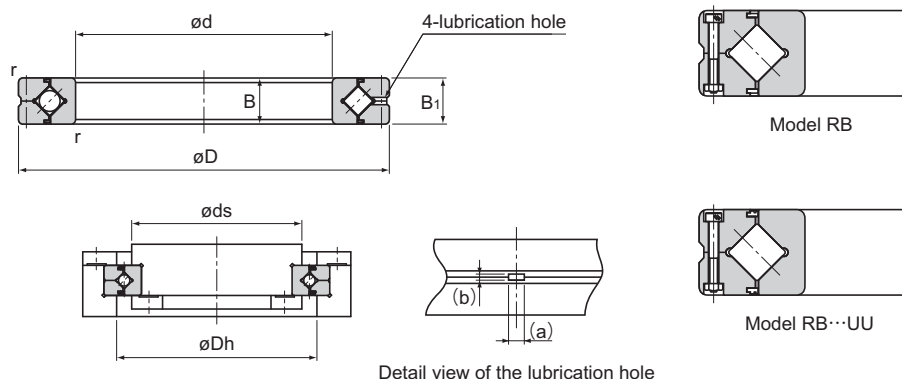


Model RB (Separable Outer Ring Type)



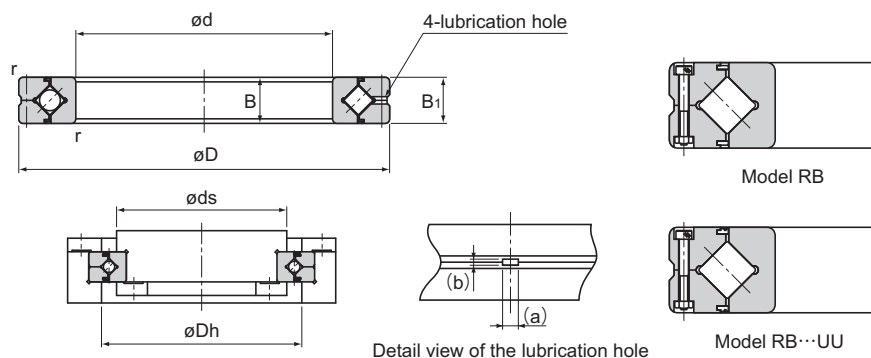
Unit: mm

Shaft diameter	Model No.	Main dimensions							Shoulder height		Basic load rating (radial)		Mass
		Inner diameter	Outer diameter	Roller pitch circle diameter	Width	Lubrication hole		r_{min}	ds (max)	Dh (min)	C kN	C_0 kN	kg
		d	D	dp	B B_1	a	b						
20	RB 2008	20	36	27	8	2	0.8	0.5	23.5	30.5	3.23	3.1	0.04
25	RB 2508	25	41	32	8	2	0.8	0.5	28.5	35.5	3.63	3.83	0.05
30	RB 3010	30	55	41.5	10	2.5	1	0.6	37	47	7.35	8.36	0.12
35	RB 3510	35	60	46.5	10	2.5	1	0.6	41	51.5	7.64	9.12	0.13
40	RB 4010	40	65	51.5	10	2.5	1	0.6	46.5	57.5	8.33	10.6	0.16
45	RB 4510	45	70	56.5	10	2.5	1	0.6	51	61.5	8.62	11.3	0.17
50	RB 5013	50	80	64	13	2.5	1.6	0.6	57	72	16.7	20.9	0.27
60	RB 6013	60	90	74	13	2.5	1.6	0.6	67	82	18	24.3	0.3
70	RB 7013	70	100	84	13	2.5	1.6	0.6	77	92	19.4	27.7	0.35
80	RB 8016	80	120	98	16	3	1.6	0.6	88	110	30.1	42.1	0.7
90	RB 9016	90	130	108	16	3	1.6	1	98	118	31.4	45.3	0.75
100	RB 10016	100	140	119.3	16	3.5	1.6	1	109	129	31.7	48.6	0.83
	RB 10020		150	123	20	3.5	1.6	1	113	133	33.1	50.9	1.45
110	RB 11012	110	135	121.8	12	2.5	1	0.6	117	128	12.5	24.1	0.4
	RB 11015		145	126.5	15	3.5	1.6	0.6	119	136	23.7	41.5	0.75
	RB 11020		160	133	20	3.5	1.6	1	120	143	34	54	1.56
120	RB 12016	120	150	134.2	16	3.5	1.6	0.6	127	141	24.2	43.2	0.72
	RB 12025		180	148.7	25	3.5	2	1.5	133	164	66.9	100	2.62
	RB 13015	130	160	144.5	15	3.5	1.6	0.6	137	152	25	46.7	0.72
130	RB 13025		190	158	25	3.5	2	1.5	143	174	69.5	107	2.82

Notes: The model number of a type with seals attached is RB...UU.

If a certain level of accuracy is required, this model is used for inner ring rotation.

(a) and (b) dimensions of the lubrication hole in the detailed diagram are reference values.



Detail view of the lubrication hole

Unit: mm

Shaft diameter	Model No.	Main dimensions							Shoulder height		Basic load rating (radial)		Mass
		Inner diameter	Outer diameter	Roller pitch circle diameter	Width	Lubrication hole		r_{min}	ds (max)	Dh (min)	C	C_0	kg
		d	D	dp	B B ₁	a	b						
140	RB 14016	140	175	154.8	16	2.5	1.6	1	147	162	25.9	50.1	1
	RB 14025		200	168	25	3.5	2	1.5	154	185	74.8	121	2.96
150	RB 15013	150	180	164	13	2.5	1.6	0.6	157	172	27	53.5	0.68
	RB 15025		210	178	25	3.5	2	1.5	164	194	76.8	128	3.16
	RB 15030		230	188	30	4.5	3	1.5	169	211	100	156	5.3
160	RB 16025	160	220	188.6	25	3.5	2	1.5	173	204	81.7	135	3.14
170	RB 17020	170	220	191	20	3.5	1.6	1.5	184	198	29	62.1	2.21
180	RB 18025	180	240	210	25	3.5	2	1.5	195	225	84	143	3.44
190	RB 19025	190	240	211.9	25	3.5	1.6	1	202	222	41.7	82.9	2.99
	RB 20025		260	230	25	3.5	2	2	215	245	84.2	157	4
200	RB 20030	200	280	240	30	4.5	3	2	221	258	114	200	6.7
	RB 20035		295	247.7	35	5	3	2	225	270	151	252	9.6
220	RB 22025	220	280	250.1	25	3.5	2	2	235	265	92.3	171	4.1
240	RB 24025	240	300	269	25	3.5	2	2.5	256	281	68.3	145	4.5
250	RB 25025	250	310	277.5	25	3.5	2	2.5	265	290	69.3	150	5
	RB 25030		330	287.5	30	4.5	3	2.5	269	306	126	244	8.1
	RB 25040		355	300.7	40	6	3.5	2.5	275	326	195	348	14.8
300	RB 30025	300	360	328	25	3.5	2	2.5	315	340	76.3	178	5.9
	RB 30035		395	345	35	5	3	2.5	322	368	183	367	13.4
	RB 30040		405	351.6	40	6	3.5	2.5	326	377	212	409	17.2
350	RB 35020	350	400	373.4	20	3.5	1.6	2.5	363	383	54.1	143	3.9

Notes: The model number of a type with seals attached is RB...UU.

If a certain level of accuracy is required, this model is used for inner ring rotation.

(a) and (b) dimensions of the lubrication hole in the detailed diagram are reference values.

Model number coding

RB3010 UU CC0 P5

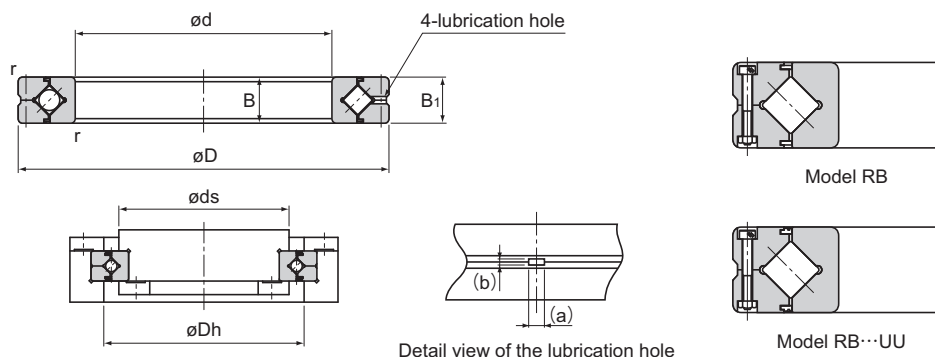
Model number

Accuracy symbol²Radial clearance symbol¹

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

¹ See **A18-18**. ² See **A18-13**.

Model RB (Separable Outer Ring Type)



Detail view of the lubrication hole

Unit: mm

Shaft diameter	Model No.	Main dimensions							Shoulder height		Basic load rating (radial)		Mass
		Inner diameter	Outer diameter	Roller pitch circle diameter	Width	Lubrication hole		r_{min}	ds (max)	Dh (min)	C	C_0	
		d	D	d_p	B B_1	a	b				kN	kN	kg
400	RB 40035	400	480	440.3	35	5	3	2.5	422	459	156	370	14.5
	RB 40040		510	453.4	40	6	3.5	2.5	428	479	241	531	23.5
450	RB 45025	450	500	474	25	3.5	1.6	1	464	484	61.7	182	6.6
	RB 50025		550	524.2	25	3.5	1.6	1	514	534	65.5	201	7.3
500	RB 50040	500	600	548.8	40	6	3	2.5	526	572	239	607	26
	RB 50050		625	561.6	50	6	3.5	2.5	536	587	267	653	41.7
600	RB 60040	600	700	650	40	6	3	3	627	673	264	721	29
700	RB 70045	700	815	753.5	45	6	3	3	731	777	281	836	46
800	RB 80070	800	950	868.1	70	6	4	4	836	900	468	1,330	105
900	RB 90070	900	1,050	969	70	6	4	4	937	1,001	494	1,490	120
1,000	RB 1000110	1,000	1,250	1,114	110	6	6	5	1,057	1,171	1,220	3,220	360
1,250	RB 1250110	1,250	1,500	1,365.8	110	6	6	5	1,308	1,423	1,350	3,970	440

Notes: The model number of a type with seals attached is RB...UU.

If a certain level of accuracy is required, this model is used for inner ring rotation.

(a) and (b) dimensions of the lubrication hole in the detailed diagram are reference values.

Model number coding

RB40040 **UU** **C0** **PE5**

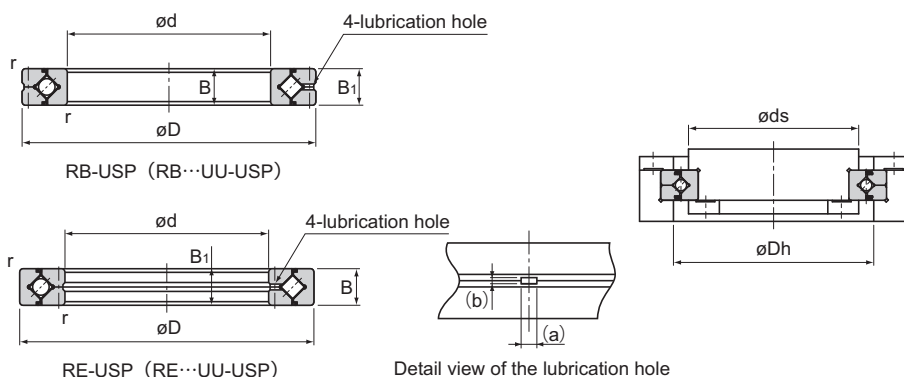
Model number

Accuracy symbol²Radial clearance symbol¹

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

¹ See **A18-18**. ² See **A18-13**.

USP-Grade Models RB and RE



Unit: mm

Model No.	Main dimensions							Shoulder height			Basic load rating (radial)		Mass
	Inner diameter	Outer diameter	Roller pitch circle diameter dp		Width	Lubrication hole		r _{min}	ds (max)	Dh (min)	C	C ₀	
			RB	RE		B B ₁	a						
					d								
RB 10020USP RE 10020USP	100	150	123	127	20	3.5	1.6	1	113	133	33.1	50.9	1.45
RB 12025USP RE 12025USP	120	180	148.7	152	25	3.5	2	1.5	133	164	66.9	100	2.62
RB 15025USP RE 15025USP	150	210	178	182	25				164	194	76.8	128	3.16
RB 20030USP RE 20030USP	200	280	240	240	30	4.5	3	2	221	258	114	200	6.7
RB 25030USP RE 25030USP	250	330	287.5	287.5	30				269	306	126	244	8.1
RB 30035USP RE 30035USP	300	395	345	345	35	5	3	2.5	322	368	183	367	13.4
RB 40040USP RE 40040USP	400	510	453.4	453.4	40	6	3.5		428	479	241	531	23.5
RB 50040USP RE 50040USP	500	600	548.8	548.8	40	6	3	3	526	572	239	607	26
RB 60040USP RE 60040USP	600	700	650	650	40				627	673	264	721	29

Notes: The model number of a type with seals attached is RB...UU-USP or RE...UU-USP.

If a certain level of rotational accuracy is required for the inner ring, select Model RB; if a certain level of rotational accuracy is required for the outer ring, select Model RE.

(a) and (b) dimensions of the lubrication hole in the detailed diagram are reference values.

Model number coding

RB50040 UU CC0 USP

Model number

Accuracy symbol (Ultra precision grade)

Radial clearance symbol¹

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

¹ See **A18-18**.