



Advanced Vibration Isolation

Products Catalog 2021

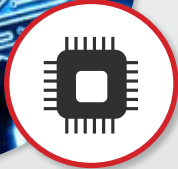
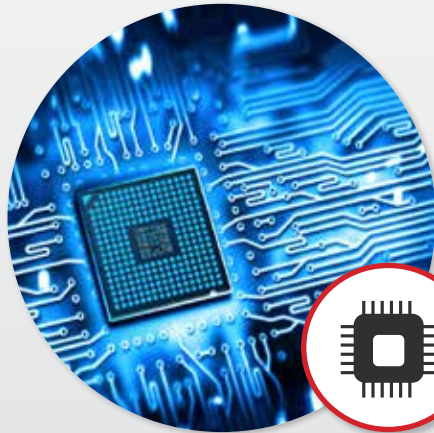


Industries

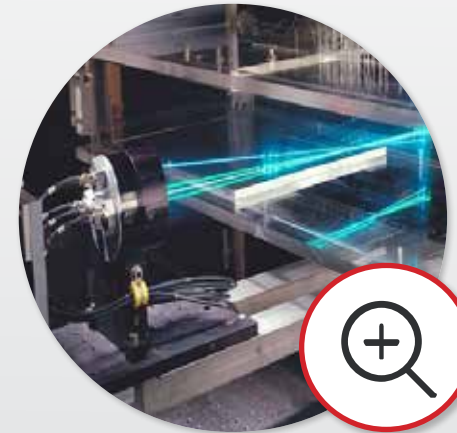
High-precision tools are sensitive to vibrations and require vibration isolation for optimal performance.



**Microscopes AFM,
SEM, TEM, etc.**



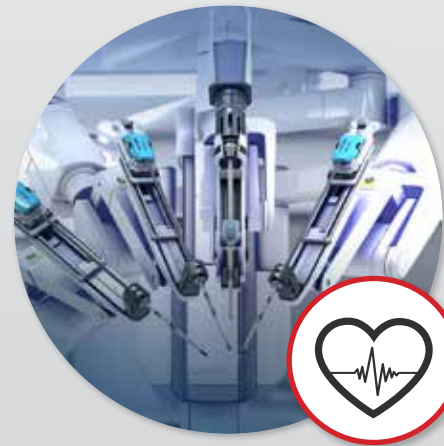
Semiconductors



**Metrology and
Inspection**



Automotive



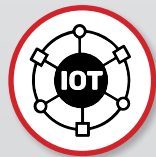
Medical



Our Main Functionalities



**Vibration
isolation**



IoT



**Artificial
intelligence**



**Sensing
vibrations
sources**



ARIS TTXXX

Table Top Active Vibration Isolation System



ARIS MDXXX

Modular Active Vibration Isolation System



ARIS Integra
Flexible Length



SOTO TTXXX

Table Top Passive Vibration Isolation System

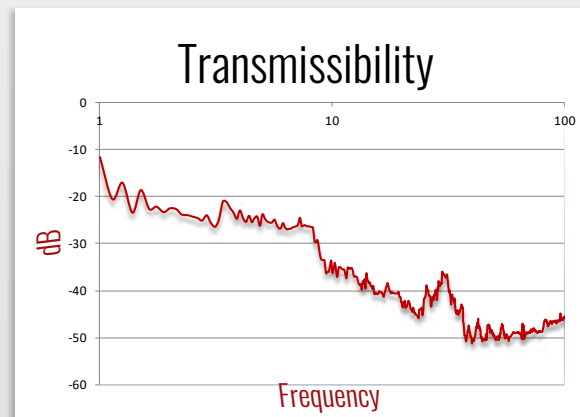
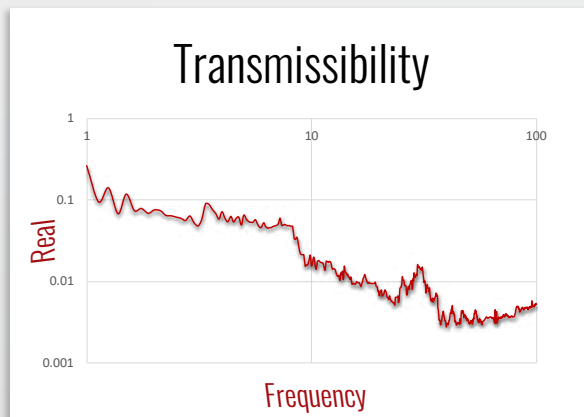


SOTO MDXXX

Modular Passive Vibration Isolation System



A lightweight and compact Table Top **active vibration isolation** systems that counteracts unwanted vibrations for sensitive equipment. The streamlined design allows it to seamlessly become part of the workstation environment, and its straightforward composition requires no follow-up tuning.



Key Capabilities

- 6 degrees of freedom
- Active gain starting from 0.5Hz
- Variable Damping (patent pending)
- Build In Artificial Intelligence Feature
- Adjustable by software active bandwidth
- Remote control
- Built in real time diagnostic tools
 - Spectrum analyzer
 - Oscilloscope
- Shaker Mode



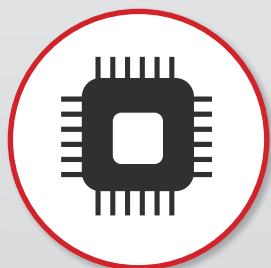
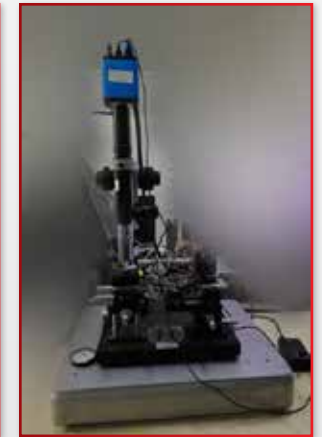
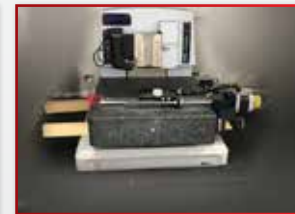
A lightweight and compact Table Top **active vibration isolation** systems



Device	ARISTT 20	ARISTT 75I	ARISTT 75	ARISTT 75X	ARISTT 100	ARISTT 150	ARISTT 180	ARISTT 200
Dimensions (WxDxH) mm	450x300x80	300x450x65	300x450x80	400x500x80	400x500x80	400x500x80	500x600x80	600x800x80
Load Capacity (kg)	5-20	15-75	15-75	15-75	40-100	70-150	80-180	90-200
Actuator Force	Vertical: 50 N ; Horizontal 25 N							
Active Isolation Range	0.5 – 100 Hz							
Architecture	MVIS - Multi-layer Vibration Isolation Structure							
Degrees of Freedom	4 degrees			6 degrees				
Vibration Isolation Performance	~8db gain on 1Hz ~20db gain on 2Hz							
Settling time	≤0.1 sec							
Real-Time Diagnostic Tools	Built-in Real-Time 2 channels Oscilloscope, Real Time 2 channel Spectrum Analyzer							
Real-Time performance adjustment	Adaptive Control in ALL 6 degrees of freedom in real-time. Remote Access							
Input Voltage	AC 80-260V/50-60Hz							



Microscopes AFM



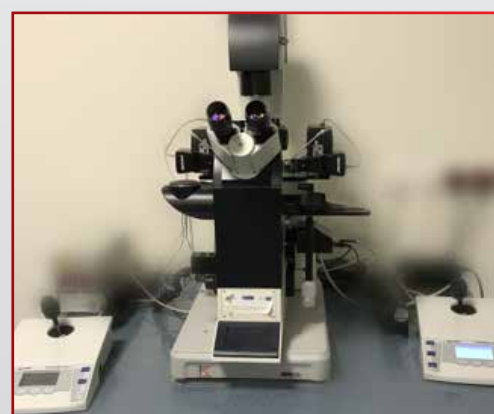
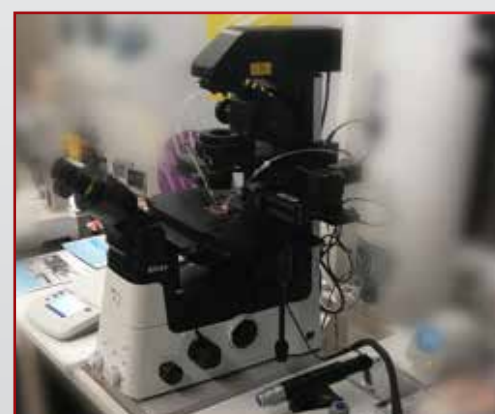
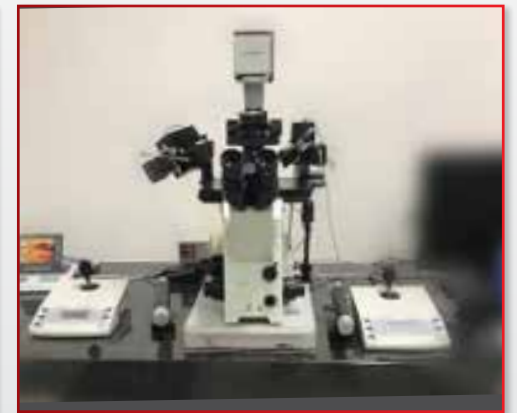
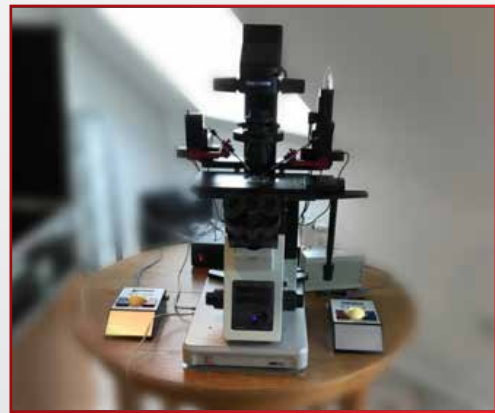
Semiconductors



ARISTT Installation Examples - IVF



IVF



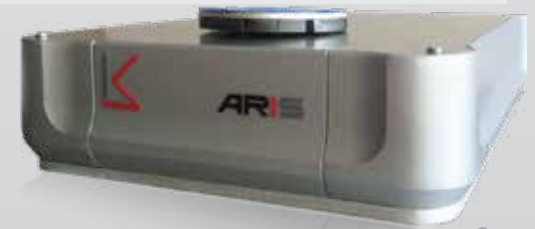
ARIS_{MD} Product Line Tehnical Specification



Device	ARIS _{MD} 300	ARIS _{MD} 500	ARIS _{MD} 1000	ARIS _{MD} <i>pro</i> 300	ARIS _{MD} <i>pro</i> 500
Dimensions (WxDxH) mm	270x230x75	270x230x75	370x230x75cm	270x230x75 230x230x75	270x230x75 230x230x75
Load Capacity (kg)	100-300 per Isolator (Module) Number of Modules unlimited	200-500 per Isolator (Module) Number of Modules unlimited	500-1000 per Isolator (Module) Number of Modules unlimited	100-300 per Isolator (Module) Number of Modules unlimited	100-300 per Isolator (Module) Number of Modules unlimited
Actuator Force	Vertical = 50N Horizontal = 25N	Vertical = 50N Horizontal = 25N	Vertical = 50N Horizontal = 25N	Vertical = 150N Horizontal = 75N	Vertical = 150N Horizontal = 75N
Active Isolation Range	0.5 – 100 Hz				
Architecture	MVIS - Multi-layer Vibration Isolation Structure				
Degrees of Freedom	All 6 degree for System				
Vibration Isolation Performance	~8db gain on 1Hz ~20db gain on 2Hz				
Settling time	≤0.1 sec				
Real-Time Diagnostic Tools	Built-in Real-Time 2xChannels Oscilloscope, Real Time 2xChannel Spectrum Analyzer per Module and per System				



Compact modular
active vibration isolation systems



ARIS Integra Product Line Technical Specification



Device	ARIS Integra 500	ARIS Integra <i>pro</i> 500	ARIS Integra 1000	ARIS Integra <i>pro</i> 1000
Dimensions (WxDxH) mm	800mm (Flexible Length) x300x75mm	800mm (Flexible Length) x300x75mm	800mm (Flexible Length) x300x75mm	800mm (Flexible Length) x300x75mm
Maximum load (kg)	500	500	1000	1000
Actuator Force	Vertical = 50N Horizontal = 25N	Vertical = 150N Horizontal = 75N	Vertical = 50N Horizontal = 25N	Vertical = 150N Horizontal = 75N
Active Isolation Range	0.5 – 100 Hz			
Architecture	MVIS - Multi-layer Vibration Isolation Structure			
Degrees of Freedom	All 6 degree for System			
Vibration Isolation Performance	~8db gain on 1Hz ~20db gain on 2Hz			
Settling time	≤0.1 sec			
Real-Time Diagnostic Tools	Built-in Real-Time 2xChannels Oscilloscope, Real Time 2xChannel Spectrum Analyzer per Module and per System			



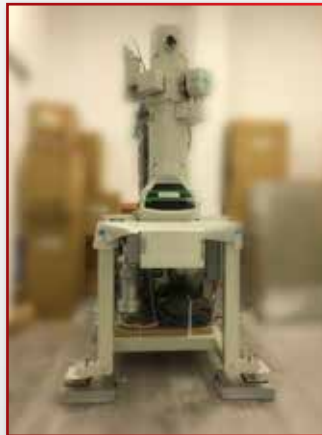
Flexible Modular
Active Vibration Isolation System



ARIS_{MD} Industry fields and Applications



SEM/TEM/FIB



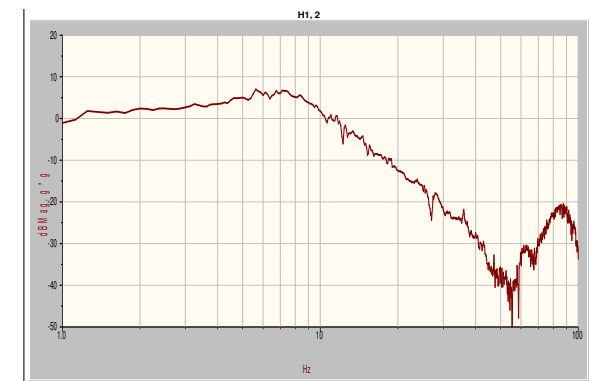
A lightweight and compact vibration absorption systems allows to significantly reduce unwanted vibrations translated to working environment from various environment disturbances. Developed by engineers, physicists, and leading industry consultants with expertise in vibration isolation and precision instruments, SOTO Effectiveness is in significant absorption of vibrations and disturbances.



Key Capabilities

- Highly Damped Step Respond
- Simple installation - No tuning require
- Application-specific designs/products/
- Capabilities to meet your needs
- Ability to support massive machines, tools, systems

Transmissibility



SOTO Product Line Tehnical Specification

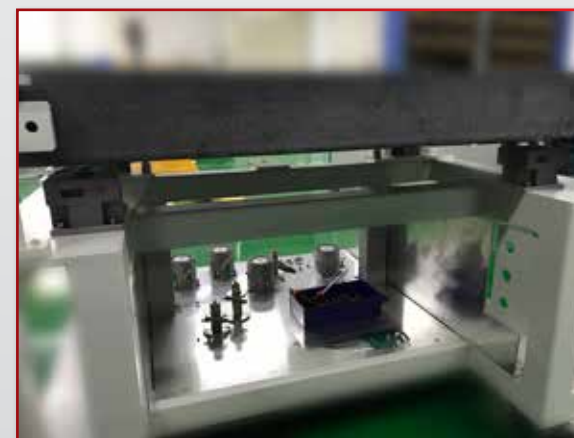
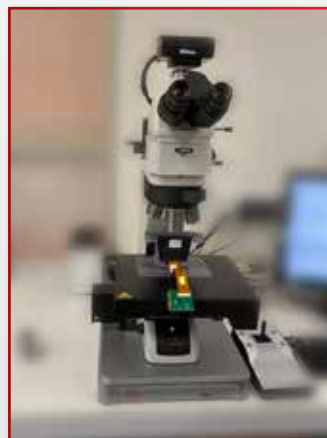
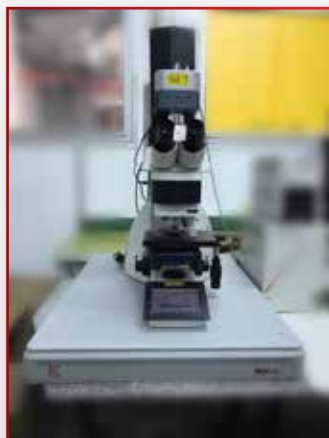


Device	SOTO MD	SOTO TT20	SOTO TT75	SOTO TT75X	SOTO TT100	SOTO TT150	SOTO TT180	SOTO TT200
Dimensions (WxDxH) mm	120x110x75	300x450x75	300x450x65	400x500x80	400x500x80	400x500x80	500x600x80	600x800x80
Load Capacity (kg)	300/500/ adjustable	5-20	15-75	15-75	40-100	70-150	80-180	90-200
Performance	~40db reduction between 20Hz – 40 Hz (in relationship with adjustable damper)							
Settling time	≤0.3 sec							
Damping	Adjustable Damping							

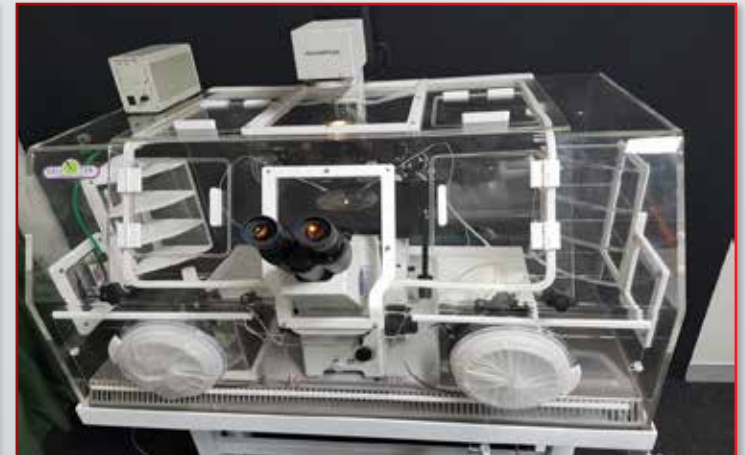


Compact vibration absorption systems





In Table and In Gloves Integrated Solutions



Advanced Vibration Isolation



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