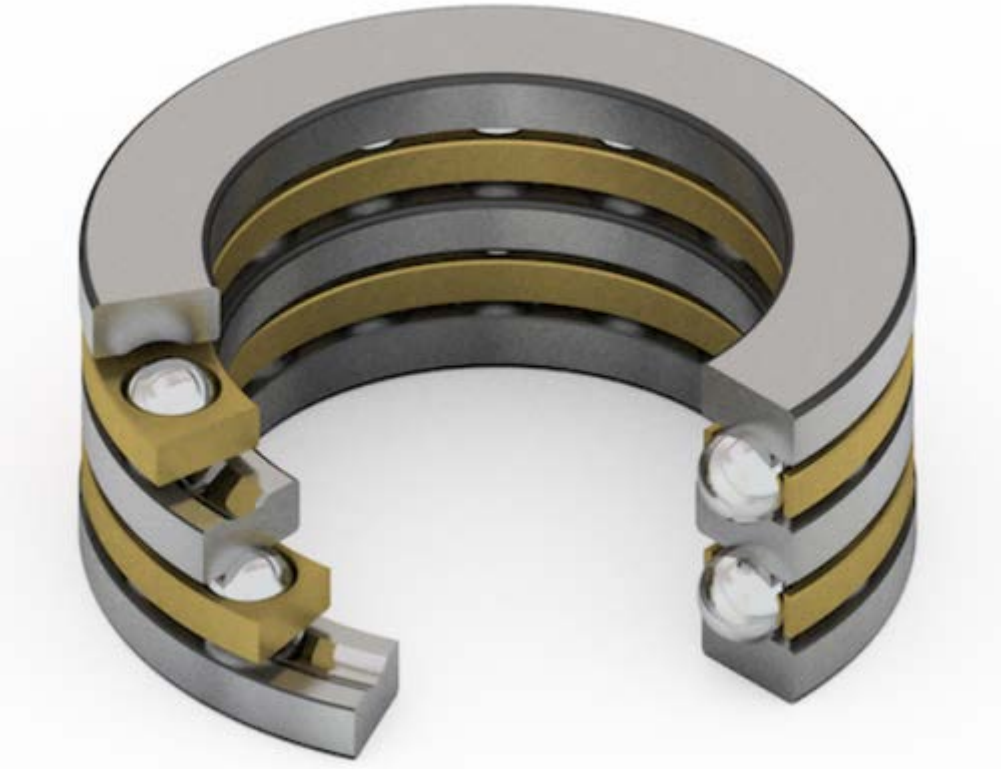
Double-direction Thrust Angular Contact Ball Bearings

TAD Series

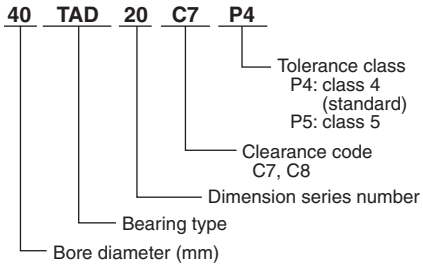


(Double-direction Thrust Angular Contact Ball Bearings - TAD20 Series

● Feature design

This is a double-row bearing with a one-piece outer ring. The ball assembly is arranged as a back-to-back, Angular Contact Ball Bearings with a high contact angle. This type is used as the Axial carrying Bearing in conjunction with a Double-row Cylindrical Roller Bearings.

● Bearing No.



● Tolerance

The outer ring is made with a negative tolerance for a clearance fit in the housing. This enables the associated radial bearing to carry a radial load.

● Standard preload

Bore Diameter Number	Standard preload (N)	
	C7	C8
20TAD20	215	590
30TAD20	245	
35TAD20		685
40TAD20	295	
45TAD20		785
50TAD20	345	880
55TAD20	390	980
60TAD20		
65TAD20	590	1250
70TAD20		1350
75TAD20	685	1750
80TAD20		
85TAD20		2150
90TAD20	1050	2850
95TAD20	1150	2950
100TAD20		3450
105TAD20	1450	
110TAD20		4400
120TAD20	1650	4700
130TAD20	1750	
140TAD20	1950	6350
150TAD20	2750	
160TAD20		6850
170TAD20	2950	8800
180TAD20	3900	
190TAD20		11800
200TAD20	4100	

Inner Ring and Height Tolerances

Unit: μm

Nominal bearing bore diameter d (mm)		Single plane mean bore diameter deviation Δd_{mb}				Variation of assembled height T		Width variation of inner ring V_{Bs} (Max)		Side face runout with reference to bore S_d (Max)		Side face runout with reference to raceway of assembled bearing inner ring and of assembled bearing outer ring S_{ia}, S_{ea} (Max)	
		Class 5		Class 4									
Over	Incl.	High	Low	High	Low	High	Low	Class 5	Class 4	Class 5	Class 4	Class 5	Class 4
18	30	0	− 6	0	− 5	0	−300	5	2.5	8	4	5	3
30	50	0	− 8	0	− 6	0	−400	5	3	8	4	5	3
50	80	0	− 9	0	− 7	0	−500	6	4	8	5	6	5
80	120	0	−10	0	− 8	0	−600	7	4	9	5	6	5
120	180	0	−13	0	−10	0	−700	8	5	10	6	8	6
180	250	0	−15	0	−12	0	−800	10	6	11	7	8	6

Variation and deviation of outer ring

Unit: μm

Nominal bearing bore diameter D (mm)		Single plane mean outside diameter deviation ΔD_{mb}		Width variation of inner ring V_{Cs} (Max)		Outside inclination of outer ring S_d (Max)	
		Class 5 · Class 4					
Over	Incl.	High	Low	Class 5	Class 4	Class 5	Class 4
18	30	−20	−27	5	2.5	8	4
30	50	−24	−33	6	3	8	4
50	80	−28	−38	8	4	9	5
80	120	−33	−44	8	5	10	5
120	180	−33	−46	8	5	10	5
180	250	−37	−52	10	7	11	7
250	315	−41	−59	11	7	13	8

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