

High-Performance Lab Tables



These high-performance lab tables provide an excellent vibration-free working surface for loads up to 160 kg (350 lbs). With modular construction, these tables are recommended for use in such diverse applications as electrophysiology, cell injection, ultramicroscopy, photomicroscopy, scanning tunnel microscopy and confocal laser scanning microscopy.

The Gimbal Piston Isolators have been proven by independent tests to consistently outperform the competition. It achieves both horizontal and vertical isolation down to very low input levels, see Specifications to the right.

The thin-wall, dacron-reinforced, rolling diaphragm is an integral part of the Gimbal Piston. The extremely flexible air seals are only 0.5 mm (0.02 in) thick, which do not stiffen the spring as thicker rubber diaphragms do.

All Tables are equipped with rugged all-brass height control valves. Virtually unbreakable, they are finger adjustable with no need for tools. Valves are tested before and after table assembly for leaks and return accuracy. The Table maintains height to ± 1 mm (± 0.050 in).

The internal piston travel restraints are husky and tamper-proof. They are completely indepen-

dent of the table valves, and have been ram-tested at several times the force produced by pistons operating at full pressure. They cannot be decoupled accidentally and do not interfere with setting up and using the table, but simply protect against overtravel, without the use of external bars that create hazardous pinch points. Heavy loads, including the top plate, can be safely removed from a table in full operation.

Tiebar gussets increase table rigidity and compensate for the elimination of the front tiebar in order to provide kneewell space.

Table legs include built-in fine-thread 75 mm (3 in) diameter screw jack levelers with 13 mm (0.5 in) travel, a provision for external adjustment and a handy adjustment wrench. The base is a solid, slightly domed shape to assure solid, wobble-free contact with sloping or irregular floors.

These high-performance lab tables are available with three different tops: stainless steel laminate, plastic laminate on stainless steel and CleanTop II Honeycomb. The Stainless Steel Laminate top provides a ferromagnetic working surface with highly dampened, high stiffness construction. It is recommended for applications that require a

- For Use in Electrophysiology, Cell Injection, Ultramicroscopy, Photomicroscopy, Scanning Tunnel Microscopy and Confocal Laser Scanning Microscopy
- Provide excellent vibration-free working surface
- For loads up to 160 kg (350 lbs)
- Choice of three surface materials
 - Stainless steel laminate
 - Plastic laminate on stainless steel
 - CleanTop II with either 1/4-20 Holes or M6 Holes

strong magnetic attachment and will not involve repeated exposure of the top to corrosive liquids. However, stains from such liquids can be removed with an industrial strength stainless steel cleaner.

The Plastic Laminate on Stainless Steel top is an easy-to-clean alternative to stainless steel, without sacrificing structural performance. The plastic laminate is added to the top surface reducing ferromagnetic attachment strength.

The 100 mm (4 in) thick CleanTop II features a patented spill-proof, drilled and tapped mounting hole array. These tops are available with either 1/4 - 20 holes on 1 in spacing or M6 holes on 25 mm spacing. The small cell-size steel honeycomb design provides even stiffer and better dampening than the Stainless Steel Laminate.

Specifications

Net Load Capacity 160 kg (350 lb)

Isolation Efficiency:

Vertical at 5 Hz 60 to 95%

Horizontal at 5 Hz 30 to 80%

Vertical at 10 Hz 80 to 97%

Horizontal at 10 Hz 60 to 94%

Facilities Required 80 psi Nitrogen or Air

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Table Top Dimensions, W x L	Frame Only	Stainless Steel Laminate	Plastic Laminate Stainless Steel	CleanTop II Honeycomb With	
				1/4-20 Holes	M6 Holes
62.5 x 90 cm (25 x 36 in)	CGS8330.41	CGS8323.41	CGS8316.41	—	—
75 x 75 cm (30 x 30 in)	CGS8329.41	CGS8322.41	CGS8315.41	—	—
75 x 90 cm (30 x 36 in)	CGS8328.41	CGS8321.41	CGS8314.41	CGS8309.41	CGS8304.41
75 x 120 cm (30 x 48 in)	CGS8327.41	CGS8320.41	CGS8313.41	CGS8308.41	CGS8303.41
75 x 150 cm (30 x 60 in)	CGS8326.41	CGS8319.41	CGS8312.41	CGS8307.41	CGS8302.41
90 x 120 cm (36 x 48 in)	CGS8325.41	CGS8318.41	CGS8311.41	CGS8306.41	CGS8301.41
90 x 150 cm (36 x 60 in)	CGS8324.41	CGS8317.41	CGS8310.41	CGS8305.41	CGS8300.41