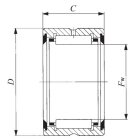




MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, Without Inner Ring, Inch Series



BR...UU

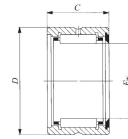
Shaft dia. 15.875 – 50.800mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) g	Boundary dimensions mm(inch)		
	With two seals	With one seal		F_w	D	C
15.875 ($\frac{5}{8}$)	BR 101816 UU	BR 101816 U	54	15.875 ($\frac{5}{8}$)	28.575 (1 $\frac{1}{8}$)	25.400 (1)
19.050 ($\frac{3}{4}$)	BR 122016 UU	BR 122016 U	68	19.050 ($\frac{3}{4}$)	31.750 (1 $\frac{1}{4}$)	25.400 (1)
22.225 ($\frac{7}{8}$)	BR 142216 UU	BR 142216 U	76	22.225 ($\frac{7}{8}$)	34.925 (1 $\frac{3}{8}$)	25.400 (1)
25.400 (1)	BR 162416 UU	BR 162416 U	83	25.400 (1)	38.100 (1 $\frac{1}{2}$)	25.400 (1)
28.575 (1 $\frac{1}{8}$)	BR 182620 UU	BR 182620 U	115	28.575 (1 $\frac{1}{8}$)	41.275 (1 $\frac{3}{8}$)	31.750 (1 $\frac{1}{4}$)
31.750 (1 $\frac{1}{4}$)	BR 202820 UU	BR 202820 U	124	31.750 (1 $\frac{1}{4}$)	44.450 (1 $\frac{3}{4}$)	31.750 (1 $\frac{1}{4}$)
34.925 (1 $\frac{3}{8}$)	BR 223020 UU	BR 223020 U	134	34.925 (1 $\frac{3}{8}$)	47.625 (1 $\frac{7}{8}$)	31.750 (1 $\frac{1}{4}$)
38.100 (1 $\frac{1}{2}$)	BR 243320 UU	BR 243320 U	168	38.100 (1 $\frac{1}{2}$)	52.388 (2 $\frac{3}{16}$)	31.750 (1 $\frac{1}{4}$)
41.275 (1 $\frac{5}{8}$)	BR 263520 UU	BR 263520 U	179	41.275 (1 $\frac{5}{8}$)	55.562 (2 $\frac{1}{8}$)	31.750 (1 $\frac{1}{4}$)
44.450 (1 $\frac{3}{4}$)	BR 283720 UU	BR 283720 U	193	44.450 (1 $\frac{3}{4}$)	58.738 (2 $\frac{3}{16}$)	31.750 (1 $\frac{1}{4}$)
47.625 (1 $\frac{7}{8}$)	BR 303920 UU	BR 303920 U	202	47.625 (1 $\frac{7}{8}$)	61.912 (2 $\frac{3}{16}$)	31.750 (1 $\frac{1}{4}$)
50.800 (2)	BR 324120 UU	BR 324120 U	216	50.800 (2)	65.088 (2 $\frac{3}{16}$)	31.750 (1 $\frac{1}{4}$)

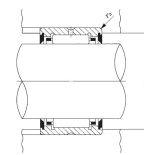
Notes(1) Maximum permissible corner radius of the housing
(2) Allowable rotational speed applies to grease lubrication.

Remarks 1. The outer ring has an oil groove and an oil hole.

2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.



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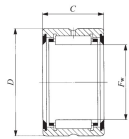


Standard mounting dimensions D_a Max.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed ⁽²⁾ rpm	
			$r_{as \text{ max}}$ (⁽¹⁾)	
24.5	18 300	20 000	0.6	12 000
26.5	20 700	24 400	1.0	10 000
29.7	21 600	26 900	1.0	9 000
32.9	23 600	31 300	1.0	8 000
36.0	34 900	49 900	1.0	7 000
39.2	36 000	53 500	1.0	6 500
42.4	38 500	60 000	1.0	5 500
45.1	43 700	66 900	1.5	5 500
48.3	44 800	70 900	1.5	4 500
51.5	47 500	78 200	1.5	4 500
54.7	48 500	82 100	1.5	4 000
57.8	51 000	89 400	1.5	4 000



MACHINED TYPE NEEDLE ROLLER BEARINGS

With Seal, Without Inner Ring, Inch Series



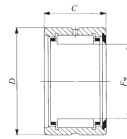
BR...UU

Shaft dia. 57.150 – 95.250mm

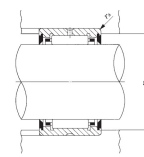
Shaft dia. mm (inch)	Identification number		Mass (Ref.) g	Boundary dimensions mm(inch)		
	With two seals	With one seal		F_w	D	C
57.150 (2¼)	BR 364828 UU	BR 364828 U	459	57.150 (2 ¼)	76.200 (3)	44.450 (1 ¾)
63.500 (2½)	BR 405228 UU	BR 405228 U	499	63.500 (2 ½)	82.550 (3 ¼)	44.450 (1 ¾)
69.850 (2¾)	BR 445628 UU	BR 445628 U	540	69.850 (2 ¾)	88.900 (3 ½)	44.450 (1 ¾)
76.200 (3)	BR 486028 UU	BR 486028 U	585	76.200 (3)	95.250 (3 ¾)	44.450 (1 ¾)
82.550 (3¼)	BR 526828 UU	BR 526828 U	891	82.550 (3 ¼)	107.950 (4 ¼)	44.450 (1 ¾)
88.900 (3½)	BR 567232 UU	BR 567232 U	1 098	88.900 (3 ½)	114.300 (4 ½)	50.800 (2)
95.250 (3¾)	BR 607632 UU	BR 607632 U	1 161	95.250 (3 ¾)	120.650 (4 ¾)	50.800 (2)

Notes(1) Maximum permissible corner radius of the housing
(2) Allowable rotational speed applies to grease lubrication.

Remarks 1. The outer ring has an oil groove and an oil hole.
2. Bearings with seals on both sides are provided with prepacked grease. Bearings with a seal on one side are not provided with prepacked grease. Perform proper lubrication for use.



BR...U



Standard mounting dimensions mm		Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(2) rpm
D_a Max.	r_{as} max (1)			
69.0	1.5	90 300	158 000	3 500
74.3	2.0	94 600	174 000	3 000
80.7	2.0	98 700	189 000	2 500
87.0	2.0	105 000	211 000	2 500
99.7	2.0	109 000	227 000	2 500
106.1	2.0	142 000	265 000	2 000
111.4	2.5	148 000	287 000	2 000