

SHELL TYPE NEEDLE ROLLER BEARINGS

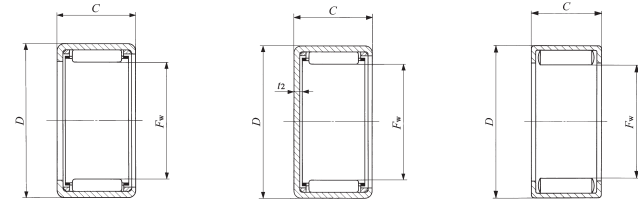
Inch Series



Shaft dia. 17.462 – 19.050mm

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
17.462 (¹¹ / ₁₆)	BA 116 Z	7	BAM 116	8.4	—	—	—	—	—	—
	BA 118 Z	9.5	BAM 118	10.8	—	—	—	—	—	—
	BA 1110 Z	11.8	BAM 1110	13.2	—	—	—	—	—	—
	BA 1112 Z	14	BAM 1112	15.4	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 1112	18.3
	—	—	—	—	BHA 117 Z	11.9	BHAM 117	13.5	—	—
	—	—	—	—	BHA 118 Z	13.7	BHAM 118	15.3	—	—
	—	—	—	—	BHA 1110 Z	16	BHAM 1110	17.6	—	—
	—	—	—	—	BHA 1112 Z	19.3	BHAM 1112	21	—	—
	19.050 (³ / ₄)	BA 126 Z	10	BAM 126	11.7	—	—	—	—	—
BA 128 Z		13.5	BAM 128	15.2	—	—	—	—	—	—
BA 1210 Z		17	BAM 1210	18.6	—	—	—	—	—	—
BA 1212 Z		20.5	BAM 1212	22	—	—	—	—	—	—
BA 1214 Z		23.5	BAM 1214	25	—	—	—	—	—	—
BA 1216 Z		27	BAM 1216	28.5	—	—	—	—	—	—
—		—	—	—	—	—	—	—	YB 124	8.5
—		—	—	—	—	—	—	—	YB 128	17.8
—		—	—	—	—	—	—	—	YB 1210	22.5
—		—	—	—	—	—	—	—	YB 1212	27
—		—	—	—	BHA 1212 Z	26.5	BHAM 1212	28.5	—	—

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.



BA...Z BHA...Z

BAM BHAM

YB

Boundary dimensions mm(inch)				Standard mounting dimensions mm				Basic dynamic load rating C N	Basic static load rating C ₀ N	Allowable rotational speed(1) rpm	Assembled inner ring								
F _w	D	C	t ₂ Max.	Shaft dia. h6		Housing bore dia. J7													
				Max.	Min.	Max.	Min.												
17.462 (¹¹ / ₁₆)	22.225 (⁷ / ₈)	9.52 (.375)	1.3	17.462	17.451	22.237	22.216	4 530	5 980	25 000	IRB 86								
17.462 (¹¹ / ₁₆)	22.225 (⁷ / ₈)	12.70 (.500)	1.3					6 140	8 850	25 000	IRB 88								
17.462 (¹¹ / ₁₆)	22.225 (⁷ / ₈)	15.88 (.625)	1.3					8 280	13 000	25 000	—								
17.462 (¹¹ / ₁₆)	22.225 (⁷ / ₈)	19.05 (.750)	1.3					10 200	17 000	25 000	IRB 812								
17.462 (¹¹ / ₁₆)	22.225 (⁷ / ₈)	19.05 (.750)	—					18 700	40 300	8 500	IRB 812								
17.462 (¹¹ / ₁₆)	23.812 (⁵ / ₈)	11.13 (.438)	1.3					17.462	17.451	23.824	23.803	6 860	8 530	25 000	—				
17.462 (¹¹ / ₁₆)	23.812 (⁵ / ₈)	12.70 (.500)	1.3									7 320	9 270	25 000	IRB 88				
17.462 (¹¹ / ₁₆)	23.812 (⁵ / ₈)	15.88 (.625)	1.3									10 500	14 900	25 000	—				
17.462 (¹¹ / ₁₆)	23.812 (⁵ / ₈)	19.05 (.750)	1.3									13 200	19 900	25 000	IRB 812				
19.050 (³ / ₄)	25.400 (1)	9.52 (.375)	1.3									19.050	19.037	25.412	25.391	5 040	5 850	20 000	—
19.050 (³ / ₄)	25.400 (1)	12.70 (.500)	1.3	6 910	8 780	20 000	IRB 88-1												
19.050 (³ / ₄)	25.400 (1)	15.88 (.625)	1.3	9 500	13 200	20 000	IRB 810-1												
19.050 (³ / ₄)	25.400 (1)	19.05 (.750)	1.3	11 900	17 700	20 000	IRB 812-1												
19.050 (³ / ₄)	25.400 (1)	22.22 (.875)	1.3	14 200	22 200	20 000	IRB 814-1												
19.050 (³ / ₄)	25.400 (1)	25.40(1.000)	1.3	16 300	26 500	20 000	IRB 816-1												
19.050 (³ / ₄)	25.400 (1)	6.35 (.250)	—	19.050	19.037	25.412	25.391	7 820	10 200	8 000	—								
19.050 (³ / ₄)	25.400 (1)	12.70 (.500)	—					16 600	26 900	8 000	IRB 88-1								
19.050 (³ / ₄)	25.400 (1)	15.88 (.625)	—					20 500	35 300	8 000	IRB 810-1								
19.050 (³ / ₄)	25.400 (1)	19.05 (.750)	—					24 100	43 400	8 000	IRB 812-1								
19.050 (³ / ₄)	26.988 (1 ⁵ / ₈)	19.05 (.750)	1.3					19.050	19.037	27.000	26.979					16 600	22 600	20 000	IRB 812-1

TA
TLA
BA
BHA