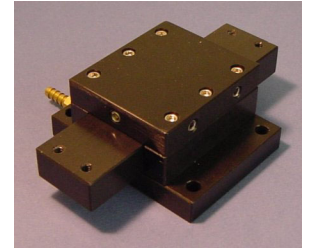


LINEAR RECTANGULAR AIR BEARINGS

RAB SERIES LINEAR RECTANGULAR AIR BEARINGS

- Better Straightness, Angular Error and Repeatability than roller bearing slides
- Inherently Frictionless – no breakaway or running friction



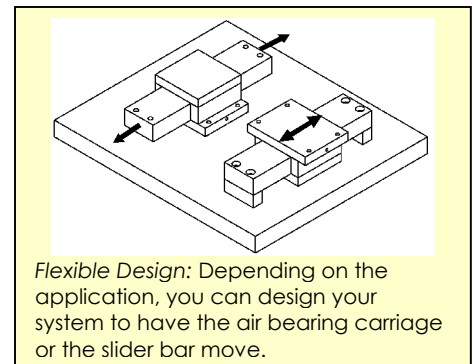
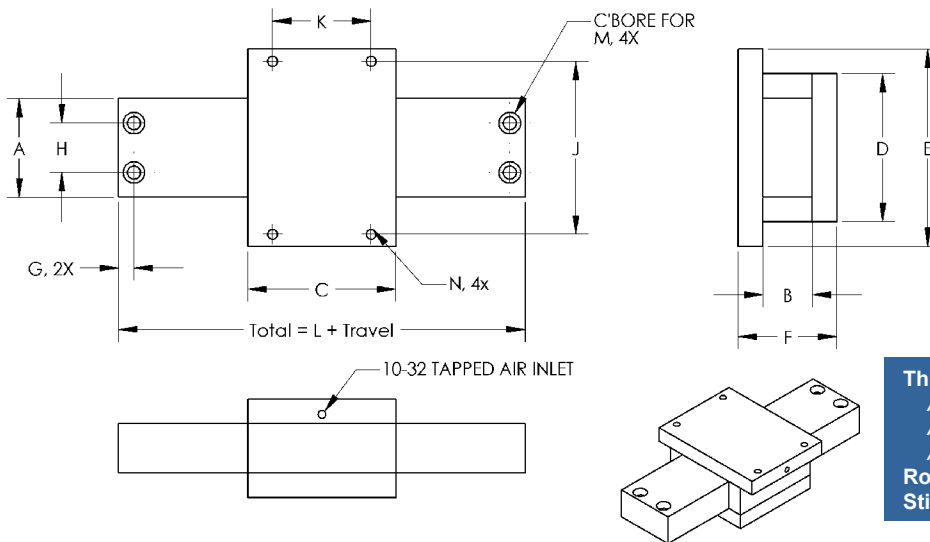
If your application requires smooth, precise linear motion our RAB series linear rectangular air bearings are right for you. These bearings can easily replace ball bearing and crossed roller bearing slides and are simple to integrate and use. They offer better straightness, angular deviation and repeatability than ball bearing slides, especially for travel lengths over 100 mm. In addition, because air bearings are inherently frictionless they do not exhibit breakaway or running friction, even under their maximum loading. Finally, the totally noncontact, clean nature of air bearings means that they are virtually maintenance free and their accuracy won't degrade over time due to wear. Just add air and precision positioning is at your fingertips.

SPECIFICATIONS AT A GLANCE:

MODEL	SLIDER BAR	CARRIAGE		TRAVEL (MM)	LOAD CAPACITY	
	WIDTH X HEIGHT (MM X MM)	LENGTH (MM)	WEIGHT (KG)		NORMAL (N)	TRANSVERSE (N)
RAB1	25.4 x 12.7	50.8	0.18	50 to 200	130	65
RAB1S	25.4 x 25.4	50.8	0.23	50 to 600	130	130
RAB2	50.8 x 25.4	76.2	0.64	50 to 300	400	200
RAB2S	50.8 x 50.8	76.2	0.77	50 to 900	400	400
RAB3	76.2 x 31.8	101.6	1.36	50 to 450	800	355
RAB4	101.6 x 38.1	127	2.41	50 to 600	1280	480
RAB6	152.4 x 44.5	177.8	4.54	50 to 900	2650	800
RAB10	254.0 x 76.2	304.8	20.4	50 to 600	7550	2220

Note: Load capacity at 4 bar, 5 µm filter. Max Press. 6 bar, Load cap. @ 6 bar is 1.33 X load cap.

Call us today to learn more about using these air bearings in your application!



Flexible Design: Depending on the application, you can design your system to have the air bearing carriage or the slider bar move.

Three Accuracy Grades:

- A1 – 0.25 µm/mm, Max Deviation 1.2 µm/ 300 mm
 - A2 – 0.50 µm/mm, Max Deviation 2.5 µm/ 900 mm
 - A3 – 0.63 µm/mm, Max Deviation 5.0 µm/ 900 mm
- Roll/Pitch/Yaw: 0.25 arcsec / 25mm
Stiffness: 8 N/µm and up

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N
RAB1	25.4	12.7	50.8	44.5	63.5	31.8	4.8	15.9	54.0	38.1	69.9	M3.5 SHCS	M4x0.7
RAB1S	25.4	25.4	50.8	44.5	63.5	44.5	4.8	15.9	54.0	38.1	69.9	M3.5 SHCS	M4x0.7
RAB2	50.8	25.4	76.2	76.2	101.6	50.8	8.0	25.4	88.9	50.8	108.0	M6 SHCS	M6X1.0
RAB2S	50.8	50.8	76.2	76.2	101.6	76.2	8.0	25.4	88.9	50.8	108.0	M6 SHCS	M6X1.0
RAB3	76.2	31.8	101.6	108.0	133.4	63.5	8.0	38.1	120.7	76.2	133.4	M6 SHCS	M6X1.0
RAB4	101.6	38.1	127.0	139.7	139.7	76.2	8.0	76.2	120.7	82.6	158.8	M6 SHCS	M6X1.0
RAB6	152.4	44.5	177.0	190.5	190.5	82.6	8.0	127.0	171.5	127.0	209.6	M6 SHCS	M6X1.0
RAB10	254.0	76.2	304.8	304.8	304.8	139.7	8.0	228.6	279.4	241.3	336.6	M6 SHCS	M6X1.0



precision air bearing positioning

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