

## **IDE's TAW Machine Base Isolators Achieve 10 Years Of Outstanding Performance Serving The World's Most Advanced Cleanrooms**

Raunheim, Germany - Now setting a ten year record of exceptional performance, IDE's TAW vibration isolators are specifically designed, fully certified, and continuously upgraded for cleanrooms worldwide. The system has been proven countless times to deliver highly optimized passive and active isolation.

The TAW is considered by many to be the primary vibration isolation system for CD-SEMs, E-beam lithography, ultra-sensitive semiconductor tools and sophisticated inspection equipment. Today, the TAW continues to meet the ever-increasing demands of IDE's world-class customers.

Recently, IDE installed TAW isolators on a number of unique mask qualification systems for the world's largest semiconductor chip manufacturer. Here, the IDE TAW systems met, without compromise, all the of the customer's stringent X, Y, and Z requirements ( $<3.1$  ( $\mu\text{m}/\text{sec}$ )rms, 8-100 Hz). In the past year, several distinguished microscope brands have selected the TAW for highly dependable performance, joining a long list of satisfied users.

The streamlined architecture of IDE's TAW isolation system provides for straightforward, seamless, time- and labor-saving installation.

TAW is high bandwidth control technology. Typically, four TAW isolation modules are integrated into an isolation base for extremely heavyweight equipment. The TAW system is installed on the concrete floor of a factory or lab. The platform height is leveled to the same height as that of the raised floor. TAW platforms are typically 1.5 m (5 ft.) wide, 2 m (6.5 ft.) long, and 400 mm (1.5 ft.) high. They can accommodate equipment up to 6,000 kg (12,150 lbs.). To meet individual customized requirements, larger TAW platforms can be configured handle equipment weighing up to 8,000 kg (16,200 lbs.).

In passive mode, the TAW modular system typically has a resonance in the frequency range of 10-15 Hz. In active mode, the passive resonance is completely removed. Instead, the TAW system gives an impressive 25 dB attenuation of the floor vibration at the resonance frequency. The system delivers active attenuation of the floor vibration between 1 Hz and 150 Hz.

As an added benefit, IDE's optimal floor feedforward (FFF) system in the TAW delivers an additional 10dB to 20dB attenuation performance beyond that of the active isolation performance

A decade of data readily supports IDE's TAW leadership in vibration isolation for cleanrooms. The trend continues.

[www.ideworld.com](http://www.ideworld.com)