

● Optimal seismic isolation for measuring devices ●

Nano-level measurements are the norm at our company, and we have instruments capable of even more precise measurements denominated in angstroms as well. In the aftermath of the 2011 Great East Japan Earthquake, some of our clients reported that their instruments had been destroyed by the violent tremors. The measures we had taken to prepare for an earthquake protected the equipment only to a limited extent, so we decided to install seismic isolation devices for greater protection, to enable our clients to resume operations quickly after an earthquake.

When measuring equipment is seismically isolated, it is important to avoid any adverse effects on normal measurement functions. Protective devices may prevent the equipment from severe shaking in an earthquake, but if it's routinely subjected to vibrations the equipment can't function properly. Vibrations were a real concern when we first loaded measuring equipment onto seismic isolation devices. In controlled trials, low-level vibrations were detected

with seismic isolation devices made by other companies, but no vibrations were detected with the THK devices, so in the end we decided to use the THK units. Our measuring equipment comes in a variety of sizes, and THK's model TSD isolation tables, while simple in structure, are designed to accommodate many different kinds of equipment.

Our devices make measurements that go way beyond anything that can be seen with the naked eye, and considering the price, it would be unthinkable to have to replace them again. From the standpoint of business continuity, seismic isolation provides the kind of peace of mind that money can't buy.



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