

## Accessories for Stand-Based Instruments

Whether your demands are for vibration or surface metrology measurements, Polytec provides you with a wide variety of accessories and components to enable solutions that are particularly well suited for your application.

These accessories provide the means for achieving your required levels of precision and finesse. This is evident in their modularity and compatibility with all table-mounted vibrometer and topography systems (MSA-500, MSA-100-3D, UHF-120, TMS-350 and TMS-1200).



### Highlights

- Flexible and ample workspace for measurement tasks
- Vibration isolation enables high resolution measurements
- Practical probe handling from small microstructures to large size samples
- High-quality accessories for day-to-day and practical measurements

## Accessories for Stand-Based Instruments

Space to Improve  
Datasheet

# Technical Data



## A-STD-TST-01 Test Stand

Dimensions (W x D x H)	990 x 384 x 1,083 mm (for MSA-100-3D) 990 x 436 x 1,083 mm (for other measurement heads)
Weight	130 kg
Travel range z-axis	200 mm, motorized
Resolution z-axis (typical)	0.5 µm
Repeatability z-axis (uni-directional)	1 µm
Compatibility	A-TAB-AIR-01, A-TAB-ELC-01 Active Vibration Isolation Table Commercial breadboards with M6 hole pattern, grid spacing 25 mm <sup>1</sup> Commercial breadboards with 1/4-20 UNC hole pattern, grid spacing 1 inch <sup>1</sup>
Peripherals	A-CTR-100 Axis Controller: 19" Controller, 483 x 470 x 50 mm; weight 3.8 kg; installed in system cabinet of measurement instrument A-JST-0001 Joystick for manual control of motion axis



Test Stand with motorized z-axis for supporting and focusing sensor head

## A-STD-BAS-02 Base Stand

Dimensions (W x D x H)	360 x 412 x 738 mm
Weight	63.5 kg
Travel range z-axis	100 mm, manually actuated, with coarse and fine drive
Compatibility	A-TAB-AIR-01, A-TAB-ELC-01 Active Vibration Isolation Table A-BBO-ME02, A-AVI-MELA Breadboard Commercial breadboards with M6 hole pattern, grid spacing 25 mm Commercial breadboards with 1/4-20 UNC hole pattern, grid spacing 1 inch <sup>1</sup>



Base Stand with manual z-axis on Breadboard

## A-BBO-ME02 Breadboard

Table Top	M6 hole pattern, grid spacing 25 mm
Dimensions (W x D x H)	600 x 900 x 79 mm
Weight	55 kg

## A-AVI-MELA Active Vibration Isolation Breadboard <sup>2</sup>

Isolation direction	Active compensation in 6 degrees of freedom
Vertical isolation performance	> approx. 10 Hz: 98.2 %
Active bandwidth	0.7 - 200 Hz (passive isolation beyond 200 Hz)
Load capacity	300 kg (load in centre)
Table Top	M6 hole pattern, grid spacing 25 mm
Dimensions (W x D x H)	600 x 800 x 120 mm
Weight	53 kg
Electrical Power	max. 20 W

<sup>1</sup> An adapter plate is provided, height 20 mm.

<sup>2</sup> Without illustration



*XY Positioning Stage for test sample with tip/tilt adjustment*

<b>A-PST-200P Precision Positioning Stage</b>	
Dimensions (W x D x H)	310 x 310 x 135 mm
Weight	21.6 kg
Lateral travel range	200 x 200 mm, motorized
Repeatability (bi-directional)	+/- 0.5 µm
Tip/tilt range	+/- 2.5°, manually actuated
Load capacity	10 kg
Peripherals	A-CTR-100 Axis Controller: 19" Controller, 483 x 470 x 50 mm; weight 3.8 kg; installed in system cabinet of measurement instrument A-JST-0001 Joystick for manual control of motion axis



*Air-damped vibration isolation table with active level adjustment*

<b>A-TAB-AIR-01 Active Vibration Isolation Table</b>	
Isolation direction	Vertical compensation
Isolation performance	>8 Hz: 90%
Dimensions (W x D x H)	1,000 x 855 x 765 mm
Weight	400 kg
Media requirements	Compressed air: filtered, dry and oil-free; minimum 6 bar; fitting ø 6 mm



*Electronically controlled voice coil stabilization for highest isolation performance*

<b>A-TAB-ELC-01 Active Vibration Isolation Table</b>	
Isolation direction	Active compensation in 6 degrees of freedom
Vertical isolation performance	> approx. 5 Hz: 94.4 % > approx. 10 Hz: 98.2 %
Active bandwidth	1 - 200 Hz (passive isolation beyond 200 Hz)
Response time	0.5 ms <sup>3</sup>
Dimensions (W x D x H)	1,000 x 855 x 765 mm 1,119 x 855 x 765 mm (incl. lateral console carrying the electrical control unit <sup>4</sup> )
Weight	470 kg
Peripherals	Electrical control unit: 19" Controller, 449 x 341 x 133 mm
Electrical power	50 W



*Workstation to be used with Polytec's active vibration isolation tables*

<b>A-WST-001 Workstation</b>	
Dimensions (W x D x H)	2,200 x 1,100 x 730 mm
Weight	80 kg
Compatibility	A-TAB-AIR-01, A-TAB-ELC-01 Active Vibration Isolation Table

<sup>3</sup> The response time determines when the system starts to actively isolate an incoming vibration after detection by the sensors.

<sup>4</sup> Required only for MSA-500 and UHF-120. For other measurement instruments the electrical control unit of the A-TAB-ELC-01 is integrated into the system cabinet of the measurement instrument.



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