

*Quiet Work Surfaces for Precision Research & Manufacturing*



***NEW***

## **83-500 Series Multi-Purpose Acoustic Enclosure**

**For Microscopes, AFMs and  
Other Small Precision Instruments**



***TMC introduces the 83-500 Series Acoustic Enclosure.  
A robust, floor-mounted acoustic enclosure that is compatible  
with TMC's line of TableTop™ Vibration Isolation Systems.***

## 83-500 Series ***NEW***

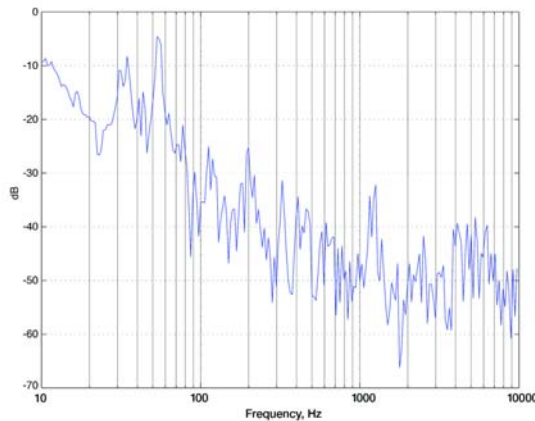
### Multi-Purpose Acoustic Enclosure



TMC has offered custom acoustic enclosures for our equipment maker customers for many years. These enclosures are highly engineered and uniquely suited to the specific tool being isolated.

End-users, however, were placed in a position of having to design their own acoustic enclosures for their unique applications. Given the level of design involved, this was impractical. Demand arose for a standard, “off-the-shelf” TMC enclosure incorporating many of the features of our custom enclosures with the practicality of a single, multi-purpose design. The 83-500 Series Acoustic Enclosure was designed as this multi-purpose acoustic enclosure.

#### Acoustic Transmissibility



#### Features & Benefits

- ▶ Steel exterior with powder-coated finish
- ▶ Acoustic attenuation, up to 40 dB
- ▶ Isolators compatible with TMC line of active or passive table top vibration isolation systems
- ▶ Hinged side panels, glass window, and casters
- ▶ Self-opening front panel retracts away from operator
- ▶ Robust handle and latch ensure comfort and ease of use



83-500 Series Multi-Purpose Acoustic Enclosure shown housing TableTop PZT™.

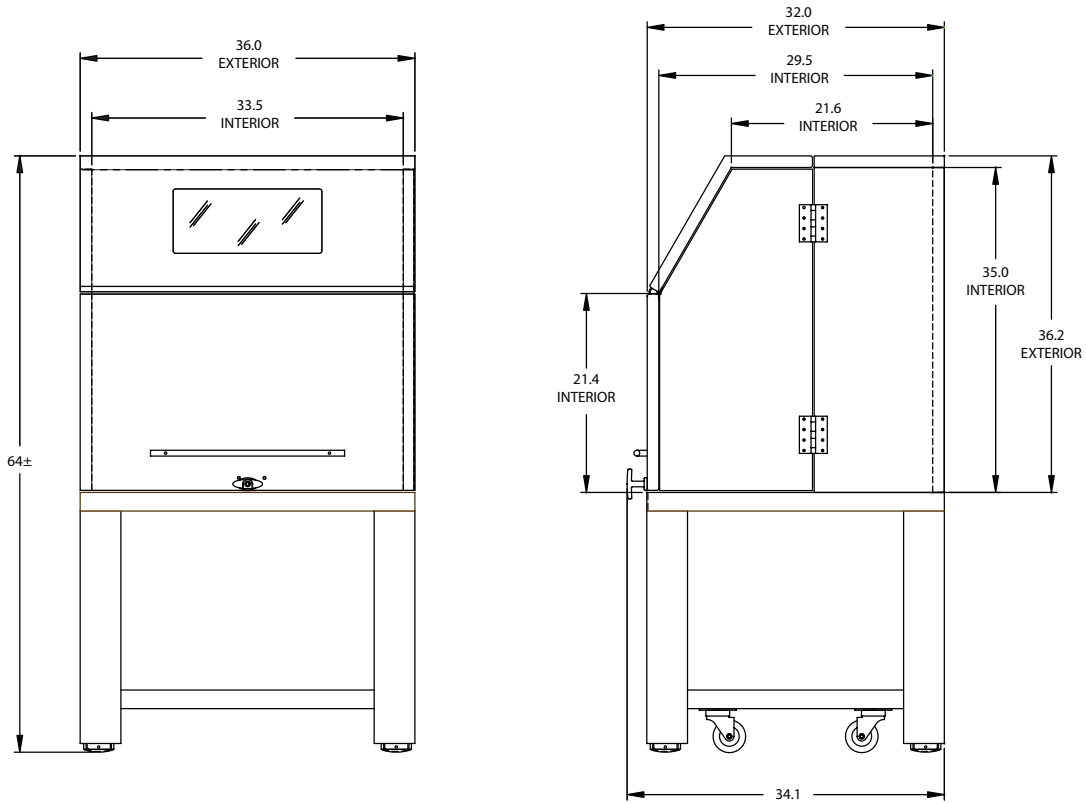


83-500 Series Multi-Purpose Acoustic Enclosure shown housing TableTop CSP®.

#### Acoustic Enclosure Ordering Chart

Model	Description	Width	Depth	Height	Pricing
83-501	Acoustic Enclosure	36 in.	32 in.	64 in.	Contact TMC

# Quiet Work Surfaces for Precision Research & Manufacturing



**For some applications, a custom acoustic enclosure may be necessary. This may demand a significant level of design and engineering. TMC can work with you to configure such a system tailored to your unique requirements.**

## **OEM and Custom Configurations**

**Integrated steel and stainless steel assemblies incorporating TMC's proprietary vibration and acoustic control techniques**



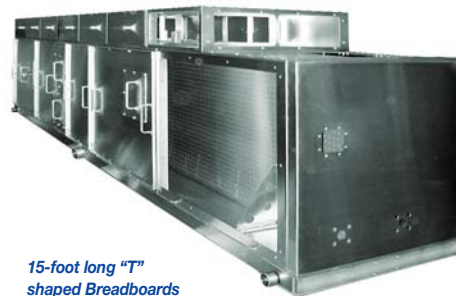
Full-size "Walk-in" Acoustic Enclosures



Acoustic Enclosure and Vibration Isolation System



Electropolished Stainless Steel Acoustic Enclosure with integrated TMC Electro-Damp® PLS Vibration Isolation System for Veeco Process Metrology AFM



15-foot long "T" shaped Breadboards with acoustic/emi/dust housings (Pre-Amplifier Modules for National Ignition Facility at LLNL).

# TMC Products AT-A-GLANCE

## Laboratory Tables & TableTop™ Platforms



63-500 SERIES  
High-Performance  
Lab Tables



63-500 SERIES  
with a SpaceSaver™  
Accessory



63-600 SERIES  
ClassOne™  
Workstations



68-500 SERIES  
High-Capacity  
Lab Tables



20 SERIES  
Active Vibration  
Isolation Tables



64 SERIES  
TableTop™  
Platforms



TableTop PZT™  
Active Hard-Mount Table  
Top Isolator



66 SERIES  
TableTop™ CSP™  
Pneumatic Vibration Isolation  
System

## Optical Tops, Breadboards, & Supports



780 SERIES  
CleanTop™ II Optical Tops



770 SERIES  
CleanTop™ II Optical Tops



790 SERIES  
ClassOne CleanTop™ II  
Optical Tops



710 SERIES  
Non-Magnetic  
CleanTop™ II Optical Tops



78 SERIES  
CleanTop™ II  
Breadboards 2 & 4 in.  
Thick (50, 100 mm)



77 SERIES  
CleanTop™ II  
Breadboards 2 & 4 in.  
Thick (50, 100 mm)



75 SERIES  
Lightweight  
Breadboards  
2 in. Thick (47 mm)



SYSTEM 1  
4-Post Systems with Tiebars



SYSTEM 1  
Free-Standing  
Individual Posts



Overhead  
Shelf



Joined Tables

## STACIS® Active Piezoelectric Vibration Cancellation System



STACIS® 2100  
Active Piezoelectric  
Vibration Cancellation System

## Floor Platforms for Raised & Solid Floors



Quiet Island®  
STACIS® 2100 Active Piezoelectric  
Vibration Cancellation System



FloorPlatform PZT™  
Active Hard-Mount Vibration  
Cancellation System



65 SERIES  
Floor Platforms

## Electro-Damp® Active Vibration Cancellation System



Electro-Damp® PZT  
Frame-Mountable Active Hard-Mount  
with Extended Stroke



Electro-Damp® II  
Active Pneumatic  
Vibration Damping  
System



Electro-Damp® PLS  
DSP Precision Leveling System



PEPS®  
Precision Electronic  
Positioning System



PEPS-VX®  
Vibration Cancellation  
Add-On for PEPS®



AccuDock™  
Precision Kinematic  
Docking System

## Pneumatic Vibration Isolators for OEM Applications



Gimbal Piston™  
Isolators  
Air Vibration  
Isolation System



CSP®  
Compact Sub-Hertz  
Pendulum Vibration  
Isolation System



MaxDamp®  
Vibration  
Isolation System



Mag-NetX™  
Magnetic Field Cancellation  
System



Type II  
Faraday Cages

## Magnetic Field Cancellation & Electric Field Shielding Systems

## Acoustic Enclosures & Precision Structures



83-500 Series  
Multi-Purpose  
Acoustic Enclosure



Full Size  
"Walk-In"  
Acoustic  
Enclosures



Acoustic Enclosure &  
Vibration Isolation  
Systems



Electropolished  
Stainless Steel  
Acoustic Enclosure  
With Integrated  
TMC Electro-Damp®  
PLS



"T" Shaped  
Breadboards  
with Acoustic /  
Emi / Dust  
Housings



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