

## **Optical Table with Active Isolation**

Table width	> 1.2 m
Table length	> 2.5 m
Table Thickness	> 20 cm
Flatness of Top Skin	±0.1 mm Over Any 1 m
Construction	Symmetrical Isotropic Construction in All Axes
Top and Bottom Plates	> 2 mm Thick Stainless Steel
Core Construction	High-Density Plated Steel Honeycomb, > 0.2 mm Thick
Damping	Broadband Damping
Legs	> 50 cm
Threads and spacing	M6 Tapped Holes on 25 mm Centers
Maximum Dynamic Deflection Coefficient	< $0.5 \times 10^{-3}$
Maximum Relative Tabletop Motion	< 0.15 nm
Deflection Under Load (Stiffness)	< 1.5 µm for a 150 kg load
<b>Isolation</b>	<b>Active isolation</b>
Vertical Resonant Frequency	< 1.5 Hz
Horizontal Resonant Frequency	< 1.5 Hz
Vertical Transmissibility at Resonance	< 10 dB
Horizontal Transmissibility at Resonance	< 15 dB
Vertical Transmissibility at 5Hz	-20 dB (90%)
Horizontal Transmissibility at 5Hz	-24 dB (94%)
Vertical Transmissibility at 10Hz	-32.5 dB (97.5%)
Horizontal Transmissibility at 10Hz	-30 dB (97%)
Maximum Load Capacity (set of four)	> 2000 kg
Height Adjustment Range	Better than -10 mm, +5 mm
Self Leveling Repeatability	± 0.5 mm
Height	> 500 mm
Air Pressure (Maximum)	80 psi (551 kPa)
Warranty	3 Years