866	22	1.339	34
AXW 25	1.260	32	0.158	4	8000	1.142	29	1.614	41
AXW 30	1.457	37	0.158	4	7000	1.339	34	1.811	46
AXW 35	1.654	42	0.158	4	6500	1.535	39	2.008	51
AXW 40	1.850	47	0.158	4	5500	1.772	45	2.284	58
AXW 45	2.047	52	0.158	4	5000	1.969	50	2.480	63
AXW 50	2.284	58	0.177	4.5	4700	2.165	55	2.677	68



Cylindrical Roller Thrust Bearings

RCT SERIES

- Crane hook type
- Single direction
- Flat race
- Speed limit shown is for oil lubrication



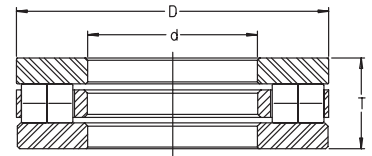
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
RCT11	1.625	41.275	3.093	78.562	0.812	20.625	1.001	0.454	20600	92	55000	243	3300
RCT16	1.938	49.213	3.246	82.448	0.812	20.625	0.979	0.444	24200	107	62000	275	2900
RCT17	2.000	50.800	3.952	100.380	1.000	25.400	2.073	0.940	37000	165	90000	400	2700
RCT19	2.250	57.150	4.000	101.600	1.000	25.400	1.949	0.884	38500	172	97000	435	2500
RCT20C	2.250	57.150	4.250	107.950	1.000	25.400	2.320	1.052	38500	172	97000	430	2500
RCT20B	2.313	58.738	4.265	108.331	1.005	25.527	2.304	1.045	38500	172	97000	430	2500
RCT23	2.750	69.850	4.750	120.650	1.000	25.400	2.675	1.213	41500	184	112000	500	2100
RCT24A	2.750	69.850	4.875	123.825	1.250	31.750	3.614	1.639	56000	248	142000	630	2000
RCT23B	2.813	71.438	4.750	120.650	1.000	25.400	2.613	1.185	41500	184	112000	500	2100
RCT27A	3.250	82.550	6.125	155.575	1.500	38.100	7.226	3.277	94000	420	260000	1170	1700
RCT27C	3.250	82.550	6.187	157.150	1.750	44.450	8.668	3.931	94000	420	260000	1170	1700
RCT27B	3.500	88.900	6.156	156.362	1.625	41.275	7.444	3.376	99000	440	280000	1250	1600
RCT28A	3.500	88.900	6.750	171.450	1.625	41.275	9.678	4.389	90000	400	285000	1280	1500
RCT30B	3.563	90.488	6.375	161.925	1.375	34.925	6.866	3.114	77000	340	234000	1040	1500
RCT34A	3.750	95.250	7.125	180.975	1.875	47.625	12.306	5.581	125000	560	390000	1740	1400
RCT35A	4.250	107.950	8.171	207.543	2.000	50.800	17.424	7.902	130000	580	435000	1940	1200
RCT38A	4.500	114.300	8.125	206.375	2.000	50.800	16.368	7.423	144000	640	510000	2260	1100
RCT39A	5.000	127.000	9.156	232.562	2.250	57.150	23.682	10.740	170000	750	630000	2800	1100
RCT44A	5.500	139.700	10.100	256.540	2.500	63.500	41.200	18.700	285000	1270	840000	3750	1000
RCT45B	5.563	141.288	11.500	292.100	2.000	50.800	36.283	16.455	265000	1180	1070000	4750	900
RCT45A	6.000	152.400	11.156	283.362	3.000	76.200	47.498	21.541	370000	1640	1070000	4750	900
RCT49A	6.813	173.038	12.750	323.850	2.500	63.500	51.994	23.580	380000	1680	1280000	5700	800
RCT52	8.438	214.313	14.500	368.300	3.000	76.200	74.692	33.874	445000	1970	1650000	7300	700
RCT54	9.313	236.538	16.500	419.100	3.000	76.200	99.681	45.207	395000	1750	1500000	6700	600

Cylindrical Roller Thrust Bearings

RT600 SERIES

- Medium cross section
- Single direction
- Flat race
- Available in self aligning RTW600 series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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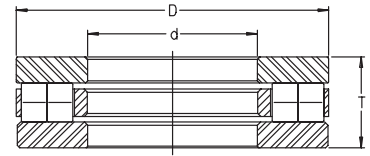
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN.	DYN.	STAT.	STAT.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg	CAP.	CAP.	CAP.	CAP.	
	inch	mm	inch	mm	inch	mm			lbf	kN	lbf	kN	rpm
RT601	1.000	25.400	2.126	53.988	0.813	20.638	0.512	0.232	13100	58	24000	107	5500
RT602	1.062	26.962	2.126	53.988	0.812	20.625	0.494	0.224	13100	58	24000	107	5500
RT603	1.125	28.575	2.250	57.150	0.813	20.638	0.553	0.251	14100	63	27000	120	5500
RT604	1.188	30.163	2.250	57.150	0.813	20.637	0.531	0.241	14100	63	27000	120	5000
RT605	1.250	31.750	2.375	60.325	0.813	20.637	0.595	0.27	16000	71	32000	143	5000
RT606	1.313	33.338	2.375	60.325	0.813	20.637	0.571	0.259	16000	71	32000	143	5000
RT607	1.375	34.925	2.875	73.025	0.813	20.637	0.928	0.421	21900	98	51000	226	4300
RT608	1.437	36.500	2.875	73.025	0.812	20.625	0.904	0.41	21900	98	51000	226	4300
RT609	1.500	38.100	3.000	76.200	0.813	20.637	0.983	0.446	21300	95	49500	221	4100
RT610	1.562	39.675	3.000	76.200	0.812	20.625	0.955	0.433	20800	93	49500	221	3700
RT611	1.625	41.275	3.250	82.550	1.000	25.400	1.420	0.644	33500	148	75000	330	3700
RT612	1.688	42.863	3.250	82.550	1.000	25.400	1.385	0.628	33500	149	75000	330	3700
RT613	1.750	44.450	3.375	85.725	1.000	25.400	1.493	0.677	33000	147	75000	330	3500
RT614	1.812	46.025	3.375	85.725	1.000	25.400	1.453	0.659	33000	146	75000	330	3500
RT615	1.875	47.625	3.500	88.900	1.000	25.400	1.566	0.71	37500	166	90000	400	3400
RT616	1.937	49.200	3.500	88.900	1.000	25.400	1.524	0.691	37500	166	90000	400	3100
RT617	2.000	50.800	3.625	92.075	1.000	25.400	1.641	0.744	39000	173	95000	425	3200
RT618	2.125	53.973	3.750	95.250	1.000	25.400	1.713	0.777	43500	193	111000	495	3100
RT619	2.250	57.150	3.875	98.425	1.000	25.400	1.786	0.81	43500	193	111000	495	3100
RT620	2.375	60.325	4.000	101.600	1.000	25.400	1.859	0.843	40500	179	103000	460	2900
RT621	2.500	63.500	4.126	104.803	1.000	25.400	1.932	0.876	42500	189	111000	495	2800
RT622	2.625	66.675	4.343	110.300	1.000	25.400	2.145	0.973	44000	196	119000	530	2600
RT623	2.750	69.850	4.468	113.475	1.000	25.400	2.223	1.008	43500	194	119000	530	2500
RT624	3.000	76.200	4.719	119.870	1.000	25.400	2.381	1.080	49000	219	143000	640	2400
RT625	3.250	82.550	4.968	126.187	1.000	25.400	2.531	1.148	47000	209	135000	600	2300
RT626	3.500	88.900	5.220	132.575	1.000	25.400	2.690	1.220	48000	214	143000	640	2100



Cylindrical Roller Thrust Bearings

RT700 SERIES

- Heavy cross section
- Single direction
- Flat race
- Available in self aligning RTW700 series
- Speed limit shown is for oil lubrication



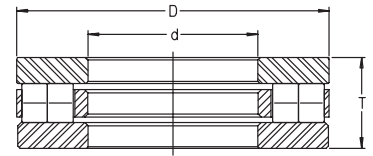
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
RT727	2	50.800	6	152.400	1.375	34.925	8.63	3.92	102000	455	310000	1380	2300
RT728	2	50.800	7	177.838	1.3748	34.920	12.14	5.51	121000	540	400000	1770	2100
RT729	2	50.800	8	203.238	1.375	34.925	16.20	7.35	120000	530	415000	1850	1700
RT730	3	76.200	6	152.400	1.375	34.925	7.28	3.30	94000	420	290000	1300	2100
RT731	3	76.200	7	177.800	1.375	34.925	10.79	4.89	121000	540	420000	1860	1800
RT732	3	76.200	8	203.200	1.375	34.925	14.84	6.73	145000	640	540000	2400	1700
RT733	3	76.200	9	228.600	1.375	34.925	19.42	8.81	149000	660	570000	2550	1500
RT734	4	101.600	7	177.800	1.75	44.450	11.33	5.14	121000	540	380000	1700	1700
RT735	4	101.600	8	203.200	1.75	44.450	16.48	7.47	160000	710	570000	2500	1500
RT736	4	101.600	9	228.600	1.75	44.450	22.32	10.12	197000	870	750000	3350	1400
RT737	4	101.600	10	254.000	1.75	44.450	28.84	13.08	205000	910	810000	3600	1300
RT738	5	127.000	8	203.200	1.75	44.450	13.39	6.07	149000	660	520000	2320	1400
RT739	5	127.000	9	228.600	1.75	44.450	19.23	8.72	170000	750	630000	2800	1300
RT740	5	127.000	10	254.000	2	50.800	29.43	13.35	206000	910	750000	3300	1200
RT741	5	127.000	11	279.451	2	50.800	37.68	17.09	246000	1090	950000	4250	1100
RT742	5	127.000	12	304.800	2	50.800	46.69	21.17	305000	1360	1280000	5700	110
RT743	6	152.400	9	228.600	2	50.800	17.66	8.01	162000	720	550000	2440	1200
RT744	6	152.400	10	254.000	2	50.800	25.11	11.39	194000	860	710000	3150	1200
RT745	6	152.400	11	279.400	2	50.800	33.35	15.12	255000	1130	1010000	4500	1100
RT746	6	152.400	12	304.800	2	50.800	42.37	19.22	285000	1260	1190000	5300	1000
RT747	7	177.800	10	254.000	2	50.800	20.01	9.08	167000	740	590000	2650	1100
RT748	7	177.800	11	279.400	2	50.800	28.25	12.81	220000	980	860000	3850	1000
RT749	7	177.800	12	304.800	2	50.800	37.27	16.90	260000	1160	1090000	4850	950
RT750	7	177.800	14	355.600	3	76.200	86.51	39.23	490000	2170	1830000	8100	900
RT751	8	203.200	12	304.851	3	76.200	47.11	21.37	320000	1420	1050000	4650	950
RT752	8	203.200	14	355.600	3	76.200	77.68	35.23	440000	1970	1650000	7300	850
RT753	8	203.200	16	406.400	3	76.200	113.00	51.25	550000	2440	2230000	9900	750
RT754	10	254.000	16	406.400	3	76.200	91.81	41.64	495000	2200	2000000	8900	700
RT755	10	254.000	18	457.200	3.75	95.250	164.78	74.73	730000	3250	2950000	13100	650
RT756	10	254.000	20	508.000	3.75	95.250	220.69	100.09	880000	3900	3750000	16800	600
RT757	12	304.800	18	457.200	3.75	95.250	132.42	60.05	610000	2750	2400000	10700	600
RT759	12	304.800	24	609.600	4.5	114.300	381.36	172.95	1210000	5400	5400000	24100	500
RT760	14	355.600	20	508.000	3.75	95.250	150.07	68.06	610000	2700	2500000	11100	550
RT761	14	355.600	22	558.800	3.75	95.250	211.87	96.08	900000	4000	4150000	18500	500
RT763	16	406.400	22	558.800	4.5	114.300	201.27	91.28	730000	3250	2900000	13000	480
RT758	12	304.800	20	508.000	4.5	114.300	225.99	102.49	810000	3600	3100000	13900	600
RT762	14	355.600	24	609.600	3.75	95.250	279.54	126.78	1000000	4450	4850000	21500	500
RT764	16	406.400	24	609.600	4.5	114.300	282.49	128.11	930000	4100	4000000	17900	470

Cylindrical Roller Thrust Bearings

RTL SERIES

- Light cross section
- Single direction
- Flat race
- Dimensionally interchangeable with D, FT, & GT series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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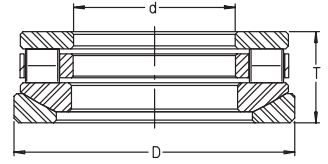
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
RTL7	0.875	22.225	1.844	46.838	0.625	15.875	0.295	0.134	7600	33.5	15000	67	5500
RTL8	0.938	23.813	1.844	46.838	0.625	15.875	0.282	0.128	7500	33.5	15000	67	5500
RTL9	1.000	25.400	1.969	50.013	0.625	15.875	0.322	0.146	7400	33	15000	67	5500
RTL10	1.066	27.076	1.969	50.013	0.625	15.875	0.306	0.139	7400	33	15000	67	5000
RTL11	1.125	28.575	2.094	53.181	0.625	15.875	0.351	0.159	8200	36.5	17600	78	4600
RTL12	1.188	30.163	2.094	53.181	0.625	15.875	0.333	0.151	8400	37.5	18000	80	4600
RTL13	1.250	31.750	2.344	59.531	0.625	15.875	0.441	0.2	9600	42.5	22000	98	4100
RTL14	1.313	33.338	2.344	59.531	0.625	15.875	0.423	0.192	9600	42.5	22000	98	4300
RTL15	1.375	34.925	2.469	62.713	0.625	15.875	0.472	0.214	10000	44.5	23600	105	3900
RTL16	1.438	36.513	2.469	62.713	0.625	15.875	0.452	0.205	10100	45	24000	107	4000
RTL17	1.500	38.100	2.594	65.881	0.625	15.875	0.503	0.228	10600	47	26000	116	3800
RTL18	1.563	39.688	2.594	65.881	0.625	15.875	0.481	0.218	10600	47	26000	116	3700
RTL19	1.625	41.275	2.969	75.413	0.813	20.650	0.900	0.408	10100	45	21900	97	3400
RTL20	1.688	42.863	2.969	75.413	0.813	20.650	0.871	0.395	17100	76	43000	192	3300
RTL21	1.750	44.450	3.094	78.588	0.813	20.637	0.948	0.43	20500	91	55000	243	3200
RTL22	1.813	46.038	3.094	78.588	0.813	20.650	0.917	0.416	20500	91	55000	243	3200
RTL23	1.875	47.625	3.219	81.763	0.813	20.650	0.999	0.453	21300	95	59000	260	3100
RTL24	1.938	49.213	3.219	81.763	0.813	20.650	0.964	0.437	21300	95	59000	260	3000
RTL25	2.000	50.800	3.344	84.938	0.813	20.637	2.399	1.088	21200	94	59000	260	2900
RTL27	2.125	53.975	3.594	91.288	0.813	20.650	1.226	0.556	29500	130	81000	360	2700
RTL28	2.188	55.563	3.594	91.288	0.813	20.650	1.186	0.538	29500	130	81000	360	2700
RTL29	2.250	57.150	3.719	94.463	0.813	20.650	1.279	0.58	29000	129	81000	360	2600
RTL31	2.375	60.325	3.844	97.638	0.813	20.650	1.332	0.604	30000	134	86000	385	2500
RTL32	2.438	61.913	3.844	97.638	0.813	20.650	1.288	0.584	30000	134	86000	385	2500
RTL33	2.500	63.500	3.969	100.813	0.813	20.637	1.385	0.628	32500	145	96000	430	2400
RTL35	2.625	66.675	4.344	110.338	1.000	25.400	2.148	0.974	33000	147	101000	450	2200
RTL37	2.750	69.850	4.469	113.513	1.000	25.400	2.225	1.009	35500	159	112000	495	2100
RTL41	3.000	76.200	4.719	119.863	1.000	25.400	2.379	1.079	39500	177	131000	580	2000
RTL43	3.250	82.550	4.969	126.213	1.000	25.400	2.534	1.149	40500	181	138000	610	1900
RTL44	3.500	88.900	5.219	132.563	1.000	25.400	2.688	1.219	37000	164	124000	550	1800



Cylindrical Roller Thrust Bearings

RTW600 SERIES

- Medium cross section
- Single direction
- Self aligning
- Static Alignment = $\pm 3.0^\circ$
- Available as non aligning RT600 series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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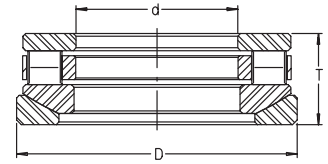
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
RTW601	1.000	25.400	2.251	57.168	1.062	26.975	0.725	0.329	13100	58	24000	107	5500
RTW602	1.060	26.924	2.251	57.168	1.062	26.975	0.703	0.319	13100	58	24000	107	5500
RTW603	1.125	28.575	2.375	60.325	1.062	26.975	0.781	0.354	14100	63	27000	120	5000
RTW604	1.188	30.163	2.375	60.325	1.062	26.975	0.756	0.343	14100	63	27000	120	5000
RTW605	1.250	31.750	2.500	63.500	1.063	26.988	0.838	0.38	16000	71	32000	143	4900
RTW606	1.313	33.338	2.500	63.500	1.062	26.975	0.800	0.363	16000	71	32000	143	4900
RTW607	1.375	34.925	3.000	76.200	1.062	26.975	1.270	0.576	21900	98	51000	226	4200
RTW608	1.437	36.500	3.000	76.200	1.602	40.691	1.868	0.847	21900	98	51000	226	4300
RTW609	1.500	38.100	3.125	79.375	1.062	26.975	1.343	0.609	21300	95	49500	221	4000
RTW610	1.562	39.675	3.125	79.375	1.062	26.975	1.308	0.593	20800	93	49500	221	3700
RTW611	1.625	41.275	3.375	85.725	1.312	33.325	1.929	0.875	33500	148	75000	330	3700
RTW612	1.686	42.829	3.376	85.748	1.313	33.338	1.887	0.856	33500	149	75000	330	3700
RTW613	1.750	44.450	3.500	88.900	1.312	33.325	2.026	0.919	33000	147	75000	330	3500
RTW614	1.812	46.025	3.500	88.900	1.312	33.325	1.978	0.897	33000	146	75000	330	3500
RTW615	1.875	47.625	3.625	92.075	1.312	33.325	2.123	0.963	37500	166	90000	400	3400
RTW616	1.937	49.200	3.625	92.075	1.312	33.325	2.070	0.939	37500	166	90000	400	3100
RTW617	2.000	50.800	3.750	95.250	1.312	33.325	2.220	1.007	39000	173	95000	425	3200
RTW618	2.125	53.975	3.875	98.425	1.312	33.325	2.317	1.051	43500	193	111000	495	3100
RTW619	2.250	57.150	4.000	101.600	1.312	33.325	2.412	1.094	43500	193	111000	495	3100
RTW620	2.375	60.325	4.125	104.775	1.312	33.325	2.509	1.138	40500	179	103000	460	2800
RTW621	2.500	63.500	4.250	107.950	1.312	33.325	2.606	1.182	42500	189	111000	495	2800
RTW622	2.625	66.675	4.530	115.062	1.312	33.325	3.008	1.364	44000	196	119000	530	2600
RTW623	2.750	69.850	4.655	118.237	1.313	33.338	3.113	1.412	43500	194	119000	530	2500
RTW624	3.000	76.200	4.969	126.213	1.312	33.325	3.462	1.570	49000	219	143000	640	2300
RTW625	3.250	82.550	5.220	132.585	1.313	33.338	3.682	1.670	47000	209	135000	600	2300
RTW626	3.500	88.900	5.468	138.875	1.313	33.338	3.894	1.766	48000	214	143000	640	2100



Cylindrical Roller Thrust Bearings

RTW700 SERIES

- Heavy cross section
- Single direction
- Self aligning
- Static Alignment = $\pm 3.0^\circ$
- Available as non aligning RT700 series
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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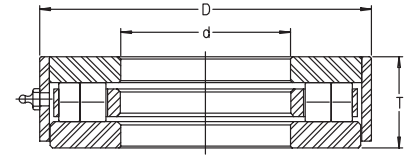
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT		DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT
	d	d	D	D	T	T	lbs	kg	lbf	kN	lbf	kN	
	inch	mm	inch	mm	inch	mm							rpm
RTW727	2.000	50.800	6.312	160.325	1.812	46.025	11.65	5.283	102000	455	310000	1380	2300
RTW728	2.000	50.800	7.312	185.725	1.812	46.025	16.08	7.291	121000	540	400000	1770	2100
RTW729	2.000	50.800	8.314	211.173	1.813	46.038	21.17	9.601	120000	530	415000	1850	1700
RTW730	3.000	76.200	6.312	160.325	1.812	46.025	10.02	4.546	94000	420	290000	1300	2100
RTW731	3.000	76.200	7.312	185.725	1.812	46.025	14.45	6.554	121000	540	420000	1860	1800
RTW732	3.000	76.200	8.314	211.173	1.813	46.038	19.55	8.864	145000	640	540000	2400	1700
RTW733	3.000	76.200	9.314	236.573	1.813	46.038	25.28	11.463	149000	660	570000	2550	1200
RTW734	4.000	101.600	7.375	187.325	2.312	58.725	15.92	7.220	121000	540	380000	1700	1700
RTW735	4.000	101.600	8.375	212.725	2.313	58.738	22.46	10.184	160000	710	570000	2500	1500
RTW736	4.000	101.600	9.375	238.125	2.313	58.738	29.82	13.523	197000	870	750000	3350	1400
RTW737	4.000	101.600	10.500	266.700	2.313	58.738	39.09	17.729	205000	910	810000	3600	1300
RTW738	5.000	127.000	8.500	215.900	2.312	58.725	19.59	8.886	149000	660	520000	2320	1400
RTW739	5.000	127.000	9.500	241.300	2.312	58.725	27.06	12.271	170000	750	630000	2800	1300
RTW740	5.000	127.000	10.500	266.700	2.625	66.675	40.14	18.203	206000	910	750000	3300	1200
RTW741	5.000	127.000	11.500	292.100	2.625	66.675	50.50	22.900	246000	1090	950000	4250	1100
RTW742	5.000	127.000	12.500	317.500	2.625	66.675	61.79	28.024	305000	1360	1280000	5700	1100
RTW743	6.000	152.400	9.500	241.300	2.625	66.675	25.54	11.583	162000	720	550000	2440	1200
RTW744	6.000	152.400	10.500	266.700	2.625	66.675	34.96	15.854	194000	860	710000	3150	1200
RTW745	6.000	152.400	11.500	292.100	2.625	66.675	45.32	20.551	255000	1130	1010000	4500	1100
RTW746	6.000	152.400	12.500	317.500	2.625	66.675	56.62	25.676	285000	1260	1190000	5300	1000
RTW747	7.000	177.800	10.500	266.700	2.625	66.675	28.84	13.078	167000	740	590000	2650	1100
RTW748	7.000	177.800	11.500	292.100	2.625	66.675	39.20	17.776	220000	980	860000	3850	1000
RTW749	7.000	177.800	12.500	317.500	2.625	66.675	50.50	22.900	260000	1160	1090000	4850	950
RTW750	7.000	177.800	14.750	374.650	4.000	101.600	120.93	54.844	490000	2170	1830000	8100	800
RTW751	8.000	203.200	12.750	323.850	4.000	101.600	70.71	32.069	320000	1420	1050000	4650	950
RTW752	8.000	203.200	14.750	374.650	4.000	101.600	110.17	49.964	440000	1970	1650000	7300	850
RTW753	8.000	203.200	16.875	428.625	4.000	101.600	158.38	71.829	550000	2440	2230000	9900	700
RTW754	10.000	254.000	16.875	428.625	4.000	101.600	132.56	60.116	495000	2200	2000000	8900	700
RTW755	10.000	254.000	18.875	479.425	5.000	127.000	229.81	104.224	730000	3250	2950000	13100	650
RTW756	10.000	254.000	20.875	530.225	5.000	127.000	301.11	136.557	880000	3900	3750000	16800	650
RTW757	12.000	304.800	18.875	479.425	5.000	127.000	190.36	86.329	610000	2750	2400000	10700	600
RTW758	12.000	304.800	20.875	530.225	6.000	152.400	313.98	142.395	1210000	5400	5400000	24100	550
RTW759	12.000	304.800	24.875	631.825	6.000	152.400	510.91	231.707	610000	2700	2500000	11100	500
RTW760	14.000	355.600	20.875	530.225	4.875	123.825	209.64	95.076	900000	4000	4150000	18500	550
RTW761	14.000	355.600	22.875	581.025	4.875	123.825	286.15	129.773	730000	3250	2900000	13000	500
RTW762	14.000	355.600	24.875	631.825	4.875	123.825	369.65	167.642	810000	3600	3100000	13900	490
RTW763	16.000	406.400	22.875	581.025	6.000	152.400	287.62	130.438	1000000	4450	4850000	21500	480
RTW764	16.000	406.400	25.000	635.000	6.000	152.400	397.10	180.089	930000	4100	4000000	17900	460



Cylindrical Roller Thrust Bearings

RWCT SERIES

- Crane hook type
- Single direction
- Flat race
- With grease fitting
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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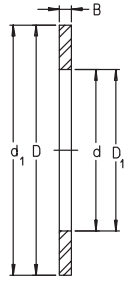
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
RWCT11	1.625	41.275	3.343	84.912	0.813	20.638	1.000	0.450	20600	92	55000	243	3300
RWCT16	1.938	49.213	3.593	91.262	0.812	20.625	1.325	0.601	24200	107	62000	275	2900
RWCT17	2.000	50.800	4.000	101.600	1.000	25.400	2.141	0.971	37000	165	90000	400	2700
RWCT19	2.250	57.150	4.250	107.950	1.000	25.400	2.315	1.050	38500	172	97000	435	2500
RWCT20C	2.250	57.150	4.375	111.125	1.000	25.400	2.514	1.140	38500	172	97000	430	2500
RWCT20B	2.313	58.738	4.375	111.125	1.000	25.400	2.461	1.116	38500	172	97000	430	2500
RWCT23	2.750	69.850	4.843	123.012	1.000	25.400	2.836	1.286	41500	184	112000	500	2100
RWCT24A	2.750	69.850	5.156	130.962	1.250	31.750	4.247	1.926	56000	248	142000	630	2000
RWCT23B	2.813	71.438	4.843	123.012	1.000	25.400	2.774	1.258	41500	184	112000	500	2100
RWCT27A	3.250	82.550	6.250	158.750	1.500	38.100	7.640	3.465	94000	420	260000	1170	1700
RWCT27C	3.250	82.550	6.375	161.925	1.750	44.450	9.411	4.268	94000	420	260000	1170	1700
RWCT27B	3.500	88.900	6.375	161.925	1.625	41.275	8.244	3.739	99000	440	280000	1250	1600
RWCT28A	3.500	88.900	6.937	176.200	1.625	41.275	10.425	4.728	90000	400	285000	1280	1500
RWCT30B	3.563	90.488	6.375	161.925	1.375	34.925	6.866	3.114	77000	340	234000	1040	1600
RWCT34A	3.750	95.250	7.250	184.150	1.875	47.625	12.910	5.855	125000	560	390000	1740	1400
RWCT35A	4.250	107.950	8.375	212.725	2.000	50.800	18.634	8.451	130000	580	435000	1940	1200
RWCT38A	4.500	114.300	8.312	211.125	2.000	50.800	17.470	7.923	144000	640	510000	2260	1100
RWCT39A	5.000	127.000	9.375	238.125	2.250	57.150	25.320	11.483	170000	750	630000	2800	1100
RWCT44A	5.500	139.700	10.500	266.700	2.500	63.500	35.798	16.235	285000	1270	840000	3750	1000
RWCT45B	5.563	141.288	11.500	292.100	2.000	50.800	36.283	16.455	265000	1180	1070000	4750	900
RWCT45A	6.000	152.400	11.375	288.925	3.000	76.200	50.166	22.751	370000	1640	1070000	4750	900
RWCT49A	6.813	173.038	12.750	323.850	2.500	63.500	51.994	23.580	380000	1680	1280000	5700	800
RWCT52	8.438	214.313	14.500	368.300	3.000	76.200	74.692	33.874	445000	1970	1650000	7300	700
RWCT54	9.313	236.538	16.500	419.100	3.000	76.200	99.681	45.207	395000	1750	1500000	6700	600



Axial Bearing Washers

ZS SERIES

- Metric center washers for thrust bearings
- Housing or shaft guided
- For double direction axial bearing combinations
- Suitable for AXK and K811



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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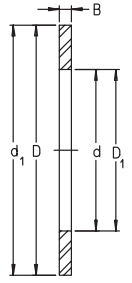
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	BEARING BORE	BEARING BORE	BEARING BORE	BEARING BORE	WEIGHT	WEIGHT
	d	d	D	D	B	B	FOR INNER CLAMPING	FOR INNER CLAMPING	FOR OUTER CLAMPING	FOR INNER CLAMPING	lbs	kg
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
ZS 1127	0.433	11	1.063	27	0.217	5.5	0.591	15	—	—	0.046	0.021
ZS 1329	0.512	13	1.142	29	0.217	5.5	0.669	17	—	—	0.051	0.023
ZS 1634	0.630	16	1.339	34	0.217	5.5	0.787	20	0.591	15	0.068	0.031
ZS 2141	0.827	21	1.614	41	0.236	6	0.984	25	0.787	20	0.099	0.045
ZS 2646	1.024	26	1.811	46	0.276	7	1.181	30	0.984	25	0.132	0.06
ZS 3151	1.221	31	2.008	51	0.315	8	1.378	35	1.181	30	0.172	0.078
ZS 3159	1.221	31	2.323	59	0.315	8	1.575	40	—	—	0.276	0.125
ZS 3664	1.417	36	2.520	64	0.354	9	1.772	45	1.378	35	0.344	0.156
ZS 4169	1.614	41	2.717	69	0.394	10	1.969	50	1.575	40	0.421	0.191
ZS 4677	1.811	46	3.032	77	0.394	10	2.165	55	1.772	45	0.518	0.235
ZS 5184	2.008	51	3.307	84	0.453	11.5	2.362	60	1.969	50	0.697	0.316
ZS 5689	2.205	56	3.504	89	0.472	12	2.559	65	2.165	55	0.794	0.36
ZS 5694	2.205	56	3.701	94	0.492	12.5	2.756	70	—	—	0.97	0.44
ZS 6199	2.402	61	3.898	99	0.492	12.5	2.953	75	2.362	60	1.036	0.47
ZS 66104	2.598	66	4.095	104	0.492	12.5	3.150	80	2.559	65	1.103	0.5
ZS 71109	2.795	71	4.291	109	0.571	14.5	3.347	85	2.756	70	1.308	0.593
ZS 76119	2.992	76	4.685	119	0.630	16	3.543	90	2.953	75	1.777	0.806
ZS 86134	3.386	86	5.276	134	0.709	18	3.937	100	3.347	85	2.602	1.18
ZS 96144	3.780	96	5.669	144	0.787	20	4.331	110	—	—	3.153	1.43
ZS 101154	3.976	101	6.063	154	0.866	22	4.724	120	3.937	100	4.035	1.83
ZS 111169	4.370	111	6.654	169	0.866	22	5.118	130	4.331	110	4.873	2.21
ZS 121179	4.764	121	7.047	179	0.906	23	5.512	140	4.724	120	5.424	2.46
ZS 131189	5.158	131	7.441	189	0.945	24	5.906	150	5.118	130	6.042	2.74
ZS 141199	5.551	141	7.835	199	0.984	25	6.299	160	5.512	140	6.681	3.03
ZS 151214	5.945	151	8.425	214	1.063	27	—	—	5.906	150	8.445	3.83
ZS 161224	6.339	161	8.819	224	1.142	29	—	—	6.299	160	9.592	4.35



Axial Bearing Washers

ZS SERIES

- Metric center washers for thrust bearings
- Housing or shaft guided
- For double direction axial bearing combinations
- Suitable for AXK and K811



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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BEARING FOR INNER CLAMPING	BEARING FOR OUTER CLAMPING	WASHER FOR INNER CLAMPING	WASHER FOR OUTER CLAMPING	BEARING FOR INNER CLAMPING	BEARING FOR OUTER CLAMPING	PART NUMBER
AXK 1528		GS 81102		K 81102 TN	K 81102 TN	ZS 1127
AXK 1730		GS 81103		K 81103 TN	K 81103 TN	ZS 1329
AXK 2035	AXK 1528	GS 81104	WS 81102	K 81104 TN	K 81104 TN	ZS 1634
AXK 2542	AXK 2035	GS 81105	WS 81104	K 81105 TN	K 81105 TN	ZS 2141
AXK 3047	AXK 2542	GS 81106	WS 81105	K 81106 TN	K 81106 TN	ZS 2646
AXK 3552	AXK 3047	GS 81107	WS 81106	K 81107 TN	K 81107 TN	ZS 3151
AXK 4060		GS 81108		K 81108 TN	K 81108 TN	ZS 3159
AXK 4565	AXK 3552	GS 81109	WS 81107	K 81109 TN	K 81109 TN	ZS 3664
AXK 5070	AXK 4060	GS 81110	WS 81108	K 81110 TN	K 81110 TN	ZS 4169
AXK 5578	AXK 4565	GS 81111	WS 81109	K 81111 TN	K 81111 TN	ZS 4677
AXK 6085	AXK 5070	GS 81112	WS 81110	K 81112 TN	K 81112 TN	ZS 5184
AXK 6590	AXK 5578	GS 81113	WS 81111	K 81113 TN	K 81113 TN	ZS 5689
AXK 7095		GS 81114		K 81114 TN	K 81114 TN	ZS 5694
AXK 75100	AXK 6085	GS 81115	WS 81112	K 81115 TN	K 81115 TN	ZS 6199
AXK 80105	AXK 6590	GS 81116	WS 81113	K 81116 TN	K 81116 TN	ZS 66104
AXK 85110	AXK 7095	GS 81117	WS 81114	K 81117 TN	K 81117 TN	ZS 71109
AXK 90120	AXK 75100	GS 81118	WS 81115	K 81118 TN	K 81118 TN	ZS 76119
AXK 100135	AXK 85110	GS 81120	WS 81117	K 81120 TN	K 81120 TN	ZS 86134
AXK 110145		GS 81122		K 81122 TN	K 81122 TN	ZS 96144
AXK 120155	AXK 100135	GS 81124	WS 81120	K 81124	K 81124	ZS 101154
AXK 130170	AXK 110145	GS 81126	WS 81122	K 81126	K 81126	ZS 111169
AXK 140180	AXK 120155	GS 81128	WS 81124	K 81128	K 81128	ZS 121179
AXK 150190	AXK 130170	GS 81130	WS 81126	K 81130	K 81130	ZS 131189
AXK 160200	AXK 140180	GS 81132	WS 81128	K 81132	K 81132	ZS 141199
	AXK 150190		WS 81130			ZS 151214
	AXK 160200		WS 81132			ZS 161224

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