

Radial and Angular Contact Ball Bearings

Prefixes:

A	stainless steel
F	flanged outer ring
H	snug fit
J	extra loose internal fit
JJ	extra extra loose internal fit
L	internal self-aligning
M	precision ABEC 3
P	loose fit
R	normal fit
S	extra small inch-dimension type
T	tight fit
V	precision ABEC 5
W	wide-type single-row (same width inner and outer)
WIR	single-row, wide inner only

Bore Size: (04 and up: multiply last two numbers by five to get bore in millimeters)

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04	20 mm
05	25 mm
12	60 mm
20	100 mm

Suffixes:

C1, C2, C3, etc.	(manufacturing code - Timken® use only)
FT	full ball complement
K	Conrad, non-filling slot type
W	maximum capacity, filling slot type
WI	angular contact, low-shoulder outer
WO	angular contact, low-shoulder inner
WN	angular contact, low-shoulder, inner and outer

W

3

05

K

LL

Numbers: Basic Type Series:

S1	3, 5, 7, etc. , single-row inch, extra small
30	single-row metric, extra small
100	single-row, extra large
200	single-row, light
300	single-row, medium
5200	double-row, light
5300	double-row, medium
7200	single-row, angular contact, light
7300	single-row, angular contact, medium
7400	single-row, angular contact, heavy
9100	single-row, extra-light
9300	single-row, ultra-light
XLS	inch-dimension, Conrad type

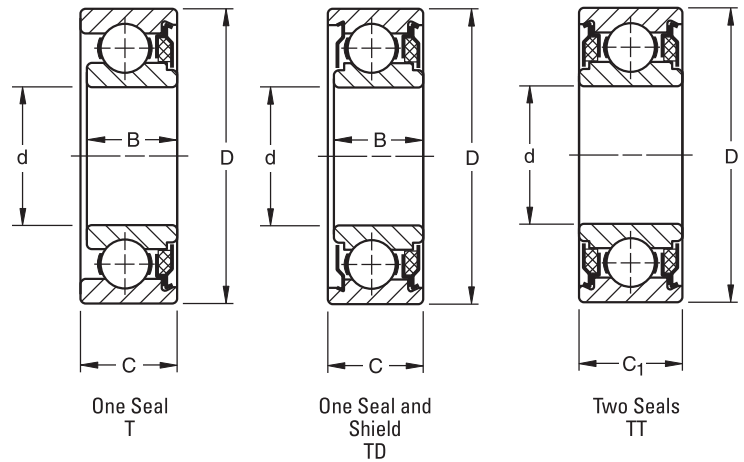
Additional Features:

B	spherical outside diameter
BR	cast bronze retainer
D	one shield
DD	two shields
G	Wireloc (snap ring)
L	one Mechani-Seal
LL	two Mechani-Seals
MBR	machined bronze retainer
P	one seal
PP	two seals
PP2, 3, 4, etc.	Tri-Ply Seals if prefix letter is W (example: W208PPB5)
R	one land-riding rubber seal
RR	two land-riding rubber seals
S	external self-aligning
SMBR	iron silicon bronze retainer
T	one felt seal
TT	two felt seals



LIGHT 200 SERIES FELT SEAL TYPE

- Permits certain design economies, but cannot be assumed to be suitable for all conditions of service.
- In many cases, they are supplemented by adjacent parts in the application for adequate bearing protection in small equipment such as fractional horsepower motors, electric vacuum cleaners, small gear units, electric and pneumatic tools, etc.
- Suggested for effective grease retention and exclusion of foreign matter.
- Electric motor quality for applications where quietness is a requirement.



DIMENSIONS – TOLERANCES

Bearing Number	Bore d		Outside Diameter D		Ring Widths +0.00 mm, -0.12 mm 0.000, -0.005"		Inner Ring Offset	Fillet Radius ⁽¹⁾		Wt.		Static Load Rating C ₀		Extended Dynamic Load Rating C _E ⁽³⁾									
	one seals T	one seal and shield TD	tolerance +0.000 mm +0.0000" to minus	tolerance +0.000 mm +0.0000" to minus	mm	in.		mm	in.	mm	in.	kg	lbs.	N	lbs.	N	lbs.						
200KT	200KTD	10	0.3937	0.008	0.0003	30	1.1811	0.009	0.00035	12.19	0.480	12.70	0.500	0.51	0.020	0.6	0.024	0.045	0.10	2600	585	6790	1530
—	200KTD2	12	0.4724	0.008	0.0003	30	1.1811	0.009	0.00035	12.19	0.480	12.70	0.500	0.51	0.020	0.6	0.024	0.045	0.10	2600	585	6790	1530
201KT	201KTD	12	0.4724	0.008	0.0003	32	1.2598	0.011	0.00045	12.19	0.480	12.70	0.500	0.51	0.020	0.6	0.024	0.045	0.10	3000	680	7680	1730
201KT2	201KTD2	13	0.5118	0.008	0.0003	32	1.2598	0.011	0.00045	12.19	0.480	12.70	0.500	0.51	0.020	0.6	0.024	0.045	0.10	3000	680	7680	1730
202KT	202KTD	15	0.5906	0.008	0.0003	35	1.3780	0.011	0.00045	12.19	0.480	12.70	0.500	0.51	0.020	0.6	0.024	0.050	0.11	3600	830	8650	1930
202KT3 ⁽²⁾	202KTD3 ⁽²⁾	16	0.6299	0.008	0.0003	35	1.3780	0.011	0.00045	12.19	0.480	12.70	0.500	0.51	0.020	0.6	0.024	0.050	0.11	3600	830	8650	1930
203KT	203KTD	17	0.6693	0.008	0.0003	40	1.5748	0.011	0.00045	13.67	0.538	14.30	0.563	0.64	0.025	0.6	0.024	0.077	0.17	4700	1060	10900	2450
204KT	204KTD	20	0.7874	0.010	0.0004	47	1.8504	0.011	0.00045	15.24	0.600	15.88	0.625	0.64	0.025	1.0	0.039	0.118	0.26	6500	1460	14400	3250
205KT	205KTD	25	0.9843	0.010	0.0004	52	2.0472	0.013	0.00050	15.24	0.600	15.88	0.625	0.64	0.025	1.0	0.039	0.132	0.29	7800	1760	16000	3600
206KT	206KTD	30	1.1811	0.010	0.0004	62	2.4409	0.013	0.00050	19.00	0.748	19.99	0.788	0.99	0.039	1.0	0.039	0.245	0.54	11300	2550	22200	5000
207KT	207KTD	35	1.3780	0.012	0.00045	72	2.8346	0.013	0.00050	19.99	0.787	21.01	0.827	0.99	0.039	1.0	0.039	0.358	0.79	15300	3450	29000	6550

⁽¹⁾ Maximum shaft or housing fillet radius that bearing corners will clear.

⁽²⁾ 202KT3 has 12.29 mm (.484") inner ring width.

⁽³⁾ Based on 10⁶ revolutions of calculated fatigue life.

DIMENSIONS – TOLERANCES

Bearing Number	Bore d		Outside Diameter D		Ring Width C ₁		Fillet Radius ⁽¹⁾		Wt.		Static Load Rating C ₀		Extended Dynamic Load Rating C _E ⁽²⁾					
two seals TT	tolerance +0.000 mm +0.0000" to minus	tolerance +0.000 mm +0.0000" to minus	mm	in.	mm	in.	mm	in.	kg	lbs.	N	lbs.	N	lbs.				
200KTT	10	0.3937	0.008	0.0003	30	1.1811	0.009	0.00035	16.66	0.656	0.6	0.024	0.045	0.10	2600	585	6790	1530
201KTT	12	0.4724	0.008	0.0003	32	1.2598	0.011	0.00043	16.66	0.656	0.6	0.024	0.045	0.10	3000	680	7680	1730
201KTT3	13	0.5118	0.008	0.0003	32	1.2598	0.011	0.00043	16.66	0.656	0.6	0.024	0.045	0.10	3000	680	7680	1730
202KTT	15	0.5906	0.008	0.0003	35	1.3780	0.011	0.00043	16.66	0.656	0.6	0.024	0.050	0.11	3600	830	8650	1930
203KTT	17	0.6693	0.008	0.0003	40	1.5748	0.011	0.00043	18.24	0.718	0.6	0.024	0.077	0.17	4700	1060	10900	2450
204KTT	20	0.7874	0.010	0.0004	47	1.8504	0.011	0.00043	20.62	0.812	1.0	0.039	0.118	0.26	6500	1460	14400	3250
205KTT	25	0.9843	0.010	0.0004	52	2.0472	0.013	0.00051	20.62	0.812	1.0	0.039	0.132	0.29	7800	1760	16000	3600
206KTT	30	1.1811	0.010	0.0004	62	2.4409	0.013	0.00051	24.00	0.945	1.0	0.039	0.245	0.54	11300	2550	22200	5000
207KTT	35	1.3780	0.012	0.00045	72	2.8346	0.013	0.00051	25.00	0.984	1.0	0.039	0.358	0.79	15300	3450	29000	6550

⁽¹⁾ Maximum shaft or housing fillet radius that bearing corners will clear.

⁽²⁾ Based on 10⁶ revolutions of calculated fatigue life.