



Vibration Control Technology

TOKKYOKIKI

Low Hieght Active Vibration Isolation System
for Scanning Electron Microscope (SEM/FIB)

α L4X-911R2

The α L4X-911R2 shows excellent vibration isolation performance from the low frequency range of 0.5Hz and realizes optimal vibration environment.



Start



Top



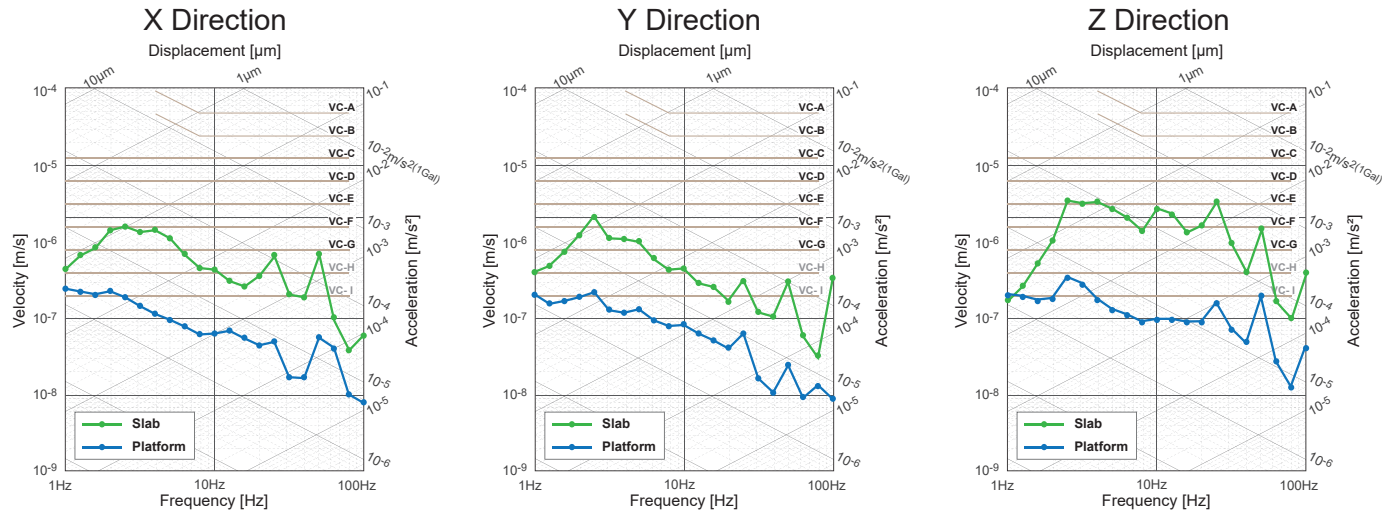
Menu



- Equipped with self check function and enables auto tuning
- Enables to store several parameters and metrics
- Showing real time vibration status on the front LCD panel
- Equipped with operation menus for vibration excitation screen, communication interface, LCD settings, etc.

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Vibration Isolation Performance



* Horizontal vibration in the X and Y directions is already very small at the VC-F level, however by using an active vibration isolation system, it is further improved to VC-I equivalent level, and in the Z direction it is improved from VC-E to VC-H or lower level.

System Configuration

Product Type	Low Height Active Vibration Isolation System
Product Number	$\alpha\text{L4X-911R2}$
Dimension	902(W) \times 1102(D) \times 152(H) (Deflating) mm
Product Weight	320kg
Loading Tool Weight	1000kg (Even Load)
Loading Tool C.O.G. Position	Horizontal: Within 50mm radius from AVI system center Height: Below 1200mm from AVI system top surface
Control Method	6 degrees of freedom feedback + ground feedforward control
Main Steel Material Surface Treatment (float table, base)	Main Steel Material: SS400 Surface Treatment: Resin Coating, Hue: Gray (Matte)

Note) When installing the equipment with 1200mm C.O.G. and higher, please contact Tokkyokiki.

Installation and Operation Environment

Clean Dry Air Source Pressure	0.6MPa and higher
Clean Dry Air Source Air Flow	Steady flow 1L/min(A.N.R) and below Maximum flow 21L/min(A.N.R)
Air Intake Size	Outer Diameter $\phi 6\text{mm}$
Power Supply	AC100-240V (With FGND), 50/60Hz
Power Consumption	120W max
Installation Environment Temperature/Humidity	10°C ~ 40°C / 45 ~ 60%RH

Note) Another power supply (single phase, AC100-240V with FGND, 50-60Hz, 200W) is necessary for the tuning Note PC.

(Accessories) Instruction Manual, Power Cord 3m, $\phi 6$ urethane tube 10m, Sponge rubber sheet x 2, M12 Eye bolt x 4

(Option) Anchor Bracket to fix the AVI system including bolts x 4, Bracket to fix the loading tool including bolts x 4



R-REM-TKX-ALPHA4X-911R2



The caution for safety

Please read the Instruction Manuals carefully before use.

This catalogue is for the product as of Jun.2025. The specification may be modified without notice.



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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/>