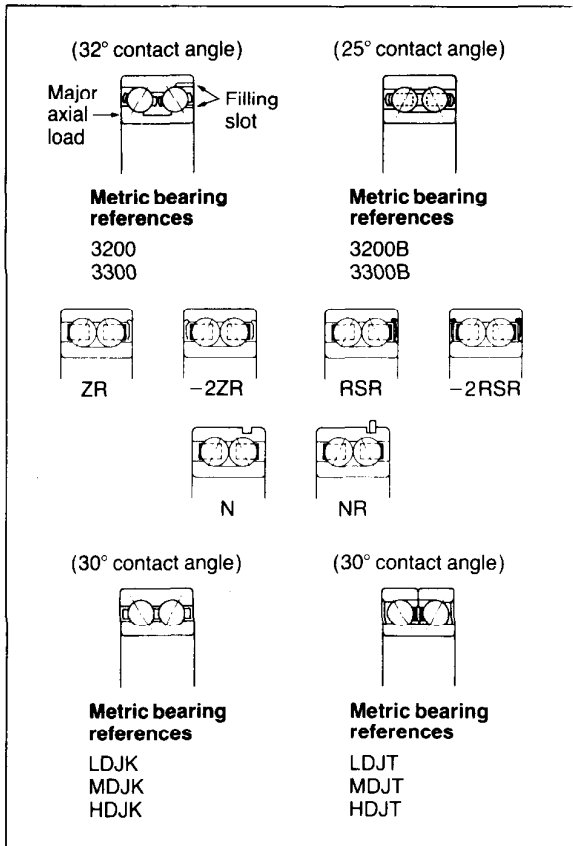


Very often used instead of a pair of single row angular contact bearings where assembly of the latter could be difficult and where there is a need to minimise tilt.



Suffixes

- A*/*** Special axial clearance where */* represents the min/max values in micrometres.
- B** 25° contact angle and no filling slots—only when applied to 3200 and 3300 series bearings.
- C2** Axial internal clearance less than Normal—marked '0' or 'C2'.
- CN** Normal grade of radial internal clearance—not marked.
- C3** Axial internal clearance greater than Normal—marked '000' or 'C3'.
- C4** Axial internal clearance greater than C3—marked '0000' or 'C4'.
- J** Pressed steel cage

- M** Machined brass cage, ball locating.
- N** Snap ring groove on the outer ring O.D.
- NR** Snap ring groove on the outer ring O.D., with snap ring.
- P*/*** Special axial interference where */* represents the min/max values in micrometres.
- Q**** Special features where */* is the specification number.
- RSR** One synthetic rubber seal.
- 2RSR** Two synthetic rubber seals.
- S*** Special heat stabilised bearing where * gives the specification number.
- TNH** Polyamide snap-on cage, located on the rolling elements.
- ZR** One metal shield.
- 2ZR** Two metal shields.

Special designations

A DAC.... reference is used for a special design of double row angular contact ball bearing. In the past RHP has used other designations to identify special bearings of this type and these are listed on pages 6–8.

Normally, a special bearing should not be replaced by a standard bearing. Where advice is needed contact RHP or your local RHP distributor.

Temperature range

–40°C to +125°C (+150°C peak).
–30°C to +100°C for shielded bearings

Misalignment range

0 to 0,0003 radians.

Cages—material options

Brass or polyamide 6-6.

Variants

Many sizes of the 3200B and 3300B series are available with shields, seals and/or snap ring grooves (with or without snap rings).

Axial adjustment

The standard internal adjustment differs for the different series as shown in the following table.

Axial adjustment tolerances for double row angular contact ball bearings 0,001 mm units

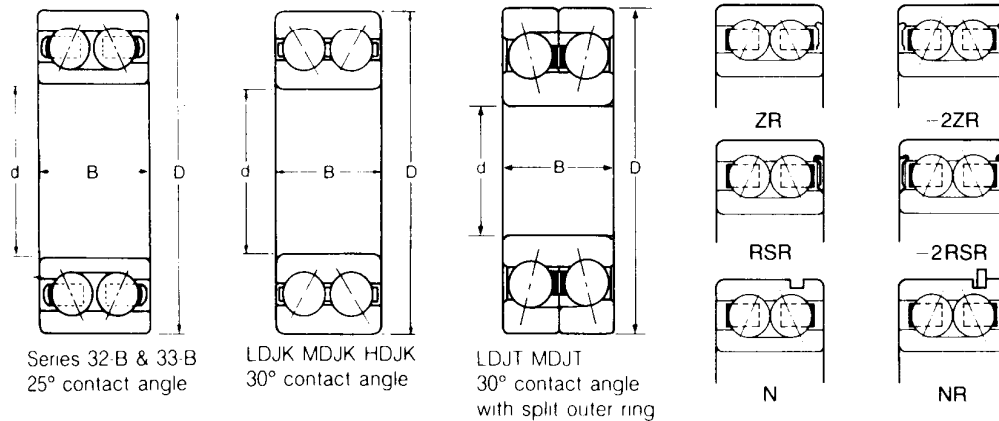
Bearing series	bore diameter mm over	incl	Internal clearance group				C3		C4	
			C2		CN		min	max	min	max
			min	max	min	max	min	max	min	max
LDJK, MDJK, HDJK	all sizes		-	-	0	25	-	-	-	-
LDJT, MDJT, HDJT	all sizes		-	-	-25	0	-	-	-	-
3200, 3300	6	10	3	13	9	21	19	32	30	47
	10	40	3	13	9	22	19	33	30	47
	40	50	4	14	13	24	24	36	36	48
	50	65	4	20	20	33	33	47	47	61
	65	80	4	22	22	37	37	51	51	65
3200B, 3300B	6	10	11	21	16	32	23	39	35	53
	10	20	11	23	17	34	24	42	37	56
	20	30	11	24	19	36	29	46	41	59
	30	40	11	25	20	38	32	49	44	63
	40	50	11	25	20	40	32	51	45	65
	50	65	10	29	20	43	33	55	47	70
	65	80	10	31	22	47	37	61	53	78

Note that negative clearance indicates axial interference.

Double row angular contact ball bearings

d 10–35 mm

RHP bearings



Primary dimensions			Basic bearing	Variants						Basic load ratings		Limiting speeds		Mass
d	D	B		ZR	2ZR	RSR	2RSR	N	NR	dynamic C_r	static C_{or}	grease	oil	
mm										N		rev/min	kg	
10	30	14	3200 B	•	•	•	•	•	•	8 130	4 550	16 000	22 000	0,052
	30	14,29	LDJK 10							7 200	3 800	11 900	23 500	0,054
	35	19,05	MDJK 10							10 700	5 360	10 800	21 500	0,098
12	32	15,88	LDJK 12							9 500	5 070	11 000	22 000	0,065
	32	15,88	LDJT 12							11 200	6 510	9 900	20 000	0,06
	32	15,9	3201 B	•	•	•	•	•	•	11 100	5 650	15 000	20 000	0,069
	37	19,05	MDJK 12							12 000	6 540	10 100	20 000	0,113
15	35	15,88	LDJK 15							10 400	6 050	9 900	20 000	0,077
	35	15,88	LDJT 15							12 900	8 300	8 900	18 000	0,08
	35	15,9	3202 B	•	•	•	•	•	•	11 600	6 800	13 000	18 000	0,072
	42	19	3302 B	•	•	•	•	•	•	16 800	9 700	10 000	15 000	0,130
	42	19,05	MDJK 15							13 300	7 910	8 900	17 500	0,145
17	40	17,46	LDJK 17							13 300	7 900	8 900	17 500	0,109
	40	17,5	3203 B	•	•	•	•	•	•	14 400	8 650	10 000	15 000	0,103
	47	22,2	3303 B	•	•	•	•	•	•	20 900	11 900	9 500	14 000	0,190
	47	22,23	MDJK 17							18 100	10 400	8 100	16 000	0,204
20	47	20,6	3204 B	•	•	•	•	•	•	19 300	12 000	9 000	13 000	0,168
	47	20,64	LDJK 20							16 400	10 100	7 800	15 500	0,181
	47	20,64	LDJT 20							20 200	13 000	7 000	14 000	0,18
	52	22,2	3304 B	•	•	•	•	•	•	23 100	14 500	8 500	12 000	0,230
	52	22,23	MDJK 20							19 800	12 400	7 300	14 600	0,236
	52	22,23	MDJT 20							25 900	18 600	6 600	13 100	0,24
25	52	20,6	3205 B	•	•	•	•	•	•	20 900	14 100	8 000	11 000	0,194
	52	20,64	LDJK 25							19 500	13 000	6 900	13 800	0,204
	52	20,64	LDJT 25							21 300	15 800	6 200	12 400	0,20
	62	25,4	3305 B	•	•	•	•	•	•	29 500	19 100	7 500	10 000	0,369
	62	25,40	MDJK 25							27 500	17 900	6 200	12 300	0,386
	62	25,40	MDJT 25							36 000	26 800	5 600	11 100	0,39
30	62	23,8	3206 B	•	•	•	•	•	•	29 100	20 100	7 100	9 000	0,316
	62	23,81	LDJK 30							25 300	17 600	5 800	11 600	0,327
	62	23,81	LDJT 30							32 300	25 400	5 300	10 500	0,33
	72	30,16	MDJK 30							36 400	24 300	5 300	10 700	0,612
	72	30,2	3306 B	•	•	•	•	•	•	41 000	27 400	6 200	7 900	0,585
35	72	26,99	LDJK 35							26 800	20 300	5 100	10 200	0,499
	72	26,99	LDJT 35							39 600	33 100	4 600	9 200	0,50
	72	27	3207 B	•	•	•	•	•	•	38 400	27 400	5 600	7 100	0,484
	80	34,9	3307 B	•	•	•	•	•	•	51 200	33 200	5 100	6 500	0,816
	80	34,93	MDJK 35							39 100	28 500	4 700	9 300	0,839
	80	34,93	MDJT 35							60 500	47 500	4 300	8 600	0,84