Vibration Control Technology
TOKKYOKIKI

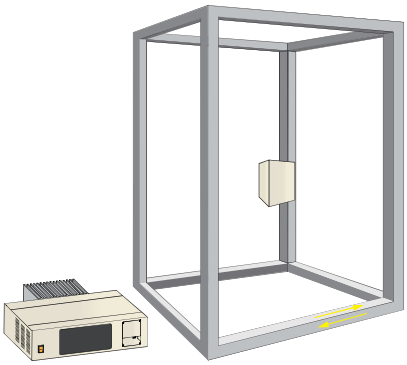
Comprehensive Solutions for Advanced Electron Microscopy

Achieve a noise-free environment with active vibration isolation system+active magnetic field canceller + acoustic enclosure Total Solutions Only TOKKYOKIKI Can Deliver

Dynamic Magnetic Field Control

Active Magnetic Field Canceller **AMC-332**

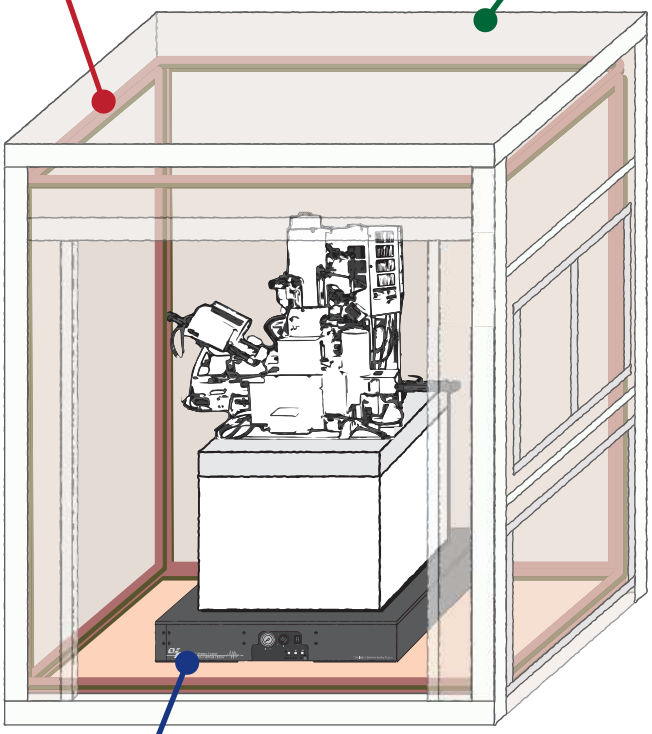
- Simultaneous control of DC and AC magnetic fields
- Equipped with auto tuning function
- High performance, low cost, easy installation



Sound Pressure Control

Acoustic Enclosure **PNC** Series

- Excellent sound insulation performance of over 20dB on average
- Easy installation
- High convenience



Disturbance Vibration Control

Low Height Active Vibration Isolation System **αL4X-911R2**

- Space-saving design (155mm height when air float)
- Reliable vibration isolation performance through active control
- Equipped with auto tuning and self-check function

Provide comprehensive support from preliminary environmental measurements through installation and commissioning.

Step 1: Survey and Analysis	Enviromental measurement , anlysis and assessment (including ambient vibration/environmental vibration, electromagnetic field fluctuation and sound pressure level)
Step 2: Proposal	Propose the optimal plan to fully leverage the performance of the microscopy
Step 3: Design and Manufacturing	As a specialized manufacturer, we are committed to ongoing R&D and continuous product improvement, enabling us to provide the most effective products built on our accumulated expertise
Step 4: Installation and Adjustment	Speedy installation and optimal adjustment
Step 5: Maintenance	Provide maintenance services and technical support

Low Height Active Vibration Isolation System αL4X-911R2 / Disturbance Vibration Control

■ Space-saving design

Keeping the board height to 155mm (while rising) ensures easy installation without the height restrictions of the installation site.

■ Excellent vibration isolation performance

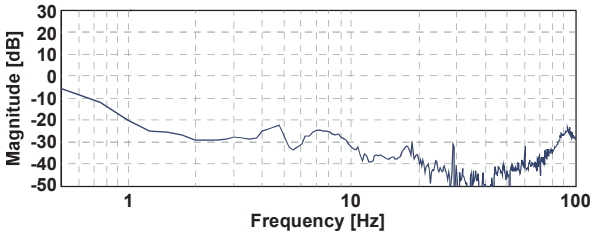
Active 6-DOF vibration control delivers an superior vibration isolation environment from low-frequencies,which cannot be achieved with conventional passive vibration isolation devices.

■ Equipped with auto tuning and self-check function

■ Reduced air consumption
(Approximately one-tenth compared with our previous model)

Low air consumption enables installation anywhere, even in areas without factory air supply.

• Measured Data ※



• **Specifications**

External dimensions: 902(W) × 1,102(D) × 152(H) mm (rising)
Equipment weight: 320kg
Maximum payload: 1000kg (Evenly distributed load)
Supply air pressure: 0.6MPa

Active Magnetic Field Canceller AMC-332 / Dynamic Magnetic Field Control

■ Simultaneous control of DC and AC magnetic fields

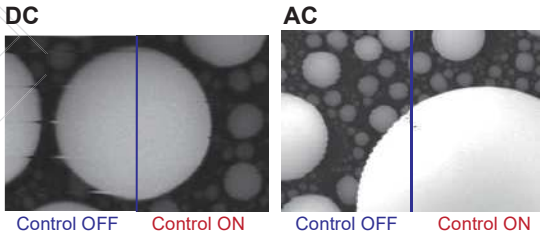
Based on frequency analysis, multiple external magnetic disturbances will be pinpoint digital controlled.

■ Equipped with auto tuning function

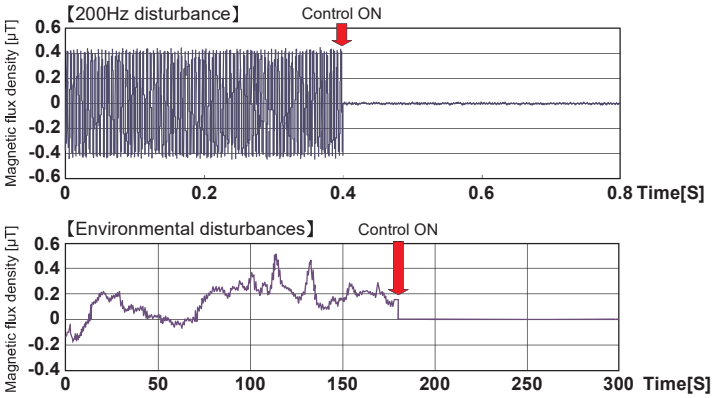
Auto tuning and magnetic field measurement verification are possible without using a computer.

■ High performance, low cost, easy installation

Excellent attenuation performance of 40-60 dB
Cost is approximately 1/10 of that of a magnetic shield room.
Easy installation by simply fixing the coil around the device.



• Measured Data ※



• **Specifications**

Control method: 3-axis control (X, Y, Z directions), independent feedback control for each axis
Control range: ± 25 μT (depending on the coil size)
Control frequency: Quasi DC ~ 3.5kHz
Attenuation rate: 60 dB

Acoustic Enclosure PNC Series / Sound Pressure Control

■ Excellent sound insulation performance of over 20dB on average

High-performance soundproofing panels combining sound absorption and sound insulation achieve broad soundproofing effects covering low to high frequencies.

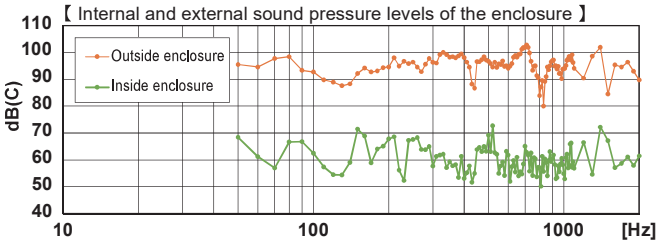
■ Easy installation

The use of lightweight materials enables assembly without heavy machinery.

■ High convenience

Correspond individually to the device and installation environment
Fearures double doors and detachable panels for enhanced maintainabilit.

• Measured Data ※



• **Specifications**

Actual Sound Insulation range: 63 ～ 2000 [Hz]
Sound Insulation Value: 20～ 50 dB
External Dimensions: Customizable
Options: Sirocco fan, spotlights, distribution board, acoustic glass, detachable panels, etc.

※ Actual measurement data is for reference only. Performance may vary depending on actual installation conditions.

Vibration Control Technology
TOKKYOKIKI

Tokyo Office 2-5-15, Higashi-Kanda, Chiyoda-ku, Tokyo, 101-0031, Japan
Tel: (+81) 3 - 6831 - 0011 Fax: (+81) 3 - 6831 - 0008
Head Office 10-133, Minami-Hatsushima-Cho, Amagasaki City, Hyogo, 660-0833, Japan
Tel: (+81) 6 - 6487 - 3939 Fax: (+81) 6 - 6487 - 3947

As for the precision vibration isolation products, welcome to *Tokkyokiki Corporation*, the reliable, well experienced corporation of great achievements. https://www.tokkyokiki.co.jp/en/

Cat No.26.01.05EN