



**Precision-Aire™**  
Table Top Platforms  
& Isolation Tables

# Precision-Aire™ Pneumatic Isolation Tables

## Fabreeka Pneumatic Isolation Tables



The Precision-Aire™ series table provides a self-leveling work surface and low frequency isolation in laboratories, cleanrooms and inspection areas where footfall and structural vibration can decrease performance, reliability and accuracy.

The tables are designed to support payloads of 100 to 1200 kilograms. A range of sizes and work surface options are available. The tables require a continuous air supply of no more than 7 bar.

The work surface is isolated by four pneumatic isolators which have a vertical and horizontal natural frequency of 1.5 Hz. Leveling valves provide accurate, repeatable leveling of the work surface.

The pneumatic isolators utilize laminar flow damping which improves settling after movement and stability for varying load conditions.

## Applications

### Microscopy

- Video/Optical
- Atomic Force
- Scanning Probe
- Electron

### Biomedical

- Cell Injection/  
Manipulation
- Invitro Fertilization
- Electrophysiology
- Neuro Analysis

### Semiconductor

- Video/Optical
- Atomic Force
- Scanning Probe
- Electron

### Metrology

- Video/Optical
- Atomic Force
- Scanning Probe
- Electron



### Table Tops

Work surface options include stainless steel, plastic laminate and stainless steel breadboard with mounting holes. The plastic laminate and stainless steel surface construction includes a highly damped epoxy to reduce "ringing" of the steel support plate. These tops are available in 25mm and 50mm thicknesses. The breadboard work surface is 50mm thick and features sealed M6 mounting holes on 25mm centers. All table tops can be supplied with custom hole patterns and camera/laser ports for OEM applications.



### Accessories

Accessories available with the isolation tables are listed on the opposite page. Tables can be supplied with arm rest pads, sliding shelves, enclosures, casters and front and rear lean bars.

Front and rear lean bars are required for use with sliding shelves and enclosures.

Environmental enclosures are made of black or clear acrylic within a sturdy aluminum frame, which mounts directly to the lean bars. Hinged doors and/or cable ports are provided for equipment access. Light-tight enclosures are available upon request.

Faraday cages shield 60 Hz - 50 Hz unwanted electromagnetic interference (EMI) radiating from lab instrument sources. Design features include easily removable panels, hinged front panels, cable access holes, a 1220 mm height and a 750 x 750 copper wire mesh. Special sizes are available upon request.



# General Specifications

Standard tables are shown; however, custom dimensions are available to meet your application requirements.

**Natural Frequency:** Vertical 1.5 Hz - Horizontal 1.5 Hz

**Damping:** Vertical 9% - Horizontal 9% *Adjustable Vertical Damping is available upon request.*

**Finish:** Black Textured - Paint

Isolation Table (all tables 760mm high)	750x750mm	750x900mm	750x1200mm	750 x 1500mm
<b>Standard Models</b>				
Max. Payload* Kg	380	380	330	290
<i>Work Surface:</i>				
25mm Stainless Steel	PAT 4000-11	PAT 4001-11	PAT 4002-11	PAT 4003-11
50mm Stainless Steel	PAT 4000-12	PAT 4001-12	PAT 4002-12	PAT 4003-12
25mm Plastic Laminate	PAT 4000-13	PAT 4001-13	PAT 4002-13	PAT 4003-13
50mm Plastic Laminate	PAT 4000-14	PAT 4001-14	PAT 4002-14	PAT 4003-14
50mm Breadboard with Sealed Mounting Holes	PAT 4000-15	PAT 4001-15	PAT 4002-15	PAT 4003-15
<b>High Capacity Models</b>				
Max. Payload* Kg	1170	1170	1120	1080
<i>Work Surface:</i>				
25mm Stainless Steel	PAT 4009-11	PAT 4010-11	PAT 4011-11	PAT 4012-11
50mm Stainless Steel	PAT 4009-12	PAT 4010-12	PAT 4011-12	PAT 4012-12
25mm Plastic Laminate Top	PAT 4009-13	PAT 4010-13	PAT 4011-13	PAT 4012-13
50mm Plastic Laminate Top	PAT 4009-14	PAT 4010-14	PAT 4011-14	PAT 4012-14
50mm Breadboard with Sealed Mounting Holes	PAT 4009-15	PAT 4010-15	PAT 4011-15	PAT 4012-15

## Options and Accessories

1220mm high Faraday Cage	PAT 4021
1220mm high Acrylic Enclosure	PAT 4005
Armrest for Lean Bar	PAT 8037
Lean Bar	PAT 8038
Sliding Equip Shelf (250mm wide)	PAT 8039
Fixed Equip Shelf (250mm wide)	PAT 8040
Casters (Set of 4)	PAT 8035
Ultra Quiet Air Compressor	PAT 8036

\*Note: Maximum payload @7 bar using 25mm thick work surface. Consult Fabreeka for tabletop thickness based on equipment weight, center of gravity and stability requirements.



# Precision-Aire™ ISO Tab-L Series

## Precision-Aire™ ISO Tab-L Series



Work surfaces available include polished granite, polished stainless steel and black anodized aluminum. The ISO Tab-L's are available in four sizes.



ISO Tab-L tabletop platforms are ideal for desktops in laboratories and Q.C. rooms, where they effectively isolate structural and floor vibration. Isolation is provided in the vertical and horizontal axes by pneumatic isolators located beneath the work surface. A protective shroud is supplied with all models which is isolated from the working surface and protects the system from accidental jarring.

The compact design of the ISO Tab-L enables a working height of 75 to 95 mm and will support and isolate precision instruments weighing between 22 Kg and 405 Kg. Each model ISO Tab-L requires an air supply of no more than 4 bar, and access to inflate/deflate the isolators is provided by convenient ports located on the side of each system.

Leveling of the table surface is performed via the regulator control units with air supplied from a manual pump or a dedicated source. The pressure at each isolator can be adjusted manually to accommodate changes in load distribution.

## Applications

- Microscopes
- Surface Analysis
- Roundness / Roughness Measurement
- Hardness Testers
- Analytical Balances
- Precision Scales
- Audio (Hi-Fi) Equipment

# General Specification

Standard tables are shown; however, custom dimensions are available to meet your application requirements.

**Natural Frequency:** Vertical 3.0 Hz - Horizontal 4.0 Hz

**Finish:** Granite Series - Polished Aluminum Series - 25 RMS Stainless Steel Series - Brushed Matte

**Flatness:** ± 0.13mm

G Series Model No	Size in mm	No. of Isolators*	Load Capacity Kg	Weight Kg
ISO-13G	300 x 450 x 95	3	90	15
ISO-23G	450 x 450 x 95	3	90	33
ISO-24G	450 x 450 x 95	4	135	33
ISO-33G	450 x 600 x 95	3	90	40
ISO-34G	450 x 600 x 95	4	135	40
ISO-43G	600 x 900 x 95	3	90	60
ISO-44G	600 x 900 x 95	4	135	60
ISO-53G	600 x 900 x 95	3	315	60
ISO-54G	600 x 900 x 95	4	405	60

A Series Model No	Size mm	No. of Isolators*	Load Capacity Kg	Weight Kg
ISO-13A	300 x 450 x 76	3	135	55
ISO-23A	450 x 450 x 76	3	135	11
ISO-24A	450 x 450 x 76	4	158	11
ISO-33A	450 x 600 x 76	3	135	13.5
ISO-34A	450 x 600 x 76	4	158	13.5
ISO-43A	600 x 900 x 76	3	135	30.5
ISO-44A	600 x 900 x 76	4	158	30.5
ISO-53A	600 x 900 x 76	3	180	30.5
ISO-54A	600 x 900 x 76	4	225	30.5

SS Series Model No	Size mm	No. of Isolators*	Load Capacity Kg	Weight Kg
ISO-13SS	300 x 450 x 95	3	90	14
ISO-23SS	450 x 450 x 95	3	90	32
ISO-24SS	450 x 450 x 95	4	135	32
ISO-33SS	450 x 600 x 95	3	90	38
ISO-34SS	450 x 600 x 95	4	135	38
ISO-43SS	600 x 900 x 95	3	90	58
ISO-44SS	600 x 900 x 95	4	135	58
ISO-53SS	600 x 900 x 95	3	315	58
ISO-54SS	600 x 900 x 95	4	405	58

\* Consult Fabreeka with special load distribution applications

**World Headquarters**  
**Fabreeka International Inc.**  
 PO Box 210  
 1023 Turnpike Street  
 Stoughton, MA 02072  
 Tel: 1 (800) 322-7352  
 Tel: 1 (781) 341-3655  
 Fax: 1 (781) 341-3983  
 E-mail: info@fabreeka.com

**Canada**  
**Fabreeka Canada Ltd**  
 2907 Portland Drive  
 Oakville  
 ON L6H 5S4  
 Tel: 1 (800) 322-7352  
 Fax: 1 (781) 341-3983  
 E-mail: info@fabreeka.com

**Holland**  
**Fabreeka BV Holland**  
 Molenwerf 12  
 Postbus 133  
 1910 AC Uitgeest  
 Tel: 31 - (0)2513 20305  
 Fax: 31 - (0)2513 12830  
 E-mail: info@fabreeka.nl

**Germany**  
**Fabreeka GmbH Deutschland**  
 Hessenring 13  
 Postfach 1103 (D-64570)  
 D-64572 Büttelborn  
 Tel: 49 - (0)6152-9597-0  
 Fax: 49 - (0)6152-9597-40  
 E-mail: info@fabreeka.gg.uunet.de

**England**  
**Fabreeka International Inc.**  
 8 - 12 Jubilee Way  
 Thackley Old Road Shipley  
 West Yorkshire BD18 1QG  
 Tel: 44 - (0)1274 531333  
 Fax: 44 - (0)1274 531717  
 E-mail: info@fabreeka-uk.com