

SHELL TYPE NEEDLE ROLLER BEARINGS

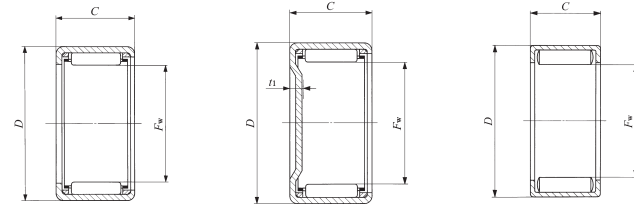
Inch Series



Shaft dia. 28.575 – 30.162mm

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
28.575 (1 1/8)	BA 186 Z	14.5	BAM 186	18.1	—	—	—	—	—	—
	BA 188 Z	19.5	BAM 188	23	—	—	—	—	—	—
	BA 1812 Z	29.5	BAM 1812	33	—	—	—	—	—	—
	BA 1816 Z	39	BAM 1816	42.5	—	—	—	—	—	—
	BA 1820 Z	48.5	BAM 1820	52	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 188	25.5
	—	—	—	—	—	—	—	—	YB 1812	38.5
	—	—	—	—	—	—	—	—	YB 1816	51.5
	—	—	—	—	BHA 1812 Z	45	BHAM 1812	49	—	—
	—	—	—	—	BHA 1816 Z	60	BHAM 1816	64	—	—
—	—	—	—	BHA 1818 Z	67.5	BHAM 1818	71.5	—	—	
—	—	—	—	BHA 1820 Z	73.5	BHAM 1820	78	—	—	
30.162 (1 3/16)	BA 1910 Z	32.5	BAM 1910	37.5	—	—	—	—	—	—
	BA 1916 Z	52	BAM 1916	57	—	—	—	—	—	
	—	—	—	—	—	—	—	—	YB 1910	42.5

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 ₁ Max.	Shaft dia. h6		Housing bore dia. J7					
				Max.	Min.	Max.	Min.				
28.575 (1 1/8)	34.925 (1 3/8)	9.52 (.375)	2.8					6 330	8 910	13 000	—
28.575 (1 1/8)	34.925 (1 3/8)	12.70 (.500)	2.8					8 680	13 400	13 000	IRB 148
28.575 (1 1/8)	34.925 (1 3/8)	19.05 (.750)	2.8					15 000	26 900	13 000	IRB 1412
28.575 (1 1/8)	34.925 (1 3/8)	25.40 (1.000)	2.8	28.575	28.562	34.939	34.914	20 500	40 300	13 000	IRB 1416
28.575 (1 1/8)	34.925 (1 3/8)	31.75 (1.250)	2.8					25 700	53 900	13 000	IRB 1420
28.575 (1 1/8)	34.925 (1 3/8)	12.70 (.500)	—					20 700	40 500	5 500	IRB 148
28.575 (1 1/8)	34.925 (1 3/8)	19.05 (.750)	—					30 000	65 300	5 500	IRB 1412
28.575 (1 1/8)	34.925 (1 3/8)	25.40 (1.000)	—					38 700	90 400	5 500	IRB 1416
28.575 (1 1/8)	38.100 (1 1/2)	19.05 (.750)	3.4					22 500	32 200	13 000	IRB 1412
28.575 (1 1/8)	38.100 (1 1/2)	25.40 (1.000)	3.4	28.575	28.562	38.114	38.089	30 900	48 600	13 000	IRB 1416
28.575 (1 1/8)	38.100 (1 1/2)	28.58 (1.125)	3.4					34 900	56 600	13 000	—
28.575 (1 1/8)	38.100 (1 1/2)	31.75 (1.250)	3.4					37 100	61 100	13 000	IRB 1420
30.162 (1 3/16)	38.100 (1 1/2)	15.88 (.625)	2.8					15 000	22 500	12 000	—
30.162 (1 3/16)	38.100 (1 1/2)	25.40 (1.000)	2.8	30.162	30.146	38.114	38.089	25 800	45 300	12 000	—
30.162 (1 3/16)	38.100 (1 1/2)	15.88 (.625)	—					28 400	53 600	5 000	—

TA
TLA
BA
BHA