

# Koyo®



8 PLANTS / BEARINGS  
AND STEERING SYSTEMS

DAC TYPE Automotive Wheel Bearings

## DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



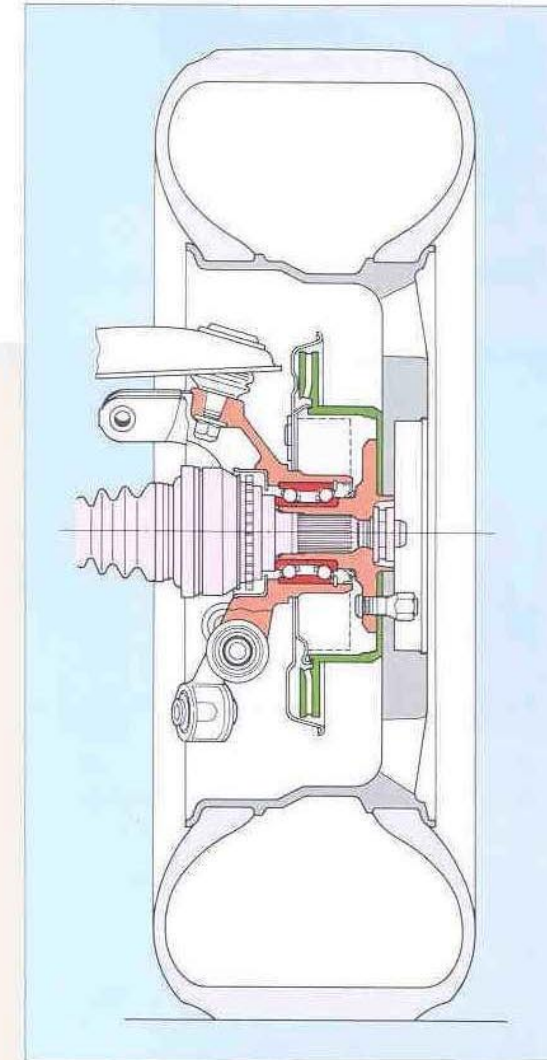
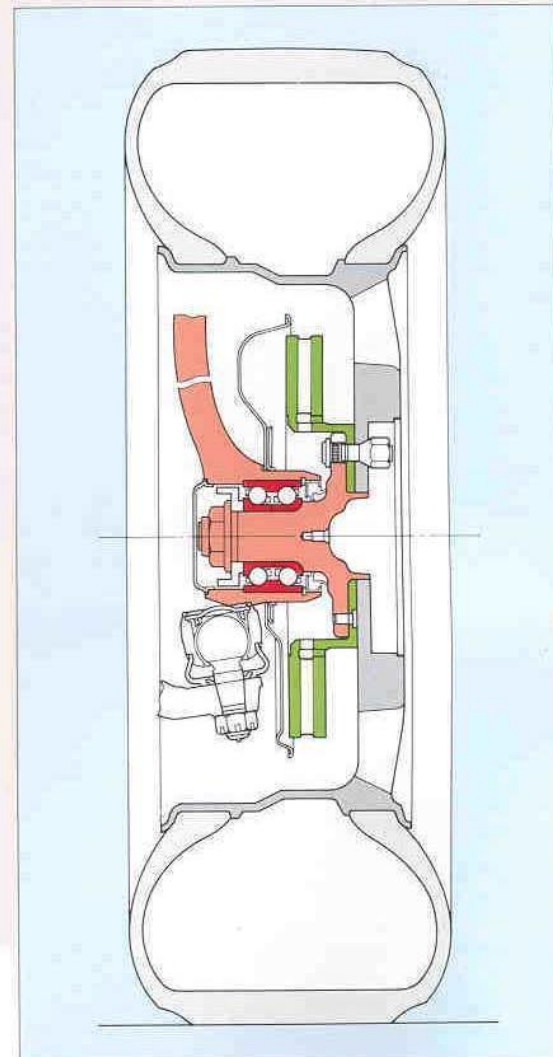
CAT. NO. 261E

KOYO SEIKO CO., LTD.

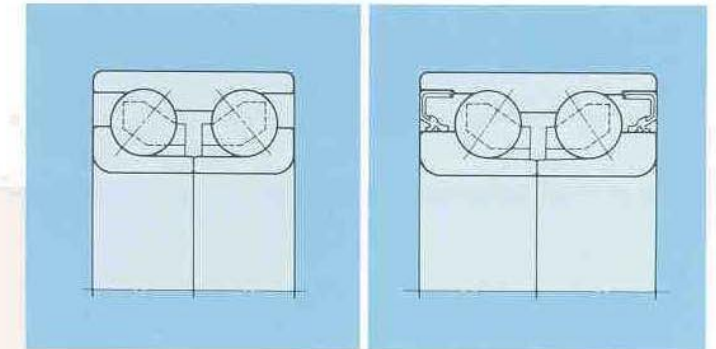
# Koyo DAC Type Double Row Angular Contact Ball Bearings

## Advantages of Double Row Angular Contact Ball Bearing

- No need for pre-load adjustment at assembly**  
 After press-fitting of bearings, it is only necessary to tighten nuts to the specified torque.
- Compactness and high performance of wheel axles**  
 No need for parts such as spacers, thus minimizing axial space requirements. Therefore, highly rigid and short axles can be used.
- No need for grease replenishment at assembly**
- High productivity**  
 The number of parts is reduced with simplified assembly work.

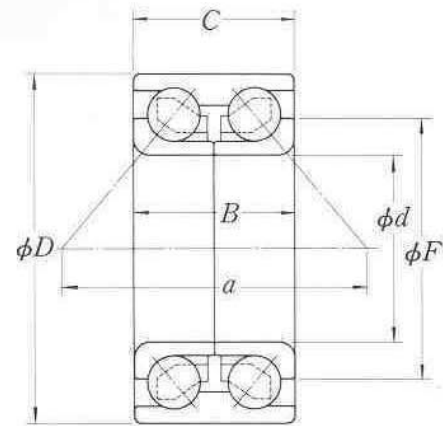


The Koyo DAC type bearing is a double row angular contact ball bearing incorporating an integral outer ring and two separable inner rings ; which is available either with seals or without seals.

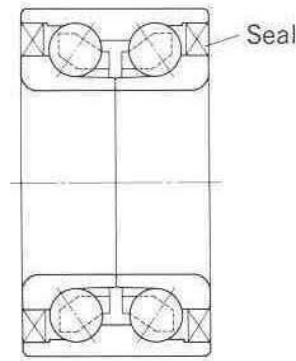


- Large moment stiffness**  
 This bearing can be designed to have a large contact angle. Due to the large distance between pressure centers (dimension "a" in the dimensional table), this bearing is fully resistant to moments imposed on the wheel during cornering or other similar motion. Thanks to its special internal design, stiffness is further improved to resist moment.
- Large load rating**  
 The bearing can be simultaneously resistant to axial loads in both the directions and large radial load.
- Appropriate internal axial clearance**  
 Since the bearing is designed to have the appropriate internal axial clearance, there is no need for pre-load adjustment (dimensional adjustment for spacers), which is necessary for single row bearing assembly.
- Greasing**  
 An appropriate amount of high-grade grease [excellent for heat (130°C) and wear resistance] is pre-packed in the bearing.
- Superior sealing**  
 Sealed type bearings are mud-proof, dust-proof, and leakproof (grease) all without the use of shaft seals.
- Upgrading reliability**  
 Koyo HRS (High Refining Bearing Steel) can be used for the bearing, thereby extending its service life.

d 28~37.99 mm

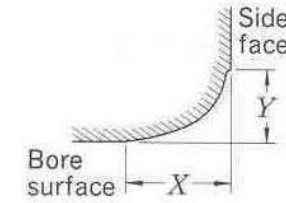


Type 1 Open Type

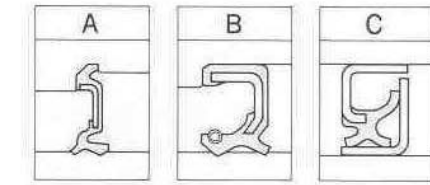


Type 2 Sealed Type

■ Inner Ring Chamfer

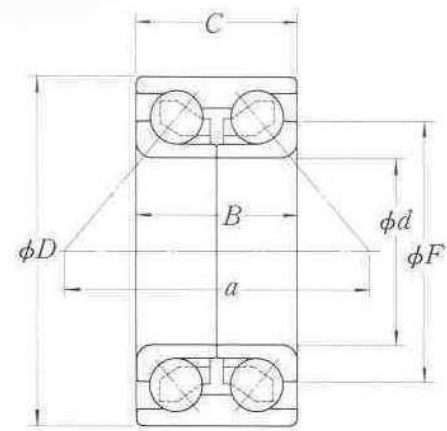


■ Type of Seal

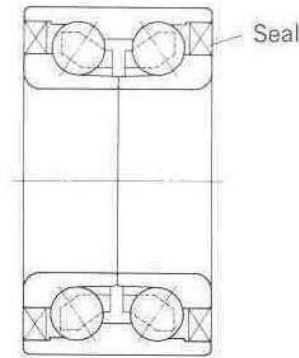


Bearing No.	Boundary Dimensions (mm)						Type	Basic Load Rating (kN)		Inner Ring Chamfer Dimensions (mm)		Mass (kg)	Type of Seal	Inner and Outer Rings (Separable type (○) Non-separable type (×))
	d	D	B	C	F	a		Dynamic C	Static C <sub>0</sub>	X (Minimum)	Y (Minimum)			
DAC28582RK	28	58	42	42	39.4	54.4	2	33.4	25.8	2.8	2.8	0.450	Special	×
DAC286142AW	28	61	42	42	43.4	55.5	1	38.5	29.8	3.7	3.6	0.510	—	○
DAC3064W2RKB	29.99	64	42	42	42.5	58.0	2	40.6	33.0	3.2	3.2	0.580	Special	×
DAC3060372RS	30	60	37	37	43.7	48.5	2	35.1	28.2	2.8	2.8	0.460	A	○
DAC3060W	30	60.03	37	37	43.9	50.7	2	38.5	29.9	2.5	2.5	0.410	A	×
DAC3063W-1	30	63.03	42	42	45.9	57.3	1	40.6	32.8	3.7	3.6	0.560	—	○
DAC3273W	32	73	54	54	50.9	66.0	2	58.8	45.0	4.7	3.5	0.980	Special	×
DAC3464D	34	64	34	34	48.6	51.8	1	36.7	31.1	3.5	2.5	0.430	—	○
DAC3464G12RS	34	64	37	37	48.0	50.3	2	36.7	31.1	3.5	2.5	0.500	B (Without spring)	×
DAC3464W-22RS	34	64	37	37	48.0	52.5	2	36.7	31.1	3.5	2.5	0.500	B (Without spring)	×
DAC3468DW	34	68	37	37	50.9	52.8	2	42.4	36.4	2.0	1.1	0.550	Special	×
DAC34682RS	34	68	42	42	48.7	56.2	2	46.4	38.1	3.5	2.5	0.640	B (Without spring)	×
DAC3568W-6	34.99	68.02	33	30	50.9	60.1	1	40.3	34.6	3.7	3.6	0.460	—	○
DAC3577W-3	34.99	77.04	42	42	54.6	60.6	1	62.4	50.3	4.5	3.9	0.860	—	○
DAC3562AW	35	61.8	31	31	47.8	52.3	1	32.6	28.6	2.0	2.0	0.350	—	×
DAC3564A-1	35	64	37	37	48.0	50.3	2	36.7	31.1	4.0	3.3	0.460	C	×
DAC3564A	35	64	37	37	48.0	55.7	2	35.2	29.9	4.0	3.3	0.430	C	×
DAC3568A2RS	35	68	37	37	50.9	52.8	2	42.4	36.4	3.7	3.6	0.530	A	○
DAC357234A	35	72	34	34	51.5	48.8	1	50.6	43.6	2.0	2.5	0.580	—	○
DAC357245CW2RS	35	72	45	45	47.6	48.8	2	44.8	35.1	2.2	2.2	0.630	A (Single lip)	×
DAC357233B-1W	35	72.02	33	31	52.7	51.3	1	50.3	38.1	3.5	3.4	0.540	—	○
DAC358047BW2RS	35	80	47	47	50.4	51.1	2	48.7	26.5	2.2	2.2	0.960	A	×
DAC3580WHR4	35	80	47	47	51.0	50.2	2	67.0	49.6	2.2	2.2	1.03	A	×
DAC3580W-3HR4	35	80	45	45	54.7	44.8	2	67.0	49.6	3.5	3.5	1.10	Special	×
DAC3665W	36	65	37	37	49.2	57.0	1	36.6	31.3	3.2	3.2	0.450	—	×
DAC3668AW	36	68	33	33	50.9	52.8	1	42.4	36.4	2.5	2.5	0.470	—	○
DAC3668W	36	68	33	33	50.9	52.8	1	42.4	36.4	1.0	1.5	0.470	—	○
DAC3880W-1	37.967	80.02	36	33	63.1	73.6	1	44.6	43.9	3.5	3.5	0.790	—	○
DAC3874W-6	37.988	74.02	36	33	54.2	65.0	1	50.0	39.6	3.5	3.0	0.590	—	○
DAC3871W-2	37.99	71.02	33	30	53.6	62.2	1	42.0	37.5	2.9	3.4	0.500	—	○
DAC3872W-8	37.99	72.02	36	33	53.5	64.2	1	46.1	39.8	3.5	3.0	0.560	—	○

d 38~48 mm

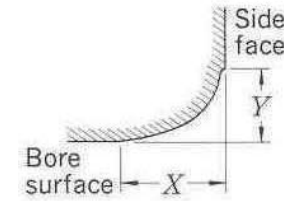


Type 1 Open Type

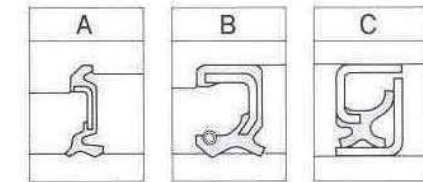


Type 2 Sealed Type

Inner Ring Chamfer



Type of Seal



Bearing No.	Boundary Dimensions (mm)						Type	Basic Load Rating (kN)		Inner Ring Chamfer Dimensions (mm)		Mass (kg)	Type of Seal	Inner and Outer Rings (Separable type (○) Non-separable type (×))
	d	D	B	C	F	a		Dynamic C	Static C <sub>0</sub>	X (Minimum)	Y (Minimum)			
DAC3870DW	38	70	38	38	53.1	54.2	2	44.3	39.3	4.0	3.3	0.570	C	×
DAC3872A	38	72	34	34	53.5	55.5	1	48.6	41.9	2.0	2.5	0.590	—	○
DAC3872W-10	38	72	40	40	52.5	55.5	2	48.6	41.9	2.5	2.5	0.630	C	×
DAC3873-1	38	73	40	40	52.5	55.5	2	48.6	41.9	3.5	2.5	0.670	C	×
DAC3972AW4	39	72	37	37	51.1	52.8	2	48.6	38.5	3.3	2.4	0.500	B	○
DAC3972D2RSF	39	72	37	37	54.5	65.0	2	41.9	37.6	3.3	2.4	0.580	A	×
DAC407043W	40	70	43	43	53.6	59.5	2	44.3	39.4	2.6	2.6	0.630	C	×
DAC4072	40	72	36	33	55.8	66.0	1	41.0	38.1	1.5	1.2	0.530	—	×
DAC407440	40	74	40	40	56.4	55.6	2	50.7	45.5	3.8	3.8	0.620	B (Without spring)	×
DAC4074CW	40	74	36	34	56.4	58.6	1	50.7	45.5	2.6	2.6	0.620	—	×
DAC4076412RS	40	76	41	38	54.4	56.8	2	52.5	41.9	3.5	1.8	0.700	B (Without spring)	×
DAC4080M1	40	80	36	34	59.2	66.4	1	56.6	48.5	2.6	2.6	0.740	—	○
DAC4275BW2RS	42	75	37	37	57.5	59.3	2	45.9	42.8	3.6	3.6	0.600	A	×
DAC4276402RSF	42	76	40	37	57.4	67.5	2	47.9	43.4	3.5	3.5	0.660	A	×
DAC4278A2RS	42	78	38	38	56.4	58.0	2	55.0	48.3	3.5	2.5	0.690	B (Without spring)	×
DAC4278C2RS	42	78	41	38	59.4	58.7	2	55.0	48.4	4.0	2.5	0.750	B (Without spring)	×
DAC4280W-2	42	80	45	45	59.2	63.7	2	58.9	50.4	3.8	3.8	0.860	C	×
DAC4280WHR4	42	80	45	45	59.2	61.7	2	58.9	50.4	3.5	3.5	0.850	C	×
DAC4280B2RS	42	80.03	42	42	59.2	72.2	2	56.0	48.0	2.5	2.5	0.820	A	×
DAC4379-1	43	79	41	38	59.4	58.7	2	55.0	48.4	4.0	3.0	0.770	C	×
DAC4380A	43	80	50	45	60.3	72.4	1	54.9	48.7	3.5	3.5	0.910	—	○
DAC4382W-3	43	82	45	45	60.7	64.8	2	61.8	54.6	3.5	3.0	0.960	C	×
DAC4484B2RS	44	84	42	40	60.6	62.4	2	65.7	52.2	3.5	2.5	0.900	B (Without spring)	×
DAC4484CW2RS	44	84	42	40	62.5	62.2	2	65.7	49.6	3.5	2.5	0.900	B (Without spring)	×
DAC4583	45	83	45	45	62.7	64.8	2	61.8	55.0	3.8	3.0	1.00	C (With spring)	×
DAC458439BW	45	84	39	39	61.2	70.2	2	58.5	52.4	4.8	3.6	0.850	B	×
DAC4584DW	45	84	41	39	58.5	64.2	2	61.7	55.1	2.6	2.6	0.800	Special	×
DAC4781WSH2	47	81	53	53	62.4	75.8	2	52.4	49.7	4.7	3.5	0.950	C	×
DAC4889W2RS	48	89	44	42	66.5	67.2	2	68.8	62.2	3.5	2.5	0.970	B (Without spring)	×