

PA210 BlueRay Probe Station

This guide defines the facility requirements for operation of your PA210 BlueRay 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	<ul style="list-style-type: none"> • Less than 200 mbar absolute • Flow rate insignificant • 8 mm hose (US 5/16-inch)
	Compressed air for vibration isolation table	<ul style="list-style-type: none"> • Filtered, dry and oil-free • Minimum 4 bar to 8 bar maximum (58 to 116 psi) • Flow rate insignificant • 8 mm hose (US 5/16-inch)
	For detailed information on thermal system requirements, refer to the ATT thermal facility planning guide for your configuration.	
Power	Probe station (fully-automated and semi-automated stations)	<ul style="list-style-type: none"> • Single phase: <ul style="list-style-type: none"> – 115/230 V AC nominal – 50/60 Hz – 500 VA • Main connector: <ul style="list-style-type: none"> – North America: grounded IEC appliance inlet C14, according to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin temperature 70°C, 10A, protection class I. A region dependent power cord connects IEC C14 to common local power plug (1 phase, grounded) – Europe: grounded IEC appliance inlet C14, according to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin temperature 70°C, 10A, protection class I. A region dependent power cord connects IEC C14 to common local power plug (1 phase, grounded) • Facility power line fuse: minimum 15A
	Protection class	I (IEC 61140)
	Transient overvoltage	Overvoltage category II (IEC 60364-4-443)
	Circuit breaker	Minimum rating: 10,000 AIC
Environmental Conditions	Humidity	<ul style="list-style-type: none"> • Tool area: 25% to 60% • Support equipment area: 25% to 60%
	Temperature	<ul style="list-style-type: none"> • Operating range: 19°C to 24°C • Target temperature: 22°C <p>NOTE</p> <p>Keep electronics rack side ventilators and air expellers clear for air circulation.</p>
	Altitude	• <2000 m (6500 feet)
	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.

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Laser	Fully-automated probe station only	<ul style="list-style-type: none"> Probe station classified according to IEC60825-1:2014 Laser Class 1 Internal laser source: peak power 2 mW, 20kHz 10% duty cycle, 660-680 nm wavelength 									
Reliability	MTBF 3000 h; MTTR 24 h; availability 99%										
Dimensions (WxDxH)	Probe station	• 700 x 848 x 1099 min./1822 max. mm (27.6 x 33.4 x 43.3 min./71.7 max. inches)									
	Probe station (with MHU200)	• 1143 x 904 x 1120 min./1822 max. mm (45 x 35.6 x 44.1 min./71.7 max. inches)									
	Electronics rack	• 450 x 400 x 230 mm (17.7 x 15.7 x 9.1 inches), with connectors installed (option to integrate in rack)									
	Control PC	Integrated in base table.									
	Vibration isolation table	For dimensions and support points, see Dimensions (mm) on page 4.									
	Optional instrument shelf	<ul style="list-style-type: none"> Left side configuration: additional 95 mm (3.7 inches) required at left side, plus 640 mm (25.2 inches) clearance for pivot arm Rear side configuration: additional 123 mm (4.8 inches) required at rear, plus 230 mm (9.1 inches) front side clearance for pivot arm 									
	Additional clearance	<table border="1"> <tr> <td>Front</td> <td>• 800 mm (31.5 inches) for operator/installation</td> </tr> <tr> <td>Back</td> <td>• 200 mm (7.9 inches) for cables</td> </tr> <tr> <td>Left</td> <td>• 600 mm (23.6 inches) during installation or service</td> </tr> <tr> <td>Right</td> <td></td> </tr> <tr> <td>Top</td> <td>• 2500 mm (98.4 inches)</td> </tr> </table>	Front	• 800 mm (31.5 inches) for operator/installation	Back	• 200 mm (7.9 inches) for cables	Left	• 600 mm (23.6 inches) during installation or service	Right		Top
Front	• 800 mm (31.5 inches) for operator/installation										
Back	• 200 mm (7.9 inches) for cables										
Left	• 600 mm (23.6 inches) during installation or service										
Right											
Top	• 2500 mm (98.4 inches)										
Weight	Probe station (with vibration isolation table)	<ul style="list-style-type: none"> 360 kg (794 pounds) 90 kg (198 pounds) per each of (4) feet 									
	MHU200	<ul style="list-style-type: none"> 240 kg (529 pounds) 60 kg (132 pounds) per each of (4) feet 									
Shipping Dimensions (WxDxH) (approx. values)	Probe station crate	• 1310 x 1310 x 1780 mm (51.6 x 51.6 x 70.1 inches)									
	MHU200 crate	• 860 x 1240 x 1470 mm (33.9 x 48.8 x 57.9 inches)									
	Accessories	• 800 x 1200 x 750/970 mm (31 x 47 x 30 / 38 inches)									
Shipping Weight (approx. values)	Probe station crate	• 550 kg (1213 pounds)									
	MHU200 crate	• 350 kg (772 pounds)									
	Accessories	• 200 kg (441 pounds)									

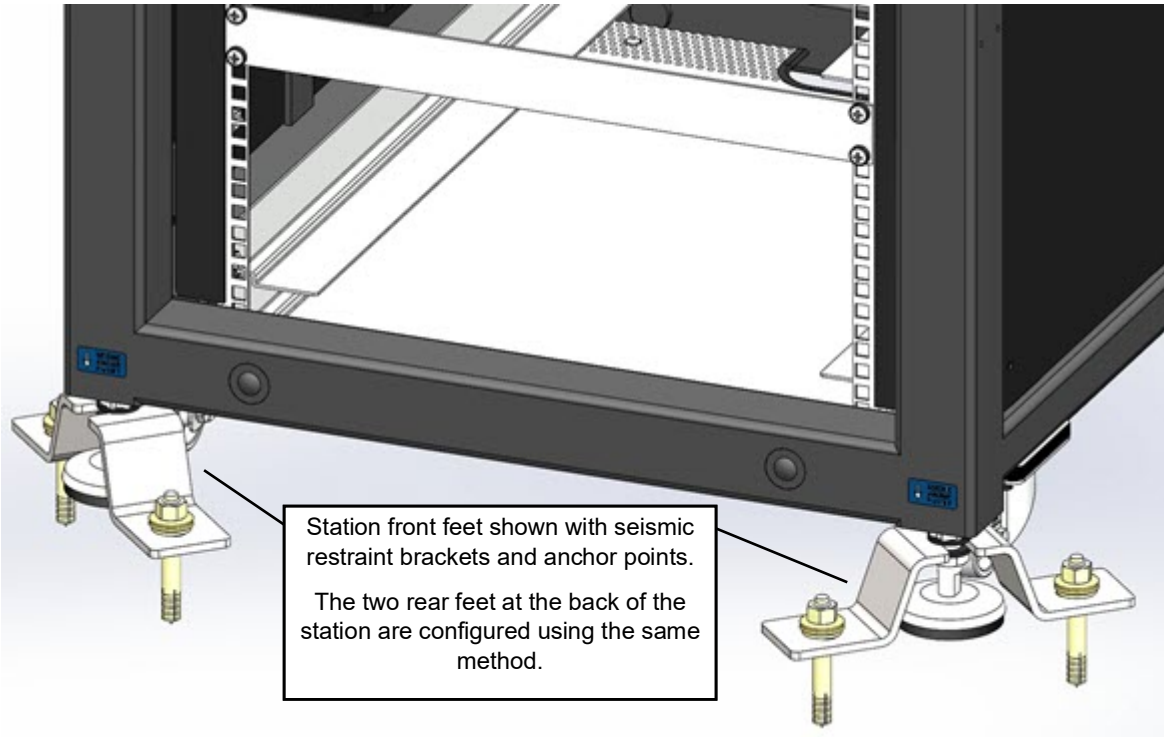
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Seismic Restraints



NOTE

If your system is configured with an MHU200 loader, seismic forces are discharged with the probe frame and separate anchor points are not required on the MHU frame.

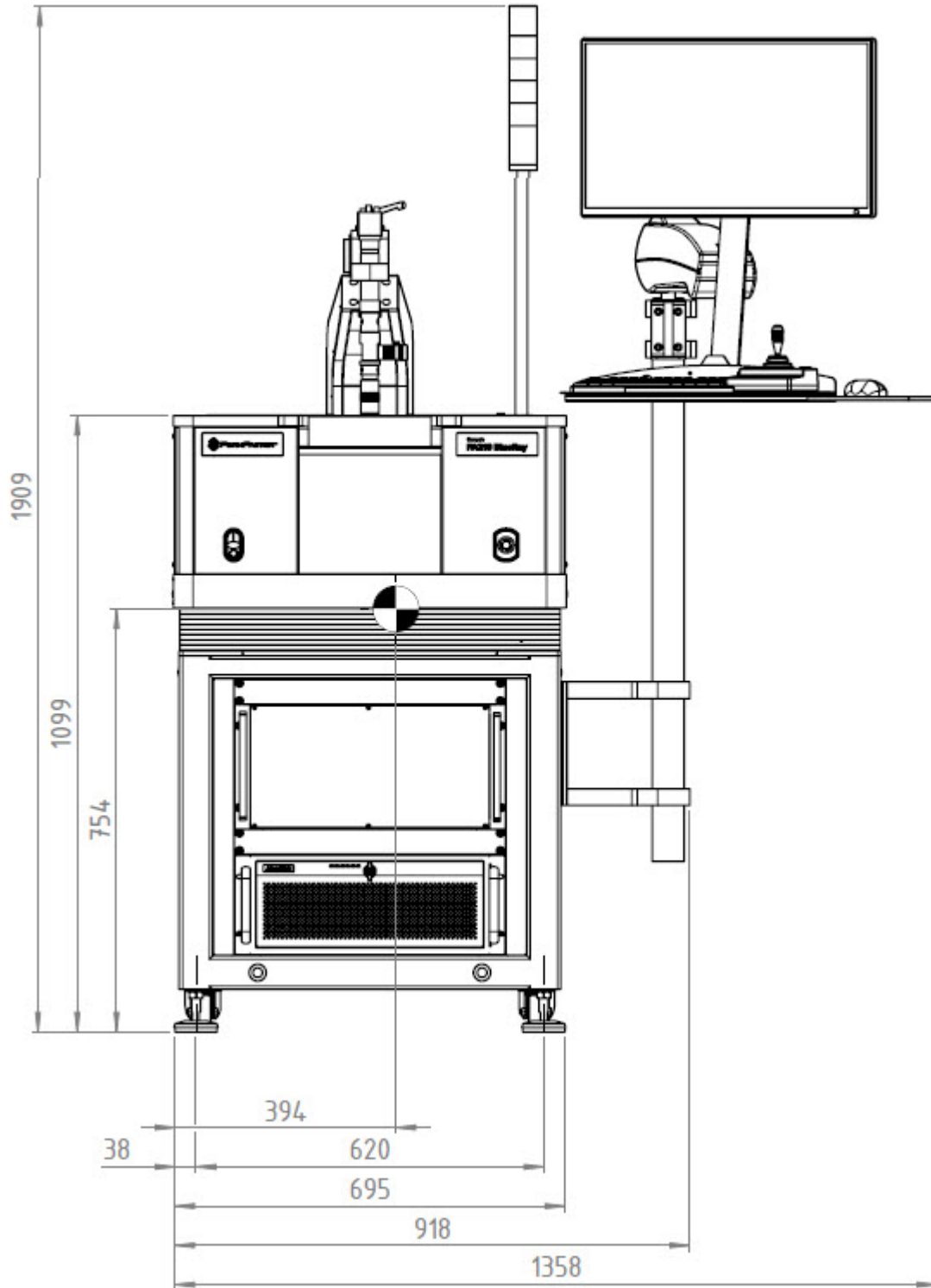


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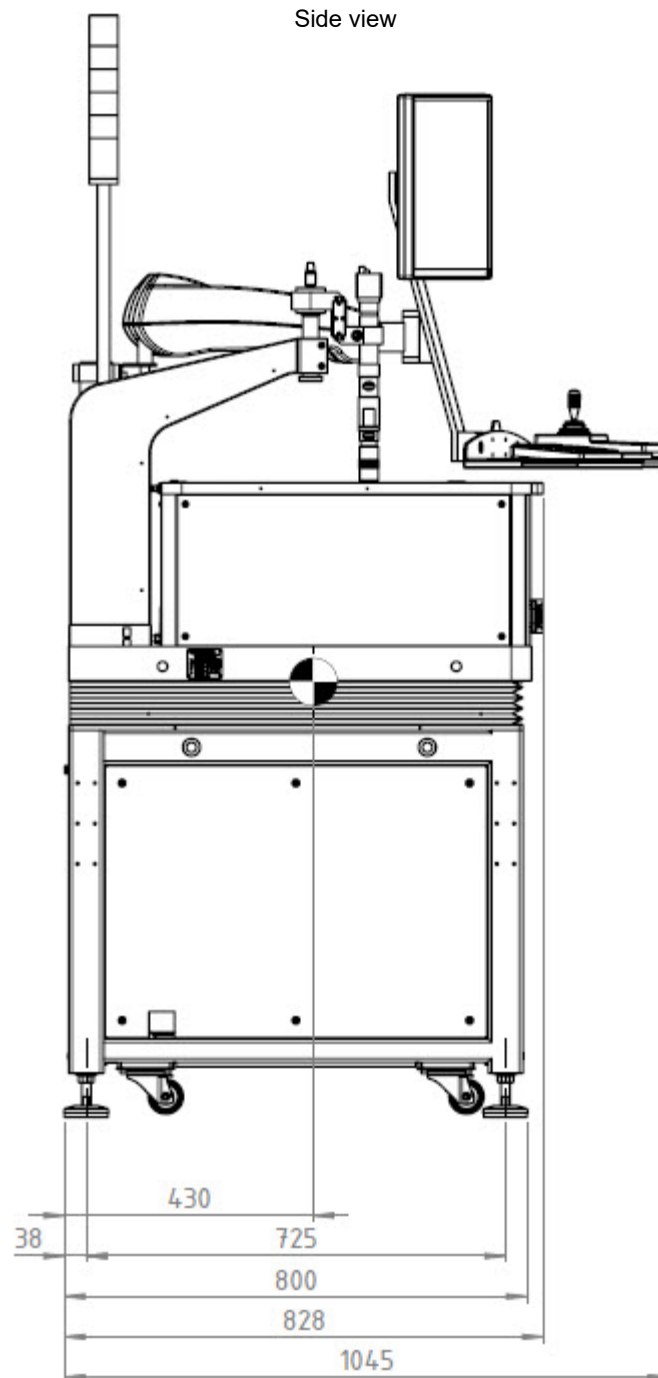
Dimensions (mm)

Semi-automated Probe Station

Front view

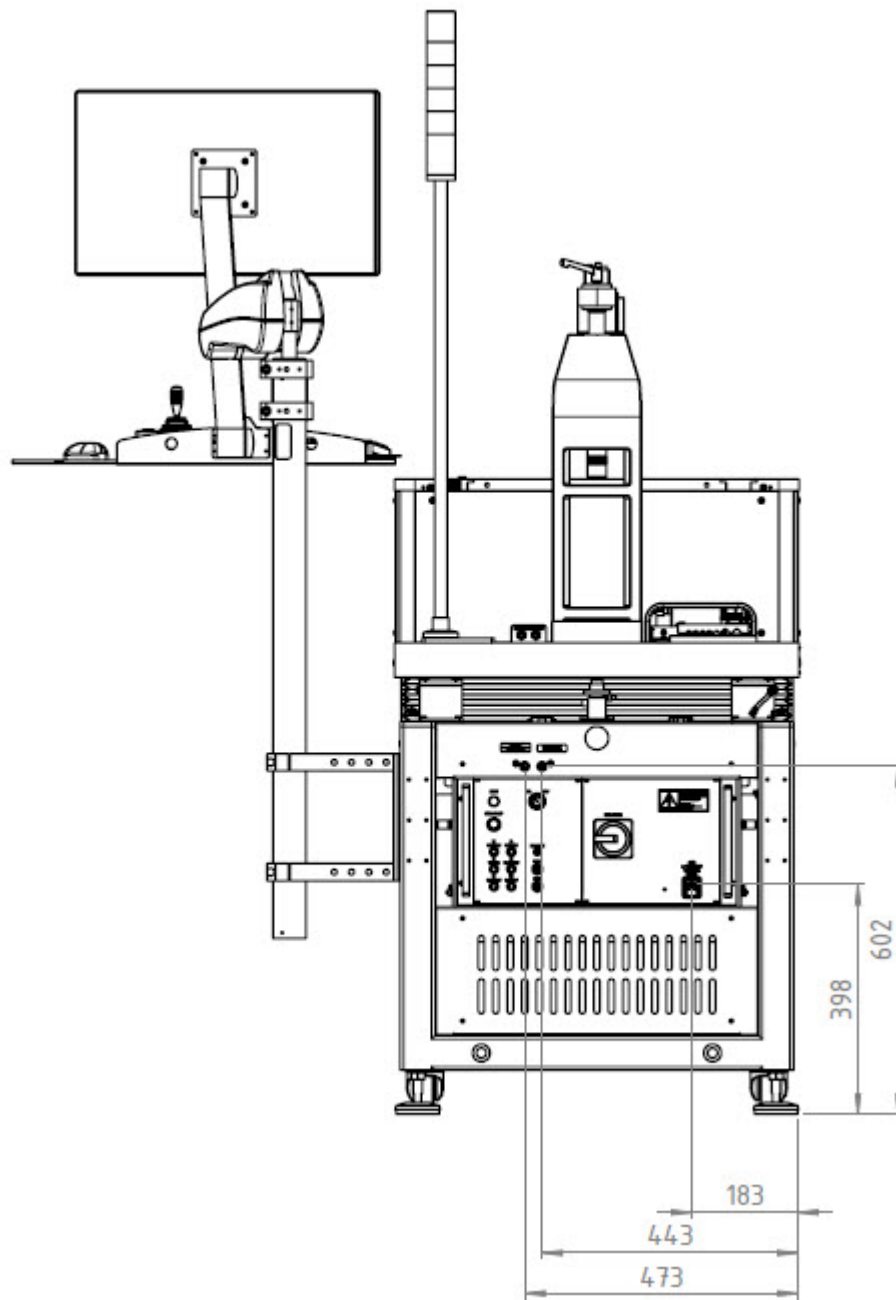


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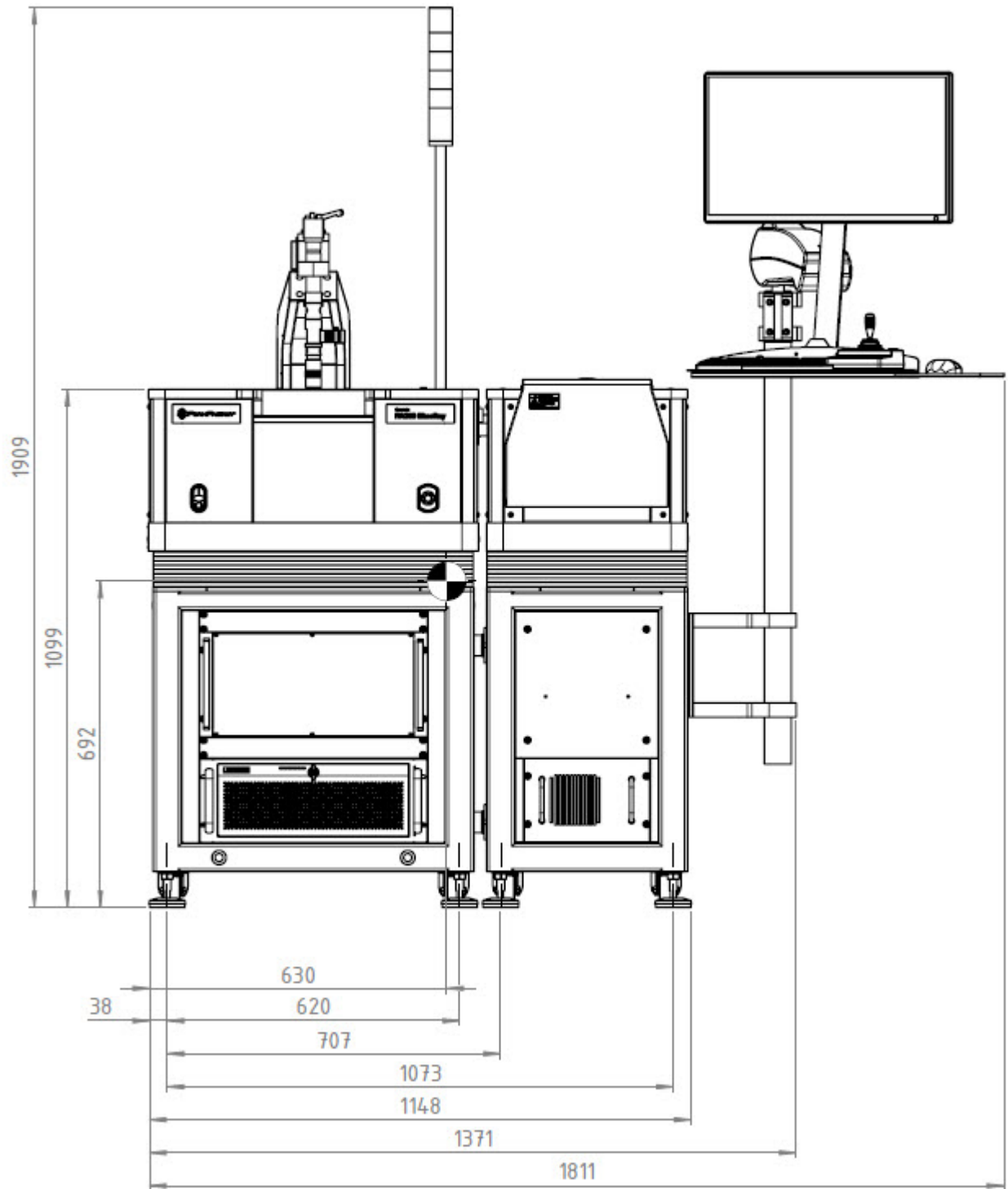
Rear view



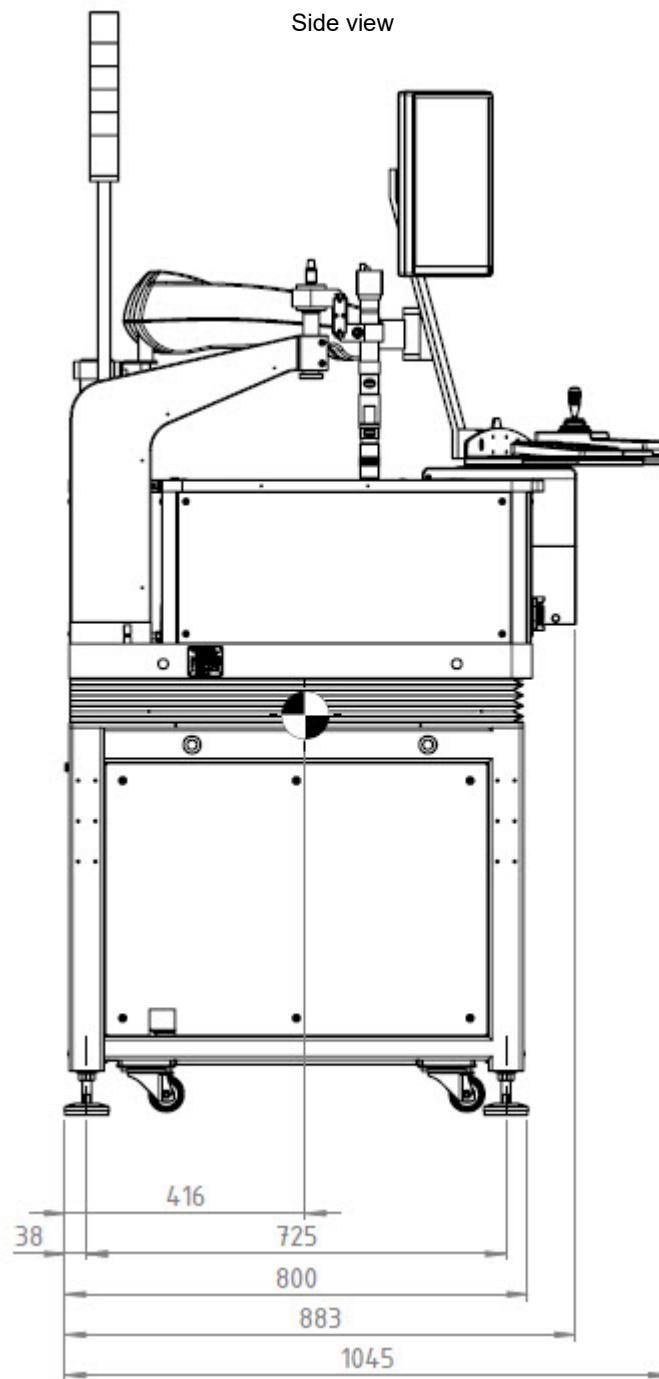
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Fully-automated Probe Station (with MHU200)

Front view

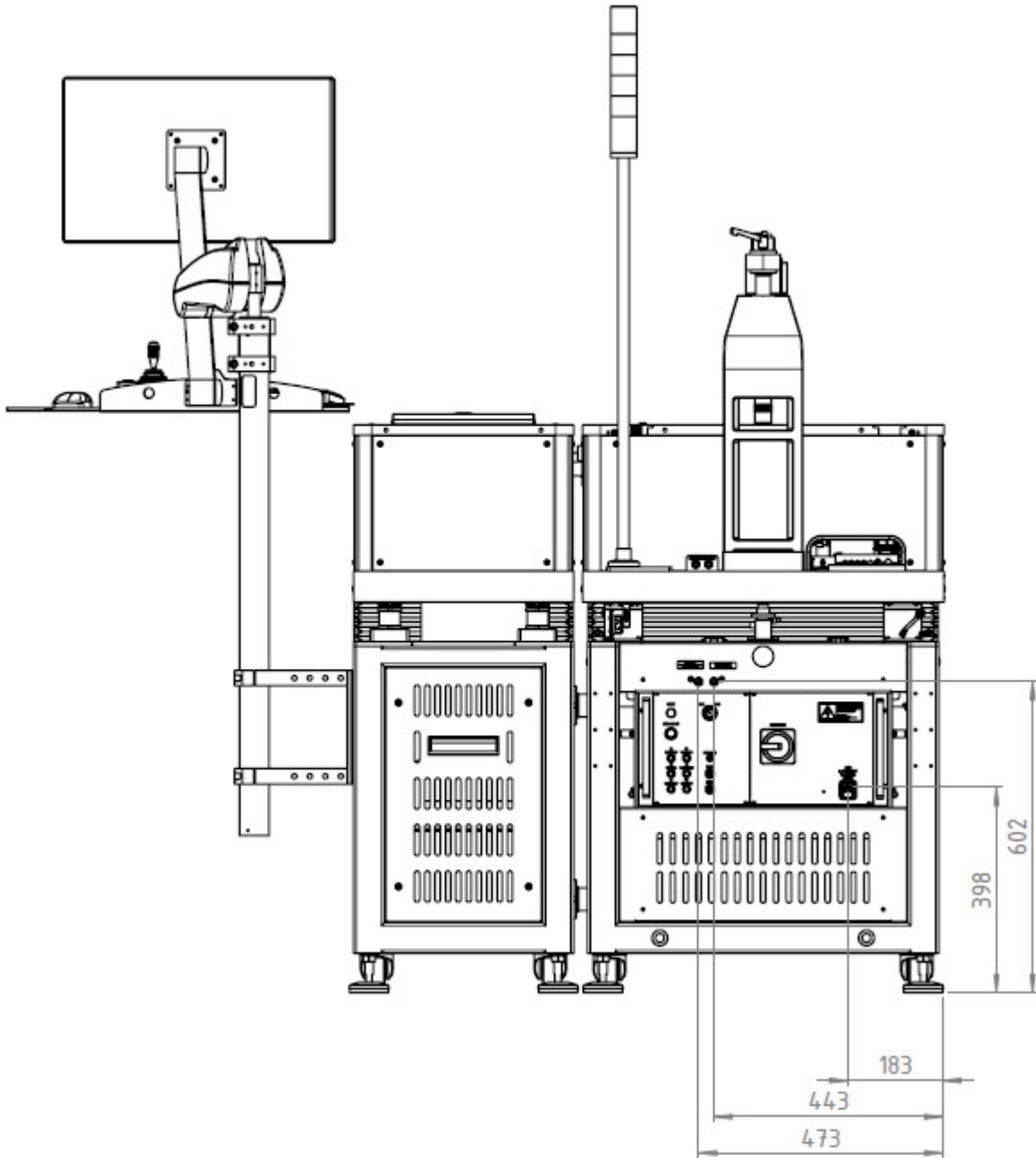


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Rear view



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