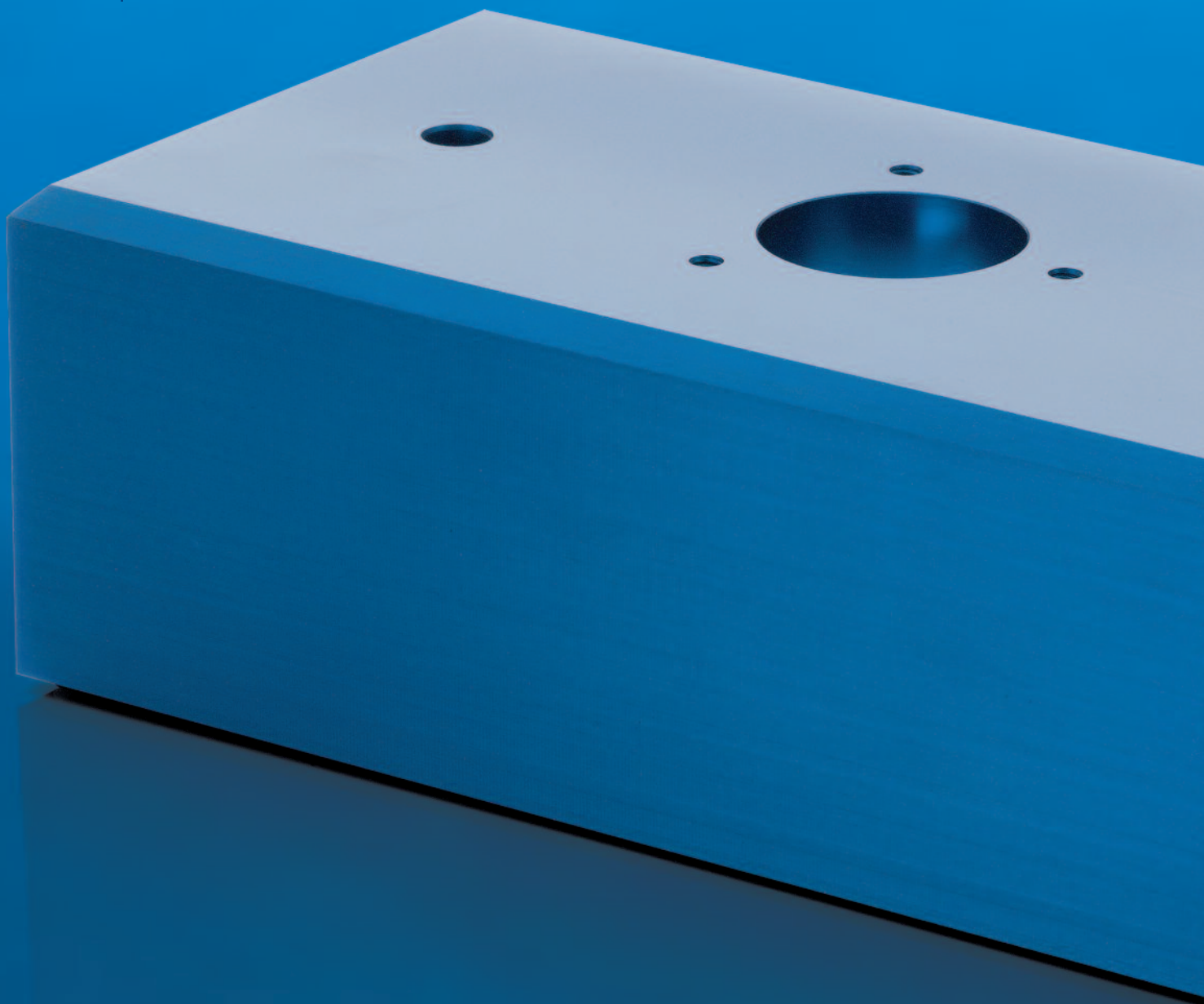
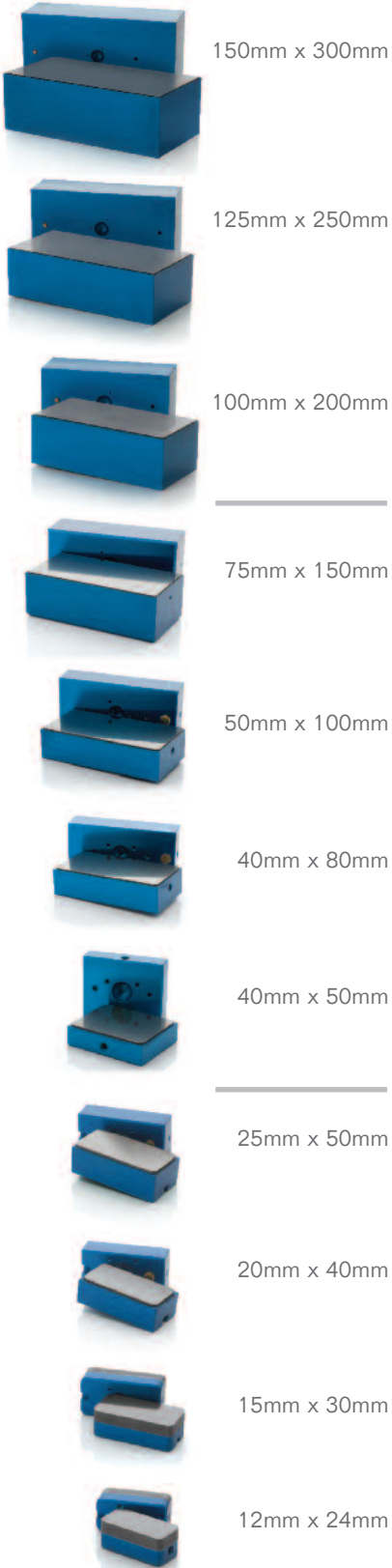


POROUS MEDIA[®]
AIR BEARING
SOLUTIONS

FLAT RECTANGULAR



**A COMPLETE LINE OF
FLAT RECTANGULAR
POROUS MEDIA®
AIR BEARINGS**



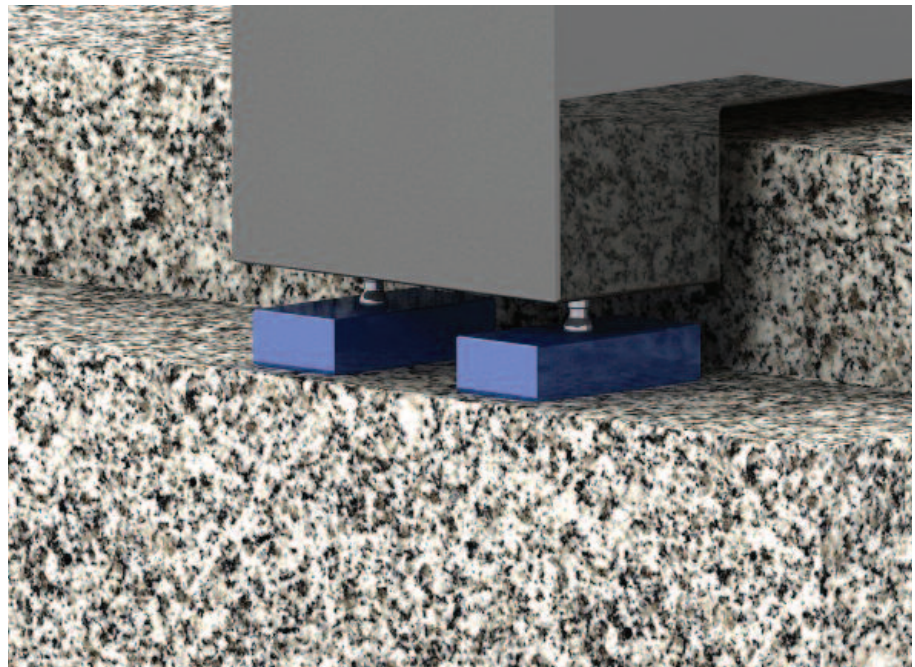
New Way flat rectangular air bearings can be readily used to create custom air stages. These bearings are appropriate for highly-loaded applications and are the easiest type of air bearings to integrate into prototype designs as they can be readily replaced or changed. The standard product line shown 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 flexibility 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 given 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 PRODUCT LINE

PRODUCT LINE COMPARISON: FLAT RECTANGULAR AIR BEARINGS							
Size	Part #	Ideal Load N (lbs) @ .41 MPa (60psi)	Stiffness N/micron (lbs/u in) @ 0.41 MPa (60psi)	Flow NLPM (SCFH) @ .41 MPa (60psi)	Ball Socket Size	Bearing Height mm (in)	Bearing Weight grams (oz.)
12mm x 24mm	S121201	36 (8)	5 (0.03)	0.1 (0.4)	6mm	10 (0.39)	6 (0.2)
15mm x 30mm	S121501	62 (14)	7 (0.04)	0.4 (1.0)	6mm	10 (0.39)	8 (0.3)
20mm x 40mm	S122001	111 (25)	14 (0.08)	.7 (1.5)	6mm	13 (0.52)	26 (0.9)
25mm x 50mm	S122501	187 (42)	22 (0.13)	.9 (2.0)	6mm	17 (0.67)	48 (1.7)
40mm x 50mm	S124001	356 (80)	35 (0.20)	1.3 (2.7)	13mm	13 (0.52)	56 (2.0)
40mm x 80mm	S124002	623 (140)	58 (0.33)	1.8 (4.0)	13mm	20 (0.79)	145 (5.1)
50mm x 100mm	S125001	1112 (250)	110 (0.63)	2.1 (4.5)	13mm	25 (0.98)	295 (10.4)
75mm x 150mm	S127501	2580 (580)	150 (0.85)	1.6 (3.5)	25mm	50 (1.97)	1411 (49.8)
100mm x 200mm	S1210001	4893 (1100)	665 (3.77)	1.8 (4.0)	25mm	70 (2.76)	3628 (128.0)
125mm x 250mm	S1212501	7784 (1750)	1009 (5.72)	3.0 (6.5)	25mm	85 (3.35)	4597 (162.2)
150mm x 300mm	S1215001	11121 (2500)	1645 (9.33)	4.2 (9.0)	25mm	100 (3.94)	6693 (236.1)

COMPLETE NEW WAY POROUS MEDIA® AIR BEARING PRODUCT LINE



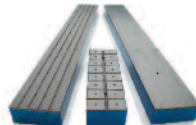
Flat Round
Air Bearings



Flat Rectangular
Air Bearings



Vacuum Preloaded
Air Bearings



Conveyor
Air Bearings



Radial
Air Bearings



Air Bushings



Air Slides

ISO
9001:2008
CERTIFIED

New Way Air Bearings
products are manufactured
using ISO 9001:2008
certified processes

NEWWAY[®]
air bearings

Frictionless Motion[®]

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