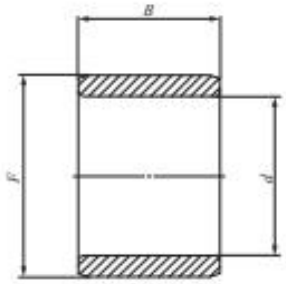
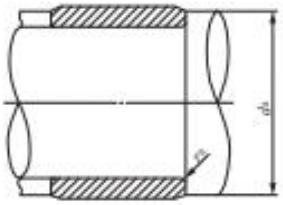
SORUPACHAI

Inner Rings for Shell Type Needle Roller Bearings Inch Series







IRB

Shaft dia. 7.938 — 15.875mm

Shaft dia. mm (inch)	Identification number	Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm (1) d_a Min.	d_a Max.	$r_{as\,max}$ Max.	Assembled bearings BA···Z (BAM)	BHA···Z (BHAM)	YB YBH
7.938 (5/16)	IRB 58	8	7.938 (5/16)	12.700 (1/2)	13.08	11.3	11.7	0.3	BA 88Z	BHA 88Z	YB 88
9.525 (3/8)	IRB 68	8.9	9.525 (3/8)	14.288 (9/16)	13.08	12.8	13.2	0.3	BA 98Z	BHA 98Z	YB 98
	IRB 68-1	12.6	9.525 (3/8)	15.875 (5/8)	13.08	12.8	14	0.3	BA 108Z	BHA 108Z	YB 108 YBH 108
	IRB 612	13.2	9.525 (3/8)	14.288 (9/16)	19.43	12.8	13.2	0.3	BA 912Z	—	YB 912
	IRB 612-1	18.8	9.525 (3/8)	15.875 (5/8)	19.43	12.8	14	0.3	BA 1012Z	BHA 1012Z	YB 1012
11.112 (7/16)	IRB 78	10.1	11.112 (7/16)	15.875 (5/8)	13.08	14.4	14.8	0.3	BA 108Z	BHA 108Z	YB 108 YBH 108
	IRB 712	15	11.112 (7/16)	15.875 (5/8)	19.43	14.4	14.8	0.3	BA 1012Z	BHA 1012Z	YB 1012
	IRB 714	17.4	11.112 (7/16)	15.875 (5/8)	22.60	14.4	14.8	0.3	BA 1014Z	—	—
	IRB 716	19.9	11.112 (7/16)	15.875 (5/8)	25.78	14.4	14.8	0.3	BA 1016Z	BHA 1016Z	—
12.700 (1/2)	IRB 86	8.5	12.700 (1/2)	17.462 (11/16)	9.90	16.9	16.9	0.3	BA 116Z	—	—
	IRB 88	11.2	12.700 (1/2)	17.462 (11/16)	13.08	16.9	16.9	0.3	BA 118Z	BHA 118Z	—
	IRB 812	16.7	12.700 (1/2)	17.462 (11/16)	19.43	16.9	16.9	0.3	BA 1112Z	BHA 1112Z	YB 1112
	IRB 88-1	15.8	12.700 (1/2)	19.050 (3/4)	13.08	16.9	17.5	0.6	BA 128Z	—	YB 128
	IRB 810-1	19.6	12.700 (1/2)	19.050 (3/4)	16.25	16.9	17.5	0.6	BA 1210Z	—	YB 1210
	IRB 812-1	23.5	12.700 (1/2)	19.050 (3/4)	19.43	16.9	17.5	0.6	BA 1212Z	BHA 1212Z	YB 1212
	IRB 814-1	27.5	12.700 (1/2)	19.050 (3/4)	22.60	16.9	17.5	0.6	BA 1214Z	—	—
	IRB 816-1	31	12.700 (1/2)	19.050 (3/4)	25.78	16.9	17.5	0.6	BA 1216Z	—	—
14.288 (9/16)	IRB 98	17.3	14.288 (9/16)	20.638 (13/16)	13.08	19	19.6	0.6	BA 138Z	BHA 138Z	YB 138
	IRB 910	21.5	14.288 (9/16)	20.638 (13/16)	16.25	19	19.6	0.6	BA 1310Z	BHA 1310Z	YBH 1310
	IRB 912	26	14.288 (9/16)	20.638 (13/16)	19.43	19	19.6	0.6	BA 1312Z	BHA 1312Z	YBH 1312
	IRB 914	30	14.288 (9/16)	20.638 (13/16)	22.60	19	19.6	0.6	BA 1314Z	—	—
	IRB 916	34.5	14.288 (9/16)	20.638 (13/16)	25.78	19	19.6	0.6	BA 1316Z	—	—
	IRB 920	43	14.288 (9/16)	20.638 (13/16)	32.13	19	19.6	0.6	BA 1320Z	—	—
15.875 (5/8)	IRB 106	14.5	15.875 (5/8)	22.225 (7/8)	9.90	20.7	21.2	0.6	BA 146Z	—	—
	IRB 108	18.9	15.875 (5/8)	22.225 (7/8)	13.08	20.7	21.2	0.6	BA 148Z	—	YB 148
	IRB 1012	28	15.875 (5/8)	22.225 (7/8)	19.43	20.7	21.2	0.6	BA 1412Z	BHA 1412Z	YB 1412

Note(1) Maximum allowable fillet corner radius of shaft
Remark No oil hole is provided.

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

SORUPACHAI

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INNER RINGS

Inner Rings for Shell Type Needle Roller Bearings Inch Series

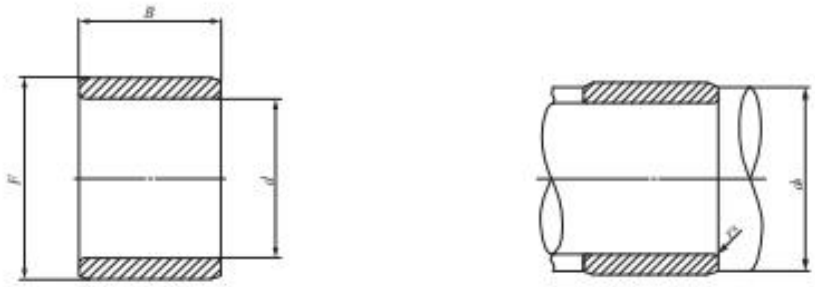


Shaft dia. 15.875 — 63.500mm

Shaft dia. mm (inch)	Identification number	Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm d_a Min.	d_a Max.	$r_{as\,max}$ (1) Max.	Assembled bearings BA···Z (BAM)	BHA···Z (BHAM)	YB YBH
15.875 (5/8)	IRB 1014	33	15.875 (5/8)	22.225 (7/8)	22.60	20.7	21.2	0.6	BA 1414Z	—	—
	IRB 1016	37.5	15.875 (5/8)	22.225 (7/8)	25.78	20.7	21.2	0.6	BA 1416Z	BHA 1416Z	YB 1416
	IRB 1022	51.5	15.875 (5/8)	22.225 (7/8)	35.30	20.7	21.2	0.6	BA 1422Z	—	—
17.462 (11/16)	IRB 1110	25.5	17.462 (11/16)	23.812 (15/16)	16.25	22.3	22.8	0.6	BA 1510Z	—	—
	IRB 1116	40.5	17.462 (11/16)	23.812 (15/16)	25.78	22.3	22.8	0.6	BA 1516Z	—	—
19.050 (3/4)	IRB 128	22	19.050 (3/4)	25.400 (1)	13.08	23.9	24.4	0.6	BA 168Z	BHA 168Z	YB 168 YBH 168
	IRB 1212	33	19.050 (3/4)	25.400 (1)	19.43	23.9	24.4	0.6	BA 1612Z	BHA 1612Z	YB 1612 YBH 1612
	IRB 1214	38.5	19.050 (3/4)	25.400 (1)	22.60	23.9	24.4	0.6	BA 1614Z	BHA 1614Z	—
	IRB 1216	43.5	19.050 (3/4)	25.400 (1)	25.78	23.9	24.4	0.6	BA 1616Z	BHA 1616Z	YB 1616 YBH 1616
	IRB 1220	54.5	19.050 (3/4)	25.400 (1)	32.13	23.9	24.4	0.6	BA 1620Z	BHA 1620Z	—
20.638 (13/16)	IRB 1316	34	20.638 (13/16)	25.400 (1)	25.78	24.9	24.9	0.6	BA 1616Z	BHA 1616Z	YB 1616 YBH 1616
22.225 (7/8)	IRB 148	25	22.225 (7/8)	28.575 (1 1/8)	13.08	27	27.5	0.6	BA 188Z	—	YB 188
	IRB 1412	37.5	22.225 (7/8)	28.575 (1 1/8)	19.43	27	27.5	0.6	BA 1812Z	BHA 1812Z	YB 1812
	IRB 1416	50	22.225 (7/8)	28.575 (1 1/8)	25.78	27	27.5	0.6	BA 1816Z	BHA 1816Z	YB 1816
	IRB 1420	62.5	22.225 (7/8)	28.575 (1 1/8)	32.13	27	27.5	0.6	BA 1820Z	BHA 1820Z	—
25.400 (1)	IRB 168	28.5	25.400 (1)	31.750 (1 1/4)	13.08	30	30.7	0.6	BA 208Z	BHA 208Z	—
	IRB 1610	35.5	25.400 (1)	31.750 (1 1/4)	16.25	30	30.7	0.6	BA 2010Z	—	YB 2010
	IRB 1612	42.5	25.400 (1)	31.750 (1 1/4)	19.43	30	30.7	0.6	BA 2012Z	BHA 2012Z	YB 2012
	IRB 1616	56	25.400 (1)	31.750 (1 1/4)	25.78	30	30.7	0.6	BA 2016Z	BHA 2016Z	YB 2016
	IRB 1620	70	25.400 (1)	31.750 (1 1/4)	32.13	30	30.7	0.6	BA 2020Z	BHA 2020Z	—
	IRB 168-1	36.5	25.400 (1)	33.338 (1 5/16)	13.08	30	32.1	0.6	BA 218Z	—	—
	IRB 1610-1	45.5	25.400 (1)	33.338 (1 5/16)	16.25	30	32.1	0.6	BA 2110Z	—	—
	IRB 1612-1	54.5	25.400 (1)	33.338 (1 5/16)	19.43	30	32.1	0.6	BA 2112Z	—	—

Note(1) Maximum allowable fillet corner radius of shaft
Remark No oil hole is provided.

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



IRB

Shaft dia. mm (inch)	Identification number	Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm d_a Min.	d_a Max.	$r_{as\,max}$ (1) Max.	Assembled bearings BA···Z (BAM)	BHA···Z (BHAM)	YB YBH
28.575 (1 1/8)	IRB 188	31.5	28.575 (1 1/8)	34.925 (1 3/8)	13.08	33.2	33.9	0.6	BA 228Z	BHA 228Z	YB 228
	IRB 1812	47	28.575 (1 1/8)	34.925 (1 3/8)	19.43	33.2	33.9	0.6	BA 2212Z	BHA 2212Z	YB 2212
	IRB 1816	62.5	28.575 (1 1/8)	34.925 (1 3/8)	25.78	33.2	33.9	0.6	BA 2216Z	BHA 2216Z	—
	IRB 1820	78	28.575 (1 1/8)	34.925 (1 3/8)	32.13	33.2	33.9	0.6	BA 2220Z	BHA 2220Z	YB 2220
31.750 (1 1/4)	IRB 2010	43	31.750 (1 1/4)	38.100 (1 1/2)	16.25	37	37.1	0.6	BA 2410Z	—	—
	IRB 2014	60	31.750 (1 1/4)	38.100 (1 1/2)	22.60	37	37.1	0.6	BA 2414Z	—	YB 2414
	IRB 2016	68.5	31.750 (1 1/4)	38.100 (1 1/2)	25.78	37	37.1	0.6	BA 2416Z	—	YB 2416
	IRB 2020	85.5	31.750 (1 1/4)	38.100 (1 1/2)	32.13	37	37.1	0.6	BA 2420Z	—	YB 2420
34.925 (1 3/8)	IRB 2210	47	34.925 (1 3/8)	41.275 (1 5/8)	16.25	40.2	40.2	0.6	BA 2610Z	—	YB 2610
	IRB 2220	93.5	34.925 (1 3/8)	41.275 (1 5/8)	32.13	40.2	40.2	0.6	BA 2620Z	—	—
36.512 (1 7/16)	IRB 2316	99	36.512 (1 7/16)	44.450 (1 3/4)	25.78	42.5	43.2	0.6	BA 2816Z	—	—
38.100 (1 1/2)	IRB 2412	62	38.100 (1 1/2)	44.450 (1 3/4)	19.43	43.3	43.4	0.6	BA 2812Z	—	—
	IRB 2416	81	38.100 (1 1/2)	44.450 (1 3/4)	25.78	43.3	43.4	0.6	BA 2816Z	—	YB 2816
	IRB 2424	121	38.100 (1 1/2)	44.450 (1 3/4)	38.48	43.3	43.4	0.6	BA 2824Z	BHA 2824Z	—
	IRB 248-1	64	38.100 (1 1/2)	47.625 (1 7/8)	13.08	44.5	45.5	1	BA 308Z	—	—
	IRB 2410-1	79.5	38.100 (1 1/2)	47.625 (1 7/8)	16.25	44.5	45.5	1	BA 3010Z	—	—
41.275 (1 5/8)	IRB 2616	136	41.275 (1 5/8)	50.800 (2)	25.78	47.5	48.5	1	BA 3216Z	—	—
	IRB 2628	235	41.275 (1 5/8)	50.800 (2)	44.83	47.5	48.5	1	BAW 3228Z	—	—
42.862 (1 11/16)	IRB 2720	146	42.862 (1 11/16)	50.800 (2)	32.13	48.5	49.5	0.6	BA 3220Z	—	—
47.625 (1 7/8)	IRB 3016	100	47.625 (1 7/8)	53.975 (2 1/8)	25.78	52.9	52.9	0.6	BA 3416Z	—	—
	IRB 3024	149	47.625 (1 7/8)	53.975 (2 1/8)	38.48	52.9	52.9	0.6	BA 3424Z	—	—
57.150 (2 1/4)	IRB 3616	183	57.150 (2 1/4)	66.675 (2 5/8)	25.78	63.5	64.5	1	BA 4216Z	—	—
63.500 (2 1/2)	IRB 4016	131	63.500 (2 1/2)	69.850 (2 3/4)	25.78	68.7	68.8	0.6	BA 4416Z	—	—
	IRB 4020	164	63.500 (2 1/2)	69.850 (2 3/4)	32.13	68.7	68.8	0.6	BA 4420Z	—	—

Note(1) Maximum allowable fillet corner radius of shaft
Remark No oil hole is provided.

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

SORUPACHAI

IKO

INNER RINGS

Inner Rings for General Usage Inch Series





Shaft dia. 9.525 — 22.225mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm d_a Min.	d_a Max.	$r_{as\ max}$ (1) Max.
9.525 (3/8)	LRB 61012	—	18.5	9.525 (3/8)	15.875 (5/8)	19.300	14	14.5	0.6
	—	LRBZ 61016 B	25	9.525 (3/8)	15.875 (5/8)	25.650	14	14.5	0.6
12.700 (1/2)	LRB 81212	—	23.5	12.700 (1/2)	19.050 (3/4)	19.300	17.5	18	1
	LRB 81216	—	31	12.700 (1/2)	19.050 (3/4)	25.650	17.5	18	1
	—	LRBZ 81216 B	31	12.700 (1/2)	19.050 (3/4)	25.650	17.5	18	0.6
15.875 (5/8)	LRB 101412	—	28	15.875 (5/8)	22.225 (7/8)	19.300	21	21.2	1
	LRB 101416	—	37.5	15.875 (5/8)	22.225 (7/8)	25.650	21	21.2	1
	—	LRBZ 101416 B	37.5	15.875 (5/8)	22.225 (7/8)	25.650	21	21.2	0.6
19.050 (3/4)	LRB 121612	—	33	19.050 (3/4)	25.400 (1)	19.300	24	24.4	1
	LRB 121616	—	44	19.050 (3/4)	25.400 (1)	25.650	24	24.4	1
	—	LRBZ 121616 B	44	19.050 (3/4)	25.400 (1)	25.650	24	24.4	0.6
22.225 (7/8)	LRB 141816	—	50	22.225 (7/8)	28.575 (1 1/8)	25.650	27	27.5	1
	LRB 141820	—	62	22.225 (7/8)	28.575 (1 1/8)	32.000	27	27.5	1
	—	LRBZ 141820 B	62	22.225 (7/8)	28.575 (1 1/8)	32.000	27	27.5	0.6

Note(1) Maximum allowable fillet corner radius of shaft
Remark LRB and LRBZ···B are provided with an oil groove and an oil hole.

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

SORUPACHAI

IKO

INNER RINGS

Inner Rings for General Usage Inch Series





Shaft dia. 25.400 — 38.100mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm d_a Min.	d_a Max.	$r_{as\,max}$ (1) Max.
25.400 (1)	LRB 162016	—	56	25.400 (1)	31.750 (1 1/4)	25.650	30.5	30.7	1
	LRB 162020	—	72	25.400 (1)	31.750 (1 1/4)	32.000	30.5	30.7	1
	—	LRBZ 162020 B	72	25.400 (1)	31.750 (1 1/4)	32.000	30.5	30.7	0.6
28.575 (1 1/8)	LRB 182216	—	63	28.575 (1 1/8)	34.925 (1 3/8)	25.650	33.5	33.9	1
	LRB 182220	—	77	28.575 (1 1/8)	34.925 (1 3/8)	32.000	33.5	33.9	1
	—	LRBZ 182220 B	77	28.575 (1 1/8)	34.925 (1 3/8)	32.000	33.5	33.9	0.6
31.750 (1 1/4)	LRB 202416	—	71	31.750 (1 1/4)	38.100 (1 1/2)	25.650	37	37.1	1.5
	LRB 202420	—	86	31.750 (1 1/4)	38.100 (1 1/2)	32.000	37	37.1	1.5
	—	LRBZ 202420 B	86	31.750 (1 1/4)	38.100 (1 1/2)	32.000	37	37.1	0.6
34.925 (1 3/8)	LRB 222616	—	77	34.925 (1 3/8)	41.275 (1 5/8)	25.650	40.2	40.2	1.5
	LRB 222620	—	96	34.925 (1 3/8)	41.275 (1 5/8)	32.000	40.2	40.2	1.5
	—	LRBZ 222620 B	96	34.925 (1 3/8)	41.275 (1 5/8)	32.000	40.2	40.2	0.6
38.100 (1 1/2)	LRB 242816	—	80	38.100 (1 1/2)	44.450 (1 3/4)	25.650	43.3	43.4	1.5
	LRB 242820	—	100	38.100 (1 1/2)	44.450 (1 3/4)	32.000	43.3	43.4	1.5
	LRB 243020	—	155	38.100 (1 1/2)	47.625 (1 7/8)	32.000	43.3	45	1.5
	—	LRBZ 242820 B	100	38.100 (1 1/2)	44.450 (1 3/4)	32.000	43.3	43.4	0.6
	—	LRBZ 243020 B	160	38.100 (1 1/2)	47.625 (1 7/8)	32.000	43.3	45	1

Note(1) Maximum allowable fillet corner radius of shaft
Remark LRB and LRBZ···B are provided with an oil groove and an oil hole.

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

SORUPACHAI

IKO

INNER RINGS

Inner Rings for General Usage Inch Series





Shaft dia. 41.275 — 63.500mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm d_a Min.	d_a Max.	$r_{as\,max}$ (1) Max.
41.275 (1 5/8)	LRB 263216	—	135	41.275 (1 5/8)	50.800 (2)	25.650	48	49	1.5
	LRB 263220	—	170	41.275 (1 5/8)	50.800 (2)	32.000	48	49	1.5
	—	LRBZ 263220 B	170	41.275 (1 5/8)	50.800 (2)	32.000	48	49	1
44.450 (1 3/4)	LRB 283624	—	300	44.450 (1 3/4)	57.150 (2 1/4)	38.350	52.5	55	1.5
	LRB 283628	—	345	44.450 (1 3/4)	57.150 (2 1/4)	44.700	52.5	55	1.5
	—	LRBZ 283628 B	345	44.450 (1 3/4)	57.150 (2 1/4)	44.700	52.5	55	1.5
50.800 (2)	LRB 324024	—	335	50.800 (2)	63.500 (2 1/2)	38.350	58	61	2
	LRB 324028	—	390	50.800 (2)	63.500 (2 1/2)	44.700	58	61	2
	—	LRBZ 324028 B	390	50.800 (2)	63.500 (2 1/2)	44.700	58	61	1.5
57.150 (2 1/4)	LRB 364424	—	375	57.150 (2 1/4)	69.850 (2 3/4)	38.350	65	67	2
	LRB 364428	—	440	57.150 (2 1/4)	69.850 (2 3/4)	44.700	65	67	2
	—	LRBZ 364428 B	440	57.150 (2 1/4)	69.850 (2 3/4)	44.700	65	67	1.5
63.500 (2 1/2)	LRB 404824	—	410	63.500 (2 1/2)	76.200 (3)	38.350	71	73	2
	LRB 404828	—	480	63.500 (2 1/2)	76.200 (3)	44.700	71	73	2
	—	LRBZ 404828 B	480	63.500 (2 1/2)	76.200 (3)	44.700	71	73	1.5

Note(1) Maximum allowable fillet corner radius of shaft
Remark LRB and LRBZ···B are provided with an oil groove and an oil hole.

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

SORUPACHAI

IKO

INNER RINGS

Inner Rings for General Usage Inch Series





Shaft dia. 69.850 — 88.900mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) g	Boundary dimensions mm(inch) d	F	B	Standard mounting dimensions mm d_a Min.	d_a Max.	$r_{as\,max}$ (1) Max.
69.850 (2 3/4)	LRB 445228	—	530	69.850 (2 3/4)	82.550 (3 1/4)	44.700	77	79	2
	LRB 445232	—	600	69.850 (2 3/4)	82.550 (3 1/4)	51.050	77	79	2
	—	LRBZ 445228 B	530	69.850 (2 3/4)	82.550 (3 1/4)	44.700	77	79	1.5
76.200 (3)	LRB 485632	—	640	76.200 (3)	88.900 (3 1/2)	51.050	83.5	86	2
	—	LRBZ 485632 B	640	76.200 (3)	88.900 (3 1/2)	51.050	83.5	86	1.5
82.550 (3 1/4)	LRB 526032	—	690	82.550 (3 1/4)	95.250 (3 3/4)	51.050	91	93	2.5
	—	LRBZ 526032 B	690	82.550 (3 1/4)	95.250 (3 3/4)	51.050	91	93	1.5
88.900 (3 1/2)	LRB 566432	—	750	88.900 (3 1/2)	101.600 (4)	51.050	97	99	2.5

Note(1) Maximum allowable fillet corner radius of shaft

Remark LRB with inner ring bore diameter d of 76.200 mm or less and LRBZ··B are provided with an oil groove and an oil hole. Other models are provided with an oil groove and two oil holes.

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