



洛阳百润斯轴承有限公司

www.brsbearing.com

BRS-RIGIA High Precision Crossed Roller Bearing Catalog



Company Introduction

Luoyang BRS Bearing Co., Ltd is located in Chinese national famous bearing base - Luoyang, where bearings have been mass-produced since 1956. BRS specialized in producing and selling slewing bearings, tapered roller bearing, cylindrical roller bearings, spherical roller bearings, precision bearings, angular contact ball bearings, thrust bearings, deep groove ball bearing, YRT bearings, etc. All kinds of bearings of the inner diameter $\Phi 100\text{mm}$ - $\Phi 7500\text{mm}$ can be manufactured.

The company owns a powerful technical team, and established a series of strict quality control management. Based on the decades of experience in this industry and professional knowledge of international procurement, BRS is able to supply high quality products and service with reasonable price.

RIGIA is a bearing brand of Luoyang BRS Bearing Co.,Ltd, it originates from "**R**igidity **I**ndustry **A**utomation Bearing". Committing to the rapid development of industrial automation, BRS Bearing Company provides complete solutions to meet various customers' requirements on bearing rotary precision, rigidity, and structure.

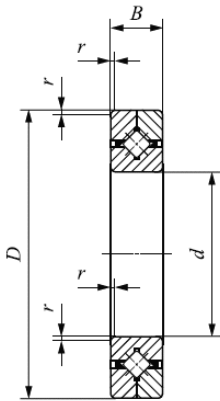
With regard to different applications and performance, RIGIA Bearing products can be classified as below categories:

1. Precision crossed cylindrical roller bearings
2. Negative clearance (pre-load) slewing bearings
3. Precision angular contact ball bearings
4. Special bearings such as YRT rotary bearing, ultra-thin walled ball bearing, turntable bearings with special coatings and materials etc.

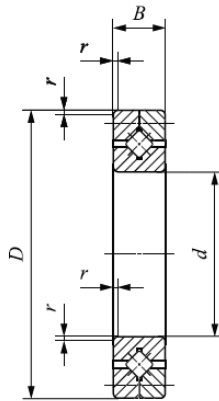
Products Feature

Crossed roller bearing's rolling elements alternately crossed at right angles to each other between inner and outer rings. The rollers are in line-contact with raceway surface, therefore the elastic deformation caused by bearing loads is very small. There are cages or separators(space retainers) between rollers, to avoid them from mutual friction, and improve bearings' rotation flexibility and speed. Crossed roller bearing has the feature of high rigidity, space saving and easy installation, it can undertake radial & axial loads and tilting moment at the same time, suited for applications like swiveling units of robots, machine tools, turntables, medical equipments, measuring instruments, other automation equipments, etc.

CRB/CRBC Crossed Roller Bearing - Integrated inner ring, split outer ring type (55 ~ 1030mm OD)



With Separators
CRBC

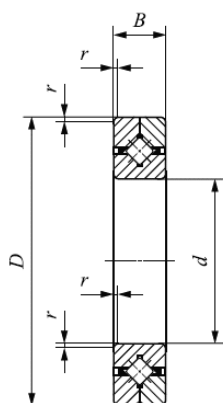


Full complement
CRB

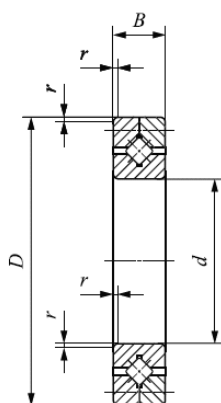


PART NO.		Dimension(mm)				CRB Load capacity (kN)		CRBC Load capacity (kN)		Mass
Full Complement	With Cage	d	D	B	rsmin	Cr	Cor	Cr	Cor	(kg)
CRB3010	CRBC3010	30	55	10	0.3	7.35	8.36	3.83	4.13	0.12
CRB4010	CRBC4010	40	65	10	0.3	8.33	10.6	4.28	5.14	0.15
CRB5013	CRBC5013	50	80	13	0.6	16.7	20.9	10.7	12.6	0.29
CRB6013	CRBC6013	60	90	13	0.6	18	24.3	11.6	14.6	0.33
CRB7013	CRBC7013	70	100	13	0.6	19.4	27.7	12.3	16.7	0.38
CRB8016	CRBC8016	80	120	16	0.6	30.1	42.1	18.2	25.5	0.74
CRB9016	CRBC9016	90	130	16	1	31.4	45.3	19.4	28.6	0.81
CRB10020	CRBC10020	100	150	20	1	33.1	50.9	31.5	45.1	1.45
CRB11020	CRBC11020	110	160	20	1	34	54	33.5	50.7	1.56
CRB12025	CRBC12025	120	180	25	1.5	66.9	100	47.7	70.5	2.62
CRB13025	CRBC13025	130	190	25	1.5	69.5	107	49.2	74.8	2.82
CRB14025	CRBC14025	140	200	25	1.5	74.8	121	50.7	79.2	2.96
CRB15025	CRBC15025	150	210	25	1.5	76.8	128	53.8	87.7	3.16
CRB15030	CRBC15030	150	230	30	1.5	100	156	69.2	108	5.3
CRB20025	CRBC20025	200	260	25	2	84.2	157	60.2	110	4
CRB20030	CRBC20030	200	280	30	2	114	200	108	178	6.7
CRB20035	CRBC20035	200	295	35	2	151	252	137	215	9.58
CRB25025	CRBC25025	250	310	25	2.5	69.3	150	67.2	136	4.97
CRB25030	CRBC25030	250	330	30	2.5	126	244	116	208	8.1
CRB25040	CRBC25040	250	355	40	2.5	195	348	179	299	14.8
CRB30025	CRBC30025	300	360	25	2.5	76.3	178	73.8	162	5.88
CRB30035	CRBC30035	300	395	35	2.5	183	367	163	299	13.4
CRB30040	CRBC30040	300	405	40	2.5	212	409	194	351	17.2
CRB40035	CRBC40035	400	480	35	2.5	156	370	133	300	14.5
CRB40040	CRBC40040	400	510	40	2.5	241	531	222	455	23.5
CRB40070	CRBC40070	400	580	70	2.5	470	811	470	811	72.4

CRB/CRBC Crossed Roller Bearing - Integrated inner ring, split outer ring type



With Separators
CRBC



Full complement
CRB

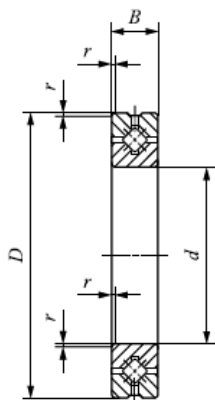


PART NO.		Dimension(mm)				CRB Load capacity (kN)		CRBC Load capacity (kN)		Mass
Full Complement	With Cage	d	D	B	rsmin	Cr	Cor	Cr	Cor	(kg)
CRB50040	CRBC50040	500	600	40	2.5	239	607	212	497	26
CRB50050	CRBC50050	500	625	50	2.5	267	653	247	561	41.7
CRB50070	CRBC50070	500	680	70	2.5	536	1020	536	1020	86.1
CRB60040	CRBC60040	600	700	40	3	264	721	231	581	30.6
CRB60070	CRBC60070	600	780	70	3	591	1230	591	1230	102
CRB600120	CRBC600120	600	870	120	3	1250	2270	1250	2210	274
CRB70045	CRBC70045	700	815	45	3	281	836	250	681	46.5
CRB70070	CRBC70070	700	880	70	3	630	1390	630	1390	115
CRB700150	CRBC700150	700	1020	150	3	1660	3010	1660	3010	478
CRB80070	CRBC80070	800	950	70	4	468	1330	417	1090	109
CRB800100	CRBC800100	800	1030	100	4	936	2040	936	2040	247

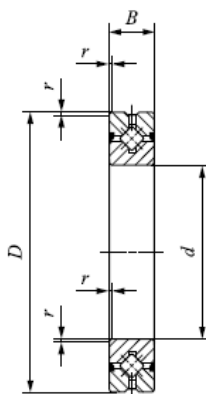
* CRB crossed roller bearing is full complement, CRBC crossed roller bearing is with cage

* CRB...UU/CRBC...UU is two sides sealed type

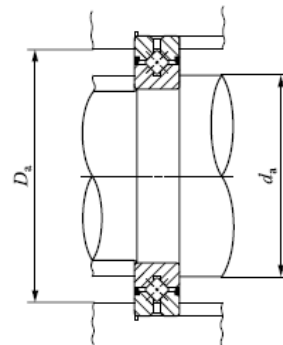
CRBH...A Crossed Roller Bearing - Integrated Inner/Outer ring, with separators, High rigidity type
(36 ~310mm OD)



CRBH...A



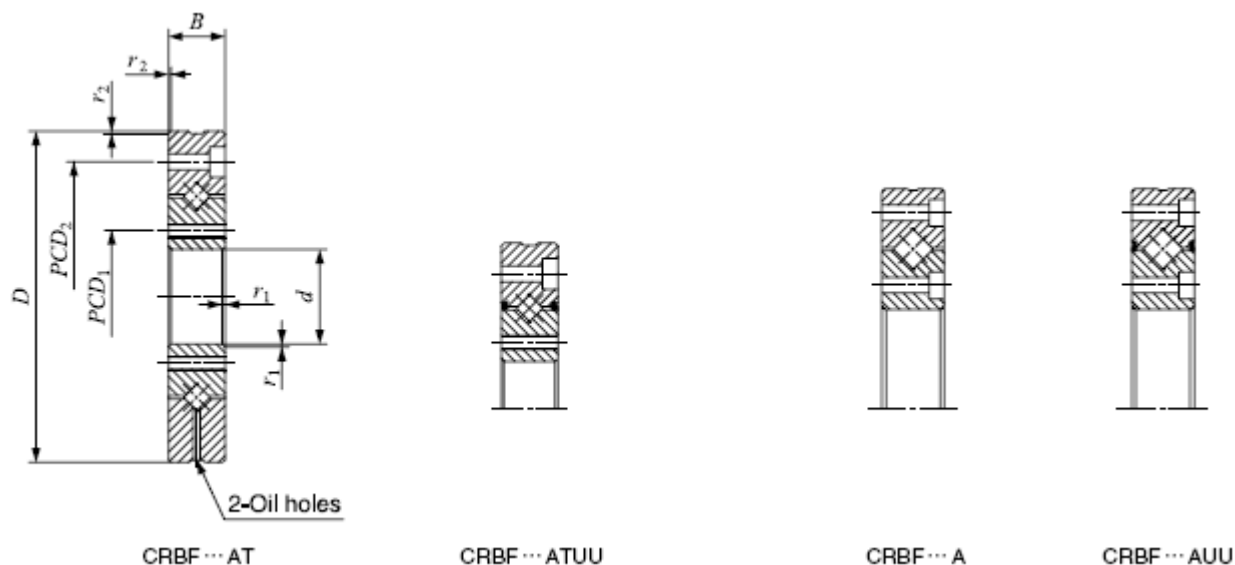
CRBH...AUU



Part No.		Dimension (mm)			Mounting (mm)		Load Rating (kN)		Weight
Open Type	Sealed Type	d	D	B	da	Da	C	C ₀	kg
CRBH 208 A	CRBH 208 A UU	20	36	8	24	31	2.91	2.43	0.04
CRBH 258 A	CRBH 258 A UU	25	41	8	29	36	3.12	2.81	0.05
CRBH 3010 A	CRBH 3010 A UU	30	55	10	36.5	48.5	7.6	8.37	0.12
CRBH 3510 A	CRBH 3510 A UU	35	60	10	41.5	53.5	7.9	9.13	0.13
CRBH 4010 A	CRBH 4010 A UU	40	65	10	46.5	58.5	8.61	10.6	0.15
CRBH 4510 A	CRBH 4510 A UU	45	70	10	51.5	63.5	8.86	11.3	0.16
CRBH 5013 A	CRBH 5013 A UU	50	80	13	56	74	17.3	20.9	0.29
CRBH 6013 A	CRBH 6013 A UU	60	90	13	66	84	18.8	24.3	0.33
CRBH 7013 A	CRBH 7013 A UU	70	100	13	76	94	20.1	27.7	0.38
CRBH 8016 A	CRBH 8016 A UU	80	120	16	88	112	32.1	43.4	0.74
CRBH 9016 A	CRBH 9016 A UU	90	130	16	98	122	33.1	46.8	0.81
CRBH 10020 A	CRBH 10020 A UU	100	150	20	110	140	50.9	72.2	1.45
CRBH 11020 A	CRBH 11020 A UU	110	160	20	120	150	52.4	77.4	1.56
CRBH 12025 A	CRBH 12025 A UU	120	180	25	132	168	73.4	108	2.62
CRBH 13025 A	CRBH 13025 A UU	130	190	25	142	178	75.9	115	2.82
CRBH 14025 A	CRBH 14025 A UU	140	200	25	152	188	81.9	130	2.96
CRBH 15025 A	CRBH 15025 A UU	150	210	25	162	198	84.3	138	3.16
CRBH 20025 A	CRBH 20025 A UU	200	260	25	212	248	92.3	169	4.0
CRBH 25025 A	CRBH 25025 A UU	250	310	25	262	298	102	207	4.97

* Outer ring has an oil groove and two oil holes.

**CRBF...A/AT Crossed Roller Bearing - Mounting holed type, Integrated Inner/Outer ring,
with separators(52 ~165mm OD)**



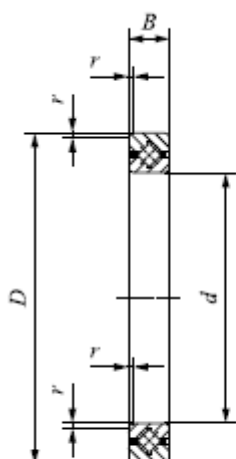
Part No.		Dimension (mm)				Mounting (mm)		Load Rating (kN)		Mass
Open Type	Sealed Type	d	D	B	rsmin	PCD1	PCD2	Cr	Cor	kg
CRBF 108 AT	CRBF 108 AT UU	10	52	8	0.3	16	42	2.91	2.43	0.12
CRBF 2012 AT	CRBF 2012AT UU	20	70	12	0.3	28	57	7.6	8.37	0.31
CRBF 2512 AT	CRBF 2512 AT UU	25	80	12	0.6	35	67	8.61	10.6	0.4
CRBF 3515 AT	CRBF 3515 AT UU	35	95	15	0.6	45	83	17.3	20.9	0.66
CRBF 5515 AT	CRBF 5515 AT UU	55	120	15	0.6	65	105	20.1	27.7	0.96
CRBF 8022 AT	CRBF 8022 AT UU	80	165	22	0.6	97	148	51.1	72	2.63
CRBF 8022 A	CRBF 8022 A UU	80	165	22	0.6	97	148	51.1	72	2.6
CRBF 8022 AD	CRBF 8022 AD UU	80	165	22	0.6	97	148	51.1	72	2.6

* Outer ring has oil groove and two oil holes

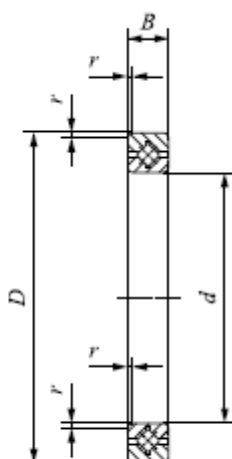
* CRBF...AT: with female threaded mounting holes on the inner ring

* CRBF...AD: with counter-bored mounting holes on both inner ring and outer ring in the Opposite direction

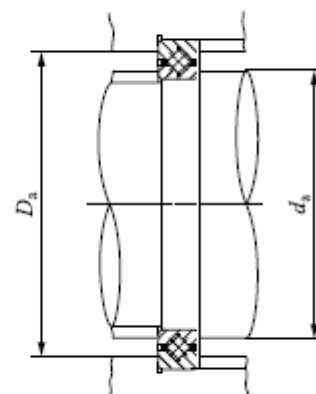
* CRBF...A: with counter-bored mounting holes on both inner ring and outer ring in the same direction

CRBS/CRBS...V Crossed Roller Bearing - Integrated Inner/Outer ring, slim type (66 ~226mm OD)


CRBS



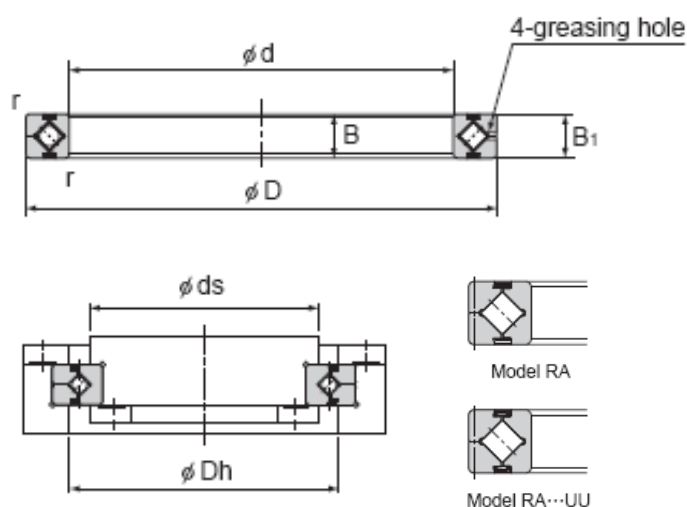
CRBS ...V



Model No.		Dimension(mm)				CRBS Load Rating		CRBS.V Load Rating		Mass
With cage	Full complement	d	D	B	rsmin	Cr	Cor	Cr	Cor	(kg)
CRBS508	CRBS508V	50	66	8	0.4	4.9	6.17	6.93	9.8	0.08
CRBS608	CRBS608V	60	76	8	0.4	5.35	7.31	7.6	11.7	0.09
CRBS708	CRBS708V	70	86	8	0.4	5.74	8.44	8.19	13.6	0.1
CRBS808	CRBS808V	80	96	8	0.4	6.13	9.59	8.79	15.5	0.12
CRBS908	CRBS908V	90	106	8	0.4	6.49	10.7	9.31	17.4	0.13
CRBS1008	CRBS1008V	100	116	8	0.4	6.85	11.9	9.85	19.3	0.15
CRBS1108	CRBS1108V	110	126	8	0.4	7.16	13	10.3	21.2	0.16
CRBS1208	CRBS1208V	120	136	8	0.4	7.53	14.1	10.9	23	0.18
CRBS1308	CRBS1308V	130	146	8	0.4	7.86	15.3	11.2	24.6	0.19
CRBS1408	CRBS1408V	140	156	8	0.4	8.06	16.4	11.7	26.8	0.21
CRBS1508	CRBS1508V	150	166	8	0.4	8.35	17.5	12.1	28.7	0.22
CRBS16013	CRBS16013V	160	186	13	0.6	20.3	39.9	26.9	58.2	0.62
CRBS17013	CRBS17013V	170	196	13	0.6	20.9	42.2	27.8	61.6	0.68
CRBS18013	CRBS18013V	180	206	13	0.6	21.5	44.6	28.6	65.2	0.71
CRBS19013	CRBS19013V	190	216	13	0.6	22.1	46.9	29.3	68.6	0.74
CRBS20013	CRBS20013V	200	226	13	0.6	22.5	49.3	30	72.2	0.78

- * CRBS slim type crossed roller bearing is with cage
- * CRBS...V slim type crossed roller bearing is full complement
- * CRBS...A is slim type crossed roller bearing is with separators
- * UU means sealed two sides

RA Crossed Roller Bearing - Integrated inner ring and split outer ring, ultra-thin type(66 ~226mm OD)



Part No.	Dimension (mm)			Shoulder Height		Load Rating		Mass (kg)
	d	D	B	ds(max)	Dh(min)	Cr (kN)	Cor (kN)	
RA5008	55	66	8	53.5	60.5	5.1	7.19	0.08
RA6008	60	76	8	63.5	70.5	5.68	8.68	0.09
RA7008	70	86	8	73.5	80.5	5.98	9.8	0.1
RA8008	80	96	8	83.5	90.5	6.37	11.3	0.11
RA9008	90	106	8	93.5	100.5	6.76	12.4	0.12
RA10008	100	116	8	103.5	110.5	7.15	13.9	0.14
RA11008	110	126	8	113.5	120.5	7.45	15	0.15
RA12008	120	136	8	123.5	130.5	7.84	16.5	0.17
RA13008	130	146	8	133.5	140.5	7.94	17.6	0.18
RA14008	140	156	8	143.5	150.5	8.33	19.1	0.19
RA15008	150	166	8	153.5	160.5	8.82	20.6	0.2
RA16013	160	186	13	165	179	23.3	44.9	0.59
RA17013	170	196	13	175	189	23.5	46.5	0.64
RA18013	180	206	13	185	199	24.5	49.8	0.68
RA19013	190	216	13	195	209	24.9	51.5	0.69
RA20013	200	226	13	205	219	25.8	54.7	0.71

* RA...UU is two sides sealed type

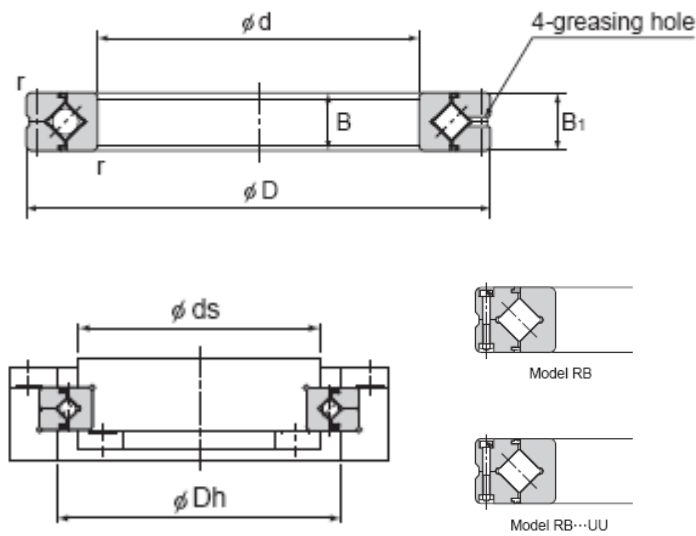
RA7008 UU CC0

Model number

Radial clearance symbol (*1)

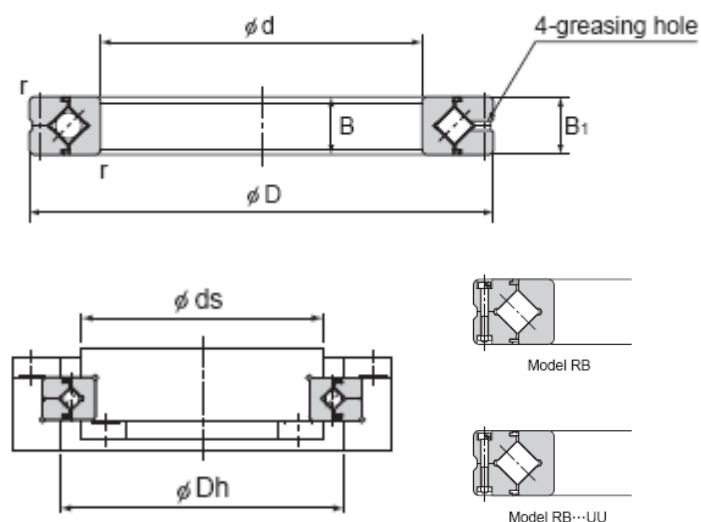
Seal attached on both ends (seal attached on either end: U)

RB Crossed Roller Bearing - Integrated inner ring and split outer ring(36 ~1500mm OD)



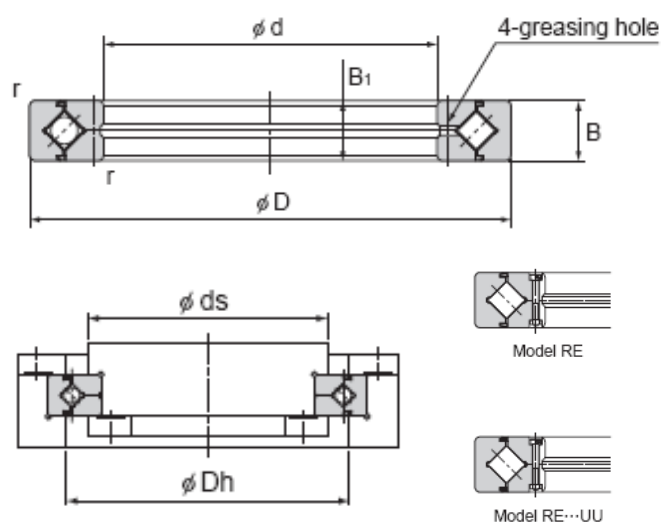
Part No.	Dimension (mm)			Shoulder Height		Load Rating		Mass
	d	D	B	ds(max)	Dh(min)	Cr (kN)	Cor (kN)	(kg)
RB 2008	20	36	8	23.5	30.5	3.23	3.1	0.04
RB 2508	25	41	8	28.5	35.5	3.63	3.83	0.05
RB 3010	30	55	10	37	47	7.35	8.36	0.12
RB 3510	35	60	10	41	51.5	7.64	9.12	0.13
RB 4010	40	65	10	46.5	57.5	8.33	10.6	0.16
RB 4510	45	70	10	51	61.5	8.62	11.3	0.17
RB 5013	50	80	13	57	72	16.7	20.9	0.27
RB 6013	60	90	13	67	82	18	24.3	0.3
RB 7013	70	100	13	77	92	19.4	27.7	0.35
RB 8016	80	120	16	88	110	30.1	42.1	0.7
RB 9016	90	130	16	98	118	31.4	45.3	0.75
RB 10016	100	140	16	109	129	31.7	48.6	0.83
RB 10020	100	150	20	113	133	33.1	50.9	1.45
RB 11012	110	135	12	117	128	12.5	24.1	0.4
RB 11015	110	145	15	119	136	23.7	41.5	0.75
RB 11020	110	160	20	120	143	34	54	1.56
RB 12016	120	150	16	127	141	24.2	43.2	0.72
RB 12025	120	180	25	133	164	66.9	100	2.62
RB 13015	130	160	15	137	152	25	46.7	0.72
RB 13025	130	190	25	143	174	69.5	107	2.82
RB 14016	140	175	16	147	162	25.9	50.1	1
RB 14025	140	200	25	154	185	74.8	121	2.96
RB 15013	150	180	13	157	172	27	53.5	0.68
RB 15025	150	210	25	164	194	76.8	128	3.16
RB 15030	150	230	30	169	211	100	156	5.3
RB 16025	160	220	25	173	204	81.7	135	3.14

RB Crossed Roller Bearing - Integrated inner ring and split outer ring(36 ~1500mm OD)



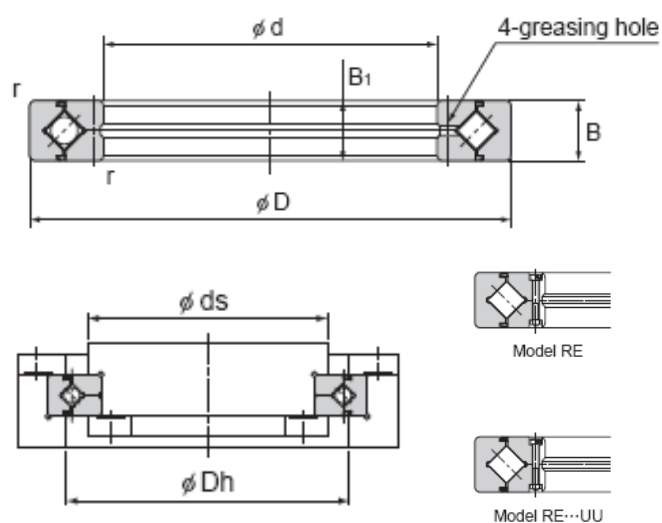
Part No.	Dimension (mm)			Shoulder Height		Load Rating		Mass (kg)
	d	D	B	ds(max)	Dh(min)	Cr (kN)	Cor (kN)	
RB 17020	170	220	20	184	198	29	62.1	2.21
RB 18025	180	240	25	195	225	84	143	3.44
RB 19025	190	240	25	202	222	41.7	82.9	2.99
RB 20025	200	260	25	215	245	84.2	157	4
RB 20030	200	280	30	221	258	114	200	6.7
RB 20035	200	295	35	225	270	151	252	9.6
RB 22025	220	280	25	135	265	92.3	171	4.1
RB 24025	240	300	25	256	281	68.3	145	4.5
RB 25025	250	310	25	265	290	69.3	150	5
RB 25030	250	330	30	269	306	126	244	8.1
RB 25040	250	355	40	275	326	195	348	14.8
RB 30025	300	360	25	315	340	76.3	178	5.9
RB 30035	300	395	35	322	368	183	367	13.4
RB 30040	300	405	40	326	377	212	409	17.2
RB 35020	350	400	20	363	383	54.1	143	3.9
RB 40035	400	480	35	422	459	156	370	14.5
RB 40040	400	510	40	428	479	241	531	23.5
RB 45025	450	500	25	464	484	61.7	182	6.6
RB 50025	500	550	25	514	534	65.5	201	7.3
RB 50040	500	600	40	526	572	239	607	26
RB 50050	500	625	50	536	587	267	653	41.7
RB 60040	600	700	40	627	673	264	721	29
RB 70045	700	815	45	731	777	281	836	46
RB 80070	800	950	70	836	900	468	1330	105
RB 90070	900	1050	70	937	1001	494	1490	120
RB 1000110	1000	1250	110	1057	1171	1220	3220	360
RB 1250110	1250	1500	110	1308	1423	1350	3970	440

RE Crossed Roller Bearing - Split inner ring and integrated outer ring(36 ~700mm OD)



Part No.	Dimension (mm)			Shoulder Height		Load Rating		Mass (kg)
	d	D	B	ds(max)	Dh(min)	Cr (kN)	Cor (kN)	
RE2008	20	36	8	24.5	32.5	3.23	3.1	0.04
RE2508	25	41	8	29.5	37.5	3.63	3.83	0.05
RE3010	30	55	10	37.5	48.5	7.35	8.36	0.12
RE3510	35	60	10	42.5	53.5	7.64	9.12	0.13
RE4010	40	65	10	47.5	58.5	8.33	10.6	0.16
RE4510	45	70	10	52.5	63.5	8.62	11.3	0.17
RE5013	50	80	13	57.5	73	16.7	20.9	0.27
RE6013	60	90	13	68	83	18	24.3	0.3
RE7013	70	100	13	78	93	19.4	27.7	0.35
RE8016	80	120	16	91	111	30.1	42.1	0.7
RE9016	90	130	16	100	122	31.4	45.3	0.75
RE10016	100	140	16	109	131	31.7	48.6	0.83
RE10020	100	150	20	115	137	33.1	50.9	1.45
RE11012	110	135	12	117	128	12.5	24.1	0.4
RE11015	110	145	15	122	136	23.7	41.5	0.75
RE11020	110	160	20	125	147	34	54	1.56
RE12016	120	150	16	127	143	24.2	43.2	0.72
RE12025	120	180	25	135	166	66.9	100	2.62
RE13015	130	160	15	137	153	25	46.7	0.72
RE13025	130	190	25	145	176	69.5	107	2.82
RE14016	140	175	16	147	162	25.9	50.1	1
RE14025	140	200	25	154	185	74.8	121	2.96
RE15013	150	180	13	158	172	27	53.5	0.68
RE15025	150	210	25	164	194	76.8	128	3.16

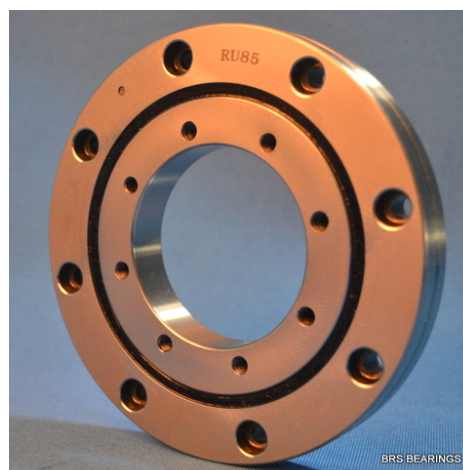
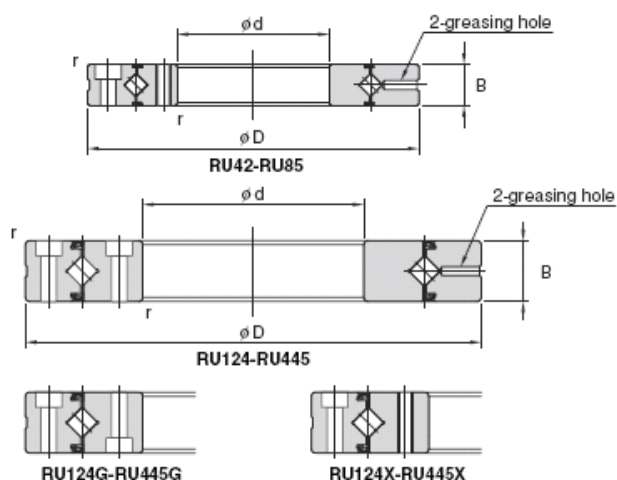
RE Crossed Roller Bearing - Split inner ring and integrated outer ring(36 ~700mm OD)



Part No.	Dimension (mm)			Shoulder Height		Load Rating		Mass (kg)
	d	D	B	ds(max)	Dh(min)	Cr (kN)	Cor (kN)	
RE15030	150	230	30	173	210	100	156	5.3
RE16025	160	220	25	173	204	81.7	135	3.14
RE17020	170	220	20	184	198	29	62.1	2.21
RE18025	180	240	25	195	225	84	143	3.44
RE19025	190	240	25	202	222	41.7	82.9	2.99
RE20025	200	260	25	215	245	84.2	157	4
RE20030	200	280	30	221	258	114	200	6.7
RE20035	200	295	35	225	270	151	252	9.6
RE22025	220	280	25	235	265	92.3	171	4.1
RE24025	240	300	25	256	281	68.3	145	4.5
RE25025	250	310	25	268	293	69.3	150	5
RE25030	250	330	30	269	306	126	244	8.1
RE25040	250	355	40	275	326	195	348	14.8
RE30025	300	360	25	319	344	75.5	178	5.9
RE30035	300	395	35	322	368	183	367	13.4
RE30040	300	405	40	326	377	212	409	17.2
RE35020	350	400	20	363	383	54.1	143	3.9
RE40035	400	480	35	422	459	156	370	14.5
RE40040	400	510	40	428	479	241	531	23.5
RE45025	450	500	25	464	484	61.7	182	6.6
RE50025	500	550	25	514	534	65.5	201	7.3
RE50040	500	600	40	526	572	239	607	26
RE50050	500	625	50	536	587	267	653	41.7
RE60040	600	700	40	627	673	264	721	29

* RE...UU is two sides sealed type

RU Crossed Roller Bearing - Integrated inner/outer ring(70 ~540mm OD)



Part No.	Dimension (mm)					Load Rating		Mass	
	d	D	B	Roller pitch	Greasing	r _{min}	Cr	Cor	
				circle	hole				
				diameter					
				dp	d1		kN	kN	kg
RU42	20	70	12	41.5	57	0.6	7.35	8.35	0.29
RU66	35	95	15	45	83	0.6	17.5	22.3	0.62
RU85	55	120	15	65	105	0.6	20.3	29.5	1
RU124(G)	80	165	22	97	148	1	33.1	50.9	2.6
RU124X	80	165	22	97	148	1	33.1	50.9	2.6
RU148(G)	90	210	25	112	187	1.5	49.1	76.8	4.9
RU148X	90	210	25	112	187	1.5	49.1	76.8	4.9
RU178(G)	115	240	28	139	217	1.5	80.3	135	6.8
RU178X	115	240	28	139	217	1.5	80.3	135	6.8
RU228(G)	160	295	35	184	270	2	104	173	11.4
RU228X	160	295	35	184	270	2	104	173	11.4
RU297(G)	210	380	40	240	350	2.5	156	281	21.3
RU297X	210	380	40	240	350	2.5	156	281	21.3
RU445(G)	350	540	45	385	505	2.5	222	473	35.4
RU445X	350	540	45	385	505	2.5	222	473	35.4

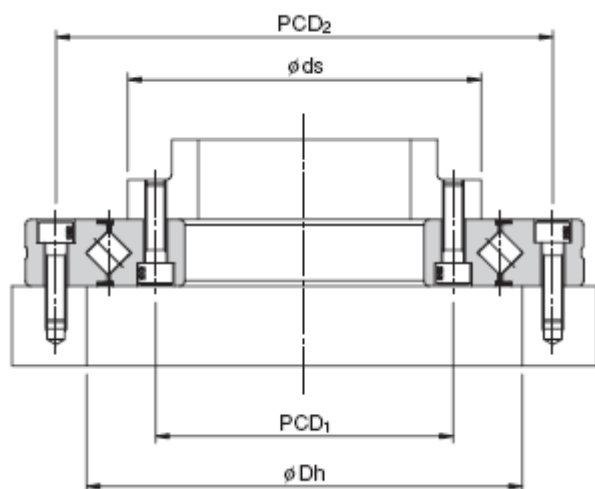
* RU42-RU85 with female threaded mounting holes on the inner ring

* RU124(G) - RU445(G) with counter-bored mounting holes on both inner ring and outer ring in the Opposite direction

* RU124 - RU445 with counter-bored mounting holes on both inner ring and outer ring in the same direction

* RU124X - RU445X with counter-bored mounting holes on outer ring and threaded mounting holes on the inner ring

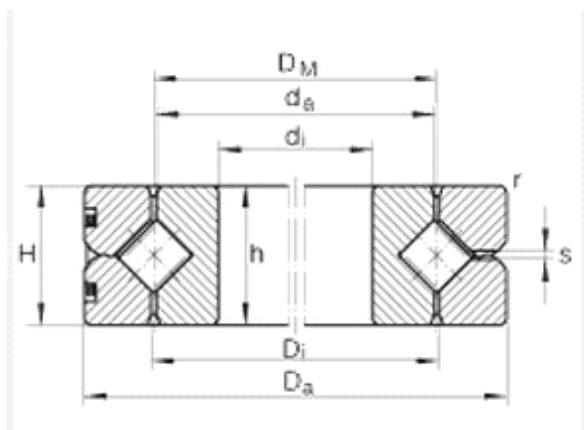
RU Crossed Roller Bearing - Integrated inner/outer ring(70 ~540mm OD)



Part No.	Shoulder Height		Inner Ring		Outer Ring	
	ds	Dh	PCD1	Mounting hole	PCD2	Mounting hole
RU42	37	47	28	6-M3 through	57	6-φ3.4 drilled through, φ6.5 counter bore depth 3.3
RU66	59	74	45	8-M4 through	83	8-φ4.5 drilled through, φ8 counter bore depth 4.4
RU85	79	93	65	8-M5 through	105	8-φ5.5 drilled through, φ9.5 counter bore depth 5.4
RU124(G)	114	134	97	10-φ5.5 drilled through, φ9.5 counter bore depth 5.4	148	10-φ5.5 drilled through, φ9.5 counter bore dept 5.4
RU124X				10-M5 through		
RU148(G)	133	162	112	12-φ9 drilled through, φ14 counter bore depth 8.6	187	12-φ9 drilled through, φ14 counter bore depth 8.6
RU148X				12-M8 through		
RU178(G)	161	195	139	12-φ9 drilled through, φ14 counter bore depth 8.6	217	12-φ9 drilled through, φ14 counter bore depth 8.6
RU178X				12-M8 through		
RU228(G)	208	246	184	12-φ11 drilled through, φ17.5 counter bore depth 10.8	270	12-φ11 drilled through, φ17.5 counter bore depth 10.8
RU228X				12-M10 through		
RU297(G)	272	320	240	16-φ14 drilled through, φ20 counter bore depth 13	350	16-φ14 drilled through, φ20 counter bore depth 13
RU297X				16-M12 through		
RU445(G)	417	473	385	24-φ14 drilled through, φ20 counter bore depth 13	505	24-φ14 drilled through, φ20 counter bore depth 13
RU445X				24-M12 through		

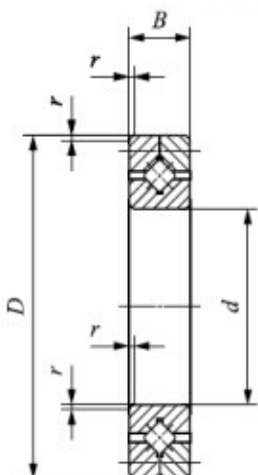
* RU...UU is two sides sealed type

SX0118 Crossed Roller Bearing - Integrated inner ring, split outer ring(90 ~620mm OD)



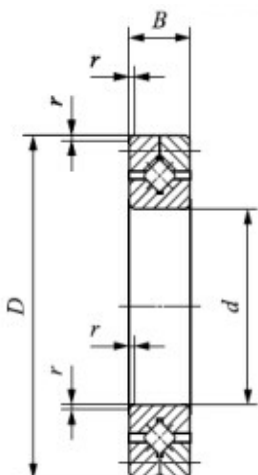
Model	di (mm)	Da (mm)	H (mm)	rmin (mm)	Ca (kN)	Coa (kN)	Cr (kN)	Cor (kN)	Mass (kg)
SX011814	70	90	10	0.6	15.4	51	11	20.4	0.3
SX011818	90	115	13	1	25.5	91	18.3	36.5	0.4
SX011820	100	125	13	1	27	102	19.4	40.5	0.5
SX011824	120	150	16	1	38	146	27	59	0.8
SX011828	140	175	18	1.1	63	240	45	96	1.1
SX011832	160	200	20	1.1	68	275	48.5	111	1.7
SX011836	180	225	22	1.1	96	380	69	153	2.3
SX011840	200	250	24	1.5	102	425	72	170	3.1
SX011848	240	300	28	2	148	640	105	255	5.3
SX011860	300	380	38	2.1	243	1070	173	425	12
SX011868	340	420	38	2.1	260	1220	185	485	13.5
SX011880	400	500	46	2.1	385	1800	275	720	24
SX0118/500	500	620	56	3	560	2750	395	1100	44

MMXC Crossed Roller Bearing - Integrated inner ring, split outer ring (55 ~720mm OD)

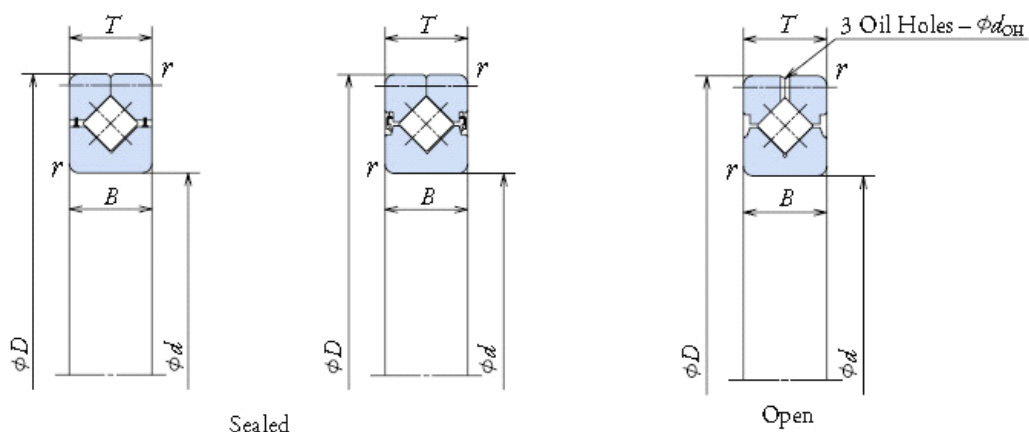


PART NO.	d (mm)	D (mm)	B (mm)	Load Rating		Limiting speed min-1	Mass (kg)
				C (kN)	Co (kN)		
MMXC1006	30	55	13	11	12	6700	0.16
MMXC1007	35	62	14	11.7	12.7	6300	0.21
MMXC1908	40	62	12	8.25	9.8	5600	0.15
MMXC1008	40	68	15	12.1	14	5600	0.26
MMXC1909	45	68	12	8.42	10.6	5300	0.18
MMXC1009	45	75	16	17.6	20.8	4800	0.33
MMXC1910	50	72	12	8.8	11.4	4800	0.18
MMXC1010	50	80	16	18.7	22.8	4500	0.36
MMXC1911	55	80	13	13.8	18	4300	0.25
MMXC1011	55	90	18	23.8	29	4000	0.52
MMXC1912	60	85	13	14.2	19	4000	0.27
MMXC1012	60	95	18	24.6	31.5	3800	0.56
MMXC1913	65	90	13	14.5	20.4	3800	0.28
MMXC1013	65	100	18	25.5	34	3600	0.59
MMXC1914	70	100	16	20.5	28.5	3400	0.46
MMXC1014	70	110	20	34.1	45	3200	0.82
MMXC1915	75	105	16	21.2	30.5	3200	0.49
MMXC1015	75	115	20	35.2	49	3000	0.87
MMXC1916	80	110	16	22	32.5	3000	0.52
MMXC1016	80	125	22	36.9	52	2800	1.15
MMXC1918	90	125	18	29.7	44	2800	0.77
MMXC1018	90	140	24	51.2	71	2600	1.6
MMXC1920	100	140	20	39.1	58.5	2400	1.1

MMXC Crossed Roller Bearing - Integrated inner ring, split outer ring (55 ~720mm OD)



PART NO.	d (mm)	D (mm)	B (mm)	Load Rating		Limiting speed min-1	Mass (kg)
				C (kN)	Co (kN)		
MMXC1020	100	150	24	52.8	76.5	2000	1.7
MMXC1922	110	150	20	41.3	65.5	2200	1.2
MMXC1022	110	170	28	72.1	104	2000	2.7
MMXC1924	120	165	22	42.9	73.5	2000	1.6
MMXC1024	120	180	28	74.8	112	1900	2.9
MMXC1926	130	180	24	60.5	98	1800	2.15
MMXC1026	130	200	33	102	153	1700	4.4
MMXC1930	150	210	28	82.5	137	1600	3.45
MMXC1030	150	225	35	110	176	1500	5.7
MMXC1932	160	220	28	85.8	143	1500	3.65
MMXC1032	160	240	38	138	216	1400	7
MMXC1936	180	250	33	114	196	1300	5.7
MMXC1036	180	280	46	201	320	1200	12
MMXC1940	200	280	38	151	260	1200	8.35
MMXC1040	200	310	51	216	365	1100	16.5
MMXC1952	260	360	46	233	430	900	16.5
MMXC1052	260	400	65	429	720	800	34.5
MMXC1960	300	420	56	319	600	750	28
MMXC1060	300	460	74	501	880	700	52
MMXC1980	400	540	65	523	1020	560	49
MMXC1080	400	600	90	693	1340	500	105
MMXC19/500	500	670	78	693	1460	430	89
MMXC10/500	500	720	100	897	1830	400	156

NRXT Crossed Roller Bearing - Integrated inner ring, split outer ring (41 ~700mm OD)

Part No.		Dimension (mm)				Load Rating (kN)		Weight
Sealed Type	Open Type	d	D	B	r(min)	C_r	C_{0r}	Kg
NRXT2508DD	NRXT2508E	25	41	8	0.6	4	4.4	0.05
NRXT4010DD	NRXT4010E	40	65	10	0.6	7.7	9.85	0.14
NRXT5013DD	NRXT5013E	50	80	13	0.6	16.4	20.9	0.26
NRXT6013DD	NRXT6013E	60	90	13	0.6	17.9	24.6	0.30
NRXT7013DD	NRXT7013E	70	100	13	0.6	19.3	28.4	0.34
NRXT8013DD	NRXT8013E	80	110	13	0.6	20.5	32	0.38
NRXT8016DD	NRXT8016E	80	120	16	0.6	29.8	42.5	0.67
NRXT9016DD	NRXT9016E	90	130	16	1	31	46	0.74
NRXT9020DD	NRXT9020E	90	140	20	1	32	49	1.27
NRXT10020DD	NRXT10020E	100	150	20	1	33	52.5	1.37
NRXT11020DD	NRXT11020E	110	160	20	1	35	59	1.49
NRXT12020DD	NRXT12020E	120	170	20	1.1	36	62	1.60
NRXT12025DD	NRXT12025E	120	180	25	1.1	70	110	2.47
NRXT13025DD	NRXT13025E	130	190	25	1.1	72.5	118	2.63
NRXT14025DD	NRXT14025E	140	200	25	1.1	75	125	2.80
NRXT15025DD	NRXT15025E	150	210	25	1.1	77	133	2.96
NRXT15030DD	NRXT15030E	150	230	30	1.1	119	192	5.55
NRXT20025DD	NRXT20025E	200	260	25	1.5	172	9	3.75
NRXT20030DD	NRXT20030E	200	280	30	1.5	247	13.8	6.30
NRXT25025DD	NRXT25025E	250	310	25	2	211	10	4.55
NRXT25030DD	NRXT25030E	250	330	30	2	300	15.3	7.65
NRXT30025DD	NRXT30025E	300	360	25	2.1	250	10.9	5.30
NRXT30035DD	NRXT30035E	300	395	35	2.1	405	19.7	12.60
NRXT30040DD	NRXT30040E	300	405	40	2.1	425	20.3	16.50
NRXT40035DD	NRXT40035E	400	480	35	2.1	465	19.2	13.40
NRXT40040DD	NRXT40040E	400	510	40	2.1	545	23.1	22.50
NRXT50040DD	NRXT50040E	500	600	40	2.1	625	24.4	24.40
NRXT50050DD	NRXT50050E	500	625	50	3	810	33	39.50
NRXT60040DD	NRXT60040E	600	700	40	3	745	26.6	28.90

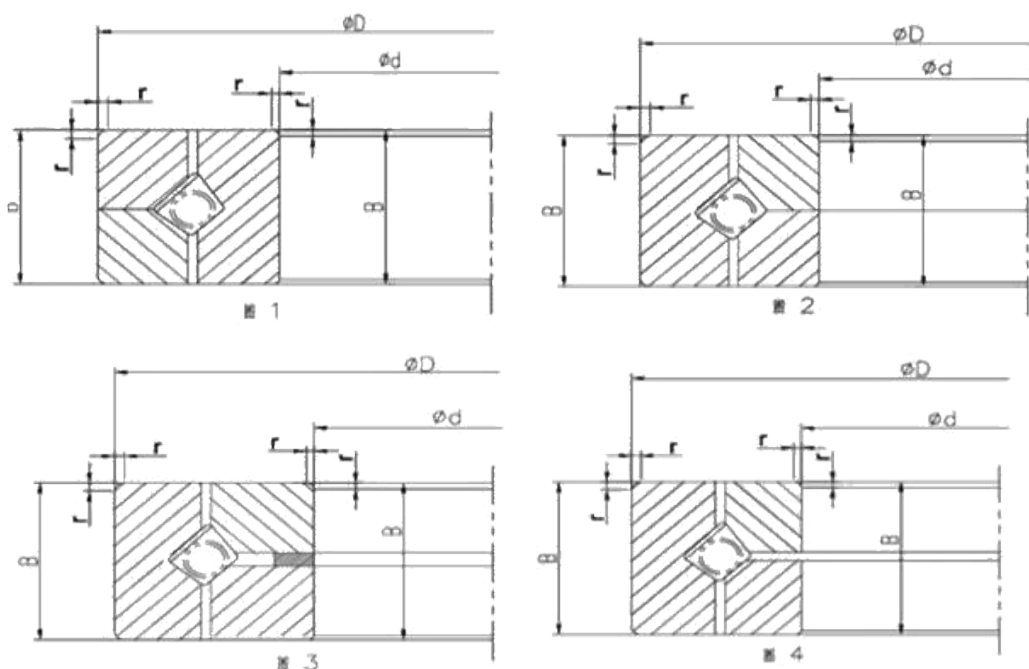
XR/JXR Crossed Tapered Roller Bearing - Integrated inner ring, split outer ring (41 ~700mm OD)


Figure No.	Dimensions(mm)				Mass kg	The corresponding code			
	d	D	B	r		Timken	SKF	NACHI	URB
4	150	230	30	1	4.9		BFKB353243/HA4		
4	160	240	30	1.1	5.15		BFKB353240/HA4		
4	200	280	30	1.5	6.7			200XRN28	
4	203.2	279	31.75	1.5	5.59	XR496051	616093A		
1	203.2	279	31.75	1.5	5.59	XR496052			
4	240	300	30	1	5.4		BFKB353203/HA4		
4	250	310	25	1	4.5		BFKB353212/HA4		
4	250	350	40	1.3	13		BFKB353215/HA4	250XRN35	
4	300	400	36.492	1.5	12.5	JXR637050			
4	300	400	37	1.5	12.5	XR637050	616094A	300XRN50	
3	300	480	60	1.5	38	JXR678054			
4	310	425	45	2.5	19.5	JXR652050	BFKB634097		
4	330	457	63.5	3.3	32	XR678052	615661A		
4	350	470	50	3.3	27		BFKB353216/HA4	350XRN47	
4	370	495	50	3.3	30	JXR699050			
4	400	480	40	1.1	15		BFKB353224/HA4		
4	400	550	60	2.5	46.5		BFKB353219/HA4	400XRN55	
1	432.03	571.5	38.1	3.3	27.5	XR736052			
4	457.2	609.6	63.5	3.3	51	XR766051	615894A	0457XRN060	XD.10.0457P5
4	424.95	614.924	65		62	XR766052			
4	580	760	80	3.3	100	XR820060	615662A	580XRN76	XD.10.0580P5
1	580	760	80	6.4	100	XR820061			
4	600	830	80	6.4	148	XR836050		600XRN83	
2	685.8	914.4	79.375	6.4	150	XRA844050			

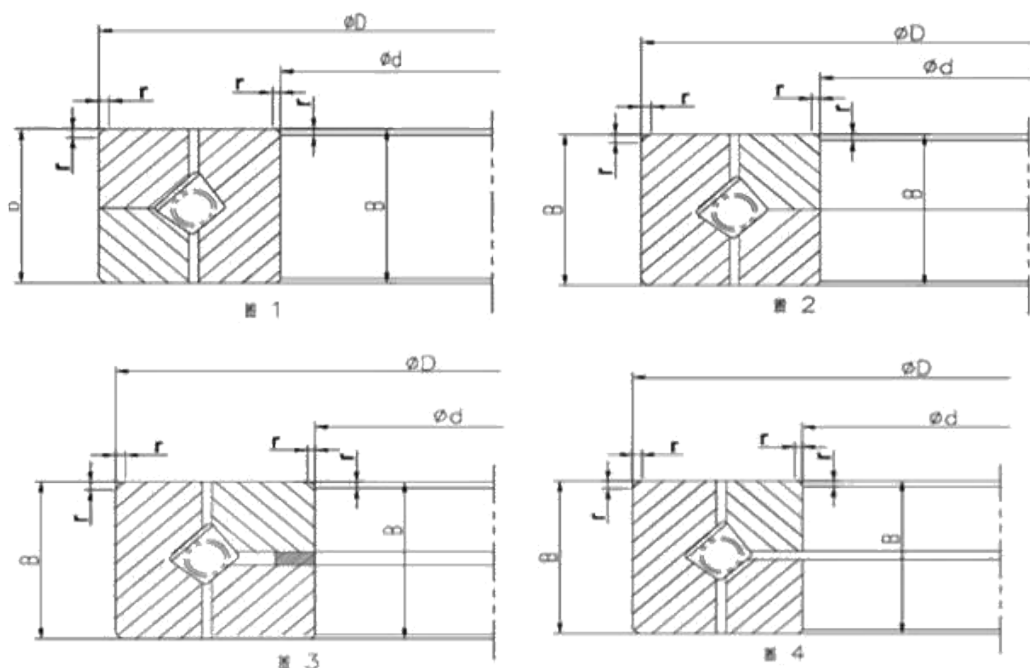
XR/JXR Crossed Tapered Roller Bearing - Integrated inner ring, split outer ring (41 ~700mm OD)

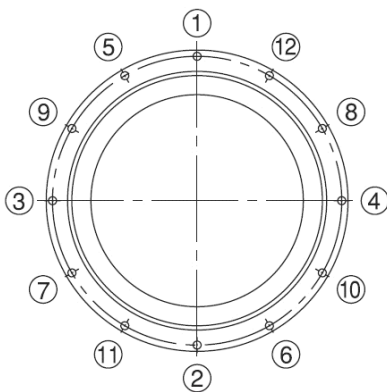
Figure No.	Dimensions(mm)				Mass kg	The corresponding code			
	d	D	B	r		Timken	SKF	NACHI	URB
4	685.8	914.4	79.375	3.3	150	XR855053	615659A	0685XRN091	XD.10.0686P5
1	685.8	914.4	79.375		150	XR855056			
1	901.7	1117.6	82.555	3.3	185	XR882054			
4	901.7	1117.6	82.555	3.3	185	XR882055	615895A	0901XRN112	XD.10.0902P5
2	939.8	1117.6	82.55	3.3	158	XR882058			
4	950	1170	85	3	215		BFKB353251/HA4		
4	1028.7	1327.15	114.3	3.3	430	XR889058	BFKB353282/HA4	1028XRN132	XD.10.1029P5
1	1028.7	1327.15	95.25	3.3	358	XR889059			
3	1028.7	1327.15	114.3	3.3	430	XR889060			
4	1270	1524	95.25	1.8	350		615897A		
4	1549.4	1828.8	101.6	3.3	500	XR897051	615898A		XD.10.1549P5
4	1879.6	2197.1	101.6	5.4	675	XR903054	615899A		XD.10.1880P5
4	2463.8	2819.4	114.3	5.4	1130		634078A		

Lubrication

Bearings have been filled with complex lithium grease before delivery, so they can be immediately put into application under normal working conditions, without extra lubrication during operating. At the initial stage of running, bearings' friction torque will increase temporarily, and will become stable along with running, after grease evenly coated the raceway and rollers.

Installation Steps

1. Before installation, please clean bearing bracket, shaft, or other components, make sure there is no burrs or rough edge.
2. Place the bearing into the bearing bracket and main shaft, to match the design clearance, keep the bearing horizontal and insert the bearing into the bearing bracket or shaft. If it is hard to install, use a rubber hammer to slightly hit every part of the bearing, so that the bearing can be inserted into the bearing bracket or shaft easily. Pay close attention to the hitting force as the bearing could be damaged if the force is too large. Afterwards, the matching status of bearing and basic face can be examined by checking the noise.
3. Install the mounting disc: Place the mounting disc onto the bearing and align the screw holes. Screw all the bolts in the holes first and follow the order as shown in below diagram when tightening bolts in diagonally opposite sequence. Do not tighten bolts randomly.



Cautions

- ◆ Bearings have been adjusted to preload and filled with lubricant before delivery, users shall not disassemble or attempt to clean bearings before installation. Please contact our after-sales staff for any problem during installation or application.
- ◆ Normal operating temperature of the bearing is $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$, please contact our technicians if it's over this temperature range.

- ◆ Bearing components material can choose aluminium alloy or cast iron.
- ◆ If you can not find suitable dimensions in the form, please contact our technicians, we can produce customized type.