

# S317 Fiber Cleaver Operating Manual

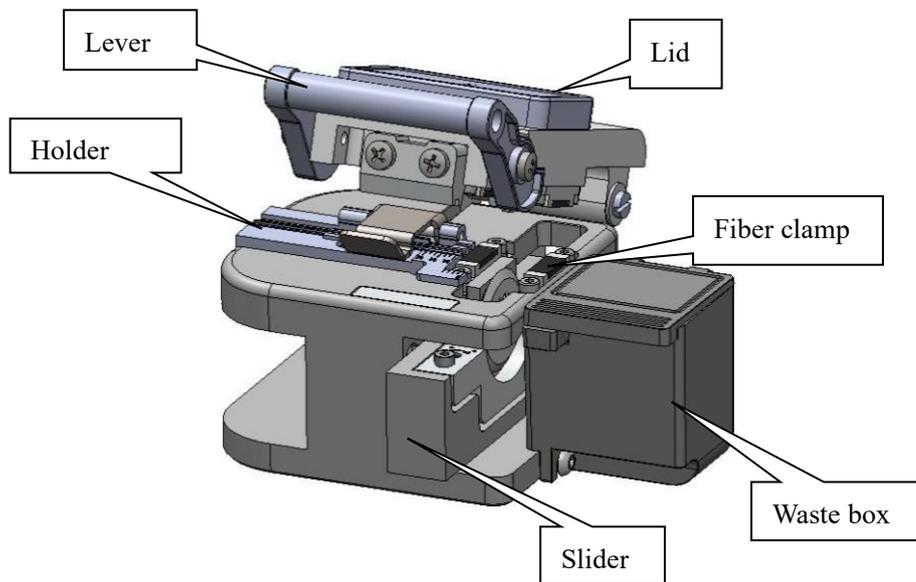
Please read this manual carefully before use.

1. The Fitel S317 fiber cleaver is a precision machine. It cannot withstand strong impact, as this will affect the performance of the cleaver.
2. Fiber and fiber optic debris are very thin and sharp pieces of glass. When using the cleaver, please wear protective safety equipment to prevent fiber optic debris from entering the skin or eyes. Please use a designated waste receptacle to collect fiber optic debris.
3. Do not touch the blade with your hands. Do not touch the blade during maintenance.
4. Please do not disassemble the cutter to use oil. If you need to repair, please contact your local representative.

## 1. Specifications

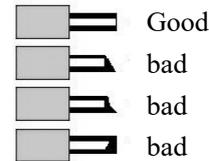
Applicable fiber	Silica
Coating diameter	φ0.25、φ0.9、φ2.0、φ3.0、3×2
cladding diameter	125μm
Cleaving length	5~16mm(φ0.25) ; 10~16mm(φ0.9)
Dimensions	93mm(W)×86mm(D) ×63mm(H)
Weight	380g
Life of the blade	Typical 48,000 fibers

## 2. Appearance



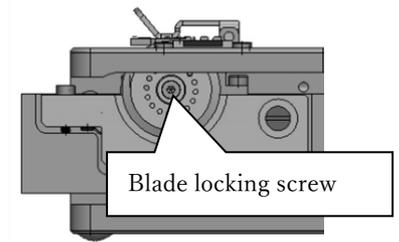
## 3. Steps

1. Please lift the lever, open the body lid of the cleaver, and make sure that the slider is in front of you.  
Use a stripper to strip 20-30 mm of the optical fiber's coating, then clean the optical fiber with a fiber wipe dipped in alcohol and wipe it clean.
2. After the edge of the optical fiber coating is aligned to the scale on the cutter scale, set the optical fiber straight up the fiber clamp along the V-groove.
3. Closing the holder cover and body lid, push the slide block with the blade to cut the optical fiber. Slide to the end to cut the fiber.
4. Hold the cutter and open the body lid, and remove the fiber debris, place debris into the waste box.
5. Open the holder cover with the fiber held. Carefully remove the fiber with the cut end.
6. Troubleshooting, resulting in poor cutting;
  - A. Fiber is not straight on the fiber clamp.
  - B. Blade height is too high or low.
  - C. There is dust on the blade or fiber clamp.



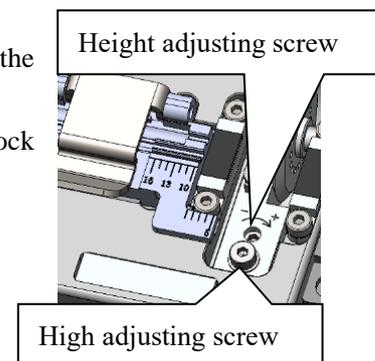
## 4. Maintenance

1. For daily cleaning, please clean fiber clamp and edge of the blade with alcohol-stained cotton swabs.  
The groove of the fiber holder also needs to be cleaned.
2. The blade adjustment method;  
Repeated cutting will wear out the blade and result in a poor cutting surface.  
In this case, the height of the blade must be adjusted.
  - A. Loosen (without removing) the blade locking screw with a wrench.
  - B. Put a cotton swab against the blade, and rotate the blade to the next new blade;
  - C. Tighten the blade locking screw with a wrench.
  - D. Try to cut fiber a few times, with the splicer screen to see fiber cutting end face. If end face resembles 'bad' image above, please adjust the height of the blade again.



When adjusting the position of the blade, do not use your hand, tweezers, or other metal items to rotate the blade directly to prevent injury.

3. Blade Height adjustment;
  - A. Push the slide block to the position when cutting is finished and loosen the high locking screw.
  - B. Turn the height adjusting screw a little in the desired direction and re-lock as needed. Turn it up clockwise and down counterclockwise.
4. Easy problems and adjustment methods;
  - A. Unable to cut optical fiber, Angle NG  
According to the above-mentioned method of fully adjusted blade, this problem may be caused by a low blade; please adjust the blade height according to the above-mentioned method.
  - B. Cracked fiber, fiber end shadow appears, fiber angle is large.  
Blade height may be too high, please adjust the blade height according to the above method.





#### 5. Blade recycling

The blade is a regular circle. Any point on the circle can cut more than 1000 times. Therefore, the area between 1 ~ 16 can be selected to cut. When all area is used up, the height of the blade can be adjusted to a higher position, and it is possible to use it repeatedly.

#### 6. Blade replacement

- A. Use a wrench to loosen the blade locking screw and remove the locking screw and spacer.
- B. Open the body lid and clamp the blade on both sides with tweezers carefully, gently lift the blade removed.
- C. Clamp the new blade with tweezers and place the blade hole into the shaft. The rotating blade should be set to the 1st position with a cotton swab.
- D. Set the spacer and tighten the locking screw.



When using tweezers, the tweezers should not touch the blade edge, so as not to affect the cutting performance.

#### 4. Standard items

Main body	1pc
Single fiber adapter	1pc
Waste box	1pc
Hexagonal wrench	1pc
Operating manual	1pc
Carrying case	1pc

#### 5. Contact

For sales and service information, contact your local representative,  
or FURUKAWA ELECTRIC CO., LTD.

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#### 給紙

A 4