

Sandwich (SW)

Active Vibration Isolation Platform



Active Vibration Isolation Platform for vibration sensitive production and measurement equipment. Suitable for most Scanning Electron Microscopes (SEM) and Transmission Electron Microscopes (TEM).

W.A.V.E. – World of Anti Vibration Engineering

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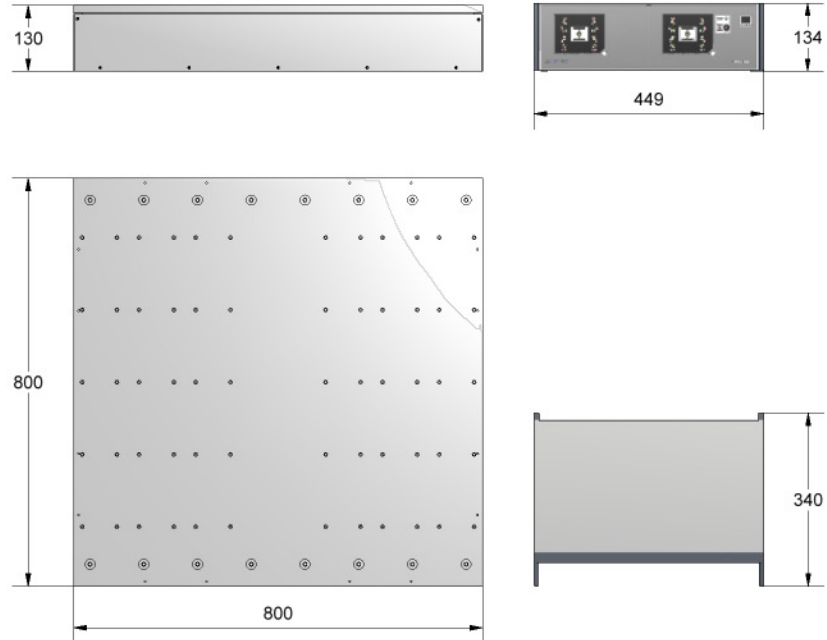
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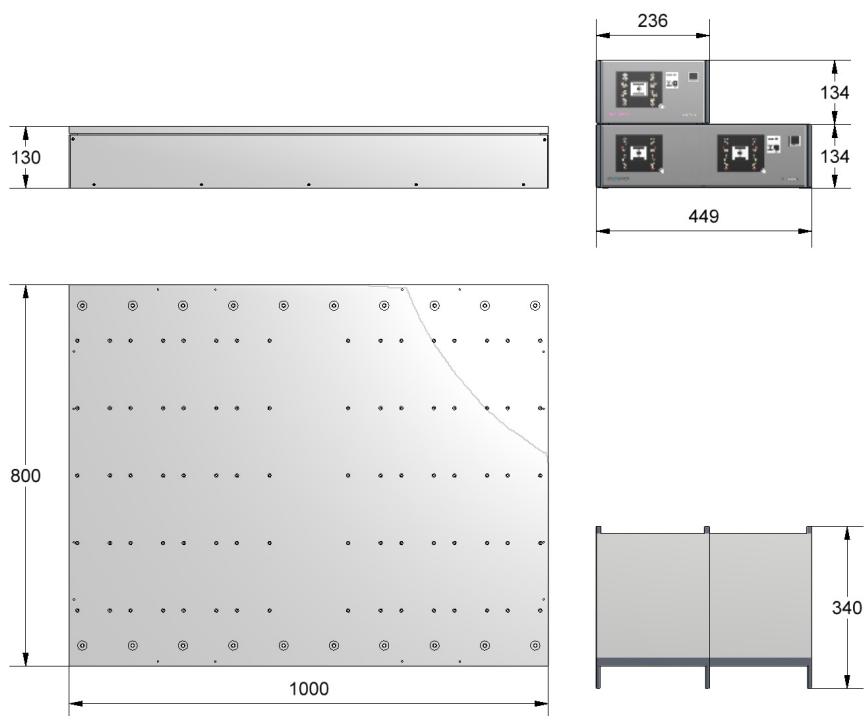
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Available Standard Versions		
SW800-4.0	SW1000-4.0	SW1000x900-4.0
	SW1000-6.0	SW1000x900-6.0
	SW1000-8.0	SW1000x900-8.0
Performance Specifications		
Isolation Technology	Absolute velocity feedback control (Sky-Hook control) based on piezoelectric accelerometers, fast signal processing and electro-dynamic voice coil actuators.	
Controlled Degrees of Freedom	6 degrees of freedom (3x translational, 3x rotational)	
Isolation Performance	>5Hz = -25dB (94.4%), >10Hz = -35dB (98.2%) see figure last page	
Active Bandwidth	1.5Hz – 200Hz *	
Settling Time	300ms	
Max. Correction Forces	all SW-4.0 platforms	vertical ±16N; horizontal ±8N
	all SW-6.0 platforms	vertical ±24N; horizontal ±12N
	all SW-8.0 platforms	vertical ±32N; horizontal ±16N
Load Capacity	all SW-4.0 platforms	0-600 kg (0-1,320 lbs)
	all SW-6.0 platforms	0-900 kg (0-1,980 lbs)
	all SW-8.0 platforms	0-1200 kg (0-2,650 lbs)
Other Specifications		
Dimensions	see figures next pages	
Weight	SW800-4.0:	105 kg (230 lbs)
	SW1000-4.0:	115 kg (250 lbs)
	SW1000-6.0:	135 kg (300 lbs)
	SW1000-8.0:	155 kg (340 lbs)
	SW1000x900-4.0:	130 kg (290 lbs)
	SW1000x900-6.0:	150 kg (330 lbs)
	SW1000x900-8.0:	170 kg (370 lbs)
Maximum Compensation Level	350µm/s @ 9Hz and 300 kg (660 lbs) payload for SW1000-4.0**	
Interface	BNC analog diagnostic output – 50 Ohms	
Environmental and Operational Requirements		
Electrical Voltage	100 – 250 V / 47 – 63 Hz	
Power Consumption	all SW-4.0 platforms	20 – max. 70 W
	all SW-6.0 platforms	30 – max. 140 W
	all SW-8.0 platforms	40 – max. 210 W
Operating Temperature	10 – 40 °C (50 – 104 F)	
Relative Humidity	0 – 60%	
Operating Altitude	<2500 m (8100 ft)	
Certification		
Electrical Safety	CE certificated according to directive 89/336/EC	
EMC	CE certificated according to directive 73/23/EEC	
*floating table top is supported by steel springs; low-pass characteristics of spring-mass system dominates the dynamic behavior above 200Hz		
**The maximum compensation level depends on several conditions, such as payload, frequency, load distribution, position of center of gravity. For this reason this value should be considered as an estimation.		

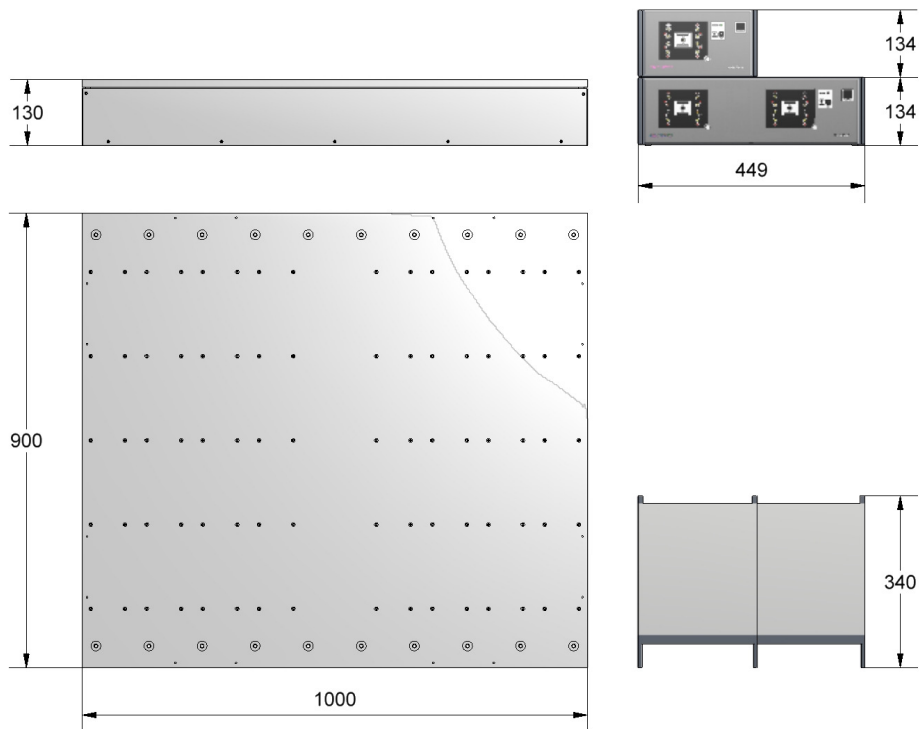
Dimensions SW800-4.0 and Control Unit



Dimensions SW1000-X.0 and Control Units



Dimensions SW1000x900-X.0 and Control Units



Typical Transmissibility Chart

