



**Advanced Vibration Isolation**

**Introduction to K&S**

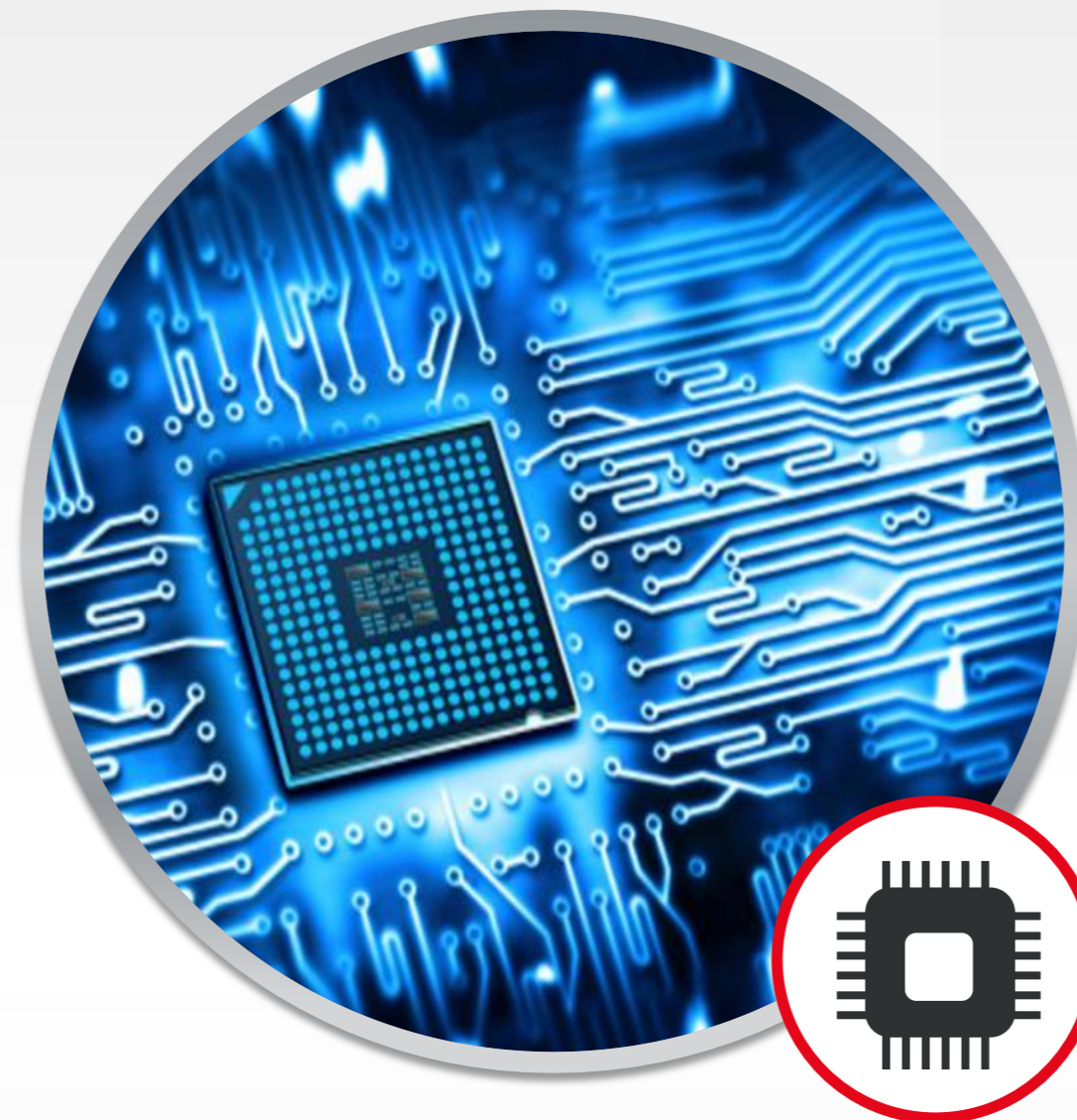




High-precision tools are **sensitive to vibrations** and **require vibration isolation** for optimal performance.



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



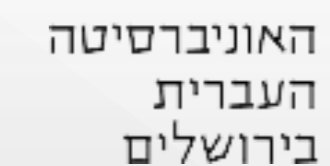
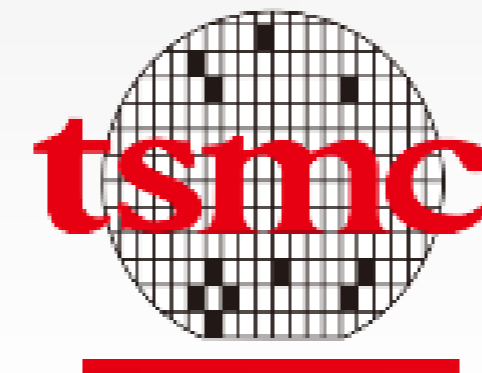
**Semiconductors**



**Metrology and  
Inspection**



# K Customers using our systems



**ARIS TTXXX**

Table Top  
Active Vibration  
Isolation System



**ARIS MDXXX**

Modular  
Active Vibration  
Isolation System



**SOTO TTXXX**

Table Top  
Passive Vibration  
Isolation System

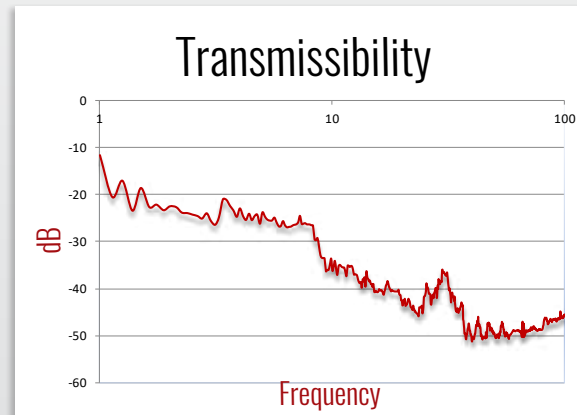
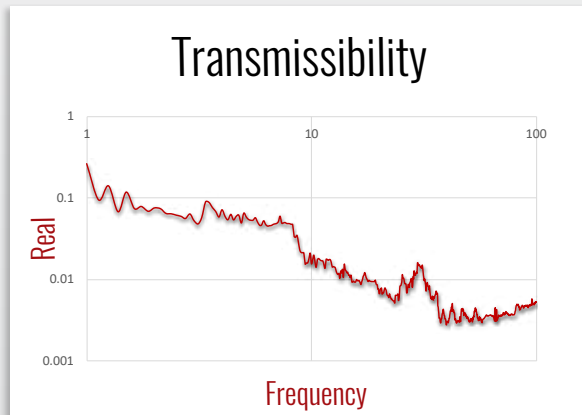


**SOTO MDXXX**

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



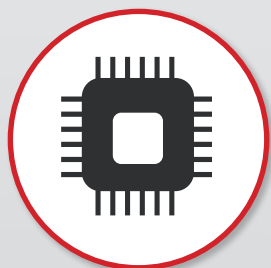
A lightweight and compact Table Top **active vibration isolation** systems



Device	ARISTT 75I	ARISTT 75	ARISTT 75X	ARISTT 100	ARISTT 150	ARISTT 180	ARISTT 200
Dimensions (WxDxH) mm	300x450x65	300x450x80	400x500x80	400x500x80	400x500x80	500x600x80	600x800x80
Load Capacity (kg)	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**

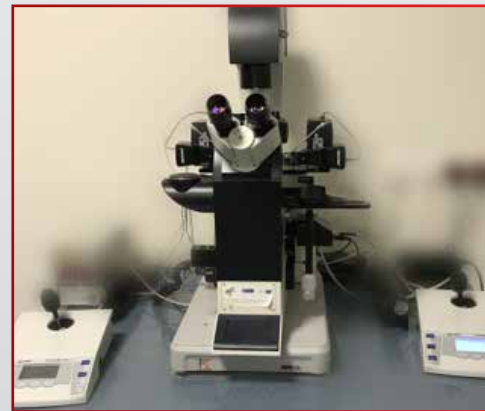
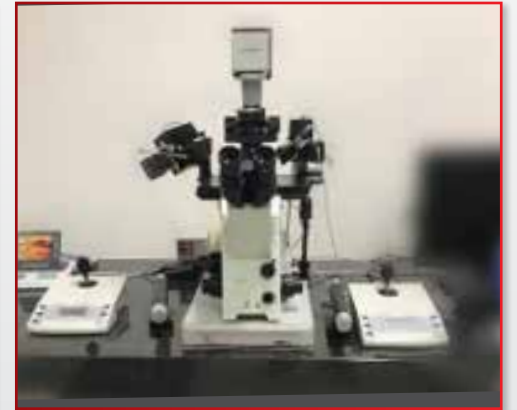
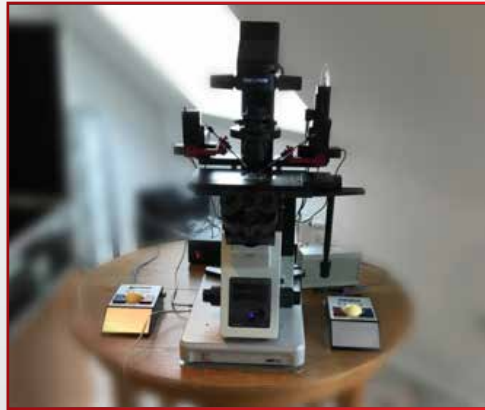




# ARISTT Installation Examples - IVF



IVF





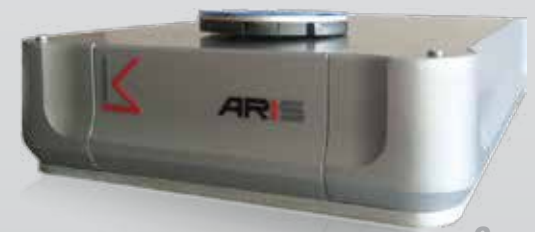
# ARIS<sub>MD</sub> Product Line Technical Specification



Device	ARIS <sub>MD</sub> 300	ARIS <sub>MD</sub> 500	ARIS <sub>MD</sub> 1000	ARIS <sub>MD</sub> <i>Pro</i> 300	ARIS <sub>MD</sub> <i>Pro</i> 500
Dimensions (WxDxH) mm	270x230x75	270x230x75	370x230x75	230x230x75	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	200-500 per Isolator (Module) Number of Modules unlimited
Actuator Force	Vertical: 80 N; Horizontal 40 N				
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				



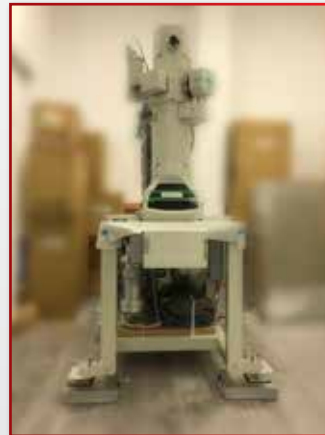
Compact modular  
active vibration isolation systems



# ARISMD Industry fields and Applications



SEM/TEM/FIB



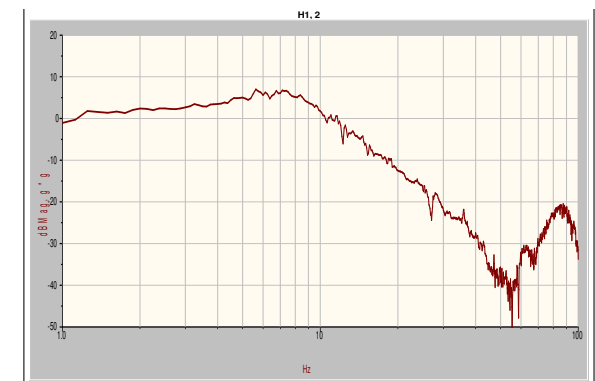
A lightweight and compact vibration absorption systems allows to significantly reduce unwanted vibrations translated to working environment from various environment disturbances. Developed by engineers, physicists, and leading industry consultants with expertise in vibration isolation and precision instruments,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

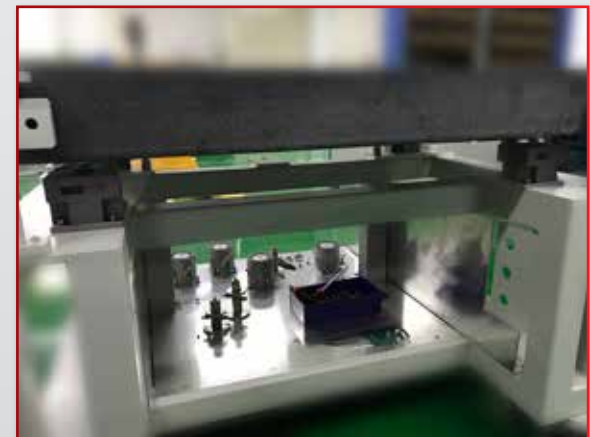
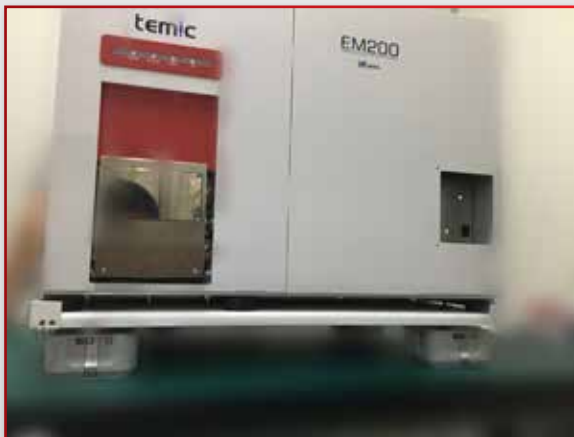
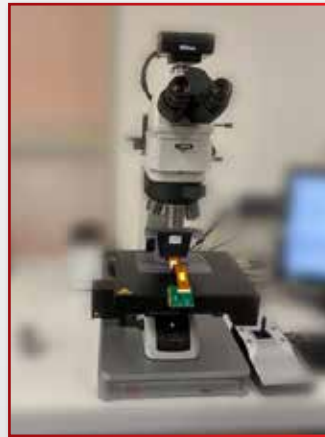


Device	SOTO MD	SOTO TT35	SOTO TT75	SOTO TT75X	SOTO TT100	SOTO TT150	SOTO TT180	SOTO TT200
Dimensions (WxDxH) mm	120x110x75	300x450x65	300x450x65	400x500x80	400x500x80	400x500x80	500x600x80	600x800x80
Load Capacity (kg)	300/500/ adjustable	7-35	15-75	15-75	40-100	70-150	80-180	90-200
Performance	~40db reduction between 20Hz – 40 Hz (in relationship with adjustable damper)							
Settling time	≤0.3 sec							
Damping	Adjustable Damping							



Compact vibration absorption systems

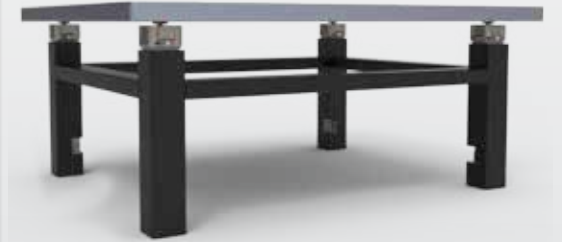






## In Table and In Gloves Integrated Solutions

### In Table Integrated Solutions



### In Glove Box Integrated Solutions

