

C-SERIES CONVEYOR AIR BEARING

500mm



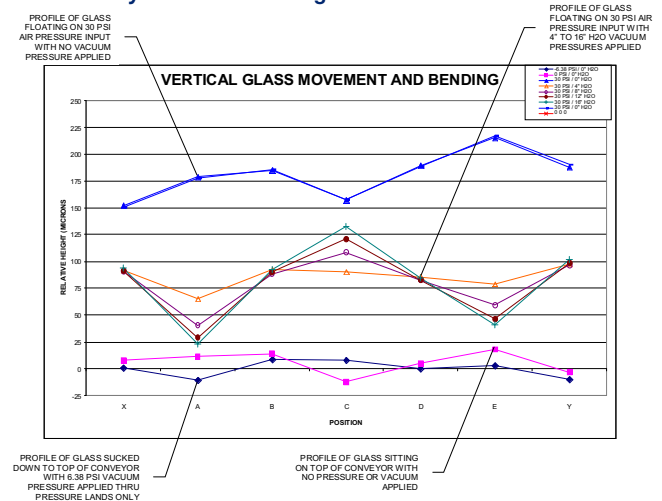
500mm C-Series Conveyor Air Bearing

Smallest of the New Way C-Series conveyor air bearing line, the 500mm size is designed to provide the shorter length necessary to finish out the construction of arrays for all different glass generations. New Way Porous Media[®] Technology delivers controlled, non-contact glass handling capability for conveying, processing, and inspection applications. These modular components are available from stock and easy to install, level, plumb, maintain, replace and change.

SPECIFICATIONS: 500mm C-Series Conveyor #S22100C500

Fly Height Example microns (in)	80 (0.0032)
Input Pressure kPa (psi)	145 (21.0)
Input Pressure Flow SLPM (SCFM)	12.20 (0.43)
Input Vacuum mm H ₂ O (in H ₂ O)	50.8 (2.0)
Input Vacuum Flow SLPM (SCFM)	8.2 (0.29)
Substrate Fly Height Range microns (in)	20 - 120 (0.0008 - 0.0047)
Fly Height Control microns (μ in)	±5 (197)
Air Film Stiffness N/micron (lbs/μ in)	0.04 (0.21)
Stability nanometers (μ in)	±5 (0.2)
Conveyor Air Bearing Size - Length mm (in)	500 (19.69)
Conveyor Air Bearing Size - Width mm (in)	100 (3.94)
Conveyor Air Bearing Size - Height mm (in)	42.85 (1.69)
Conveyor Air Bearing Weight kg (lbs)	2.15 (4.70)
Housing Material/Finish	aluminum/anodized
Porous Media Material	carbon
Bearing Face Surface Size - Carbon mm (in)	100 x 500 (3.94 x 19.69)
Bearing Face Surface Flatness mm (in)	0.025 (0.001)
Air Supply	bottom mounted manifold
Vacuum Supply	bottom mounted
Viable Pressure Range kPa (psi)	3.48 - 275.79 (0.5 - 40.0)
Maximum Allowable Pressure Supply kPa (psi)	275.79 (40.0)
Substrate Size	up through Gen 10 and beyond
Substrate Thickness mm (in)	0.3 and up (0.0118 and up)
Maximum Substrate Speed m/sec (ft/sec)	2.5 (8.2)

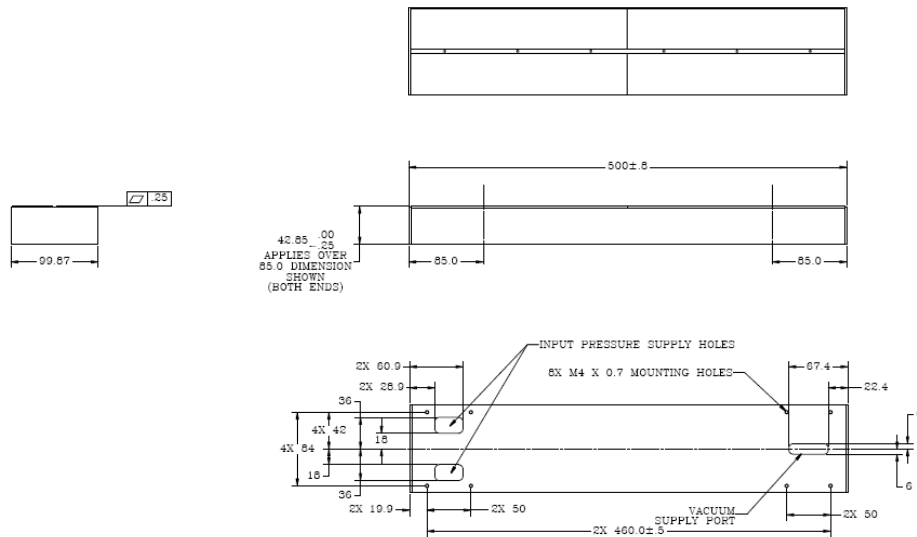
TEST DATA - 500mm C-Series Conveyor Air Bearing



C-SERIES CONVEYOR AIR BEARING

500mm

ENGINEERING DRAWINGS



MOUNTING DETAILS

FPD Conveyor Mounting Feet Kit - S22100K001

These anodized aluminum mounting feet are designed for use with New Way conveyor air bearings. Packaged in sets of two, they allow for easy installation, with o-ring seals and adjustable jack screws for leveling.



COMPLETE NEW WAY C-SERIES CONVEYOR AIR BEARING PRODUCT LINE



NEWWAY®
air bearings

50 McDonald Blvd., Aston, PA 19014 USA • Phone: 610-494-6700 • Fax: 610-494-0911
www.newwayairbearings.com • info@newwayairbearings.com

C-SERIES CONVEYOR AIR BEARING

750mm



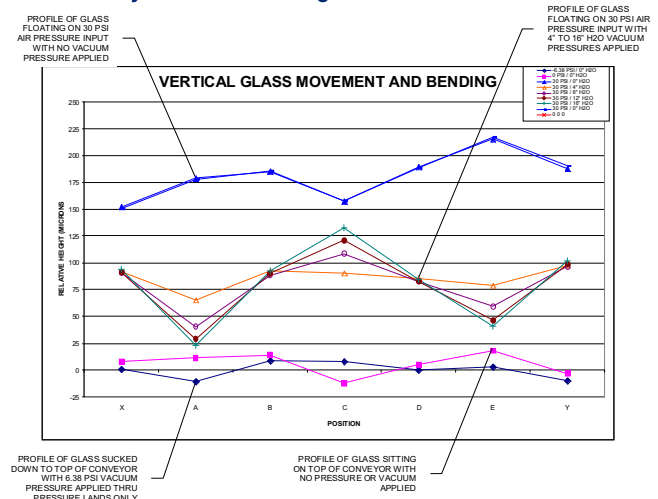
750mm C-Series Conveyor Air Bearing

The second-smallest in the New Way C-Series conveyor air bearing line, the 750mm size is proportioned for flexible and efficient use when building arrays required for all different glass generations. New Way Porous Media[®] Technology delivers controlled, non-contact glass handling capability for conveying, processing, and inspection applications. These modular components are available from stock and easy to install, level, plumb, maintain, replace and change.

SPECIFICATIONS: 750mm C-Series Conveyor #S22100C750

Fly Height Example microns (in)	80 (0.0032)
Input Pressure kPa (psi)	145 (21.0)
Input Pressure Flow SLPM (SCFM)	18.40 (0.65)
Input Vacuum mm H ₂ O (in H ₂ O)	50.8 (2.0)
Input Vacuum Flow SLPM (SCFM)	12.4 (0.44)
Substrate Fly Height Range microns (in)	20 - 120 (0.0008 - 0.0047)
Fly Height Control microns (μ in)	±5 (197)
Air Film Stiffness N/micron (lbs/μ in)	0.04 (0.21)
Stability nanometers (μ in)	±5 (0.2)
Conveyor Air Bearing Size - Length mm (in)	750 (29.53)
Conveyor Air Bearing Size - Width mm (in)	100 (3.94)
Conveyor Air Bearing Size - Height mm (in)	42.85 (1.69)
Conveyor Air Bearing Weight kg (lbs)	3.23 (7.10)
Housing Material/Finish	aluminum/anodized
Porous Media Material	carbon
Bearing Face Surface Size - Carbon mm (in)	100 x 750 (3.94 x 29.53)
Bearing Face Surface Flatness mm (in)	0.025 (0.001)
Air Supply	bottom mounted manifold
Vacuum Supply	bottom mounted
Viable Pressure Range kPa (psi)	3.48 - 275.79 (0.5 - 40.0)
Maximum Allowable Pressure Supply kPa (psi)	275.79 (40.0)
Substrate Size	up through Gen 10 and beyond
Substrate Thickness mm (in)	0.3 and up (0.0118 and up)
Maximum Substrate Speed m/sec (ft/sec)	2.5 (8.2)

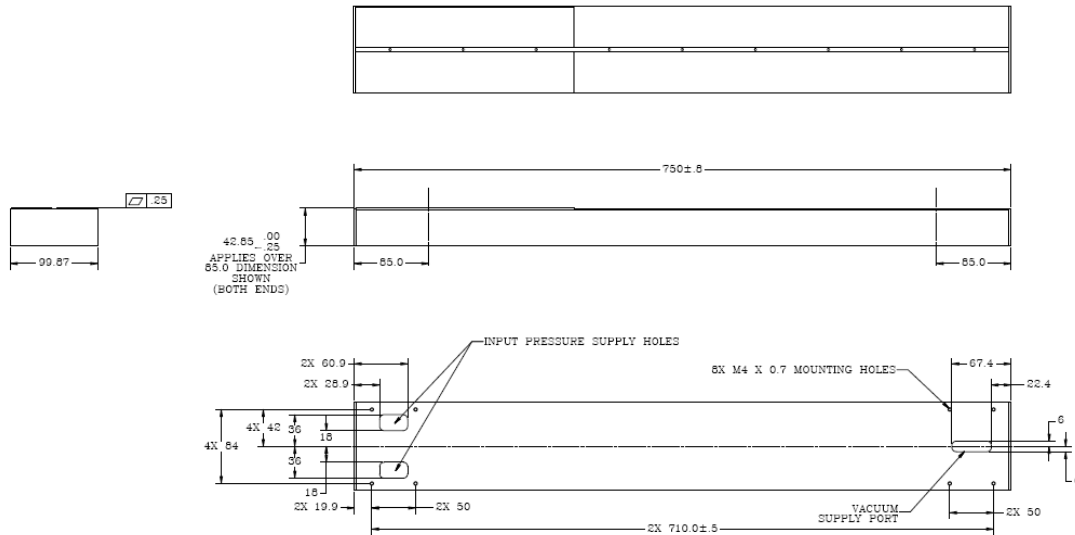
TEST DATA - 750mm C-Series Conveyor Air Bearing



C-SERIES CONVEYOR AIR BEARING

750mm

ENGINEERING DRAWINGS



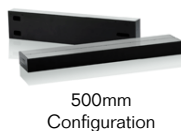
MOUNTING DETAILS

FPD Conveyor Mounting Feet Kit - S22100K001

These anodized aluminum mounting feet are designed for use with New Way conveyor air bearings. Packaged in sets of two, they allow for easy installation, with o-ring seals and adjustable jack screws for leveling.



COMPLETE NEW WAY C-SERIES CONVEYOR AIR BEARING PRODUCT LINE



500mm
Configuration



750mm
Configuration



1000mm
Configuration



1250mm
Configuration

NEWWAY[®]
air bearings

50 McDonald Blvd., Aston, PA 19014 USA • Phone: 610-494-6700 • Fax: 610-494-0911
www.newwayairbearings.com • info@newwayairbearings.com

C-SERIES CONVEYOR AIR BEARING

1000mm



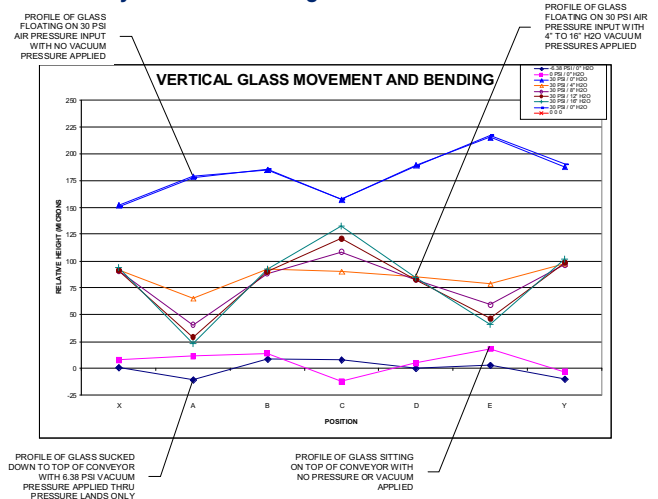
1000mm C-Series Conveyor Air Bearing

Second largest of the New Way C-Series conveyor air bearing line, the 1000mm size provides a long-profile alternative for engineers arranging component parts in arrays for the very largest glass generations. New Way Porous Media® Technology delivers controlled, non-contact glass handling capability for conveying, processing, and inspection applications. These modular components are available from stock and easy to install, level, plumb, maintain, replace and change.

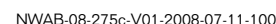
SPECIFICATIONS: 1000mm C-Series Conveyor #S22100C1000

Fly Height Example microns (in)	80 (0.0032)
Input Pressure kPa (psi)	145 (21.0)
Input Pressure Flow SLPM (SCFM)	24.50 (0.86)
Input Vacuum mm H ₂ O (in H ₂ O)	50.8 (2.0)
Input Vacuum Flow SLPM (SCFM)	16.5 (0.58)
Substrate Fly Height Range microns (in)	20 - 120 (0.0008 - 0.0047)
Fly Height Control microns (μ in)	±5 (197)
Air Film Stiffness N/micron (lbs/μ in)	0.04 (0.21)
Stability nanometers (μ in)	±5 (0.2)
Conveyor Air Bearing Size - Length mm (in)	1000 (39.37)
Conveyor Air Bearing Size - Width mm (in)	100 (3.94)
Conveyor Air Bearing Size - Height mm (in)	42.85 (1.69)
Conveyor Air Bearing Weight kg (lbs)	4.31 (9.5)
Housing Material/Finish	aluminum/anodized
Porous Media Material	carbon
Bearing Face Surface Size - Carbon mm (in)	100 x 1000 (3.94 x 39.37)
Bearing Face Surface Flatness mm (in)	0.025 (0.001)
Air Supply	bottom mounted manifold
Vacuum Supply	bottom mounted
Viable Pressure Range kPa (psi)	3.48 - 275.79 (0.5 - 40.0)
Maximum Allowable Pressure Supply kPa (psi)	275.79 (40.0)
Substrate Size	up through Gen 10 and beyond
Substrate Thickness mm (in)	0.3 and up (0.0118 and up)
Maximum Substrate Speed m/sec (ft/sec)	2.5 (8.2)

TEST DATA - 1000mm C-Series Conveyor Air Bearing



1000mm



C-SERIES CONVEYOR AIR BEARING

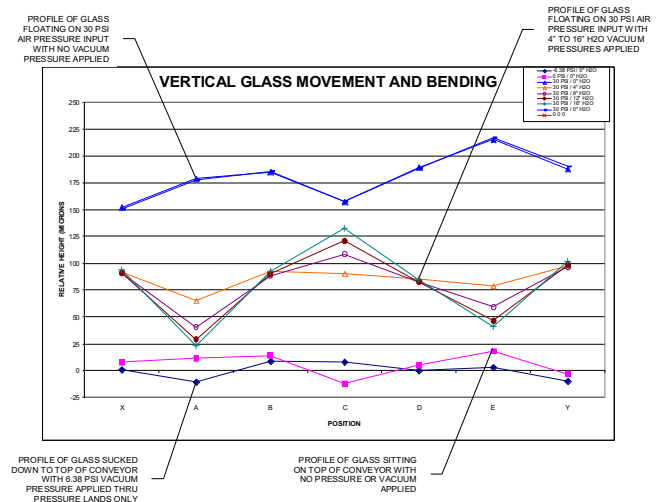
1250mm



1250mm C-Series Conveyor Air Bearing

Largest of the New Way C-Series conveyor air bearing line, the 1250mm size provides the length necessary for maximum efficiency when building the arrays required for the largest glass generations. New Way Porous Media[®] Technology delivers controlled, non-contact glass handling capability for conveying, processing, and inspection applications. These modular components are available from stock and easy to install, level, plumb, maintain, replace and change.

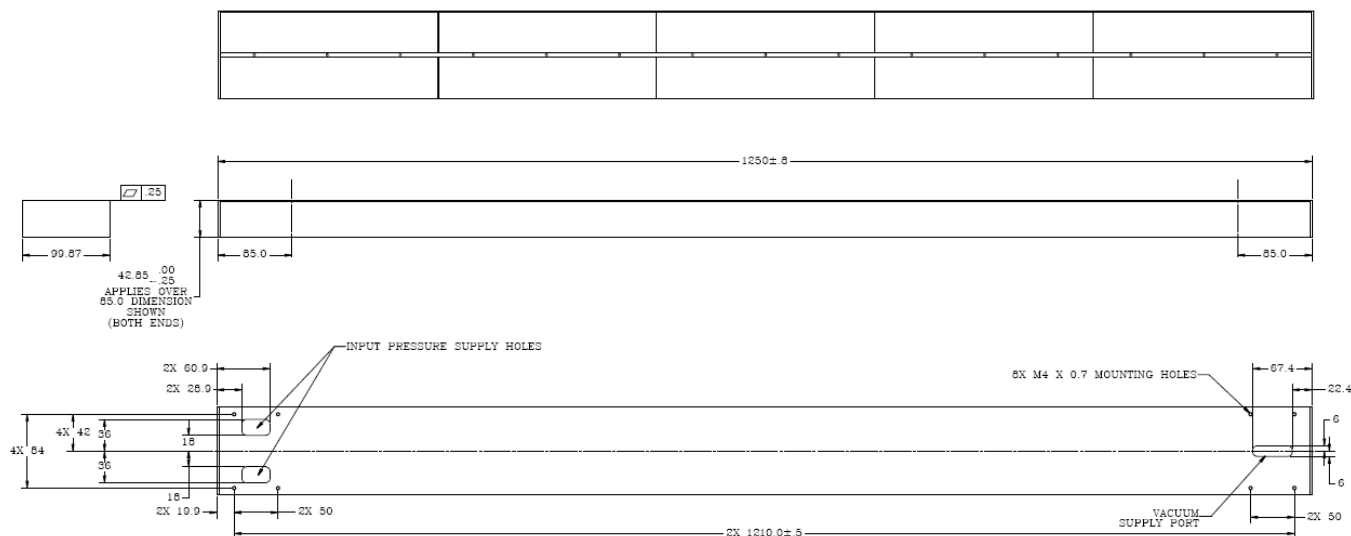
SPECIFICATIONS: 1250mm C-Series Conveyor #S22100C1250	
Fly Height Example microns (in)	80 (0.0032)
Input Pressure kPa (psi)	145 (21.0)
Input Pressure Flow SLPM (SCFM)	30.6 (1.08)
Input Vacuum mm H ₂ O (in H ₂ O)	50.8 (2.0)
Input Vacuum Flow SLPM (SCFM)	20.6 (0.73)
Substrate Fly Height Range microns (in)	20 - 120 (0.0008 - 0.0047)
Fly Height Control microns (μ in)	±5 (197)
Air Film Stiffness N/micron (lbs/μ in)	0.04 (0.21)
Stability nanometers (μ in)	±5 (0.2)
Conveyor Air Bearing Size - Length mm (in)	1250 (49.21)
Conveyor Air Bearing Size - Width mm (in)	100 (3.94)
Conveyor Air Bearing Size - Height mm (in)	42.85 (1.69)
Conveyor Air Bearing Weight kg (lbs)	5.39 (11.9)
Housing Material/Finish	aluminum/anodized
Porous Media Material	carbon
Bearing Face Surface Size - Carbon mm (in)	100 x 1250 (3.94 x 49.21)
Bearing Face Surface Flatness mm (in)	0.025 (0.001)
Air Supply	bottom mounted manifold
Vacuum Supply	bottom mounted
Viable Pressure Range kPa (psi)	3.48 - 275.79 (0.5 - 40.0)
Maximum Allowable Pressure Supply kPa (psi)	275.79 (40.0)
Substrate Size	up through Gen 10 and beyond
Substrate Thickness mm (in)	0.3 and up (0.0118 and up)
Maximum Substrate Speed m/sec (ft/sec)	2.5 (8.2)



C-SERIES CONVEYOR AIR BEARING

1250mm

ENGINEERING DRAWINGS



MOUNTING DETAILS

FPD Conveyor Mounting Feet Kit - S22100K001

These anodized aluminum mounting feet are designed for use with New Way conveyor air bearings. Packaged in sets of two, they allow for easy installation, with o-ring seals and adjustable jack screws for leveling.



COMPLETE NEW WAY C-SERIES CONVEYOR AIR BEARING PRODUCT LINE



500mm
Configuration



750mm
Configuration



1000mm
Configuration



1250mm
Configuration

NEWWAY[®]
air bearings

50 McDonald Blvd., Aston, PA 19014 USA • Phone: 610-494-6700 • Fax: 610-494-0911
www.newwayairbearings.com • info@newwayairbearings.com