

S327 Precision Cleaver Operating Instructions

- Please read entire manual prior to using the S327 Precision Cleaver.
- This manual must be kept with the S327 Precision Cleaver.

Safety Instructions

This manual contains the complete operating and basic maintenance instructions for the S327 Precision Cleaver.

Please review this manual carefully before using the S327 Precision Cleaver. The following safety instructions must be followed whenever this product is operated, serviced, or repaired. Failure to comply with any of these instructions or with any precaution or warning contained in this manual is in direct violation of the standards of the design, the manufacturer, and the intended use of the instrument. FURUKAWA ELECTRIC CO., LTD. assumes no liability for the customer's failure to comply with these requirements.

Safety Instructions



CAUTION

Failure to comply with any of the instructions, which are indicated by this symbol, may cause serious injury or damage to the machine.



ATTENTION

Failure to comply with any of the instructions, which are indicated by this symbol, may cause the device to function improperly and degrade the performance.

Please contact FURUKAWA ELECTRIC CO., LTD. with any questions relating to the description of this manual.

In no case will FURUKAWA ELECTRIC CO., LTD. be liable to the buyer, for any consequential or indirect damage which is caused by product failure, malfunction, or any other problem.



CAUTION

- Avoid soaking the S327 with water. Doing so may cause malfunction.
- This product is a precision machine. Do not drop, throw, and handle it roughly. Doing so may cause machine's malfunction.
- Do not use in a humid, dirty, or unstable site. Doing so may cause malfunction.
- Please be cautious when disposing of fibers from the fiber waste bin. Scattered fibers may cause injury.
- The fiber waste bin for loose fiber must be installed into the S327 Precision Cleaver during operation, otherwise there is a risk of loose fibers scattering.



ATTENTION

- Use an appropriate tool when loosening or tightening the set screw to fix the single fiber adapter to the unit and gently tighten the screw.
- Please clean the fiber with alcohol after stripping the coating material before setting it on to S327 Precision Cleaver.
- Do not use acetone or other organic solvents to clean the rubber.
- Do not use lubricants for maintenance of this product.
- Do not use Organic solvent such as Acetone to clean the rubber pads.

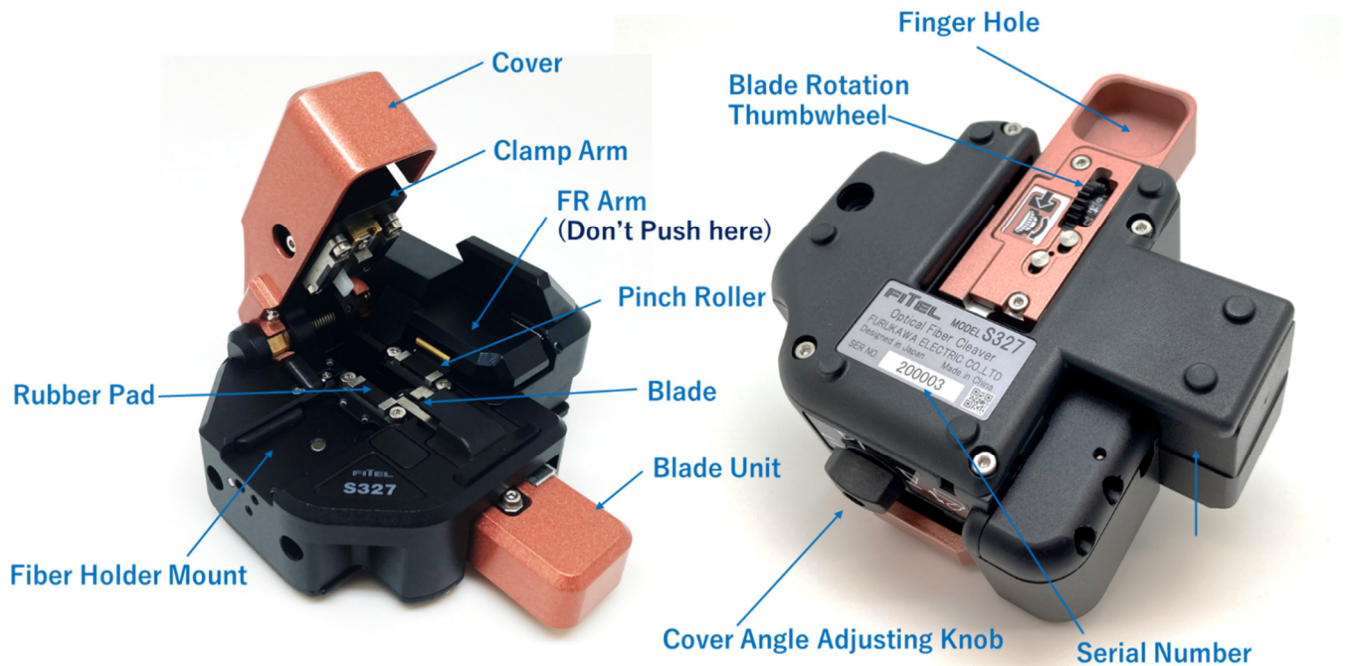
1. Standard Components

Parts Name	Parts No.	Qty
S327 Main Body	S327A-01	1
Single Fiber Adapter	S327X-18	1
Waste Bin	S327X-12	1
Carrying Case	S327X-17	1
Hexagonal Wrench	S327X-16	1
Case Inner Sheet	S327X-21	1
Operating Instructions	FTS-B616	1

2. Optional Components

Parts Name	Parts No.	Qty
Blade Exchange Set	S327X-24	1
Single Fiber Adapter	S327X-18	1
Carrying Case	S327X-17	1
Waste Bin	S327X-12	1

3. External Description



4. Specifications

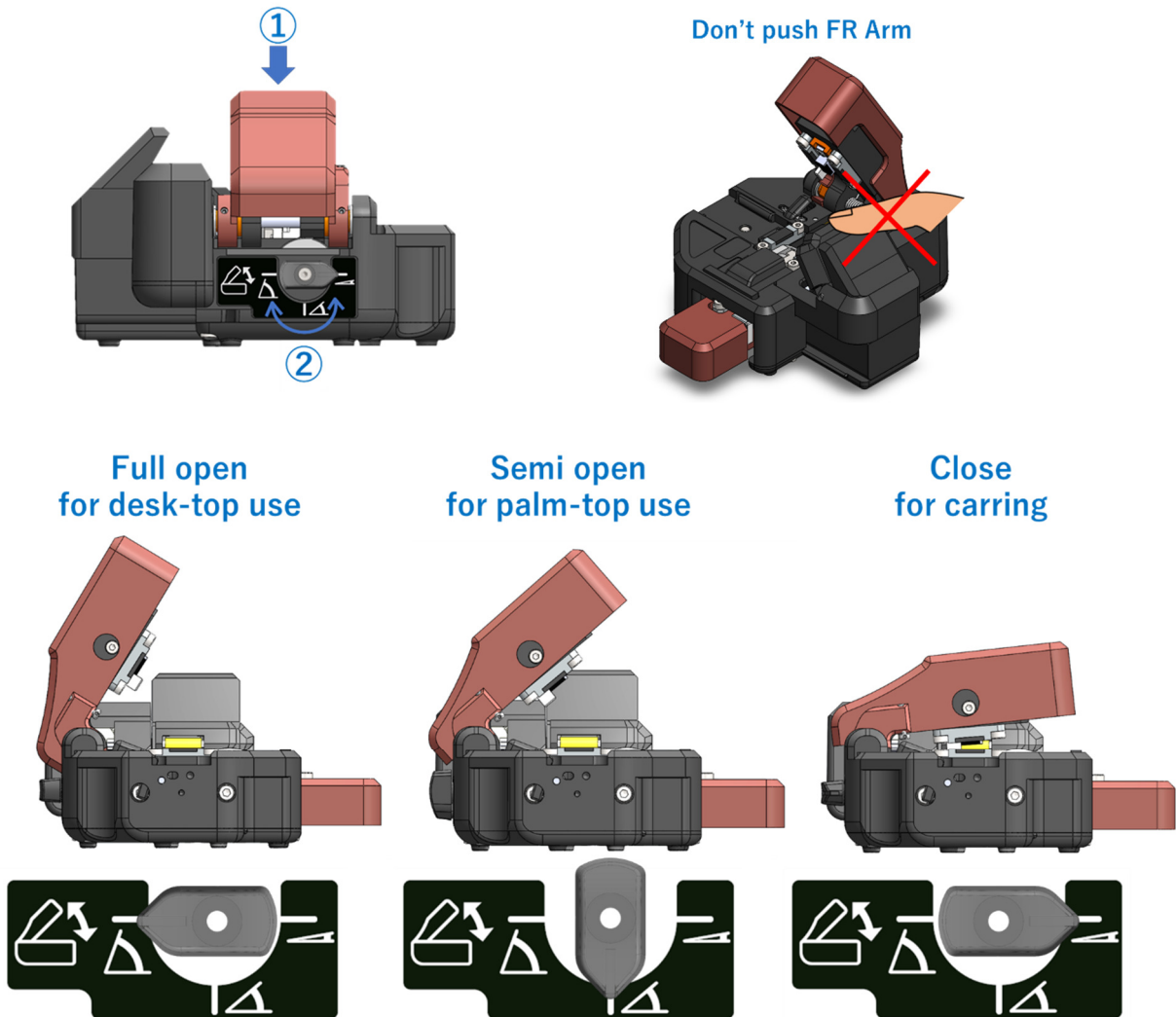
Applicable Fiber	Silica
Fiber Count	Single Fiber
	Ribbon Fiber (250μm) ; 2~12 fiber ribbon (200μm) ; 2~16 fiber ribbon
Clad Diameter	125 μm
Coating Diameter	Single Fiber ; 0.20~3.0 mm
	Ribbon Fiber ; 0.20~0.40mm × 0.25mm pitch 0.20~0.40mm × 0.20mm pitch
Cleave Length	Single Fiber ; 3~16 mm (Used Single Fiber Adapter, Scale from 5mm~) ※Less than ~10 mm limited to φ0.25mm or less.
	Tape ; 10 mm (Used Fiber holder)
Cutting Blade Life	65,000 fiber (About 2,500 fiber per cutting blade position) ※0.2 mm pitch ribbon fiber decrease of cleaves.
Dimension	88W × 93D × 54H mm (Close for Carrying)
Weight	320 g
Environmental	Operating Temperature ; -10°C ~ +50°C Storage Temperature ; -40°C ~ +60°C Humidity(Non Condensing) ; ~ 95%

5. Operating instructions

5.1. Unlock cover of Clamp Arm

The Cover of Clamp Arm should be locked during transportation. Unlock the Cover prior to use and select appropriate opening angle. Semi-Open or Fully Open.

- ① Press the Cover down.
- ② Turn the knob to appropriate position.



⚠ CAUTION

Do not push the open FR Arm during use or storage. Components may be damaged, preventing normal disconnection.

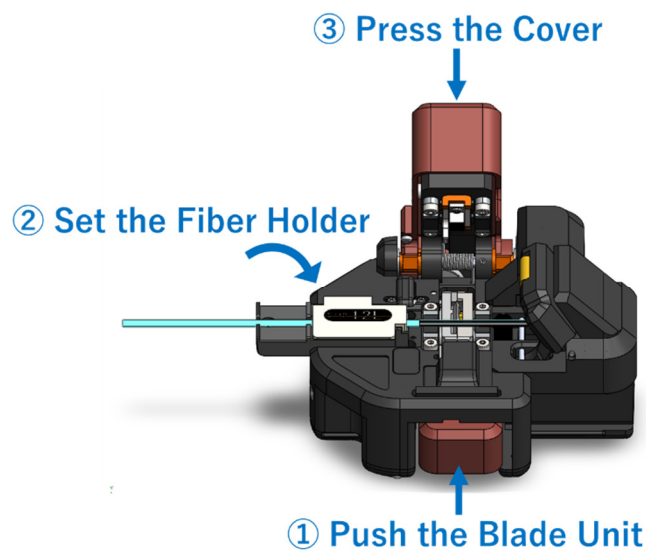
⚠ ATTENTION

Do not push the blade unit into the storage case when housing it. FR Arm will be open and fibers shavings may fly out due to vibrations such as transport.

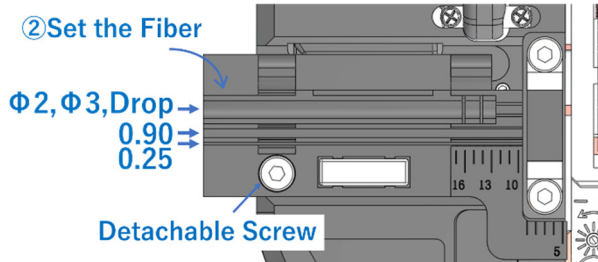
If Knob is stopped halfway, the Cover may open suddenly.

5.2. Cleaving fiber

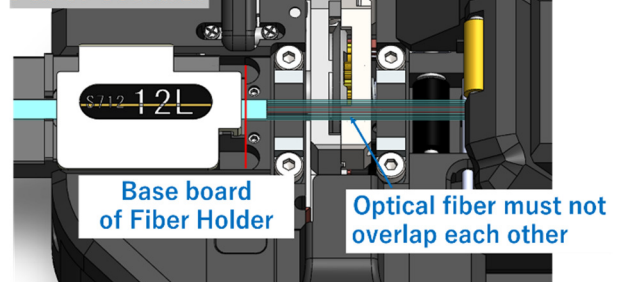
- ① Push the Blade Unit to the back until it latches.
- ② Set a prepared fiber (stripped and cleaned) across cleaving area with fiber end inserted into the Waste Bin.
Ensure that the stripped fiber is long enough to reach the Pinch Roller.
Put fiber to selected v-groove, depending on coating diameter of optical fiber.
In case of ribbon fiber cleaving, please use the ribbon fiber holder (Optional parts).
When using ribbon fiber, check that the fibers are aligned horizontally and no fibers are overlapping with each other.
- ③ Press the Cover of Clamp Arm until the Blade Unit starts to slide.



Single Fiber Adapter



Fiber Holder



CAUTION

Fibers should be set at the appropriate length.

If it is too short to reach the Pinch Roller, the fiber shard may not be retrieved.

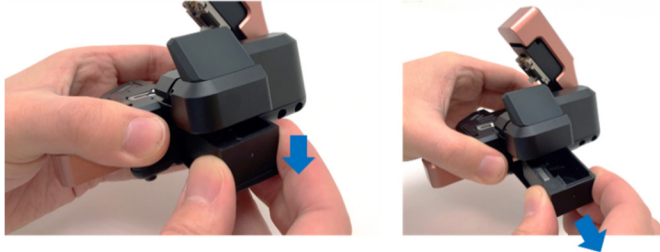
If it is too long, the fiber may deflect and not be cut properly.

When cutting the tape fibers, ensure that the optical fibers do not overlap each other. If you work with overlapping fibers, you may not be able to cut them correctly.

5.3. Disposing of waste fiber

- ① Push the Blade Unit to the back until it latches.
- ② Slide out the Waste Bin.

- ① Pull down the edge of the waste bin. ② Slide out the waste bin of the waste bin.



⚠ CAUTION

Fibers may pop out when pulling out the Waste bin.
Avoid getting them in your eyes.

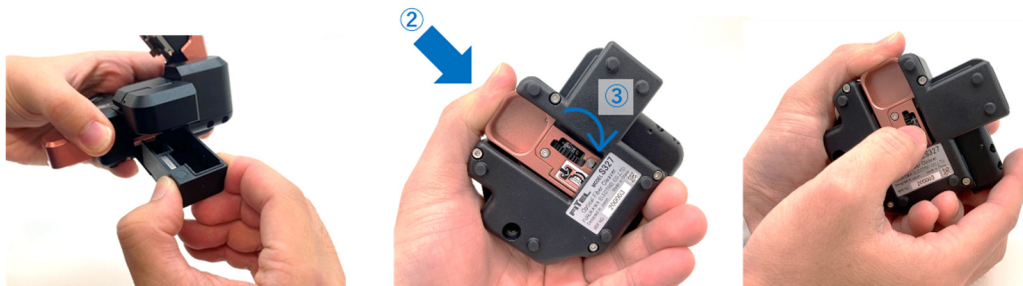
⚠ ATTENTION

Do this action on top of fiber disposal bin or bag, as fiber waste that doesn't fit into the bin may spill out.

5.4. Blade rotation

- ① Slide out the Waste Bin (Refer to 5.3)
- ② Push in the Blade Unit until it latches then press more firmly until the Blade Rotation Thumbwheel is unlocked.
- ③ Rotate the Thumbwheel to increment the blade position by 1.
If you accidentally incremented too much, turn the Thumbwheel through one full turn.

- ① Slide out the Waste Bin ② Push in the blade unit to the end. ③ Rotate the dial.



⚠ CAUTION

Take care not to cut your fingers with the Blade.

⚠ ATTENTION

Don't touch the FR arm while working on ②③.

Please take care not to tilt S327 Precision Cleaver too much, as fiber will spill out of the Waste bin.

6. Daily Maintenance

When cleaving quality degrades, clean the top of blade and upper and lower bending pad with a cotton swab soaked with ethyl alcohol a little.

After repeated use, abrasion may form on the rubber of the pinch roller.

Blade can be replaced by the customer.

Purchase and replace the optional parts; “Blade Exchange Set“ (S327X-24).

If parts other than Blade, such as the Rubber pad, are worn out, replacing Blade alone may not restore the initial performance.

If fiber waste can't be collected well enough, the pinch roller needs to be replaced. Contact your local representative for replacement.

7. Disposal

S327 contains no hazardous substances or recyclable materials. If disposed of, follow your local disposal regulations.

8. Contacts

For sales and service information,
Contact FURUKAWA ELECTRIC CO., LTD.
Or your local representative.

Sales Department:

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