


# Summit 11000/12000 Probe Station



## Facility Planning Guide

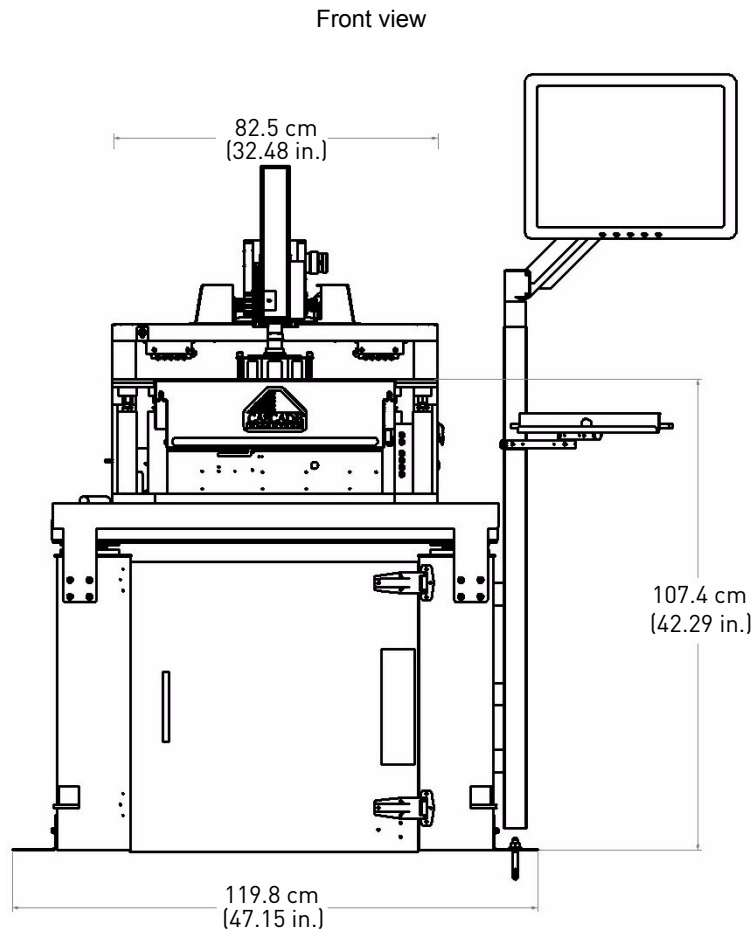
This guide contains information to help prepare your facility for the arrival of your Summit 10000/12000 probe station.

### Probe Station Requirements

<b>Air and Vacuum</b>	Vacuum	<ul style="list-style-type: none"> <li>• 400 mmHg (15 inch of mercury) minimum</li> <li>• Minimum vacuum required: 3.4 liters/minute (0.12 SCFM)</li> </ul>
	Vacuum connection	<ul style="list-style-type: none"> <li>• 8 mm (0.315 in.) O.D. polyurethane tubing</li> <li>• 2.4 m (8 feet) provided</li> </ul>
	Compressed air for High Stability Tilt-back Bridge	<ul style="list-style-type: none"> <li>• 0.55-0.86 Mpa (80 - 125 psi) input</li> </ul>
<b>MicroChamber Purge</b>	Available Flow	<ul style="list-style-type: none"> <li>• 170 liters/minute (6 SCFM) maximum; 113 liters/minute (4 SCFM) if using nitrogen for "quickpurge"</li> </ul> <p style="text-align: center;"><b>WARNING</b></p> <p style="text-align: center;"> <i>Cascade Microtech does not endorse or recommend using nitrogen instead of CDA, except for MicroChamber purge, with any Cascade Microtech system due to the risk of oxygen depletion in the working environment.</i></p> <p style="text-align: center;"><i>If your testing configuration requires the use of nitrogen instead of CDA for MicroChamber purge, time in Quick Purge mode should be controlled. Discuss your setup with your safety and facilities departments to ensure that the oxygen flow in your working environment is adequate to dissipate any nitrogen build up. The use of oxygen sensor alarms is also recommended.</i></p> <ul style="list-style-type: none"> <li>• Continuous operation requires less air; 57-85 liters/minute (2-3 SCFM)</li> </ul>
	Purge Connection	<ul style="list-style-type: none"> <li>• 12.7 mm (0.50 inch) O.D. polyurethane tubing (PN 112-405) 3 meters (10 feet) is provided in the Accessories Kit</li> </ul>
	Dew Point (Dry Air or Nitrogen)	<ul style="list-style-type: none"> <li>• &lt; -70°C</li> </ul>
<b>Environmental Conditions</b>	Operating	<ul style="list-style-type: none"> <li>• Altitude up to 2000 m</li> <li>• Main supply voltage fluctuations not to exceed <math>\pm 10\%</math> of the nominal voltage</li> <li>• A total current of 3.2/1.6 A, 115/230 VAC is required for both auxiliary and microscope outlets. The combined leakage current of accessories attached to these two outlets must be less than 3mA.</li> </ul>
	Temperature	<ul style="list-style-type: none"> <li>• 20-30°C</li> </ul>
	Humidity	<ul style="list-style-type: none"> <li>• 0-95% noncondensing</li> </ul>
	Seismic restraints	Installation of seismic restraints is required to safely restrain the probe station during a seismic event and to meet the safety requirements as outlined by SEMI-S2.
<b>Power</b>	Outlets	<ul style="list-style-type: none"> <li>• One (1) outlet is required for the IEC power cord kit/block: 115 V at 4 A (minimum), or 230 V at 2 A (minimum).</li> </ul>
	Cable	<ul style="list-style-type: none"> <li>• For international shipments, the probe station will be supplied with appropriate power cables.</li> </ul>
	Power requirements for accessories	<ul style="list-style-type: none"> <li>• Vacuum pump 1 A / 0.5 A</li> <li>• Air compressor 3 A / 1.5 A</li> <li>• Video camera 0.5 A / 0.25 A</li> <li>• Laser 6 A / 3 A</li> <li>• Laser illuminator 3 A / 1.5 A</li> <li>• Microscope illuminator 2.5 A / 1.25 A</li> <li>• Computer 1.5A / 0.75A typical</li> <li>• Computer monitor 1.5A / 0.75A typical</li> </ul>

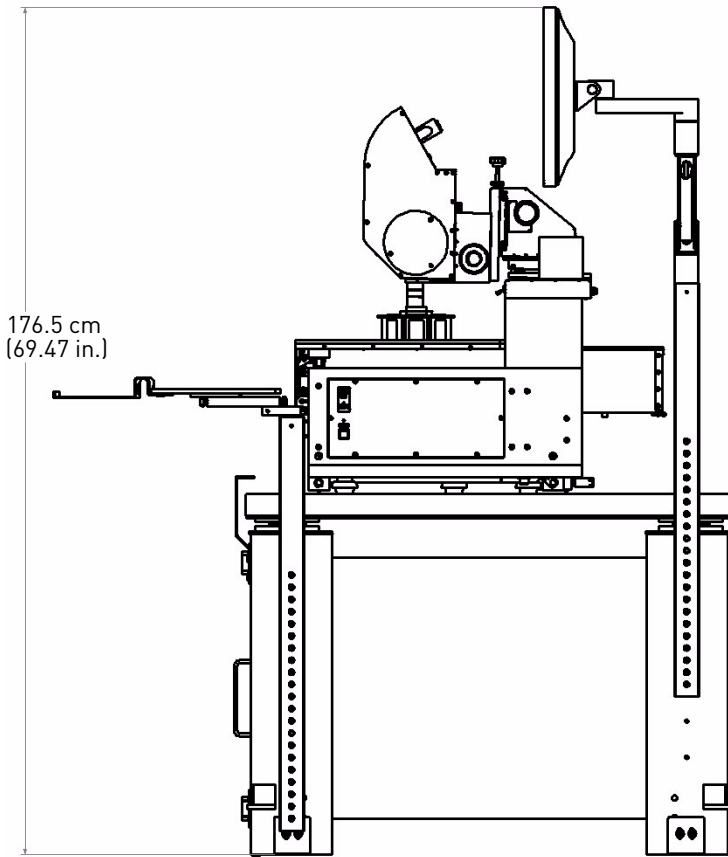
# Summit 11000/12000 Probe Station

<b>Additional Equipment</b>	Workbench	<ul style="list-style-type: none"> <li>• Size: 1.2 m (4 feet) wide x 0.76 m (2.5 feet) deep minimum</li> <li>• Capacity: 230 kg (507-pound) minimum</li> </ul>
	Flowmeter	<ul style="list-style-type: none"> <li>• Omega Model # FL 4513-V (or equivalent), 0-8 SCFM air flow (standard on Summit -AP and -M MicroChamber stations, optional and ordered separately for Summit -S stations)</li> <li>• The flowmeter is not required if an air dryer is included in the system configuration.</li> <li>• If a MicroChamber is included in the system configuration, a flowmeter is included for purge air control. Specifications for the flowmeter are 0 to 8 CFM.</li> </ul>
<b>Dimensions</b>	11000 B-series probe station	<ul style="list-style-type: none"> <li>• Approx. 81.5 cm/32.09 in. (W) x 76.2 cm/30 in. (D)</li> <li>• Station height: approx. 36.8 cm/14.5 in. (see height with microscopes on page 3)</li> </ul>
	12000 B-series probe station	<ul style="list-style-type: none"> <li>• Approx. 82.5 cm/32.48 in. (W) x 76.2 cm/30 in. (D)</li> <li>• Station height: approx. 36.8 cm/14.5 in. (see height with microscopes on page 3)</li> </ul>
<b>Weight</b>	Probe station	<ul style="list-style-type: none"> <li>• 182 kg</li> </ul>
	Lifting requirements	To avoid personal injury and/or damage to the station, a forklift (minimum 400-pound capacity) is required to move the unit, and a minimum of four to six people will be required to shift it onto the table. Note that the weight is not distributed evenly between all four corners of the station. The rear of the station is heavier than the front.
<b>Shipping Dimensions and Weight</b>	Station and table	<ul style="list-style-type: none"> <li>• 90.2 cm/35.5 in. (W) x 106.7 cm/42 in. (D) x 90.4 cm/35.6 in. (H)</li> </ul>
	Station and crate	<ul style="list-style-type: none"> <li>• Weight: 272 kg (600 pounds)</li> </ul>

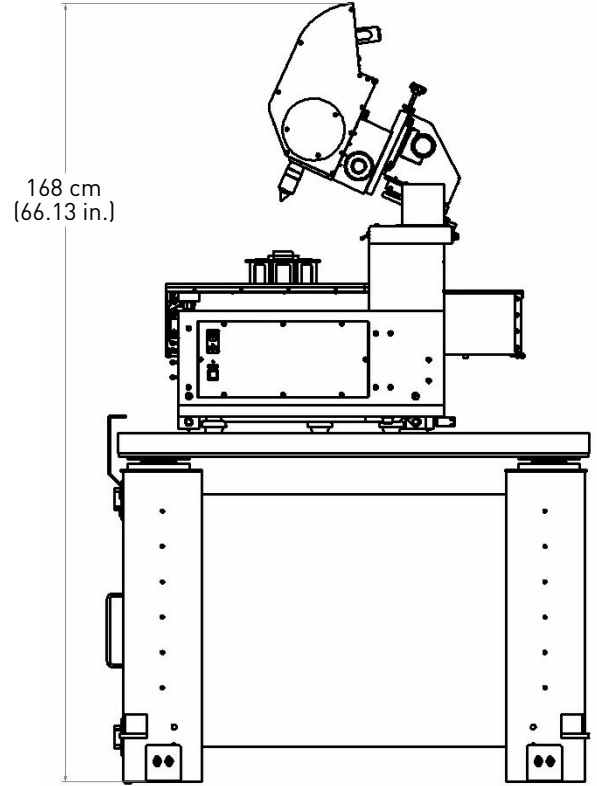


# Summit 11000/12000 Probe Station

Side view with monitor on stand



Side view with eVue in raised position



**Note**

Height with eVue in lowered position	156.1 cm (61.44 in.)
Height with eVue in raised position	168 cm (66.13 in.)
Height with monitor on monitor stand	176.5 cm (69.47 in.)
Height with Mitutoyo microscope and installed laser	184 cm (72.45 in.)

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