PM8 Probe Station

Facility Planning Guide



This guide contains information to help prepare your facility for the arrival of your PM8 probe station.



Note

Facility requirements for thermal systems are listed separately. See the Facility Planning Guide specific to your thermal system for details.

Probe Station Requirements

Air and Vacuum	Vacuum	 Less than 200 mbar absolute Flow rate insignificant 8 mm (5/16-inch) hose (6 mm and 1/4-inch adapters included)
	Compressed air	Vibration • Filtered, dry and oil-free
	Compressed all	isolation • Minimum 4 bar to 7 bar maximum
		table • 8 mm (5/16-inch) hose (6 mm and 1/4-inch adapters included)
		Scope lift • 8 mm (5/16-inch) hose (6 mm and 1/4-inch adapters included)
	WARNING	
		ch does not endorse or recommend using nitrogen instead of CDA for thermal system y Cascade Microtech system due to the risk of oxygen depletion in the working
	environment purg and facilities dep	Infiguration requires the use of nitrogen instead of CDA for MicroChamber or shielded ge, time in Quick Purge mode should be controlled. Discuss your setup with your safety artments to ensure that the oxygen flow in your working environment is adequate to ogen build up. The use of oxygen sensor alarms is also recommended.
Power	Station	• 90–260 VAC, 47–63 Hz, 120VA
		IEC 320 C16 input outlet at delivered power supply
	Accessories	 100–240 V AC nominal, 50/60 Hz (depends on accessories and country/region)
	Fuse for main connector	Ensure that a 10 A lead fuse is available in your facility power line where the main connector is plugged in.
Environmental Conditions	Humidity	Tool area: 25% to 60%
		Support equipment area: 25% to 60%
	Temperature	 Operating range: 19°C to 24°C (66°F to 75°F)
		Target temperature: 22°C (72°F)
	NOTE Keep electronics r	ack side ventilators and air expellers clear for air circulation.
	Pollution level	• 1 (IEC 60664)
	Clean room class	Class 6 corresponding to DIN EN ISO 14644-1
	Tolerance	• 1K
	Vibrations	The facility should be free of vibrations caused by other equipment.
Additional Equipment	Laser cutter	Interlock switch is required for swivel lifts
	A200 thermal chuck	Air cooled (see www.att-systems.com for details)
	SE1000 shield enclosure	 Dimensions (WxDxH): 1000 mm (39.4 in.) x 1220 mm (48.0 in.) x1275 mm (50.2 in.) Extra space is required for access.
	Table	Extra space next to the probe system is required for the PC when equipped with motorized accessories.
	VIT801 vibration isolation	For dimensions and points of support, see VIT 801 Vibration Isolation Table on

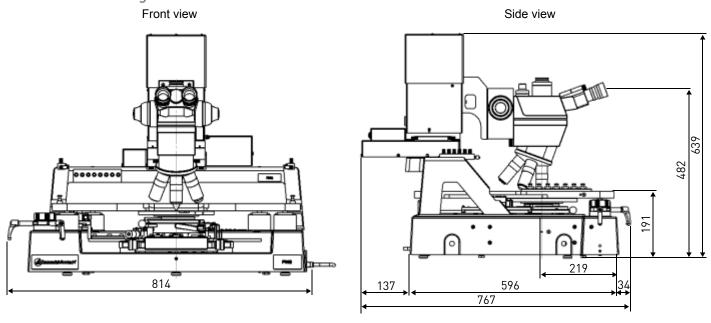
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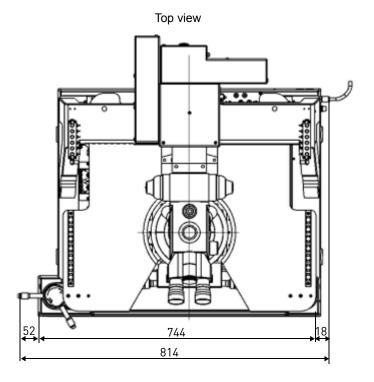
PM8 Probe Station

Station with fixed bridge	• 814 mm (32.0 in.) x 767 mm (30.2 in.) x 639 mm (25.2 in.)
Station with movable bridge	• 919 mm (36.2 in.) x 685 mm (27.0 in.) x 646 mm (25.4 in.)
Station with accessories	Optional accessories such as cameras and laser cutters can increase the total height up to 900 mm (35.4 in.).
Station with fixed bridge	• 130 kg (287 lb.)
Station with movable bridge	• 170 kg (375 lb.)
Probe station box	• 1250 mm (49.2 in.) x 870 mm (34.2 in.) x 760 or 1160 mm (29.9 or 45.7 in.)
Accessories box	• 800 mm (31.5 in.) x 1200 mm (47.2 in.) x 800 mm (31.5 in.)
Vibration isolation table box	• 1000 mm (39.4 in.) x 1000 mm (39.4 in.) x1050 mm (41.3 in.)
	 With dark box adapter: 1500 mm (59.0 in.) x 1400 mm (55.1 in.) x 1120 mm (44.0 in.)
Probe station box	• 170 or 220 kg (375 or 485 lb.)
Accessories box	• 120 kg (265 lb.)
Vibration isolation table box	With dark box adapter: 245 kg (540 lb.)
	Station with movable bridge Station with accessories Station with fixed bridge Station with movable bridge Probe station box Accessories box Vibration isolation table box Probe station box Accessories box

Dimensions (in mm)

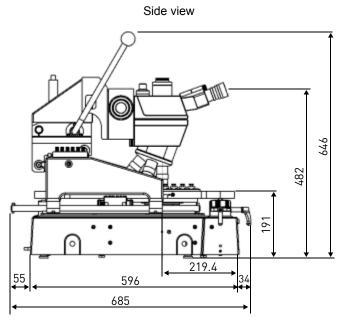
PM8 with Fixed Bridge





PM8 with Movable Bridge

Front view



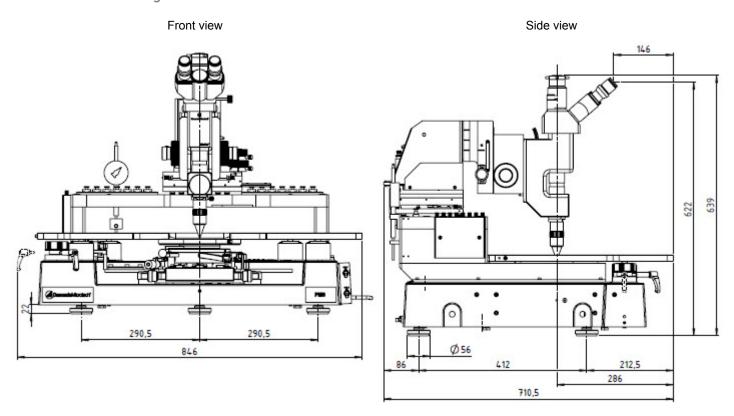
Top view

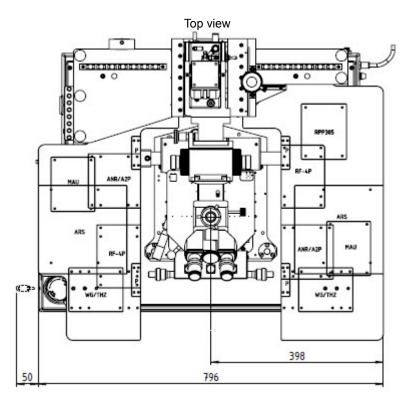
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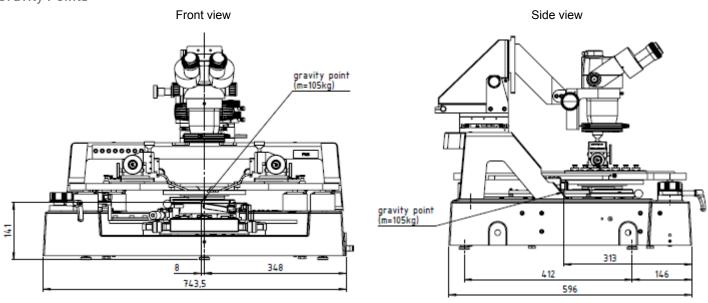
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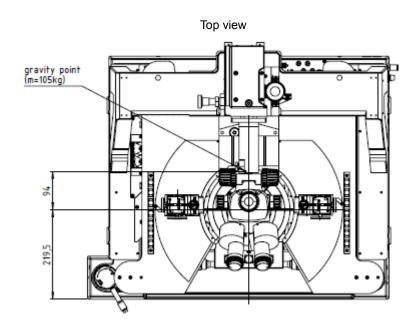
PM8 with MMW Bridge



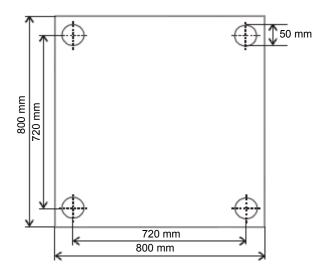


Gravity Points





VIT 801 Vibration Isolation Table



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