

Vibration Solutions:
quiet work surfaces for precision
research and manufacturing

INSIDE

- TMC has extended its special offer with Siskiyou Design Instruments2
- TMC Introduces the CleanTop™ II DoubleDensity™ Optical Top1
- TableTop™ A-P – Vibration Isolation for small spaces1
- Our New 2003-2004 General Catalog features a complete and versatile line of precision vibration isolation systems in an easy-to-use format.2
- Ultratech Stepper chooses TMC for advanced vibration control3
- Custom configurations for complex vibration isolation requirements for OEM and precision research and manufacturing applications3

Visit us online @ www.techmfg.com for What's New including up-to-date product information.



continued from page 1

TMC Introduces the CleanTop™ II DoubleDensity™ Optical Top

The double-density top is the latest in TMC's long history of innovations in the optical top industry. Features include: twice the number of tapped holes as conventional one-inch or 25-mm grids (288 holes per foot², 3,200 holes per m²); twice the number of honeycomb cells (0.50 inch²) as our nearest competitor; the hole pattern is 1/4-20 on one-inch staggered centers or M6 on 25-mm staggered centers; and the core density is unchanged – the highest in the industry at 13.3 pounds per foot³. The double-density pattern is available with all TMC CleanTop II models.



TMC CleanTop™ II individual cups behind each hole



DoubleDensity™ pattern available with all CleanTop™ II models

NEW Faraday Cage options and features From TMC!

Type II Faraday Cage



- Optional "U"-shaped hanging shelf
- New 2 in. diameter holes for cable passage
- Optional non-isolated side shelf oriented front-to-rear
- Optional armrest pads are now available with Faraday Cages
- Full perimeter enclosure required to mount cage

BenchTop Faraday Cage

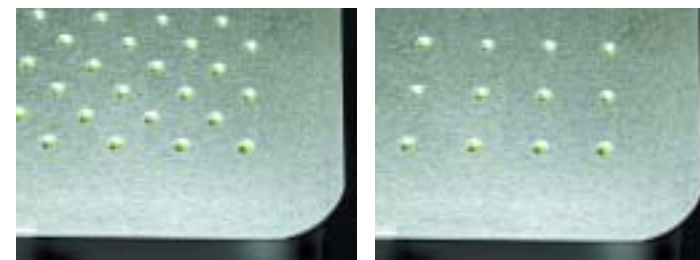


Stainless-steel baseplate
Bench-mounted cage does not require vibration isolation table.

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CleanTop™ II DoubleDensity™ construction (288 holes per ft²)

Standard TMC CleanTop™ II construction (144 holes per ft²)

TMC Introduces the CleanTop™ II DoubleDensity™ Optical Top, Doubling the Number of Tapped Holes

TMC has introduced the CleanTop™ II DoubleDensity™ optical top, offering twice the number of tapped holes as our existing CleanTop II optical tops. Doubling the number of holes allows more precise location of positioning equipment and reduces the need for adapter plates used for more sparse hole patterns.

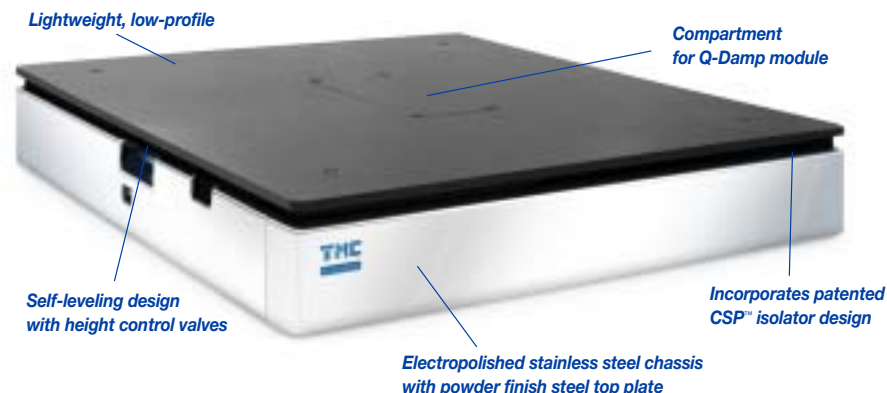
The new tops combine our existing uniquely small honeycomb cell size (0.50 inch²) with our patented CleanTop II individual sealed hole technology. And because the new tops use our existing honeycomb core design, which is twice the cell density of any of our competitors' products, there are absolutely no changes to any performance specifications.

continued on page 4

TableTop™ A-P – Vibration Isolation for Small Spaces

Our new TableTop™ A-P is a lightweight, modular vibration isolation system that combines exceptional low-frequency passive isolation with an optional Q-Damp™ active damping module. Its compact design (less than 50 pounds) is portable, and its passive vibration isolation is comparable to TMC's full-size industry standard 63-500 Series high-performance lab table.

continued on page 2



Lightweight, low-profile

Compartment for Q-Damp module

Self-leveling design with height control valves

Incorporates patented CSP™ isolator design

Electropolished stainless steel chassis with powder finish steel top plate

**NEW 2003-2004 TMC
CATALOG SHOWCASES
FULL LINE OF VIBRATION
ISOLATION
SOLUTIONS**



Our 2003-2004 General Catalog is now available, featuring the industry's most complete and versatile line of precision vibration isolation systems and their recommended applications.

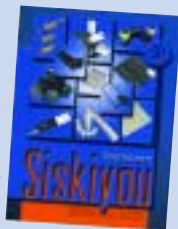
The 120-page color catalog presents the company's full product line in an easy-to-follow format. The comprehensive guide includes: a 26-page, detailed technical background section; optical tops, breadboards, and supports; laboratory tables and tabletop platforms; floor and sub-floor platforms and stands; state-of-the-art isolators; accessories; and standard and custom configurations.

The technical background section is a primer on precision floor vibration isolation. Included are insights into noise measurements, theoretical and practical application of passive and active vibration isolation systems, and an explanation of the specifications of table tops. This section is also available as a downloadable pdf file on TMC's web site, www.techmfg.com.

Special Siskiyou Offer Extended...

to TMC customers placing online domestic orders for Optical Tables, Breadboards and corresponding accessories through December 31, 2003. This promotion includes...

- ❑ all 75, 77, and 78 Series Breadboards
- ❑ all 710, 770, 780, and 790 Series Optical Tops
- ❑ all System 1 Modular Post Mount Supports (11-16 Series)
- ❑ all Optical Table accessories



When you purchase...

- ❑ \$2,500 in value of any of the above TMC products, you are entitled to a \$250 credit for positioning equipment or...
- ❑ \$5,000 in value of any of the above TMC products, you are entitled to a \$750 credit for positioning equipment or...
- ❑ \$10,000 in value of any of the above TMC products, you are entitled to a \$2,500 credit for positioning equipment through Siskiyou Design Instruments.

How it works...

- A. Customer places an order through TMC's web site.
- B. Once the order is placed, the customer is prompted to go to Siskiyou's web site.
- C. Customer completes Siskiyou's order for positioning equipment.
- D. Siskiyou ships complimentary goods only after TMC completes and ships the qualifying TMC product and receives payment in full from its customer.

Note: For complete details including terms and conditions see www.techmfg.com

continued from page 1

TableTop™ A-P – Vibration Isolation for Small Spaces

It offers the best vibration isolation solution when sensitive work is performed, such as scanning probe microscopy, bench-top metrology or interferometry, in a noisy, less than optimal work area. It is easily upgradeable to active damping, requiring 10 minutes and a screwdriver. The Q-Damp active damping module significantly improves the performance of the passive system by canceling the resonant amplification of the A-P's air isolator.

The patented TableTop A-P is compatible with TMC's BenchTop Faraday Cage. The newly designed, 40-inch-tall cage includes a baseplate of reinforced stainless steel that supports the compact A-P. The cage also features a "window-shade" type retracting panel and 2-inch diameter holes for cable passage.



Nikon TE-2000 on TableTop™ A-P. Photo courtesy of Micro Video Instruments

Ultratech Stepper Chooses TMC for Advanced Vibration Control

Ultratech Stepper, Inc. has chosen TMC's Electro-Damp® II Active Vibration Control System as the new platform for its 200 and 300 mm Saturn Spectrum and Titan Wafer Stepper family.



Ultratech Saturn Spectrum 300e. Photo courtesy of Ultratech Stepper, Inc.

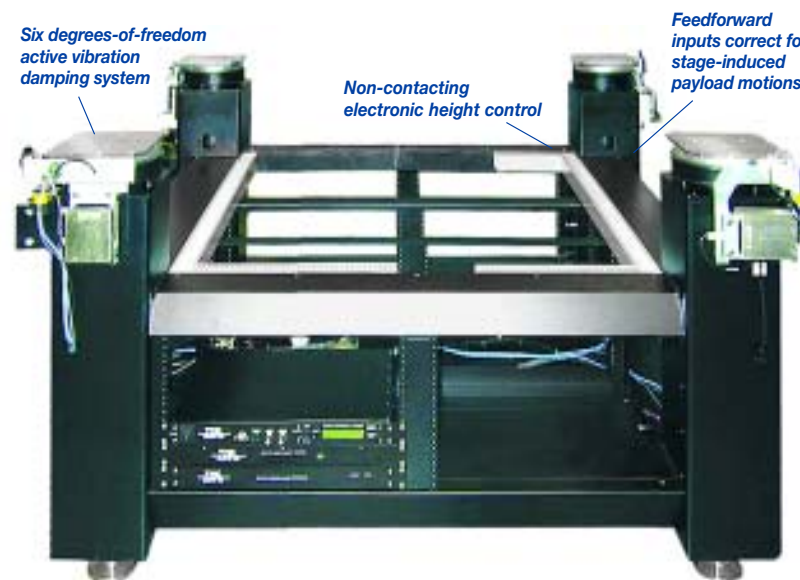
"We are extremely pleased to be partnered with Ultratech for their vibration control and stage feedforward cancellation requirements," said Ulf Heide, President of TMC. "At TMC, we have been providing advanced vibration control solutions to stepper companies for over 20 years. Over that time, there has been an incredible growth in the needs of our customers and the sophistication of our solutions."

Ultratech plans to incorporate Electro-Damp® II into its steppers for semiconductor, advanced packaging, microlithography, nanotechnology, and optical networking applications.

Each patented Electro-Damp® II system will include TMC's DC-2000 digital controller, non-contacting electronic valving system, Gimbal Piston™ isolators, and high force linear motors. The isolation system will be incorporated into a highly engineered frame, also made by TMC, which will be the foundation of the tool.

"We are very pleased that our technology, manufacturing capabilities, and products are such a perfect match for Ultratech," said Steve Ryan, V.P., Marketing, of TMC. "Steppers have consistently offered the greatest challenge to precision vibration control of any application we face."

Electro-Damp® II uses stage feedforward cancellation as well as active feedback to provide the low frequency vibration cancellation and fast settling time of stage-induced motion demanded by a state-of-the-art stepper.



**CUSTOM CONFIGURATIONS
FOR COMPLEX VIBRATION
ISOLATION REQUIREMENTS
FOR OEM AND
PRECISION RESEARCH
AND MANUFACTURING
APPLICATIONS**

In addition to a complete line of standard vibration isolation products, TMC also designs and manufactures custom products and systems for unusual vibration problems and for original equipment manufacturers.

With the technical expertise and experience of TMC's engineers and scientists dedicated to solving unusual vibration problems, coupled with our in-depth knowledge of metal fabrication, state-of-the-art manufacturing processes and more than 30,000 component and system assembly drawings, we can readily provide any custom configuration tailored to your special requirements.

Our design engineers are available to discuss and recommend the best solution to your vibration problem. Please contact us at 800-542-9725.

2003 TRADE SHOW SCHEDULE

- **Semicon West, San Francisco, CA**
July 14-16, 2003
- **M&M, San Antonio, TX**
August 4-7, 2003
- **Photonics East, Providence, RI**
October 28-30, 2003
- **Neuroscience, New Orleans, LA**
November 8-13, 2003