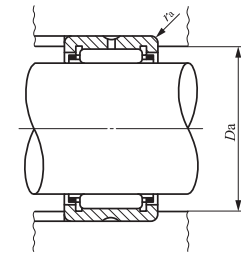
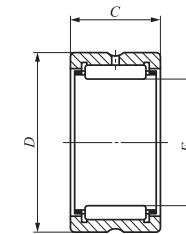


MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring, Inch Series



BR

Shaft dia. 15.875 — 47.625mm

Shaft dia. mm (inch)	Identification number	Mass (Ref.) g	Boundary dimensions mm(inch)			Standard mounting dimensions mm	
			F_w	D	C	D_a Max.	$r_{as\ max}^{(1)}$
15.875 (5/8)	BR 101812	49	15.875 (5/8)	28.575 (1 1/8)	19.050 (3/4)	24.5	0.6
19.050 (3/4)	BR 122012	56	19.050 (3/4)	31.750 (1 1/4)	19.050 (3/4)	26.5	1
	BR 122016	75	19.050 (3/4)	31.750 (1 1/4)	25.400 (1)	26.5	1
22.225 (7/8)	BR 142212	63	22.225 (7/8)	34.925 (1 3/8)	19.050 (3/4)	29.7	1
	BR 142216	84.5	22.225 (7/8)	34.925 (1 3/8)	25.400 (1)	29.7	1
25.400 (1)	BR 162412	69	25.400 (1)	38.100 (1 1/2)	19.050 (3/4)	32.9	1
	BR 162416	92.5	25.400 (1)	38.100 (1 1/2)	25.400 (1)	32.9	1
28.575 (1 1/8)	BR 182616	102	28.575 (1 1/8)	41.275 (1 5/8)	25.400 (1)	36	1
	BR 182620	128	28.575 (1 1/8)	41.275 (1 5/8)	31.750 (1 1/4)	36	1
31.750 (1 1/4)	BR 202816	110	31.750 (1 1/4)	44.450 (1 3/4)	25.400 (1)	39.2	1
	BR 202820	138	31.750 (1 1/4)	44.450 (1 3/4)	31.750 (1 1/4)	39.2	1
34.925 (1 3/8)	BR 223016	119	34.925 (1 3/8)	47.625 (1 7/8)	25.400 (1)	42.4	1
	BR 223020	149	34.925 (1 3/8)	47.625 (1 7/8)	31.750 (1 1/4)	42.4	1
38.100 (1 1/2)	BR 243316	149	38.100 (1 1/2)	52.388 (2 1/16)	25.400 (1)	45.1	1.5
	BR 243320	187	38.100 (1 1/2)	52.388 (2 1/16)	31.750 (1 1/4)	45.1	1.5
41.275 (1 5/8)	BR 263516	158	41.275 (1 5/8)	55.562 (2 3/16)	25.400 (1)	48.3	1.5
	BR 263520	199	41.275 (1 5/8)	55.562 (2 3/16)	31.750 (1 1/4)	48.3	1.5
44.450 (1 3/4)	BR 283716	170	44.450 (1 3/4)	58.738 (2 5/16)	25.400 (1)	51.5	1.5
	BR 283720	215	44.450 (1 3/4)	58.738 (2 5/16)	31.750 (1 1/4)	51.5	1.5
	BR 283820	250	44.450 (1 3/4)	60.325 (2 3/8)	31.750 (1 1/4)	53.1	1.5
47.625 (1 7/8)	BR 303920	225	47.625 (1 7/8)	61.912 (2 7/16)	31.750 (1 1/4)	54.7	1.5

Notes⁽¹⁾ Maximum permissible corner radius of the housing
⁽²⁾ Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
 Remarks1. The outer ring has an oil groove and an oil hole.
 2. No grease is prepacked. Perform proper lubrication.

Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed ⁽²⁾ min ⁻¹
18 900	19 700	25 000
21 700	24 400	20 000
27 600	33 100	20 000
23 000	27 100	18 000
29 100	36 800	18 000
25 300	31 900	16 000
32 100	43 300	16 000
34 900	49 900	14 000
43 200	65 600	14 000
36 000	53 500	13 000
44 600	70 300	13 000
38 500	60 000	11 000
47 700	78 900	11 000
43 700	66 900	11 000
54 200	88 200	11 000
44 800	70 900	9 500
55 600	93 400	9 500
47 500	78 200	9 000
58 900	103 000	9 000
58 900	103 000	9 000
60 100	108 000	8 500