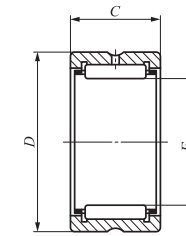
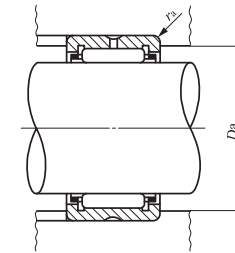


MACHINED TYPE NEEDLE ROLLER BEARINGS

Without Inner Ring, Inch Series



BR



Shaft dia. 50.800 – 101.600mm

Shaft dia. mm (inch)	Identification number	Mass (Ref.) g	Boundary dimensions mm(inch)			Standard mounting dimensions mm	
			F_w	D	C	D_a Max.	$r_{as\ max}^{(1)}$
50.800 (2)	BR 324116	190	50.800 (2)	65.088 (2 9/16)	25.400 (1)	57.8	1.5
	BR 324120	240	50.800 (2)	65.088 (2 9/16)	31.750 (1 1/4)	57.8	1.5
57.150 (2 1/4)	BR 364824	435	57.150 (2 1/4)	76.200 (3)	38.100 (1 1/2)	69	1.5
	BR 364828	510	57.150 (2 1/4)	76.200 (3)	44.450 (1 3/4)	69	1.5
63.500 (2 1/2)	BR 405224	475	63.500 (2 1/2)	82.550 (3 1/4)	38.100 (1 1/2)	74.3	2
	BR 405228	555	63.500 (2 1/2)	82.550 (3 1/4)	44.450 (1 3/4)	74.3	2
69.850 (2 3/4)	BR 445624	510	69.850 (2 3/4)	88.900 (3 1/2)	38.100 (1 1/2)	80.7	2
	BR 445628	600	69.850 (2 3/4)	88.900 (3 1/2)	44.450 (1 3/4)	80.7	2
76.200 (3)	BR 486024	555	76.200 (3)	95.250 (3 3/4)	38.100 (1 1/2)	87	2
	BR 486028	650	76.200 (3)	95.250 (3 3/4)	44.450 (1 3/4)	87	2
82.550 (3 1/4)	BR 526828	990	82.550 (3 1/4)	107.950 (4 1/4)	44.450 (1 3/4)	99.7	2
	BR 526832	1 140	82.550 (3 1/4)	107.950 (4 1/4)	50.800 (2)	99.7	2
88.900 (3 1/2)	BR 567232	1 220	88.900 (3 1/2)	114.300 (4 1/2)	50.800 (2)	106.1	2
95.250 (3 3/4)	BR 607632	1 290	95.250 (3 3/4)	120.650 (4 3/4)	50.800 (2)	111.4	2.5
101.600 (4)	BR 648032	1 370	101.600 (4)	127.000 (5)	50.800 (2)	117.8	2.5

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. In bearings with a roller set bore diameter F_w of 69.850 mm or less, the outer ring has an oil groove and an oil hole. In others, the outer ring has an oil groove and two oil holes.

2. No grease is prepacked. Perform proper lubrication.

Basic dynamic load rating C	Basic static load rating C_0	Allowable rotational speed ⁽²⁾
N	N	min ⁻¹
51 000	89 400	8 000
63 200	118 000	8 000
90 300	158 000	7 000
105 000	191 000	7 000
94 600	174 000	6 500
110 000	210 000	6 500
98 700	189 000	5 500
114 000	228 000	5 500
105 000	211 000	5 500
122 000	255 000	5 500
141 000	259 000	5 000
154 000	290 000	5 000
162 000	316 000	4 500
169 000	342 000	4 000
176 000	368 000	4 000