#### **TELESONIC**

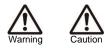
**Optical Fiber Cleaver** 

# T-30

## **Operation Manual**

#### IMPORTANT SAFETY PRECAUTIONS

This product has been designed and manufactured to assure personal safety. Improper use can result in bodily injury and serious damage to the fiber cleaver. Please read and observe all warnings instructions given in this operation manual.



- 1. Do not disassemble or lubricate any parts of the cleaver. Doing so could cause serious damage to the cleaver.
- The fiber cleaver is a precision tool. Do not impact the cleaver by hitting or dropping it.

Doing so may cause personal injury and loss of cleaving performance.

- 3. Glass fiber fragments are extremely sharp. Handle with care. Wear safety glasses at all times during cleaving operation for protection from glass fibers.
- 4. Dispose of glass fiber fragments properly.
- 5. The blade of the cleaver is extremely sharp. Do not touch it with bare hands.
- 6. Do not impact the top clamp lever. Doing so could cause damage to the cleaver and loss of cleaving performance.
- 7. If the cleaver is damaged or a problem occurs, please contact our maintenance service center.

## 1. General

#### Specification

	T-30
Cladding Diameter	125µm
Fiber Count	Single fiber (0.25 & 0.9mm)
Coating Diameter	Up to 12-fiber ribbon
Cleave length	10mm
Dimensions	M: 63(W)x76(D)x63(H)mm
	M-C: 100(W)x81(D)x63(H)mm
Weight	M: Approx. 380g
	M-C: Approx. 420g

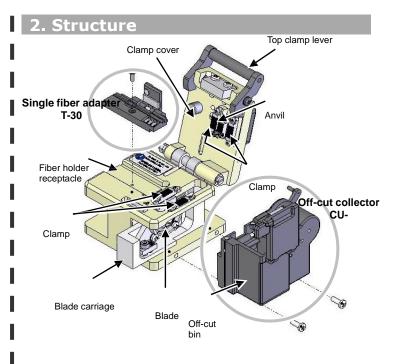
Cladding Diameter	125µm
Fiber Count Coating Diameter	Single fiber (0.25 & 0.9mm)
Cleave length	9~16mm (0.25mm) 10~16mm (0.9mm)
Dimensions	M: 63(W)x76(D)x63(H)mm M-C: 100(W)x81(D)x63(H)mm
Weight	Approx. 380g Approx. 420g

#### Standard package

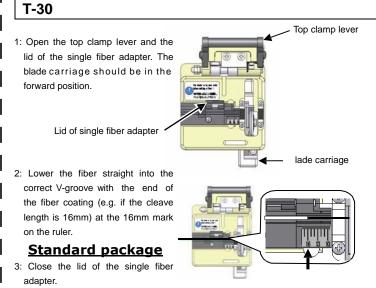
	T-30
Optical Fiber Cleaver FIBER CLEAVER	1 pc
Carrying case	1 pc
Operation Manual	1 pc

## **Optional accessories / Consumables**

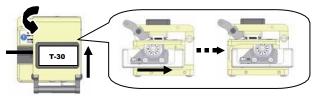
Fiber cleaver	T-30	
Single fiber adapter-AP-FC-6M		
Fiber off-cut collector-CU-FC6		
Replacement blade-FCP-20Bl		
Fiber off-cut collector: Replacement blade:		



## 3. Operating procedures



4: Lower the top clamp lever. Slide the blade carriage to the rear of the cleaver. The fiber will be cleaved.

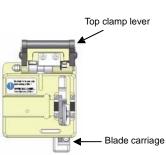


Bare fiber

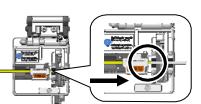
5: Open the top clamp lever. Then open the lid of the single fiber adapter and lift the newly cleaved fiber. Lift the off-cut and dispose it properly. Fiber Coating length

## **T-30**

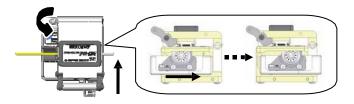
1: Open the top clamp lever. The blade carriage should be in the forward position.



2: Place the fiber holder in the cleaver. Place the edge of the fiber holder against the edge of the fiber holder receptacle.



3: Lower the top clamp lever. Slide the blade carriage to the rear of the cleaver. The fiber will be cleaved.



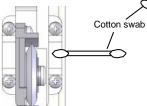
4: Open the top clamp lever. Remove the fiber holder from the cleaver. Lift the off-cut and dispose it properly. (It T-30 automatically collects an off-cut in the off-cut collector.)

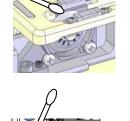
#### 4. Maintenance

## Cleaning

To keep excellent cleaving quality, cleaning must be performed after use.

Clean the blade edge, the rubber pad of the clamp and the anvil with a cotton swab moistened with isopropyl alcohol.





Clean the fiber holder receptacle and the grooves of the single fiber adapter, too.



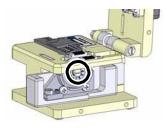
- Dust on the blade edge or the clamp might cause loss of cleaving performance or poor quality of fiber end face.
- Do not clean them with any other kind of chemicals.
- If the top clamp lever is closed leaving an off-cut fiber on the clamp, the rubber pad of the clamp will have a trace of the fiber, causing loss of cleaving performance or poor quality of fiber end face.

#### Blade position change

As the number of the cleaver's increases, a symptom that fiber cannot be cleaved or cracks will occur. If such symptom continues to appear, the blade position is worn out. Rotate the blade according to the following procedures and use a new blade position.

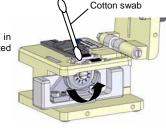
[Reference] 1,000 fibers per position

1: Loosen the blade setscrew. Note that the blade setscrew is a slotted screw.



Rotate the blade to the next position by pressing its side or edge with a cotton swab.

Rotate the blade in the direction indicated by the arrow.

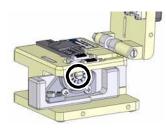




Do not rotate the blade with hands.

 Do not rotate the blade with metallic tweezers. Doing so may damage the blade.

3: Tighten the blade setscrew. [Reference] Optimum torque: Approx. 0.98N·m (10kgf·cm)



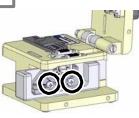


- Do not over-tighten the blade setscrew. The screw will get worn out.

4: Try and cleave the fiber. Make visual check of the fiber end face with the splicer. If the fiber end face is poor, adjust the blade height. (Refer to "Blade height adjustment".)

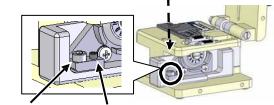
## Blade height adjustment

- (0: For T-30, remove the off-cut collector first.)
- 1: Loosen the 2 cross head screws.



2: Loosen the blade height locking screw.

Put a Hex driver (US) or Allen key (UK) here.



Blade height locking screw

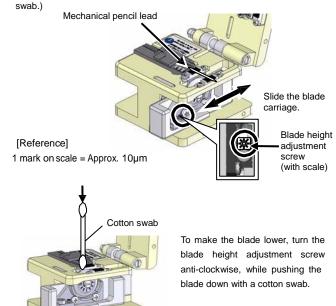


3: Place a mechanical pencil lead or a light stick on the clamps. Slide the blade carriage back and forth and turn the blade height adjustment screw. <u>The point where the lead barely touches the edge of the blade is a reference point (0µm)</u>.

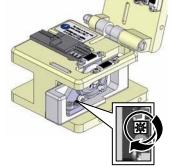
#### ☑Tips

• To make the blade higher, turn the blade height adjustment screw clockwise.

• To make the blade lower, turn the blade height adjustment screw anti-clockwise. (Turn the screw while pushing the blade down with a cotton



4: Turn the blade height adjustment screw clockwise by more 4 to 6 marks from the reference point.



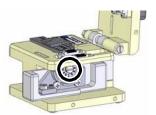


 Do not make the blade too high. Doing so will damage the anvil and increases the chipped fiber ends.

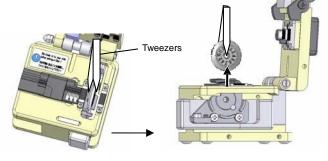
5: Tighten the blade height locking screw.
[Reference] Optimum torque: Approx. 0.59N·m (6kgf·cm)
6: Tighten the 2 cross head screws.
[Reference] Optimum torque: Approx. 0.98N·m (10kgf·cm)

#### Blade replacement

- (0: FOR T-30; Remove the offcut collector first.)
- 1: Unscrew the blade setscrew.



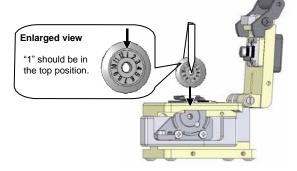
2: Remove the blade with tweezers.



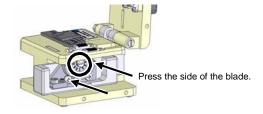


 The edge of a blade is manufactured precisely. If the edge is hit against metallic objects, it will crack, resulting in poor cleaving performance. Handle with care.

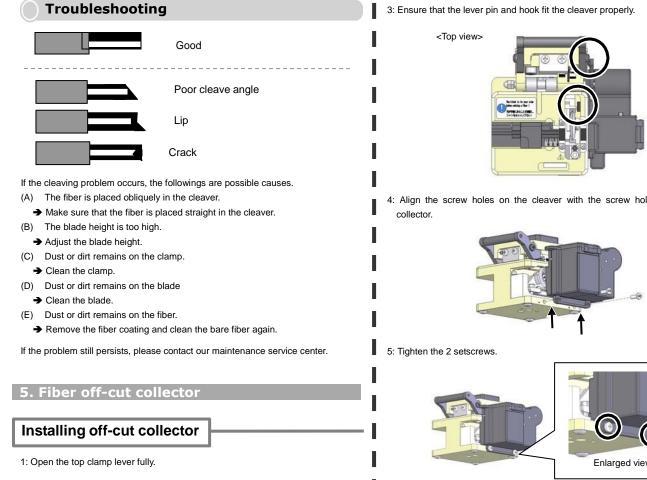
- When using metallic tweezers, be careful not to damage the blade.
- Do not touch the blade with hands. Use gloves.
- Dispose of the old blade properly.
- 3: Insert a new blade in the cleaver so that "1" of the number sticker is in the top position. The hole of the blade should be aligned with the hole of the blade receptacle.

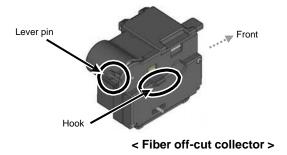


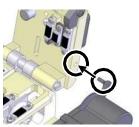
4: Tighten the blade setscrew completely, while pressing the side of the blade. [Reference] Optimum torque: Approx. 0.98N·m (10kgf·cm)



5: Adjust the blade height, referring to "Blade height adjustment" at page 2.

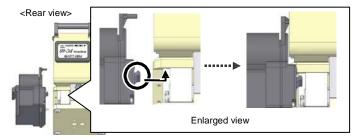




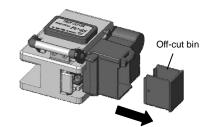


Put the lever pin into the pin hole of the cleaver.

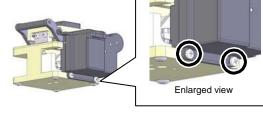
Clip the hook from underneath the cleaver main body, as shown in the figure below.



- **Emptying off-cut collector**
- 1: Remove the off-cut bin from the off-cut collector and dispose of the off-cuts in a proper way.



4: Align the screw holes on the cleaver with the screw holes on the off-cut



6: Completed.





2: Put the lever pin into the pin hole of the cleaver and fit the hook into the cleaver.