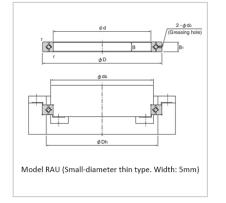


洛阳盟拓轴承科技有限公司 Louyang Monton Bearing Science&Technology Co.ltd.

Crossed Roller Bearing

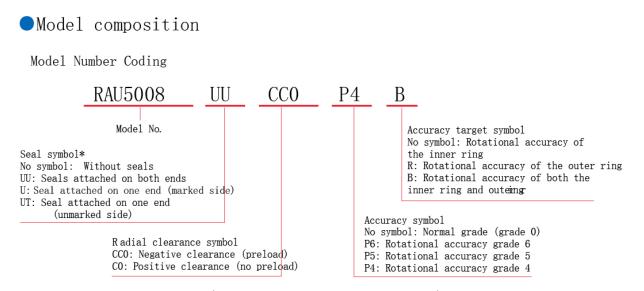
RAU slim thin section crossed roller bearing-70





	70
Shaft diameter	70
Model No.	RAU7005
Main dimensions	
Inner diameter	70
Outer diameter	81
Roller pitch circle	74.7
diameter	
Width	5
Greasing hole d0	1
rmin	0.15
Shoulder dimensions	
ds(max)	72.5
Dh (min)	77
Basic load rating	
C kN	2.81
C0 kN	4.68
Mass	
g	44

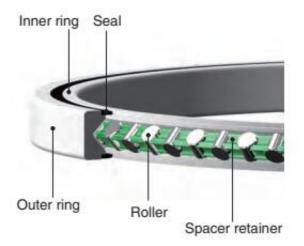
Micro Cross-Roller Ring RAU



Considerations for model RAU (Small-diameter thin type. Width: 5mm) *Seals are not available.* The omdyar clearance available is CO.* The only accuracy available is normal grade (grade 0). [Micro Cross-Roller Ring with inner diameter of 10 mm and outer diameter of 21 mm

[More compact than a conventional angular contact ball bearing

Spacer retainer enables smooth movement and high rotation accuracy.



Structure

In the RAU, the rollers travel on the V-shaped raceways ground into the inner and outer rings.

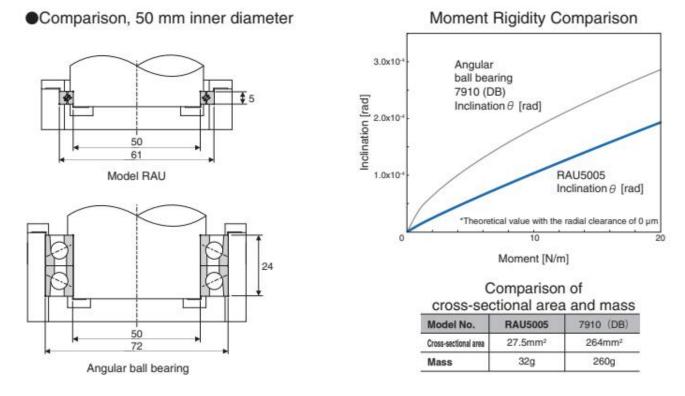
Alternating rollers are arrayed orthogonally so that one bearing can support loads and moments in any direction.

Also, because of the integrated structure, the RAU can be used for either inner ring or outer ring rotation.

Fig. 1 Structure of Cross Roller-Ring Model RAU

1. Compact and Rigid

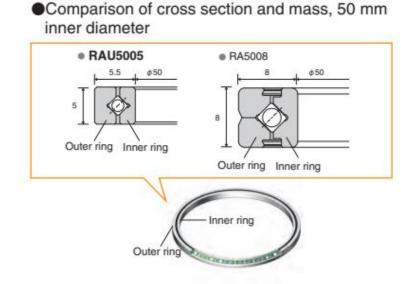
The RAU is more compact and lighter weight than a double row angular contact ball bearing. It is also more rigid, even though it is made as compact as possible.



2. Light Weight

The cross-sectional area of the model RAU is 57% smaller than theCross-Roller Ring model RA, which was previously the thinnest ever. This enables further weight reduction. The line-up also includes other models

whose inner diameters are the smallest to date: 10, 15, 20, 30, and 40mm.



Model No.	RAU5005	RA5008	
Cross-sectional area	27.5mm ²	64mm ²	
Mass	32g	80g	

Accuracy standards

Rotational accuracy

- Rotational Accuracy of the Inner Ring Unit: μm - Rotational Accuracy of the Outer Ringit: μm

Nominal dimension of bearing inner diameter (d) (mm) Radial runout toleranceAxial runout tolerance of inner ring inner ring inner ring ance of outer ring ance of out

Above	Or less	Grade 0	Grade P6	Grade P5	Grade P4	Grade 0	Grade P6	Grade P5	Grade P4
-	18	10	-	-	-	10	-	-	-
18	40	13	-			13			
40	65	13	10	5	4	13	10	5	4
65	80	15	10	5	4	15	10	5	4
80	100	15	13	6	5	15	13	6	5
100	120	20	13	6	5	20	13	6	5
120	140	25	18	8	6	25	18	8	6
140	180	25	18	8	6	25	18	8	6
180	200	30	20	10	8	30	20	10	8

Above	Or less	Grade 0	Grade P5	Grade P4	Grade P6	Grade P5	Grade P4
	65	13	-	-	13	-	-
65	80	13	8	5	13	8	5
80	100	15	10	6	15	10	6
100	120	15	10	6	15	10	6
120	140	20	11	7	20	11	7
140	180	25	11	7	25	11	7
180	200	25	15	10	25	15	10
200	250	30	15	10	30	15	10

- The rotational accuracy of model RAU (Small-diameter thin type. Width: 5mm) is only available in normal grade (grade 0).

Dimensional accuracy

							Unit. P.	
dime	sic nsion [mm]	inner d	ring Hiameter: colerance of dm	outer (ring diameter: tolerance of Dm	Dimensiona	g width: 1 tolerance 3,B1	3
Above	Or less	Upper limit	Lower lim	it Upper li	mit Lower	limit Upper	limit Lowe	r limit
	18	0	-8		-	0	-120	
18	30	0	-10	0	-9	0	-120	
30	50	0	-12	0	-11	0	-120	
50	80	0	-15	0	-13	0	-120	
80	120	0	-20	0	-15	0	-120	
120	150	0	-25	0	-18	0	-120	
150	180	0	-25	0	-25	0	-120	
180	250	0	-30	0	-30	0	-120	

-dm and Dm represent the arithm etic averages of the maximum and minimum diameters obtained by measuring the inner and outer diameters of the bearing at two points.

	Roller Pitch circle diameter CCO (dp) [mm]			CO		
Above	Or less	Min.	Max.	Min.	Max.	
	18	-	-	0	15	
18	30	-		0	15	
30	50	-	-	0	15	
50	80	-8	0	0	15	
80	120	-8	0	0	15	
120	140	-8	0	0	15	
140	160	-8	0	0	15	
160	180	-10	0	0	20	
180	200	-10	0	0	20	
200	225	-10	0	0	20	

Unit: µm

Radial clearance standard Unit: µm