FiBO® 200 Accessories | Promet Optics

Fiber Ribbon Stage

The Fiber Ribbon Stage enables 3D endface measurement of cleaved ribbon fibers when used with FiBO$^®$ interferometers.

Features

- Smoothly adjustable X – Y
- High-precision kinematic interface
- Fully compatible with custom, application specific FRH*
- Supported by FiBO Code™ Software

*FRH = Fiber Ribbon Holder (sold separately)Specifications
X range: 5.5 mm (up to 6 mm custom)
Y range: 1 mm

Fiber Ribbon Holder

The Fiber Ribbon Holder (FRH) facilitates individual endface geometry measurement of cleaved and polished ribbon optical fiber. Machined aluminum and steel constructions are customed designed for each ribbon fiber configuration. The FRH interfaces with the Fiber Ribbon Stage* for cleaved ribbon fiber endface metrology.

Specifications

Max ribbon width: 0.5 mm

Max ribbon length: 1.5 mm

Available Configurations*Sold separately

VATS – VARIABLE ANGLE TILT STAGE

The VATS™ (Variable Angle Tilt Stage) enables 3D endface measurement of angled ferrules, bare optical fiber and other fiber optic components when used with FiBO® interferometers.

Features

- Smoothly adjustable tilt angle
- Gimbal tilt design for easy alignment
- Vernier degree scale
- Magnifying lens for legible readout
- Quick-release mechanism
- High-precision kinematic interface
- Fully compatible with BFC*
- Supported by FiBO® Code Software

*BFC = Bare Fiber Chuck (sold separately)

Specifications

Angle range: 0 to 50°

Scale accuracy:± 0.1°

BFC – BARE FIBER CHUCK

The BFC™ facilitates endface geometry measurement of cleaved and polished bare optical fiber.

Machined aluminum and steel constructions utilize an easy-to-load clam shell design and V-mount groove to prevent damage to fibers during loading. An optional Loading Station* can also be used to assist with sample preparation and alignment. The BFC interfaces with the Variable Angle Tilt Stage* (VATS™) for angled endface metrology.

Specifications

BFC™ Dimensions: 60mm x 18mm x 18mm

Tip Dimensions: 3.2mm O x 7mm

Minimum strip length: 4mm

Available Sizes (Striped fiber diameter)

- BFC-001   70 – 100 microns
- BFC-002   100 – 150 microns
- BFC-003   150 – 250 microns
- BFC-004   250 – 400 microns
- BFC-005   400 – 600 microns
- BFC-006   600 – 800 microns
- BFC-007   1000 – 1250 microns
- BFC-CST   Custom sizes available

*Sold separately

Connector Adapter (FiBO 200)

Patented Connector Adapters utilize a high-precision kinematic interface to guarantee positioning within a fraction of a micron. The adapter is engaged by both the ferrule and the body of the connector to ensure proper keying orientation and more accurate results for APC measurements. All adapters are precisely pre-aligned and certified at the factory eliminating the need for calibration when switching between different connector types or between PC and APC polish.

Available Connector Adapter Types

- ST, FC, SC, LC
- PC (UPC) and APC polish
- Custom adapters also available

FERRULE ADAPTER (FIBO 200)

Patented Ferrule Adapters utilize a high-precision kinematic interface and a split sleeve clamping mechanism to guarantee positioning accuracy of the ferrule within a fraction of a micron. All kinematic adapters are precisely pre-aligned and certified at the factory eliminating the need for calibration when switching between different types.

Available Ferrule Adapter Types

- Bare Ferrule: 1.25mm, 1.6mm, 2.0mm, 2.5mm, 3.2mm
- Custom adapters also available

CALIBRATION TARGETS (FIBO 200)

Calibration targets set FiBO apart from the competition. Each FiBO is shipped with three calibration targets for fast and easy calibration at any time. An optional NIST/ISO traceability certification is available for the 2D Calibration target and 3D Calibration Target.

- 2D target calibrates optical magnification and imaging distortion
- 3D target calibrates wavelength and phase shifting module
- Apex Offset target calibrates out residual angle error of kinematic interface