

Angular Contact Ball Bearings

Single, Double Row Combination (Standard Grade)

Angular Contact Ball Bearings / Grease Seal Rings

Universal Combination (Precision Grade)

Angular Contact Ball Bearings

Single, Double Row Combination (Standard Grade)

RoHS10

Single Row

B7000□
B7200□

(Installation Diagram)

Double Row Combination

B7000□-DB
B7200□-DB

Double Row Combination

B7000□-DF
B7200□-DF

* Contact Angle 30°

Material: EN 1.3505 Equiv.

Bearing Accuracy: JIS B 1514 Class 0

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

Single Row														For details on the tolerance and allowable values of inner and outer rings, see P2243													
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	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	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	35	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	40	12	0.6	0.3	10.8	6	15200	14.2	22	35	0.6	67															
B7004	20	42	14	1	0.6	14.5	8.3	13600	16.7	26	41	1.0	109														
B7204	47	12	0.6	0.3	11.3	7.4	12800	16.4	30	42	0.6	93															
B7005	25	52	15	1	0.6	16.2	10.3	11200	18.6	31	46	1.0	130														
B7205	52	15	0.3	0.15	14.5	10.1	10400	18.8	36	49	0.6	135															
B7006	30	55	13	1	0.6	22.5	14.8	9600	21.3	36	56	1.0	197														
B7206	62	16	0.3	0.15	29.7	20.1	8000	23.9	42	65	0.6	287															
B7207	35	72	17	1	0.6	35.5	25.1	7600	26.3	47	73	1.0	375														
B7208	40	80	18	1	0.6	39.5	28.7	6800	28.3	52	78	1.0	411														
B7209	45	85	19	1	0.6	41.5	31.5	6320	30.2	57	83	1.0	466														
B7210	50	90	20	1	0.6																						

Double Row Combination														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							
Bearing No.	Double Row Combination						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	DB (Back) DF (Front)	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		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		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		35	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		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	14	1	0.6	17.6	13.2	12000	29.9	5.9	25	39.5	0.6	22.5	37	0.3	160							
B7204		47	12	0.6	0.3	23.5	16.6	10400	33.3	5.3	26	42	1	25	41	0.6	218								
B7005	DB (Back) DF (Front)	25	52	15	1	0.6	18.3	14.8	9600	32.8	8.8	30	44.5	0.6	27.5	42	0.3	186							
B7205		52	15	0.3	0.15	26.3	20.5	8800	37.2	7.2	31	47	30	46			260								
B7006		30	55	13	1	0.6	23.6	20.2	8800	37.5	11.5	36	50	35	49	0.6	270								
B7206		62	16	0.3	0.15	36.5	29.5	7840	42.6	10.6	36	57	56				394								
B7207		35	72	17	1	0.6	48.5	40	6800	47.9	-	42	67	-	-	-	574								
B7208		40	80	18	1	0.6	57.5	50.5	6000	52.6	-	47	75	-	-	-	750								
B7209		45	85	19	1	0.6	64.5	57.5	5520	56.5	-	52	80	-	-	-	822								
B7210		50	90	20	1	0.6	67	63	5040	60.4	-	57	85	-	-	-	932								

Ordering Example

Part Number - Double Row Combination

(Single Row) B7000

(Double Row Combination) B7004 - DB

Angular Contact Ball Bearings

Universal Combination (Precision Grade)

RoHS10

B7000□□SU

(Installation Diagram)

* Contact Angle 15°

Material: EN 1.3505 Equiv.
Bearing Accuracy: JIS B 1514 Class 4

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

Features

The width differences of front and back sides 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.

Preload Clearance: 2f

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

DF Combination Front side width difference x2=2f (=2b), 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	0.3	0.15	6.25	3.40	49000	7.6	17.5	29.5	0.3	30												
B7003SU	17	35	10	0.3	0.15	6.60	3.80	44300	8.5	19.5	32.5	0.3	39												
B7004SU	20	42	12	0.6	0.3	11.10	6.55	37100	10.1	25	37	0.6	67												
B7005SU	25	47	14	1	0.6	11.70	7.40	32000	10.8	30	42	1.0	78												
B7006SU	30	55	13	1	0.6	15.10	10.30	27100	12.2	36	49	1.0	114												
B7007SU	35	62	14	1	0.6	19.10	13.70	23800	13.5	41	56	1.0	151												
B7008SU	40	68	15	1	0.6	20.60	15.90	21300	14.7	46	62	1.0	189												
B7009SU	45	75	16	1	0.6	24.40	19.30	19200																	