

FX-102 Fiber Optic Angle Cleaver

1.

Turn the cleaver on by depressing the red button until the READY indicator turns red and release. The light will then turn green indicating the cleaver is ready for use. The cleaver will remain on but will turn off if unused for 10 minutes. If the battery charger is connected then it will not time out.

**4.**

Once the fiber is in the desired position, gently lower the right clamp in place to secure the fiber.

**2.**

Prepare the fiber by removing the coating over a length of at least 1.5 inches. All residues must be removed. Move the fiber rotator to the 0° position. Place the prepared coated fiber into the groove of the left insert with enough of the stripped fiber to lie across the right insert. Assure that there is bare fiber across the gap between the inserts.

**5.**

Depress the fiber rotator clamp lever to open up the clamp, allowing the fiber to fall to the bottom of the slot. Release the clamp lever. The fiber is now clamped in the rotator. Lift up the right clamp releasing the fiber. This allows any torsion induced by the rotator clamp to be relaxed. Lower the right clamp securing the fiber.

**3.**

Gently lower the left clamp keeping the fiber in the groove. Adjust the cleave length by moving the fiber to the desired length as indicated by millimeter scale.

**6.**

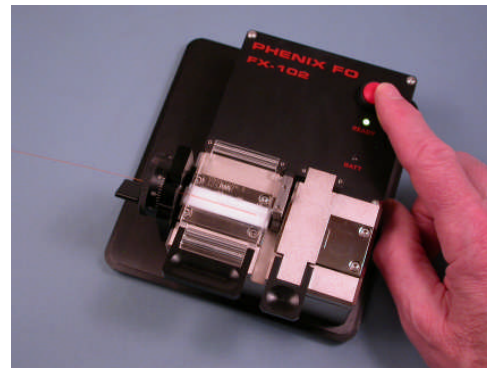
Rotate the dial to the angle corresponding to the desired cleave angle. As an example a 45° rotation should result in an 8° cleave angle for the SMF28e fiber. The exact rotation angle is determined by the calibration of the FX-102. The fiber is now secured and ready to be cleaved.



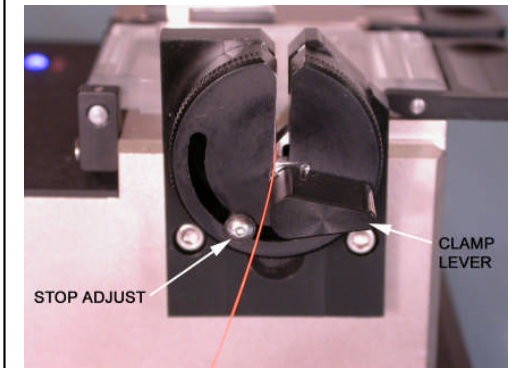
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7.

Depress the red button initiating the cleave cycle. The Ready light will be yellow during the cycle. Cleaving will take place and the light will turn green at the end of the cycle. If there is an error the light will flash red. Refer to the manual if this occurs. The cleaver can be reset by depressing the red button.

**10.**

The fiber rotator details are shown here. The internal stop can be adjusted to a fixed angle. First rotate the dial to 0°. Loosen the adjust screw and move to the right until contact is made. Rotate the dial to the desired angle and tighten the adjust screw. Now when the dial is adjusted it will butt against the stop. This is very useful when making repeated cleaves at a fixed angle.

**8.**

Near the end of the cycle, the cleave will be signaled by a snapping sound. At that time depress the rotator clamp and pull out the cleaved fiber. The Ready light will also flash green for three seconds indicating a pause in the cycle to allow more time to remove the fiber.

**9.**

A rapidly flashing blue light indicates that the battery needs charging. Connect the power supply transformer to the wall AC power source and insert the jack at the back of the cleaver as shown. Cleaving can continue when the battery is charging. The blue light will slowly flash when charging and stay on when at a full charge.

