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ZYGO
Laser Interferometer
Accessory Guide

OMP-0463AL



zygo®

AMETEK®
ULTRA PRECISION TECHNOLOGIES

Introduction

ZYGO is the world leader in laser interferometers, launching the industry over 40 years ago. We provide flexible and versatile interferometer accessories and options to meet your unique metrology requirements. This guide provides the information you need to help you configure and specify your accessories.

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About ZYGO Optical Elements

This section provides background information for the optical elements listed in this guide. This includes: transmission flats (TF), reference flats (RF), transmission spheres (TS), reference spheres (RS), and attenuation filters.

Standard optical elements accommodate surfaces with 0.1% to 40% reflectivity. For surface reflectivity greater than 40%, either an attenuation filter or a Dynaflect coated transmission element may be used to reduce the intensity of the beam returning to the interferometer.

Dynaflect™ is a propriety coating developed by ZYGO to increase the dynamic reflectivity range; these optics accommodate surfaces with 4% to 99% reflectivity.

Ultraflat™ is the name of our best transmission flats; these feature premium quality components and consistent wavefront in both horizontal and vertical orientation. These elements are recommended for use with our ultra-high resolution interferometers.

Ultrasphere™ is the name of our best transmission spheres; these feature premium quality components. These elements are also recommended for use with our ultra-high resolution interferometers.

Quality is specified using the PVr parameter over the clear aperture with the interferometer in a horizontal configuration. PVr is defined as the 36 term Zernike fit plus 3 times the rms residual of the Zernike fit.

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Transmission Flats (TF)

ZYGO Number	Description	Clear Aperture	Quality
6024-0312-01	33 mm, 4%	32.5 mm	λ/20 PVr
6024-0420-01	33 mm, Dynaflect	32.5 mm	λ/20 PVr
6024-0314-11	4 inch, 4%	100 mm	λ/20 PVr
6024-0385-11	4 inch, Dynaflect	100 mm	λ/20 PVr
6024-0485-11	4 inch, 4%, Ultraflat	100 mm	λ/50 PVr
6024-0485-14	4 inch, Dynaflect, Ultraflat	100 mm	λ/50 PVr
6024-0341-11	4 inch, long radius	100 mm	λ/20 PVr
6024-0317-11	6 inch, 4%	150 mm	λ/20 PVr
6024-0419-11	6 inch, Dynaflect	150 mm	λ/20 PVr
6024-0488-11	6 inch, 4%, Ultraflat	150 mm	λ/40 PVr
6024-0488-14	6 inch, Dynaflect, Ultraflat	150 mm	λ/40 PVr
6068-0452-01	12 inch, 4%	300 mm	λ/15 PVr
6068-0452-11	12 inch, 4%	300 mm	λ/25 PVr
6068-0453-01	12 inch, Dynaflect	300 mm	λ/15 PVr
6068-0453-04	12 inch, Dynaflect	300 mm	λ/25 PVr
6068-0456-01	18 inch, 4%	450 mm	λ/15 PVr
6068-0456-11	18 inch, 4%	450 mm	λ/25 PVr
6068-0457-01	18 inch, Dynaflect	450 mm	λ/15 PVr
6068-0457-04	18 inch, Dynaflect	450 mm	λ/25 PVr



Transmission flats measure surface quality or transmitted wavefront of flat surfaces or optics. The 4 and 6-inch flats mount directly onto the corresponding size interferometer or mount.

A storage case is included with the 33 mm, 4 in. and 6 in. elements. A quality certificate is included with all elements.

Reference Flats (RF)

ZYGO Number	Description	Clear Aperture	Quality
6024-0312-01	33 mm, 4% TF	32.5 mm	λ/20 PVr
6024-0314-11	4 inch, 4% TF	100 mm	λ/20 PVr
6024-0309-11	4 inch, 90%	100 mm	λ/20 PVr
6024-0317-11	6 inch, 4% TF	150 mm	λ/20 PVr
6024-0311-11	6 inch, 90%	150 mm	λ/20 PVr
6068-0454-01	12 inch, 4%	300 mm	λ/15 PVr
6068-0454-11	12 inch, 4%	300 mm	λ/25 PVr
6068-0455-01	12 inch, 90%	300 mm	λ/15 PVr
6068-0458-01	18 inch, 4%	450 mm	λ/15 PVr
6068-0458-11	18 inch, 4%	450 mm	λ/25 PVr
6068-0459-01	18 inch, 90%	450 mm	λ/15 PVr



Use an RF with a TF when measuring the transmitted wavefront of flat optics. The 4 and 6-inch flats mount onto the corresponding size interferometer or mount.

A storage case is included with the 33 mm, 4 in. and 6 in. elements. A quality certificate is included with all elements.

Reference Spheres (RS)

ZYGO Number	Description	R/#	Quality
6024-0302-01	25 mm, 4%	0.51	λ/10 PVr*
6024-0448-01	25 mm, 40%	0.51	λ/10 PVr*
6024-0304-01	37 mm, 4%	0.68	λ/20 PVr
6024-0305-01	37 mm, 40%	0.68	λ/20 PVr

* The 25 mm RS has λ/20 PVr surface quality in the central f/0.65 subaperture.



Use an RS with a TS when measuring the transmitted wavefront of spherical optics. Spheres mount onto the Adjustable Mount with a Self Centering Element Holder. A storage case and quality certificate are included with each element.

Transmission Spheres (TS)

ZYGO Number	Description	f/#	Quality
6024-0454-11	4 inch	0.65	λ/10 PVr
6024-0454-13	4 inch	0.65	λ/20 PVr
6024-0444-11	4 inch	0.75	λ/10 PVr
6024-0444-13	4 inch	0.75	λ/20 PVr
6024-0444-14	4 inch, Dynaflect	0.75	λ/10 PVr
6024-0444-15	4 inch, Ultrasphere	0.75	λ/40 PVr
6024-0430-11	4 inch	1.5	λ/10 PVr
6024-0430-13	4 inch	1.5	λ/20 PVr
6024-0430-14	4 inch, Dynaflect	1.5	λ/10 PVr
6024-0430-15	4 inch, Ultrasphere	1.5	λ/40 PVr
6024-0399-11	4 inch	3.3	λ/10 PVr
6024-0399-13	4 inch	3.3	λ/20 PVr
6024-0399-14	4 inch, Dynaflect	3.3	λ/10 PVr
6024-0399-15	4 inch, Ultrasphere	3.3	λ/40 PVr
6024-0404-11	4 inch	7.1	λ/10 PVr
6024-0404-13	4 inch	7.1	λ/20 PVr
6024-0404-14	4 inch, Dynaflect	7.1	λ/10 PVr
6024-0410-11	4 inch	10.7	λ/10 PVr
6024-0410-13	4 inch	10.7	λ/20 PVr
6024-0410-14	4 inch, Dynaflect	10.7	λ/10 PVr
6024-0458-11	6 inch	0.8	λ/10 PVr
6024-0458-13	6 inch	0.8	λ/20 PVr
6024-0455-11	6 inch	1.1	λ/10 PVr
6024-0455-13	6 inch	1.1	λ/20 PVr
6024-0414-11	6 inch	2.2	λ/10 PVr
6024-0414-13	6 inch	2.2	λ/20 PVr
6024-0413-11	6 inch	3.5	λ/10 PVr
6024-0413-13	6 inch	3.5	λ/20 PVr
6024-0417-11	6 inch	5.4	λ/10 PVr
6024-0417-13	6 inch	5.4	λ/20 PVr
6024-0405-11	6 inch	7.2	λ/10 PVr
6024-0405-13	6 inch	7.2	λ/20 PVr



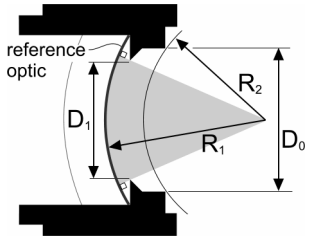


Transmission spheres measure surface quality or transmitted wavefront of concave or convex surfaces or optics. The spheres mount directly on the corresponding interferometer or mount. The 6 inch spheres have integral lift handles. A storage case and quality certificate are included with each element.

Transmission spheres are specified at an operational wavelength of 633 nm. For UV and IR transmission elements, contact ZYGO.

TS Part Coverage

TS Diameter	f/#	R_1 (mm)	D_1 (mm)	D_0 (mm)	R_2 (mm)
4 inch	f/0.65	38.7	59.5	62.0	36
4 inch	f/0.75	48.2	64.3	65.5	45
4 inch	f/1.5	121.2	80.8	93.7	115
4 inch	f/3.3	298.0	90.3	89.2	282
4 inch	f/7.1	681.7	96.0	98.1	674
4 inch	f/10.7	1039.2	97.1	100.4	1030
6 inch	f/0.8	80.0	100.0	104.9	77
6 inch	f/1.1	123.3	112.1	128.4	118
6 inch	f/2.2	290.0	131.8	164.1	274
6 inch	f/3.5	475.8	135.9	164.1	458
6 inch	f/5.4	776.4	143.8	164.1	761
6 inch	f/7.2	1045.0	145.1	164.1	1022



R_1 is the radius of the TS reference optic.

D_1 is the TS clear aperture ($R_1 \div f/\#$).

D_0 is the housing opening diameter.

R_2 is the maximum measurable convex part radius when part diameter is larger than D_0.

For best *concave* test part coverage use a TS with f/# faster (smaller) than part R/# (radius of curvature ÷ diameter).

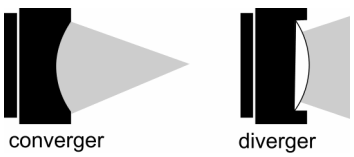
For best *convex* test part coverage use a TS with f/# faster than part R/#; coverage is limited if the part diameter is larger than the TS clear aperture; if using an attenuation filter, the measurable part radius is reduced.

To calculate test part coverage, use the ZYGO Transmission Sphere Selector Tool, OMP-0495.

For part coverage questions, contact ZYGO.

Converger TS and Diverger TS

ZYGO Number	Type	f/#	Quality (PVr)	Max. Radius or Shorter (mm)	Min. Radius or Longer (mm)
6024-0283-01	Diverger	f/15	λ/10		-1500
6024-0284-01	Converger	f/15	λ/10	+1500	
6024-0285-01	Diverger	f/25	λ/10		-2500
6024-0286-01	Converger	f/25	λ/10	+2500	
6024-0287-01	Diverger	f/35	λ/10		-3500
6024-0288-01	Converger	f/35	λ/10	+3500	
6024-0289-01	Diverger	f/45	λ/10		-4500
6024-0290-01	Converger	f/45	λ/10	+4500	
6024-0291-01	Diverger	f/80	λ/10		-8000
6024-0292-01	Converger	f/80	λ/10	+8000	





The *Converger TS* is used for testing midrange convex spherical surfaces. The test surface radius must be less than or equal to the Converger radius.

The *Diverger TS* is used for testing midrange concave spherical surfaces. The test surface radius must be greater than or equal to the Diverger radius, so the center of curvature is coincident with focus.

A negative radius denotes a concave surface; a positive value denotes a convex surface.

The Converger TS and Converger TS mount to a 4 inch bayonet interface. A storage case and quality certificate are included with each element.

Mounts

ZYGO Number	Description
6500-0105-13	**4 in. Accessory Receptacle** Mounts to output of interferometer or Phase Measuring Receptacle (PMR). Features a 4 inch bayonet interface. Provides 4.25 in. (108 mm) beam centerline height and delivers ±2° tip and tilt adjustment.
6500-0111-13	**6 in. Accessory Receptacle** Mounts to output of interferometer or Phase Measuring Receptacle (PMR). Features a 6 inch bayonet interface. Provides 4.25 in. (108 mm) beam centerline height and delivers ±2° tip and tilt adjustment.



6500-0104-53	**4 in. Adjustable Mount** Holds 4 inch diameter test parts or optics. Provides 4.25 in. (108 mm) beam centerline height and delivers ±2° tip and tilt adjustment. Accepts matching accessories.
6500-0106-53	**6 in. Adjustable Mount** Holds 6 inch diameter test parts or optics. Provides 4.25 in. (108 mm) beam centerline height and delivers ±2° tip and tilt adjustment. Accepts matching accessories.



About Mount Adjustment Screws

The mounts on this page use 100 TPI adjustment screws with a standard 3/8 in. x 40 TPI collet. These screws may be replaced with similar adjustment screws or micrometers. Note: use of substitution parts may affect normal operation of the mount and void the warranty.

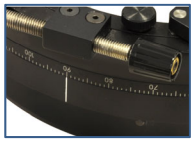
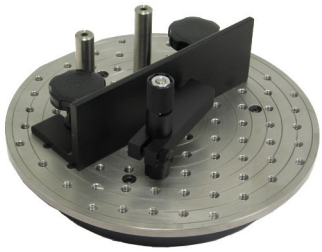
6500-0475-01	**5-Axis Mount** Holds 4 inch diameter accessories and provides 13 mm X and Y adjustment, 50 mm Z adjustment, and ±2° tip and tilt adjustment. The beam centerline height is 4.25 in. (108 mm). Add-ons: 6 in. Adapter (6500-0469-01) for use with 6 inch accessories Mount Guide (6500-0479-01) for use with rail kit



6500-0110-03	**X-Y Stage** Attaches to Accessory Receptacle or Adjustable Mount. Provides 13 mm X and Y adjustment. Accepts 6 inch diameter accessories.



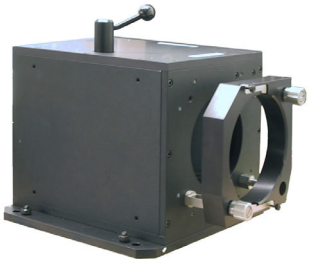
Mount Accessories

ZYGO Number	Description	
6500-0656-50	**2-Axis Motorized Mount Kit** Attaches to 4 or 6 inch 2-Axis Adjustable Mount (not included). Provides automated tip/tilt and/or auto null capability. Includes Joystick and Electronic Enclosure (not shown). Requires CAN based mainframe; and MetroPro 9.0 or later, or Mx software.	
6024-0161-01	**4 in. Self Centering Element Holder (SCEH)** Mounts to 4 inch bayonet interface. Holds elements of various sizes from 5 mm to 100 mm diameter. The posts touching the test part are fixed.	
6500-0107-01	**6 in. Self Centering Element Holder (SCEH)** Mounts to 6 inch bayonet interface and provides part rotation. Holds elements of various sizes from 5 mm to 200 mm diameter. Includes stackable V-block posts and straight posts. Instructions are included in the laser interferometer manual.	 
6500-0130-01	**Universal Element Holder** Mounts to 6 inch bayonet interface and provides a solid surface for holding non-round and odd shaped test parts. Features 1/4-20 UNC threaded holes. Includes adjustable hardware to hold test parts (as shown).	
6500-0137-01	**PVC Platform** Mounts to 6 inch bayonet interface and serves as part platform or custom fixture base for the downward interferometer configuration.	
6500-0132-01	**Accessory Adapter (6 in. – 4 in. Bayonet)** Mounts to 6 inch bayonet interface and enables use of 4 in. accessories.	

ZYGO Number	Description	
6024-0356-01	**Mounting Adapter (4 in. – 6 in. Bayonet)** This mounting adapter assembly mounts to the 5-Axis Mount so the 6 in. Self Centering Element Holder can be used.	
6024-0517-01	**25 mm/33 mm Adapter (4 in. – 25 mm/33 mm)** Mounts to 4 in. Accessory Receptacle or Adjustable Mount. Enables use of 25 mm/33 mm accessories with bayonet interface.	
6500-1334-01	**PMR Mounting Plate** Enables mounting of PMR to MUX Cube. Requires four 10-32 screws.	

Output Accessories

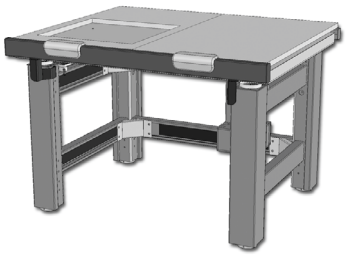
ZYGO Number	Description	
6024-0322-01	**4 in. Attenuation Filter** An attenuation filter is used to optimize measurement of highly reflective parts and helps produce good fringe contrast. The filter is positioned between the test part and a standard TF. Specifications Quality: ≤ λ/10 transmitted wavefront (PVr). Transmittance (4 in. filter): 20 ±4% @ 10° angle of incidence @ λ = 632.8 nm thru the pellicle.	
6024-0323-01	**6 in. Attenuation Filter** A 6 inch version of the filter.	
6024-0380-03	**4 in. to 6 in. Aperture Converter (vertical)** Mounts to 4 inch bayonet interface and converts 4 in. aperture to 6 in. for interferometers used in an upward or downward orientation.	
6024-0380-02	**4 in. to 6 in. Aperture Converter (horizontal)** Mounts to 4 inch bayonet interface and converts 4 in. aperture to 6 in. for interferometers used in a horizontal orientation. Includes a mounting stand to provide rigidity.	

ZYGO Number	Description	
6024-0429-01	**4 in. to 25 mm Aperture Converter** Mounts to 4 inch bayonet interface and converts 4 in. aperture to 25 mm. The converter has a focus range from +75 mm to -275 mm.	
6168-0100-03	**MUX Cube** Provides multiple 4 inch measurement channels; one straight, the other at 90 degrees. The beam path is selected with the knob. A Tip/Tilt Mount with 4 in. interface included (as shown). Add-on: PMR Mounting Plate (6500-1334-01)	
6500-0147-02	**PMR Assembly** The Phase Modulation Receptacle assembly enables piezo driven mechanical phase shifting. The assembly mounts to interferometer mainframe or MUX Cube. Add-on: PMR Mounting Plate (6500-1334-01)	
1115-801-070	**PMR Extension Cable** Used this 10 ft (300 cm) long cable when remotely mounting PMR on the MUX Cube.	

Remotes

ZYGO Number	Description	
6500-0559-14	**Wired Remote** Add to or replace your existing wired remote with this industrial-strength remote. Features Align/View, Measure, Focus, Zoom, and Source buttons.	
6500-0559-13	**Wireless Remote Kit** Adds a wireless remote to a system. This kit includes a wired remote plus a wireless remote. The wireless remote has approximately a 100 ft range. The wired remote serves as the antenna. Compatible with CAN based mainframes.	
1115-800-345	**Remote Extension Cable** This 10-meter cable enables you to use your wired remote at greater distances from the mainframe.	

Vibration Isolation and Tables

ZYGO Number	Description	
6090-0152-01	**Granite Top** Horizontal granite top only; no isolators. Measures 96 x 30 x 6 in.	
6068-0405-01 (1/4-20 holes) 6068-0405-01M (M6 holes) 6068-0405-01N (no holes)	**Stainless Steel Optical Table, 8 ft** An 8 ft horizontal stainless-steel table with four 28 in. isolator posts with casters. Isolates the interferometer from external vibration. Available with or without holes. Measures 96 x 36 x 8 in.	
6068-0405-02 (1/4-20 holes) 6068-0405-02M (M6 holes) 6068-0405-02N (no holes)	**Stainless Steel Optical Table, 10 ft** An 8 ft horizontal stainless-steel table with four 24 in. isolator posts with casters. Isolates the interferometer from external vibration. Available with or without holes. Measures 120 x 48 x 12 in.	
1840-700-104	**Isolation System & Workstation** Isolation system with work surface next to an interferometer in a vertical configuration. Isolates the interferometer from external vibration. Counterweighted for optimum performance. For use with 1 m and 1.5 m Vertical Flat Kits only. Measures 48 x 36 x 30 in.	
1840-700-015	**Stainless Steel Table with Isolation** Isolation system with a stainless-steel table to accommodate an interferometer in a vertical configuration. Isolates the interferometer from external vibration. Counterweighted for optimum performance. Measures 24 x 24 x 20 in.	
1840-700-118	**Stainless Steel Table with Isolation** Isolation system with a stainless-steel table to accommodate an interferometer in a vertical configuration. Isolates the interferometer from external vibration. Counterweighted for optimum performance. For use with 2 m Vertical Kit only. Measures 30 x 30 x 20 in.	
6300-2130-01	**Worktable** Small work-height standalone table for a computer. Provides a work surface near instrument. Includes one shelf to hold components. Measures 34 x 28 x 35 in.	

ZYGO Number	Description
6500-0179-02	**Optical Table Mounting Kit** Mounting hardware for horizontal tables with threaded holes. Secures the interferometer mainframe to the optical table. Accommodates both English 1 inch and metric 25 mm hole spacing.



Horizontal Radius of Curvature

Description

Horizontal radius metrology requires a Rail and a corresponding 5-Axis Rail Mount. Decide between the interferometric or encoded solutions and then select the desired rail length and whether the mount is manual or motorized.

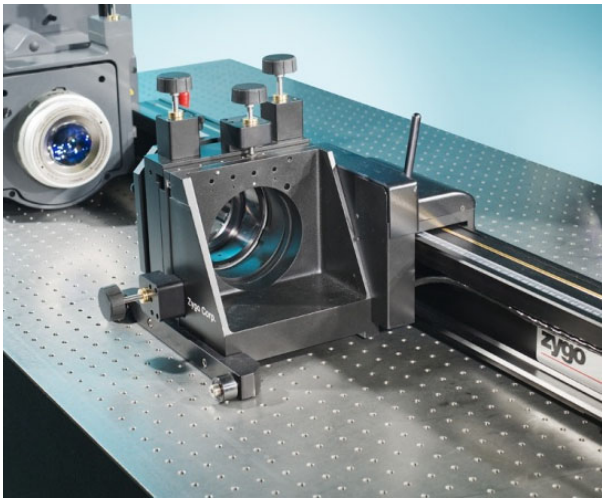
The *Encoded* solution provides precise (1 µm) z-axis position feedback directly to the software via an encoder.

The *Interferometric* solution provides ultra-precise (80 nm) z-axis position feedback directly to the software via a displacement measuring interferometer (dmi).

The manual mount encoded radius configuration is compatible with either MetroPro (9.0 or later) or Mx software and displays position data on a digital readout. This is the only configuration that does not require a CAN based interferometer.

The manual mount interferometric radius configuration requires a CAN based interferometer and can operate with either MetroPro (9.0 or later) or Mx software.

All *motorized* radius configurations require a CAN based interferometer and Mx software. The motorized version provides autonull capability.



For assistance in choosing radius of curvature components and corresponding transmission spheres, contact ZYGO.

Radius of Curvature Components

ZYGO Number	Description
6500-0478-11	**Manual 5-Axis Radius Kit, Encoded** This manual mount is designed for an encoded rail and includes an integrated encoder sensor. Add a corresponding rail.
6500-0478-13	**Motorized 5-Axis Radius Kit, Encoded** This motorized XYZ mount is designed for an encoded rail and includes an integrated encoder sensor. Add a corresponding rail.
6500-0478-21	**Manual 5-Axis Radius Kit, Interferometric** This manual mount is designed for an interferometric rail and includes an integral retroreflector. Add a corresponding rail.
6500-0478-23	**Motorized 5-Axis Radius Kit, Interferometric** This motorized XYZ mount is designed for an interferometric rail and includes an integral retroreflector. Add a corresponding rail.



The 5-Axis Rail Mount provides a convenient 4.25 in. (108 mm) beam height and accepts 4 in. accessories. The manual mount slides on pads. The motorized mount features motorized axes in XYZ and is on rollers. All mounts provide for easy translation between catseye and confocal positions and feature a quick-release clamp that assures alignment to the rail and the optical axis.

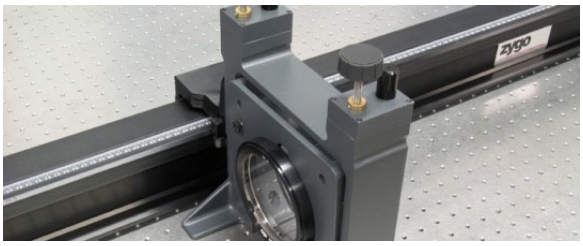
Add-ons:

4 in. Self Centering Element Holder (6024-0161-01)

6 in. Adapter Plate (6500-0469-01)

6 in. Self Centering Element Holder (6500-0107-01)

ZYGO Number	Description
6500-0450-01	**1.5 m Rail, Interferometric/Manual**
6500-0450-02	**1.5 m Rail, Encoded/Manual**
6500-0450-03	**1.5 m Rail, Interferometric/Motorized**
6500-0450-04	**1.5 m Rail, Encoded/Motorized**
6500-0450-21	**2 m Rail, Interferometric/Manual**
6500-0450-22	**2 m Rail, Encoded/Manual**
6500-0450-23	**2 m Rail, Interferometric/Motorized**
6500-0450-24	**2 m Rail, Encoded/Motorized**



Rails are made of high-grade extruded aluminum. The rail attaches and aligns to the mainframe with a ball mount interface or it can be mounted directly to the optical table.

The interferometric rail has a 1 mm graduated ruler scale. The encoded rail has an encoder strip and is calibrated for linearity to less than 50 µm over the length of the rail.

Picking an Optical Table

For most horizontal radius of curvature solutions using a 1.5 m or 2 m rail a 10 ft optical table is recommended. A 12 ft table is required when using a longer 6 in. mainframe with a 2 m rail.

An 8 ft table can be used with a 4 in. mainframe and the 1.5 m encoded rail combo if an optional side rail foot kit (6500-0340-01) is used.

6500-0469-01 **6 in. Adapter Plate**

Enables the 5-Axis Rail Mount to accept 6 in. accessories. Attaches to front face of 5-Axis Rail Mount or the standard 5-Axis Mount.



6500-0448-01 **Adjustable Clamp Mount**

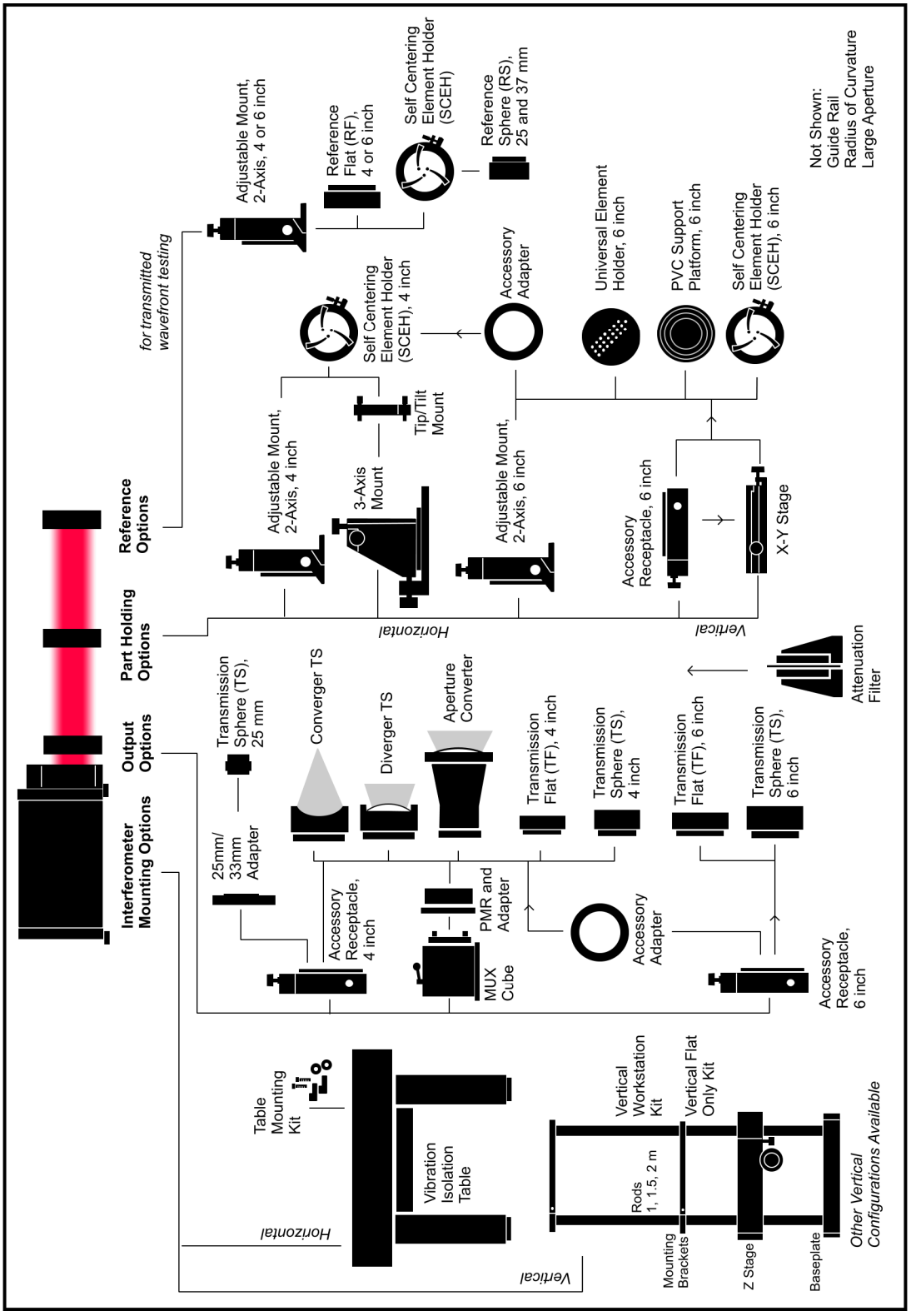
Add-on clamp for a basic 2-Axis Adjustable Mount. The mount attaches to the side of the mount (not included).

Provides a simple non-encoded rail clamp interface. Use for quick alignment of test parts. Not intended for radius metrology.



Vertical Kits

ZYGO Number	Description	
6500-0166-15	**Vertical Workstation Kit, 1.5 m for 4 in. Mainframe** This kit features 1.5 m rods and part stage with a 4 in. accessory receptacle. The part stage is made up of a manual x-y stage, tip/tilt accessory receptacle, and a manual z-axis. Includes: three 1.5 rods, baseplate, safety baseplate (not shown), two mounting arms, and part stage. Interferometer not included.	
6500-0166-16	**Vertical Workstation Kit, 1.5 m for 6 in. Mainframe** This kit features 1.5 m rods and part stage with a 6 in. accessory receptacle. The part stage is made up of a manual x-y stage, tip/tilt accessory receptacle, and a manual z-axis. Includes: three 1.5 m rods, baseplate, safety baseplate, two mounting arms, and part stage. Interferometer not included.	
6500-0166-17	**Vertical Workstation Kit, 2 m for 6 in. Mainframe** This kit features 2 m rods and part stage with a 6 in. accessory receptacle. The part stage is made up of a manual x-y stage, tip/tilt accessory receptacle, and a manual z-axis. Includes: three 2 m rods, baseplate, safety baseplate, two mounting arms, and part stage. Interferometer not included.	
6500-0164-13	**Vertical Flat Only Kit, 1 m for 4 in. Mainframe** This kit is designed to measure flat optics in a downward configuration with a 4 inch mainframe. Includes: three 1 m rods, baseplate, safety baseplate, two mounting arms, 6 in. accessory receptacle, and a PVC platform. Interferometer not included.	
6500-0164-14	**Vertical Flat Only Kit, 1.5 m for 6 in. Mainframe** This kit is designed to measure flat optics in a downward configuration with a 6 inch mainframe. Includes: three 1.5 m rods, baseplate, safety baseplate, two mounting arms, 6 in. accessory receptacle, and a PVC platform. Interferometer not included.	
6500-0165-03	**Short Radius Kit, for 4 in. Mainframe** This kit features 1.5 m rods and a small optics workstation; it is designed for a 4 inch mainframe. The small optics workstation is made up of manual x-y stage and a manual or motorized encoded z-axis. Includes: three rods, baseplate, safety baseplate, two mounting arms, and a small optics workstation. Interferometer not included. Add-ons: Motorized Z-Axis (6500-0651-01)	
6500-1065-03	**Mainframe Mounting Bracket** These brackets are used to secure the interferometer to the rods. Also known as L bracket or mounting arm. A third bracket is required to convert a downward to an upward looking configuration.	



Information subject to change without notice.

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