

Capabilities



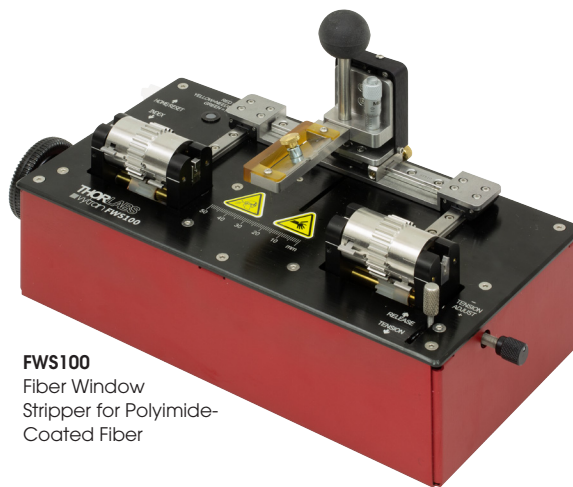
Strip

vytran® FWS100 Window Stripper

The FWS100 Fiber Window Stripper allows the user to strip a 1 mm to 50 mm long window region in silica optical fiber with a polyimide coating. The fiber holders on either end of the stripper are used to hold an optical fiber under tension and can accept fibers with outer diameters of 100 to 250 μm , 400 μm , or 500 μm . To engage the blade, push down on the round handle and use the micrometer to set the height of the blade. The fiber can be rotated in increments of 18° using the rotation knob located at the left of the unit.

Cleanly Strip Difficult-to-Remove Coatings

Polyimide-coated optical fiber is commonly deployed in environments requiring heat or chemical resistance, and therefore can be difficult to remove without leaving a residue or damaging the fiber. As a result, a chemical stripping process with hot sulfuric acid is typically used to remove the coating prior to splicing. By contrast, the FWS100 Window Stripper can be used to cleanly mechanically strip even polyimide coating, minimizing damage to the fiber and acid exposure to the operator by using repeated stripping passes to gently remove the coating.



FWS100
Fiber Window
Stripper for Polyimide-
Coated Fiber

Features

- ◆ Strip Polyimide-Coated Optical Fiber
- ◆ Accepts Fibers with $\varnothing 80 - \varnothing 400 \mu\text{m}$ Cladding and $\varnothing 100 - \varnothing 250 \mu\text{m}$, $\varnothing 400 \mu\text{m}$, or $\varnothing 500 \mu\text{m}$ Coating
- ◆ Create Window Strip Regions 1 mm to 50 mm Long
- ◆ Requires a Fiber Holder Insert Set (Sold Separately)



Image showing the stripped polyimide coating on a $\varnothing 120 \mu\text{m}$ cladding and $\varnothing 150 \mu\text{m}$ coating fiber. A clean, beveled edge (as shown here) is desirable for minimizing recoating defects after splicing.

Specifications

Accepted Fiber Material	Silica
Accepted Coating Material	Polyimide
Accepted Cladding Diameters	80 μm – 400 μm
Accepted Coating Diameters	100 - 250 μm , 400 μm , or 500 μm ^a
Strip Length	1 mm – 50 mm
Strip Blade	Single-Edge Precision Blade with Power Assist Advance
Blade Lifetime	100 – 200 Strips per Blade
Fiber Rotation	Manual Rotation with 20 Detent Positions at 18° Apart
Electrical Power	12 VDC Input; 100 – 240 VAC AC Adapter Included
Physical Dimensions (L x W x H)	10.78" x 5.06" x 6.19" (273.7 mm x 128.5 mm x 157.3 mm)

a. Be sure to purchase the appropriate insert set for the desired coating diameter: VHW250 accepts $\varnothing 100 \mu\text{m}$ to $\varnothing 250 \mu\text{m}$ fiber; VHW400 accepts $\varnothing 400 \mu\text{m}$ fiber; VHW500 accepts $\varnothing 500 \mu\text{m}$ fiber.

For more information, contact us at techsales@thorlabs.com or visit www.thorlabs.com.