

Angular Contact Ball Bearings

Single, Double Row Combination (Standard Grade)

Angular Contact Ball Bearings
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RoHS10

Single Row
B700_
B720_

Double Row Combination
B700_-DB
B720_-DB

Double Row Combination
B700_-DF
B720_-DF

(Installation Diagram)

*Contact Angle 30°

Material: S2100 Bearing Steel Bearing Accuracy: JISB1514 Class 0

Shipped with no grease applied. Please apply grease before use.

Part Number	d	D	B	r (min)	r1 (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Pressure Cone Apex a	Relative Dimensions			Mass (g) (Reference)	Unit Price
						Cr (Dynamic) kN	Cor (Static) kN			Ds (min.)	dh (max.)	R (max.)		
B7000	10	26	8	0.3	0.15	5.35	2.6	23200	9.2	12.5	23.5	0.3	23	
B7200	10	30	9	0.6	0.3	5.4	2.71	22400	10.3	15	25	0.6	29	
B7001	12	28	8	0.3	0.15	5.8	2.98	20800	9.8	14.5	25.5	0.3	25	
B7201	12	32	10	0.6	0.3	8	4.05	20000	11.4	17	27	0.6	37	
B7002	15	9	0.3	0.15	6.1	3.45	18400	11.3	17.5	29.5	0.3	35		
B7202	15	11	0.6	0.3	8.65	4.65	17600	12.7	20	30	0.6	46		
B7003	17	10	0.3	0.15	6.4	3.8	16800	12.5	19.5	32.5	0.3	46		
B7203	17	40	12	0.6	0.3	10.8	6	15200	14.2	22	35	0.6	67	
B7004	20	42	12	0.6	0.3	10.8	6.6	14400	14.9	25	37	0.6	80	
B7204	20	47	14	1	0.6	14.5	8.3	13600	16.7	26	41	1.0	109	
B7005	25	12	0.6	0.3	11.3	7.4	12800	16.4	30	42	0.6	93		
B7205	25	52	15	0.6	0.3	16.2	10.3	11200	18.6	31	46	0.6	130	
B7006	30	55	13	1	0.6	14.5	10.1	10400	18.8	36	49	1.0	135	
B7206	30	62	16	0.6	0.3	22.5	14.8	9600	21.3	36	56	0.6	197	
B7207	35	72	17	0.6	0.3	29.7	20.1	8000	23.9	42	65	0.6	287	
B7208	40	80	18	1.1	0.6	35.5	25.1	7600	26.3	47	73	1.0	375	
B7209	45	85	19	1.1	0.6	39.5	28.7	6800	28.3	52	78	1.0	411	
B7210	50	90	20	1.1	0.6	41.5	31.5	6320	30.2	57	83	1.0	466	

kgf=Nx0.101972

Part Number	d	D	B	r (min)	r1 (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Pressure Cone Apex a		Relative Dimensions						Mass (g) (Reference)	Unit Price	
						Cr (Dynamic) kN	Cor (Static) kN		DB	DF	Ds (min.)	dh (max.)	R (max.)	Ds (min.)	dh (max.)	R (max.)		DB (Back)	DF (Front)
B7000	10	26	8	0.3	0.15	8.75	5.2	18400	18.4	2.4	12.5	24.8	0.3	11.2	23.5	0.15	46		
B7200	10	30	9	0.6	0.3	8.8	5.4	17600	20.5	2.5	15	27.5	0.6	12.5	25	0.3	58		
B7001	12	28	8	0.3	0.15	9.4	5.95	16800	19.5	3.5	14.5	26.8	0.3	13.2	25.5	0.15	50		
B7201	12	32	10	0.6	0.3	13	8.05	16000	22.7	2.7	17	29.5	0.6	14.5	27	0.3	74		
B7002	15	9	0.3	0.15	9.95	6.85	14400	22.6	4.6	17.5	30.8	0.3	16.2	29.5	0.15	70			
B7202	15	11	0.6	0.3	14	9.3	13600	25.4	3.4	20	32.5	0.6	17.5	30	0.3	92			
B7003	17	10	0.3	0.15	10.4	7.65	13600	25	5	19.5	33.8	0.3	18.2	32.5	0.15	92			
B7203	17	40	12	0.6	0.3	17.6	12	12000	28.5	4.5	22	37.5	0.6	19.5	35	0.3	134		
B7004	20	42	12	0.6	0.3	17.6	13.2	12000	29.9	5.9	25	39.5	0.6	22.5	37	0.3	160		
B7204	20	47	14	1	0.6	23.5	16.6	10400	33.3	5.3	26	42	1	25	41	0.6	218		
B7005	25	12	0.6	0.3	18.3	14.8	9600	32.8	8.8	30	44.5	0.6	27.5	42	0.3	186			
B7205	25	52	15	0.6	0.3	26.3	20.5	8800	37.2	7.2	31	47	0.6	30	46	0.6	260		
B7006	30	55	13	1	0.6	23.6	20.2	8800	37.5	11.5	36	50	0.6	35	49	0.6	270		
B7206	30	62	16	0.6	0.3	36.5	29.5	7840	42.6	10.6	36	57	0.6	56	56	0.6	394		
B7207	35	72	17	0.6	0.3	48.5	40	6800	47.9	-	42	67	-	-	-	-	574		
B7208	40	80	18	1.1	0.6	57.5	50.5	6000	52.6	-	47	75	-	-	-	-	750		
B7209	45	85	19	1.1	0.6	64.5	57.5	5520	56.5	-	52	80	-	-	-	-	822		
B7210	50	90	20	1.1	0.6	67	63	5040	60.4	-	57	85	-	-	-	-	932		

kgf=Nx0.101972

Ordering Example: Part Number (Single Row) **B7000** - (Double Row Combination) **B7004** - **DB**

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Angular Contact Ball Bearings / Grease Seal Rings

Universal Combination (Precision Grade)

Angular Contact Ball Bearings
Universal Combination (Precision Grade)
RoHS10

B700_
SU

(Installation Diagram)

*Contact Angle 15°

Material: S2100 Bearing Steel Bearing Accuracy: JISB1514 Class 4

Shipped with no grease applied. Please apply grease before use.

Feature: The width differences of front and back side are controlled so that designated preload can be obtained no matter how the same model bearings are combined. Outer ring is marked with a V mark to help obtain correct combination.

DB Combination: Back side width difference x2-2b (-2b), and the designed preload is obtained.

DF Combination: Front side width difference x2-2f (-2f), and the designed preload is obtained.

DT Combination: Because of front side width difference f = back side difference b, DT clearance does not occur similar with the normal DT combination.

Part Number	d	D	B	r (min)	r1 (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Pressure Cone Apex a	Relative Dimensions			Mass (g) (Reference)	Unit Price
						Cr (Dynamic) kN	Cor (Static) kN			Ds (min.)	dh (max.)	R (max.)		
B7000SU	10	26	8	0.3	0.15	5.30	2.49	63900	6.4	12.5	23.5	0.3	19	
B7001SU	12	28	8	0.3	0.15	5.80	2.90	57500	6.7	14.5	25.5	0.3	21	
B7002SU	15	32	9	0.6	0.3	6.25	3.40	49000	7.6	17.5	29.5	0.6	30	
B7003SU	17	35	10	0.6	0.3	6.60	3.80	44300	8.5	19.5	32.5	0.6	39	
B7004SU	20	42	12	0.6	0.3	11.10	6.55	37100	10.1	25	37	0.6	67	
B7005SU	25	47	12	0.6	0.3	11.70	7.40	32000	10.8	30	42	0.6	78	
B7006SU	30	55	13	1.0	0.6	15.10	10.30	27100	12.2	36	49	1.0	114	
B7007SU	35	62	14	1.0	0.6	19.10	13.70	23800	13.5	41	56	1.0	151	
B7008SU	40	68	15	1.0	0.6	20.60	15.90	21300	14.7	46	62	1.0	189	
B7009SU	45	75	16	1.0	0.6	24.40	19.30	19200	16.0	51	69	1.0	238	
B7010SU	50	80	16	1.0	0.6	26.00	21.90	17700	16.7	56	74	1.0	259	

kgf=Nx0.101972

Ordering Example: Part Number **B7001SU**

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Sold in pieces.
When using multiple row combination, it is recommended to match I.D. and O.D.

Grease Seal Rings
RoHS10

GRSL

Material: 1018 Carbon Steel
Surface Treatment: Black Oxide

Example: GRSL704-42, GRSL704-35

Rings prevent grease splash but have no sealing ability.
The parallelism is guaranteed within the range of dimension H.
Recommended for use at 5000 rpm or less.

Part Number Type	No.	D	d	H	Applicable Angular Contact Bearings	Unit Price
GRSL	700	26	10	13	B7000	
	720	30	10	15	B7200	
	701	23	12	17	B7001	
	721	32	12	17	B7201	
	702	35	15	19	B7002	
	722	30	15	19	B7202	
	703	35	17	21	B7003	
	723	40	17	23	B7203	
	704	42	20	26	B7004	
	724	47	20	27	B7204	
705	47	25	31	B7005		
725	52	25	32	B7205		
706	55	30	37	B7006		
726	62	30	37	B7206		

Ordering Example: Part Number **GRSL720** - **D** **25**

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