POROUS MEDIA® AIR BEARING SOLUTIONS



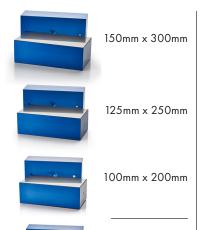


Porous Media® Air Bearing Solutions Flat Rectangular

A COMPLETE LINE OF FLAT RECTANGULAR POROUS MEDIA® AIR BEARINGS

New Way® flat rectangular air bearings can be readily used to create custom air stages.

These bearings are appropriate for highly-loaded applications and are the easiest type of air bearings to integrate into prototype designs as they can be readily replaced or changed. The standard product line shown is available off-the- shelf. New Way can also work with you to engineer a custom flat, rectangular air bearing to your specification.

















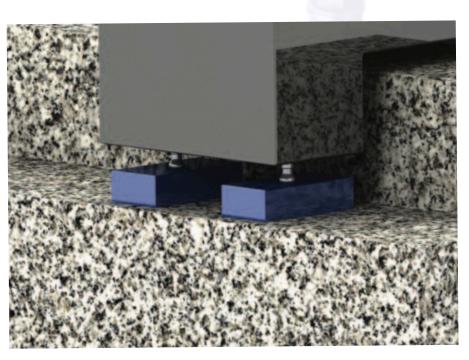


EASY APPLICATION

New Way makes air bearing components easy for anyone to apply. A gimbaled mount allows for great flexability in tolerance and the threaded ball studs make alignment simple



40mm x 80mm Flat Rectangular Air Bearing shown with Flat-End Ball Mounting Screw



50mm x 100mm Flat Rectangular Air Bearing
Application 3-D Model

NEW WAY POROUS MEDIA® TECHNOLOGY OFFERS YOU SIGNIFICANT ADVANTAGES

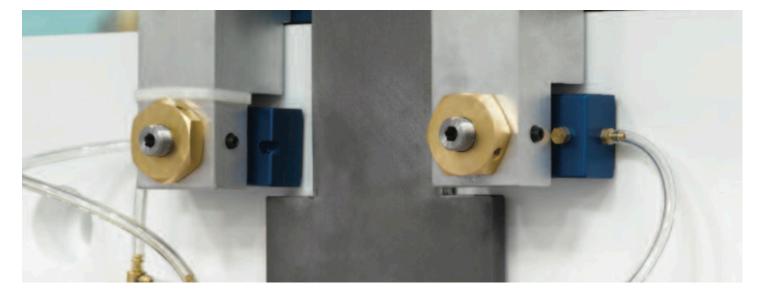
FEATURES	BENEFITS		
Standard component	Anyone can use		
Rectangular configuration	Maximizes bearing surface area for guideway width		
Porous carbon media	Eliminates damage to the guide surface		
Non-contact	Zero friction and no stiction for infinite resolution and repeatability		
Non-contact	Zero wear, for consistent machine characteristics		
Non-contact	Smooth, silent motion without vibration		
Non-contact	10x the speed		
Non-contact without moving parts	High, consistent acceleration		
No lubrication	Virtually maintenance free		
High air film stiffness	Reduced probability of contact		
High air film stiffness	High natural frequency		
High air film stiffness	High damping for faster settling time		
High air film stiffness	High precision positioning		
Porous carbon media	Lower air consumption		
Gimbaled mount	Easy to apply, adjust, achieve parallelism		

APPLICATIONS

- Coordinate Measuring Machines
- Diamond Turning Machines
- Dry Machining of Metals
- Fast Tool Servos
- High Speed Applications
- Material Testing Machines
- Scanning Machines
- Specialty Gauging
- Stages
- Vision Machines

MARKETS

- Metrology
- Semiconductor
- Flat Panel Display
- Solar
- Medical
- Machine Tools



NEW WAY FLAT RECTANGULAR AIR BEARINGS

provide frictionless linear motion in environments of all kinds.

FLAT RECTANGULAR AIR BEARING COMPARISON TABLE

Size	Part #	Ideal Load N(lbs) @.41 MPA (60psi)	Stiffness (lbs/u) in @ 60 N/micron @.41 MPA (60psi)	No Load Flow NLPM(SCFH)	Ball Socket Size	Bearing Height	Bearing Weight
150 x 300 (5.9 x 11.8)	\$1215001	11121 (2500)	1645 (9.39)	4.96 - 5.43 (10.5 - 11.5)	40 (1.6)	100 (3.94)	6693 (14.76)
125 x 250 (4.9 x 9.8)	S 1212501	7784 (1750)	1009 (5.76)	4.72 - 5.19 (10.0 - 11.0)	25 (1.0)	85 (3.35)	4597 (10.13)
100 x 200 (3.9 x 7.9)	\$1210001	4893 (1100)	665 (3.80)	3.54 - 4.48 (3.54 - 4.48)	25 (1.0)	70 (2.76)	3628 (8.00)
75 x 150 (3.0 x 5.9)	\$127501	2580 (580)	324 (1.85)	1.98 - 3.21 (4.2 - 6.8)	25 (1.0)	50 (1.97)	1411 (3.11)
50 x 100 (2.0 x 3.9)	\$125001	1112 (250)	110 (0.63)	2.27 - 3.68 (4.8 - 7.8)	13 (0.5)	25 (0.98)	295 (0.65)
40 x 80 (1.6 x 3.1)	\$124002	623 (140)	58 (0.33)	1.89 - 3.21 (1.13 - 1.89)	13 (0.5 in)	20 (0.79)	145 (0.12)
40 x 50 (1.6 x 2.0)	\$124001	356 (80)	35 (0.20)	1.13 - 1.89 (2.4-4.0)	13 (0.5 in)	13 (0.51)	56 (0.12)
25 x 50 (1.0 x 2.0)	\$122501	187(42)	22 (0.13)	0.94 - 1.18 (0.94 - 1.18)	6 (0.2)	17 (0.67)	48 (0.11)
20 x 40 (0.8 x 1.6)	\$122001	111 (25)	14 (0.08)	0. <i>7</i> 1 - 1.18 (1.5 - 2.5)	6 (0.2)	13 (0.51)	26 (0.06)
15 x 30 (0.6 x 1.2)	S 121501	62 (14)	7 (0.04)	0.47 - 0.94 (1.0 - 2.0)	6 (0.2)	10 (0.39)	8 (0.02)
12 x 24 (0.5 x 0.9)	S 121201	26 (8)	5 (0.03)	0.19 - 0.28 (0.4 - 0.6)	6 (0.2)	10 (0.39)	6 (0.01)

COMPLETE NEW WAY POROUS MEDIA® AIR BEARING PRODUCT LINE



Flat Round Air Bearings



Flat Rectangular Air Bearings



Vacuum Preloaded
Air Bearings



Conveyor Air Bearings



Radial Air Bearings



Air Bushings



Air Sliders





