U.S. Patent No. 8,899,393
(Other Patents Pending)

TMC VIBRATION CONTROL

Everstill™ K-400

Active Vibration Cancellation Platform

Microscopy TODAY 2016 Innovation Award

The Everstill™ Advantage

Superior low frequency performance.
Starts to isolate at 0.7 Hz. Dramatic vibration cancellation, especially in the critical 1-10 Hz range.

Gainmatch™ (patent pending).
A switch allows users to easily choose between 3 gain settings. This ensures maximum vibration cancellation with assurance of stability for different user environments.

Patented active vibration cancellation technology.
Ideal for small, lightweight, ultra-precision instruments.

Active hard-mount.
No air. Robust plug and play design.

Advanced vibration sensor technology.
Incorporates geophone type velocity sensors for sub-Hz performance. Better low frequency sensitivity than accelerometers.

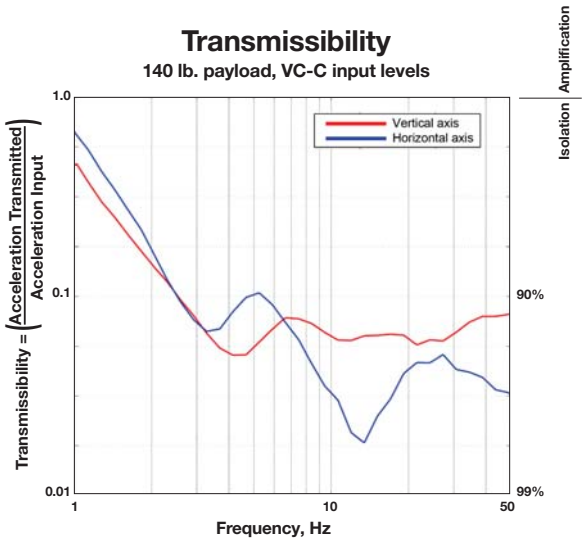
Enables higher resolution and more precise measurements

The patented Everstill™ K-400 is a benchtop vibration cancellation system which incorporates a "serial type" active architecture. This, combined with velocity sensors for enhanced, sub-Hz sensitivity, attains a dramatic level of low frequency vibration attenuation.

Designed to isolate ultra-precision instruments from building floor vibration down to below 1 Hz, the Everstill K-400 is ideal for optical microscopes, SPMs, and metrology instruments. With Gainmatch™ (patent pending), easily choose one of three gain settings to achieve optimal performance in your environment.

With technology evolving from TMC's STACIS® piezoelectric vibration cancellation, Everstill is an active hard-mount that cancels vibration starting at 0.7 Hz. Specifically designed for maximum low frequency performance, Everstill excels in the critical 1-10 Hz range where precision instruments tend to be the most sensitive.

The portable, compact design is ideally suited for easy installation on work benches and tables. The only input requirement is power from a standard AC outlet.



Caution! Be careful when comparing our performance to alternative designs. Our data is actual measured performance, not a model. Furthermore, the data is taken with only low-amplitude, micron level vibration as the excitation.

AMETEK®
ULTRA PRECISION TECHNOLOGIES

Specifications and Options

Everstill®

Specifications

Schematic architecture	Serial type active (actuator in series with isolator spring)
Vibration sensors	Geophone type velocity sensor (voltage proportional to velocity)
Leveling	Automatic. Repeatability: ± 0.02 in. (± 0.5 mm)
Dimensions (WxLxH)	16 x 20 x 4 in. | 400 x 500 x 100 mm
Weight	55 lbs. | 25 kg
Payload capacity	50 - 330 lbs. | 23 - 150 kg
Isolation performance	4 - 7 dB @ 1.0 Hz | 20 dB @ ≥2.5 Hz
Resonant frequency	0.6 Hz
Active vibration cancellation bandwidth	0.7 - 100 Hz
Facility requirement	90-220 VAC, 50/60 Hz
Power supply DoE rating	VI
Environmental and safety	CE and RoHS compliant
Transportation	Internal lock-out restraint
Top plate	Black anodized aluminum, with no holes, 1/4-20 or MG tapped holes

Everstill Ordering Chart

Catalog No.	Top Plate Hole Pattern
K-400	No Holes
K-400E	1/4-20 on 1 in. centers
K-400M	M6 on 25 mm centers

Accessories

Catalog No.	Description	Dimensions (WxLxH)
29-43240-01	*Load Plate (46 lbs. | 21 kg)* When payload is less than 50 lbs. (23 kg) this plate can be used for added weight	16 x 20 x 0.5 in. | 400 x 500 x 12 mm
29-43245-01	Basepad Provides kinematic support if the equipment payload doesn't have its own	16 x 20 x 0.03 in. | 400 x 500 x 0.8 mm
1163K-7512S	*CleanBench for Everstill K-series* 1.2 m long laboratory table designed specifically to support and enable the active serial technology unique to Everstill.	29.5 x 47.25 x 29.5 in. | 750 x 1200 x 750 mm
1163K-7590S	*CleanBench for Everstill K-series* 0.9 m long laboratory table designed specifically to support and enable the active serial technology unique to Everstill.	29.5 x 35.4 x 29.5 in. | 750 x 900 x 750 mm
83-501	*Multi-Purpose Acoustic Enclosure* Steel structure that provides acoustic attenuation up to 40 dB	32 x 36 x 64 in. | 813 x 914 x 1626 mm

TMC VIBRATION CONTROL™

Distribution in the UK & Ireland

Lambda

Characterisation, Measurement & Analysis

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