

Turnkey upward-looking interferometer workstation for radius of curvature and surface form metrology of spherical optics.

SYSTEM OVERVIEW

Measurement Capability	Utilizing ZYGO's Verifire or DynaFiz interferometer, this robust motorized Z-axis system measures radius of curvature and surface form of spherical optics
Interferometer Compatibility ⁽¹⁾	4-inch Verifire 4/6-inch DynaFiz
Z-Axis Travel Range	1.0 m, motorized
Z-Axis Travel Speed	50 mm / second
Z-Axis Position Feedback	Metal scale encoder
X/Y Travel Range	±10 mm, manual
Part Stage Max Load	5 kg
Vibration Isolation System	Integrated passive vibration isolation
Options	Safety enclosure, includes light curtain motion interlock
Physical Envelope	Without safety enclosure: 95 x 101 x 200 cm (37.4 x 39.8 x 78.7 in.) With safety enclosure: 110 x 140 x 207 cm (43.3 x 55.1 x 81.5 in.)
Weight	Without safety enclosure: 1,750 lbs (800 kg) With safety enclosure: 2,000 lbs (913 kg)
Accessories	See ZYGO Laser Interferometer Accessory Guide, OMP-0463
Warranty	1 year

PERFORMANCE

Z-axis Resolution	1 μ m
Radius of Curvature Repeatability ⁽²⁾	≤ 25 μ m (0.001 in.)
Error ⁽³⁾	≤ 50 μ m (0.002 in.)



UTILITY REQUIREMENTS

Power	100 to 240 VAC, 50/60 Hz
Compressed Air	80 psi (5.5 bar); dry and filtered source (required for vibration isolation)

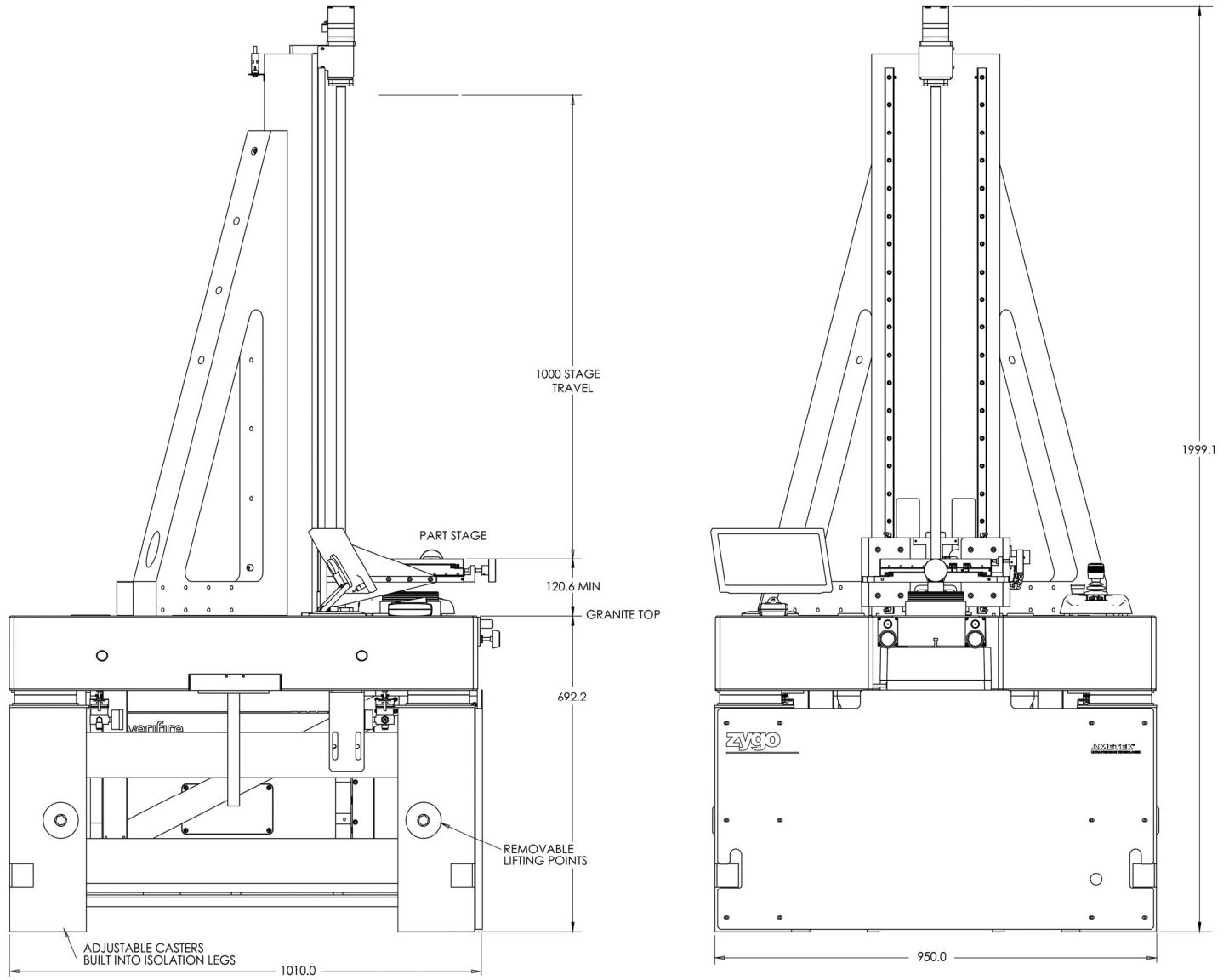
OPERATIONAL ENVIRONMENT

Temperature	15 to 30°C (59 to 86°F)
Rate of Temp. Change	<1.0°C per 15 min
Humidity	5 to 95% relative, non-condensing

Notations

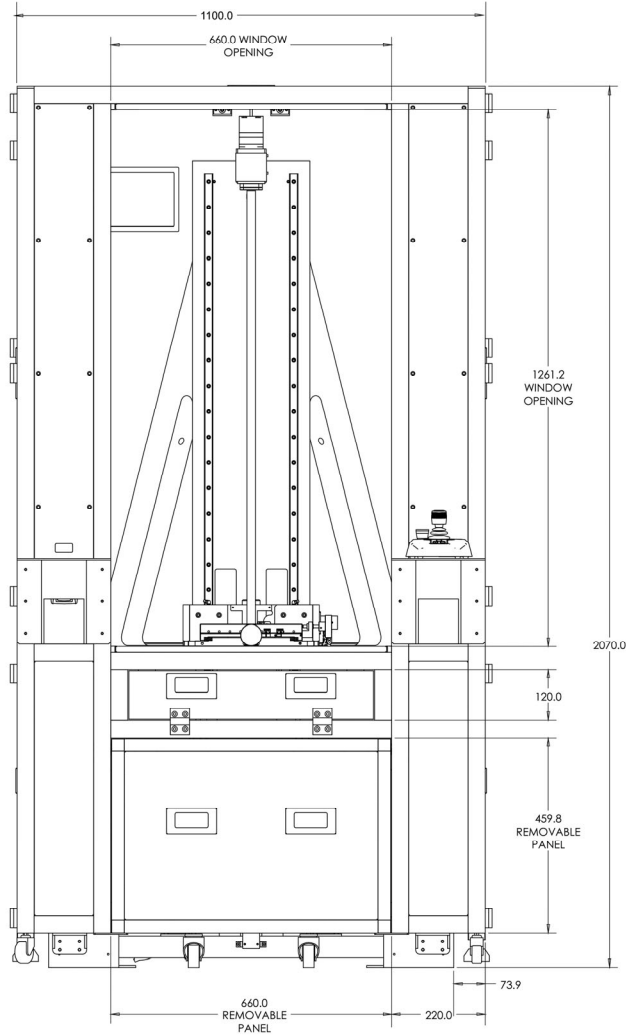
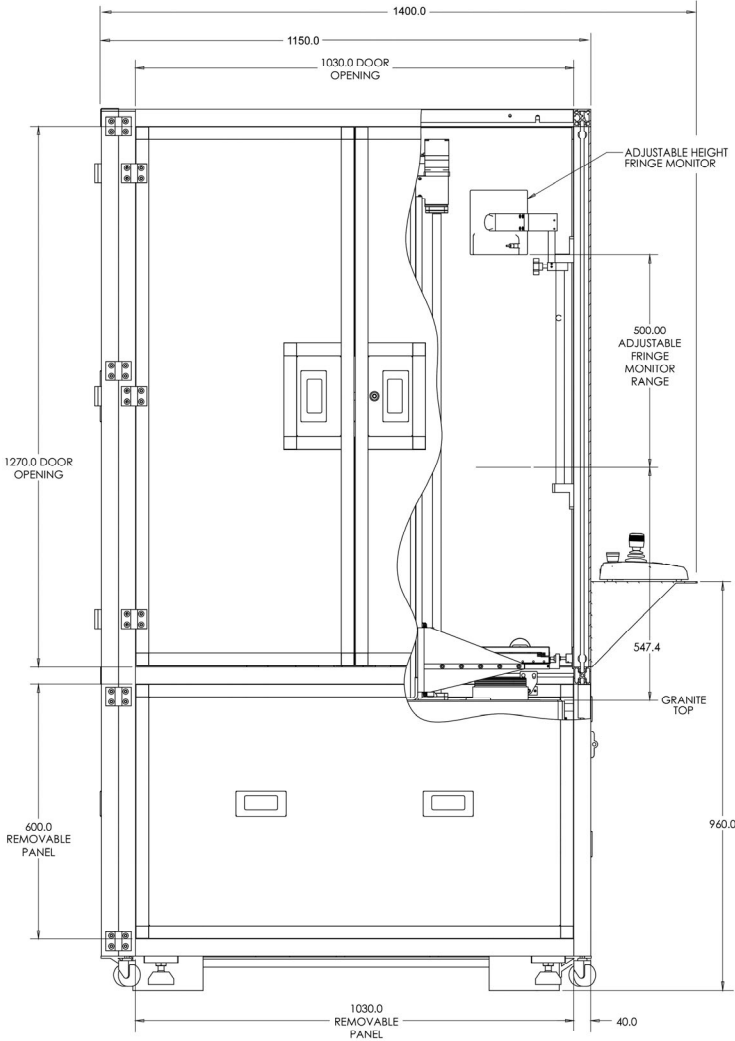
1. For interferometer and laser specifications refer to the corresponding ZYGO interferometer specification sheet.
2. Repeatability based on an acquisition using 8 phase averages and making 10 consecutive measurements from the confocal to the catseye position. Test part, reference optic and measurement cavity thermally stabilized.
3. Error defined as the difference between encoded radius measurement and an interferometric based measurement in a stable environment.

ZYGO P/N 6610-0100-01 VTS without Enclosure



Dimensions in mm

ZYGO P/N 6610-0100-02 VTS with Enclosure



Dimensions in mm