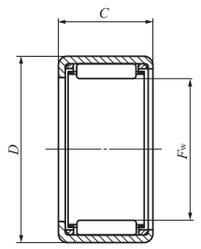
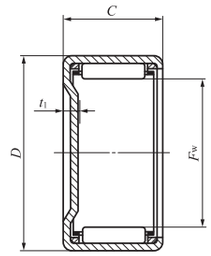
SHELL TYPE NEEDLE ROLLER BEARINGS

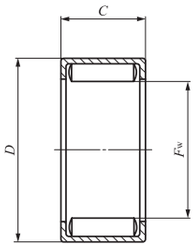
Inch Series



BA ··· Z BHA ··· Z



BAM BHAM



YB

Shaft dia. 41.275 — 52.388mm

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
41.275 (1 5/8)	BA 268 Z	41	BAM 268	51.5	—	—	—	—	—	—
	BA 2610 Z	52	BAM 2610	62.5	—	—	—	—	—	—
	BA 2616 Z	85	BAM 2616	95.5	—	—	—	—	—	—
	BA 2620 Z	105	BAM 2620	115	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 2610	69
44.450 (1 3/4)	BA 2812 Z	67.5	BAM 2812	79.5	—	—	—	—	—	—
	BA 2816 Z	91	BAM 2816	103	—	—	—	—	—	—
	BA 2820 Z	112	BAM 2820	125	—	—	—	—	—	—
	BA 2824 Z	136	BAM 2824	148	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 2816	119
	—	—	—	—	BHA 2824 Z	195	BHAM 2824	210	—	—
47.625 (1 7/8)	BA 308 Z	47.5	BAM 308	61	—	—	—	—	—	—
	BA 3010 Z	60	BAM 3010	74	—	—	—	—	—	—
	BA 3012 Z	72.5	BAM 3012	86.5	—	—	—	—	—	—
	BA 3016 Z	97.5	BAM 3016	112	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 3012	95
50.800 (2)	BA 328 Z	50	BAM 328	66	—	—	—	—	—	—
	BA 3216 Z	104	BAM 3216	119	—	—	—	—	—	—
	BA 3220 Z	128	BAM 3220	144	—	—	—	—	—	—
	BA 3224 Z	155	BAM 3224	170	—	—	—	—	—	—
	BAW3228Z	180	BAMW3228	196	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	YB 3216	130
52.388 (2 1/16)	—	—	—	—	BHA 3312 Z	104	BHAM 3312	122	—	—
	—	—	—	—	BHA 3316 Z	139	BHAM 3316	157	—	—
	—	—	—	—	BHA 3324 Z	205	BHAM 3324	225	—	—

Boundary dimensions mm(inch) F_w	D	C	t_1 Max.	Standard mounting dimensions mm: Shaft dia. h6 Max.	Shaft dia. h6 Min.	Housing bore dia. J7 Max.	Housing bore dia. J7 Min.	Basic dynamic load rating C N	Basic static load rating C_0 N	Allowable rotational speed(1) min^{-1}	Assembled inner ring
41.275 (1 5/8)	50.800 (2)	12.70(.500)	2.8					13 700	19 800	8 000	—
41.275 (1 5/8)	50.800 (2)	15.88(.625)	2.8					18 900	30 000	8 000	IRB 2210
41.275 (1 5/8)	50.800 (2)	25.40(1.000)	2.8	41.275	41.259	50.818	50.788	33 000	61 400	8 000	—
41.275 (1 5/8)	50.800 (2)	31.75(1.250)	2.8					41 400	82 100	8 000	IRB 2220
41.275 (1 5/8)	50.800 (2)	15.88(.625)	—					37 000	71 700	3 500	IRB 2210
44.450 (1 3/4)	53.975 (2 1/8)	19.05(.750)	2.8					25 200	44 500	7 500	IRB 2412
44.450 (1 3/4)	53.975 (2 1/8)	25.40(1.000)	2.8					34 800	67 400	7 500	IRB 2416
44.450 (1 3/4)	53.975 (2 1/8)	31.75(1.250)	2.8	44.450	44.434	53.993	53.963	43 600	90 200	7 500	—
44.450 (1 3/4)	53.975 (2 1/8)	38.10(1.500)	2.8					52 000	113 000	7 500	IRB 2424
44.450 (1 3/4)	53.975 (2 1/8)	25.40(1.000)	—					59 500	136 000	3 500	IRB 2416
44.450 (1 3/4)	57.150 (2 1/4)	38.10(1.500)	3.4	44.450	44.434	57.168	57.138	72 200	135 000	7 500	IRB 2424
47.625 (1 7/8)	57.150 (2 1/4)	12.70(.500)	2.8					14 700	22 800	7 000	IRB 248-1
47.625 (1 7/8)	57.150 (2 1/4)	15.88(.625)	2.8					20 300	34 500	7 000	IRB 2410-1
47.625 (1 7/8)	57.150 (2 1/4)	19.05(.750)	2.8	47.625	47.609	57.168	57.138	25 700	46 700	7 000	—
47.625 (1 7/8)	57.150 (2 1/4)	25.40(1.000)	2.8					35 400	70 600	7 000	—
47.625 (1 7/8)	57.150 (2 1/4)	19.05(.750)	—					47 800	105 000	3 000	—
50.800 (2)	60.325 (2 3/8)	12.70(.500)	2.8					15 400	24 700	6 000	—
50.800 (2)	60.325 (2 3/8)	25.40(1.000)	2.8					37 100	76 500	6 000	IRB 2616
50.800 (2)	60.325 (2 3/8)	31.75(1.250)	2.8					46 600	102 000	6 000	IRB 2720
50.800 (2)	60.325 (2 3/8)	38.10(1.500)	2.8	50.800	50.781	60.343	60.313	55 500	128 000	6 000	—
50.800 (2)	60.325 (2 3/8)	44.45(1.750)	2.8					57 900	136 000	6 000	IRB 2628
50.800 (2)	60.325 (2 3/8)	25.40(1.000)	—					64 100	156 000	2 500	IRB 2616
52.388 (2 1/16)	64.294 (2 17/32)	19.05(.750)	3.4					36 400	62 100	6 000	—
52.388 (2 1/16)	64.294 (2 17/32)	25.40(1.000)	3.4	52.388	52.369	64.312	64.282	50 600	94 700	6 000	—
52.388 (2 1/16)	64.294 (2 17/32)	38.10(1.500)	3.4					73 900	154 000	6 000	—

Note(1) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.

Remarks1. "W" in the identification number indicates that rolling elements are arranged in double rows.

2. 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.

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch