Angular Contact Bearings with Housings

Overview

Angular Contact Bearings with Housings

Angular Contact Back-to-Back Combination - Flanged

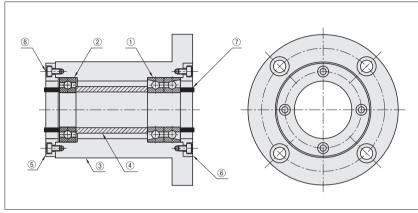
Angular Contact Bearings with Housings

• The Angular Contact Bearings with Housing set is a unit holder which includes Back-to-Back Bearings.

Application

Suitable for heavy load applications with both radial and axial load.

■Construction Diagram

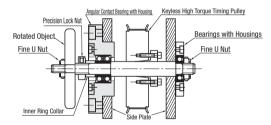


- 1)Angular Contact Back-to-Back Combination Deep Groove Ball Bearing
- 3 Housing Body
- 4 Inner Ring Spacer
- Standard Cover 6 Standard Cover N
- Oil Seal Cover S
- 0-Ring Cover R Selectable
- Collar for Inner Ring (2 pcs.) 8) Screw for Cover (8 pcs.)

Product Lineup and Application

- Two New types, the flanged type and the pilot type have been added to Angular Contact Back-to-Back Combination + Deep Groove Ball Bearing Type.
- A compact Angular Contact Back-to-Back Combination Type that can be combined with other bearing housings has also been newly added.

App. Example (1) (Angular Contact Back-to-Back Combination)



Cautions on Angular Contact Bearings with Housings Selection

- MISUMI angular contact bearings are designed for grease lubrication.
- · Angular contact bearings are not pre-greased at the time of shipment. Please apply grease before use.
- · An outer ring cover for grease splash prevention is included with the angular contact bearings.
- · For grease splash prevention, an outer ring fixing cover can be selected from type S (for oil seal) and type R (for O-ring). An oil seal and O-ring are included as standard.
- · An inner ring collar is included for use with bearing lock nuts. (The collar is not necessary on stepped shafts.)

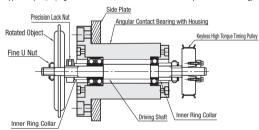
For Back-to-Back Combination Type (ABGEB, ABGE)

· When the rotary ① shaft is long, it can be used in combination with the regular bearing with housings for deep groove ball bearings. (Refer to App. Example)

For Back-to-Back Combination + Deep Groove Type (ABGCB, ABGC, ABGYB, ABGY)

- · A standard cover for outer ring fixing is included with the radial bearing (deep groove ball bearing side).
- Outer ring of the radial bearing is not fixed in thrust direction.
- · A spacer for the inner ring is included as an accessory that can be used to axially tie the inner ring of the angular contact bearing and the deep groove ball bearing together.

App. Example② (Angular Contact Back-to-Back Combination + Deep Groove Ball Bearing)



Mounting Procedures for Angular Contact Bearings with Housings

- 1. Apply grease on an angular contact bearings.
- 2. Put the bearings together in a back-to-back combination.
- 3. Insert the rotary shaft into the angular contact bearings set.
- 4. Insert the shaft into the inner ring spacer.
- 5. Insert the angular contact bearings into the holder.
- 6. Install the deep groove ball bearing on the shaft, and then into the
- 7. Mount the outer ring cover with the screws by tightening them evenly.
- 8. Install the inner ring collar on the shaft with a bearing nut.
- 9. Verify whether the shaft rotates smoothly.

Туре	① Angular Contact Bearings (Back-to-Back Combination)	⑤Cover Mounting Screw				
	MMaterial	Material	SSurface Treatment	Material	SSurface Treatment	
ABGEB	EN 1.3505	FN 4 4404 F	Black Oxide	EN 1.7220 Equiv.	Black Oxide	
ABGE	Equiv.	EN 1.1191 Equiv.	Electroless Nickel Plating	EN 1.4301 Equiv.	-	

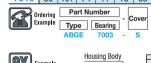
Bearing Accuracy (Angular Contact Bearings) JIS B 1514 Class 4 * Contact Angle 15°

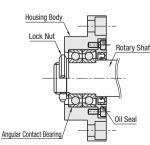
The Angular Contact Bearings with Housings is delivered with the parts unassembled to the holder body. Make sure that bearing outer rings and inner rings are firmly fixed by the covers and bearing nuts before use.

Contact with 0-Ring m	nay generate some friction.		
RoHS10	(Standard Cover)	(Oil Seal Cover)	(0-Ring Cover)
S 4 C PCD PCD PCD PCD PCD PCD PCD PCD PCD P	3 20 5 P P P P P P P P P P P P P P P P P P	G = 28 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	121
	A Accesso	ory: Oil Seal (JIS G/D Nitrile Rubber)	A Accessory: O-Ring (JIS P Nitrile Rubber)

Part Number		3Cover Type	-	٦	D		В	b ₂	н	D ₂	т	dh	D		P.C.D.	d ₁	d ₂	H ₁
Туре	Bearing No.	Selection		d	D _{H7}	Tolerance	В	D2	п	D2	'	un	□ 1g6	Tolerance	P.C.D.	uı	u ₂	П
	7002		29	15	32		9	20	75	48	12	28	50	-0.009	62	11	6.6	6.5
	7003	N Standard S Oil Seal R O-Ring	31	17	35	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	22	/3	40	12	31	30	-0.025	02	''	0.0	0.5
ABGEB	7004		36	20	42		12	26	92	58	15	36	60		75	14	9 8.	8.5
(Black Oxide)	7005		38	25	47			20	98	63	10	41	65	-0.010 -0.029	80	14	3	0.5
	7006		40	30	55		13	28	120	78	18	48	80	0.020	98	6	11	
ABGE	7007		43	35	62		14	30	126	84	10	55	86		106			
(Electroless Nickel Plating)	7008		46	40	68	+0.030	15	32	140	92		60	95	-0.012	116			10.5
	7009		48	45	75]	16	34	145	98	20	69	100	-0.034	122			
	7010]	50	50	80		10		147	101		74	105		124			

											③Co	ver [Detai	ils								4 Collar Details												
	No.		D ₂								N Standard Cover	Standard Cover S Oil Seal Cover R O-Ring Cover					over	⑤Cover Mounting																
		D		dh	T1	T 2	P.C.D.	dз	d4 t2	t2	d ₅	S ₁	S 2	St	Accessory Oil Seal	Ra	Rb	Rt	r	Accessory O-Ring	Screw	O.D.	I.D.	Thickness										
7	7002	32	48	28	6	8	40	6.5	3.5	3.1	21	32	22	5	G20325	24	20	3.2	0.4	P20	M3-8	20	15	8.5										
7	7003	35	40	31	0	0	40	0.5	3.5		21	32	22	3		24			0.4	F 20	IVIO-0	20	17	0.5										
7	7004	42	58	36	7	9	48	8	4.5	5 4.1	26	35	27	6	D25356	31	31 25			P25	M4-10	25	20	9.5										
7	7005	47	63	41	8	10	53	0	4.5	4.1	31	40	32	7	D30407	36	30			P30	IVI4-10	30	25	10.5										
7	7006	55	78	48	0	10	64	9.5	5.5	5.1	41	50	42	6.5	D40506.5	41	35	4.7	0.7	P35	M5-12	40	30	10.5										
7	7007	62	84	55			72	9.0	5.5		46	60	47		D45609	46	40	4.7	0.7	P40	1 1010-12	45	35											
7	7008	68	92	60	9	9	9	9	9	9	9	9	9	9	9	11	78				51	65	52	9	D50659	51	45			P45	M6-12	50	40	11.5
7	7009	75	98	69			85	11	6.6	6.1	56	70	57	9	D55709	56	50	1		P50	1010-12	55	45											
7	7010	80	101	74	11	13	88				61	75	62		D60759	70	60	7.5	0.8	P60	M6-15	60	50	13.5										
=			7				=																											





			ABO	GEB			ABGE								
No.	Cov	er N	Cov	er S	Cov	er R	Cov	er N	Cov	er S	Cover R				
NO.	Unit Price	Volume Discount Rate													
	1 pc.	2 ~ 4 pcs.													
7002															
7003															
7004															
7005															
7006															
7007															
7008															
7009															
7010															