

SHELL TYPE NEEDLE ROLLER BEARINGS

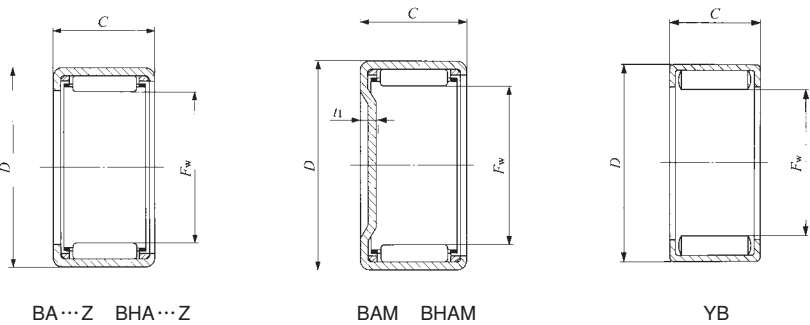
Inch Series



Shaft dia. 31.750 – 33.338mm

Shaft dia. mm (inch)	Identification number									
	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Standard	Mass (Ref.) g	Closed end	Mass (Ref.) g	Grease retained	Mass (Ref.) g
31.750 (1 1/4)	BA 208 Z	21.5	BAM 208	26	—	—	—	—	—	—
	BA 210 Z	27	BAM 210	31.5	—	—	—	—	—	—
	BA 212 Z	32.5	BAM 212	37	—	—	—	—	—	—
	BA 216 Z	43	BAM 216	47.5	—	—	—	—	—	—
	BA 220 Z	53.5	BAM 220	58	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 210	35
	—	—	—	—	—	—	—	—	YB 212	42.5
	—	—	—	—	—	—	—	—	YB 216	57
	—	—	—	—	—	—	—	—	YB 218	64
	—	—	—	—	—	—	—	—	YB 220	68
	—	—	—	—	BHA 208 Z	34.5	BHAM 208	40	—	—
	—	—	—	—	BHA 212 Z	49.5	BHAM 212	54.5	—	—
	—	—	—	—	BHA 216 Z	66	BHAM 216	71	—	—
	—	—	—	—	BHA 220 Z	81.5	BHAM 220	86.5	—	—
33.338 (1 5/16)	BA 218 Z	28.5	BAM 218	35	—	—	—	—	—	—
	BA 2110 Z	35.5	BAM 2110	41.5	—	—	—	—	—	—
	BA 2112 Z	43	BAM 2112	49	—	—	—	—	—	—

Note⁽¹⁾ Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.
Remark Shell Type Grease Retained Full Complement Needle Roller Bearings are provided with prepacked grease. Standard type and closed end type bearings are not provided with prepacked grease, so perform proper lubrication when using these types of bearings.



Boundary dimensions mm(inch)				Standard mounting dimensions mm				Basic dynamic load rating C	Basic static load rating C0	Allowable rotational speed ⁽¹⁾	Assembled inner ring
F _w	D	C	t ₁ Max.	Shaft dia. h6		Housing bore dia. J7		N	N	rpm	
				Max.	Min.	Max.	Min.				
31.750 (1 1/4)	38.100 (1 1/2)	12.70 (.500)	2.8	31.750	31.734	38.114	38.089	9 100	14 700	12 000	IRB 168
31.750 (1 1/4)	38.100 (1 1/2)	15.88 (.625)	2.8					12 500	22 200	12 000	IRB 1610
31.750 (1 1/4)	38.100 (1 1/2)	19.05 (.750)	2.8					15 700	29 600	12 000	IRB 1612
31.750 (1 1/4)	38.100 (1 1/2)	25.40 (1.000)	2.8					21 500	44 300	12 000	IRB 1616
31.750 (1 1/4)	38.100 (1 1/2)	31.75 (1.250)	2.8					26 900	59 200	12 000	IRB 1620
31.750 (1 1/4)	38.100 (1 1/2)	15.88 (.625)	—					27 000	59 000	4 500	IRB 1610
31.750 (1 1/4)	38.100 (1 1/2)	19.05 (.750)	—	31.750	31.734	38.114	38.089	31 800	72 500	4 500	IRB 1612
31.750 (1 1/4)	38.100 (1 1/2)	25.40 (1.000)	—					40 900	100 000	4 500	IRB 1616
31.750 (1 1/4)	38.100 (1 1/2)	28.58 (1.125)	—					45 300	114 000	4 500	—
31.750 (1 1/4)	38.100 (1 1/2)	31.75 (1.250)	—					49 400	128 000	4 500	IRB 1620
31.750 (1 1/4)	41.275 (1 5/8)	12.70 (.500)	3.4	31.750	31.734	41.289	41.264	13 700	17 600	12 000	IRB 168
31.750 (1 1/4)	41.275 (1 5/8)	19.05 (.750)	3.4					24 100	36 400	12 000	IRB 1612
31.750 (1 1/4)	41.275 (1 5/8)	25.40 (1.000)	3.4					33 200	55 000	12 000	IRB 1616
31.750 (1 1/4)	41.275 (1 5/8)	31.75 (1.250)	3.4					40 000	69 600	12 000	IRB 1620
33.338 (1 5/16)	41.275 (1 5/8)	12.70 (.500)	2.8	33.338	33.322	41.289	41.264	11 100	15 800	11 000	IRB 168-1
33.338 (1 5/16)	41.275 (1 5/8)	15.88 (.625)	2.8					15 400	23 900	11 000	IRB 1610-1
33.338 (1 5/16)	41.275 (1 5/8)	19.05 (.750)	2.8					19 300	32 100	11 000	IRB 1612-1