



TSUC-5000
User's Guide



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Safety Information & Precautions

- The TSUC-5000 must only be used for cleaning optical fibers with a coating diameter up to 1500um. Any attempts to use the device for any other purposes could cause injury to the operator or impair the TSUC-5000.
- For the TSUC-5000 to work properly, clean isopropyl alcohol (IPA) must be supplied. Refer to the Technical Data for specifications. Unclean IPA can reduce the cleanliness and strength of the stripped fiber.
- The use of safety glasses is recommended. Fragments of fiber can cause injury if they come into contact with eyes.
- This device is plugged into a standard 115V or 230V outlet. As with any electrical device, reasonable care is required to avoid electrical shock. If the fuses need to be replaced, disconnect the unit from the wall outlet and used exact replacements.
- Never remove any covers or parts from the unit. Only trained authorized personnel are allowed to service the TSUC-5000.
- Observe all safety precautions common to the handling of optical fibers and dispose of fiber scraps safely.
- Never use spray cleaner or compressed gas. Never pour liquid cleaner on the TSUC-5000.
- Use only the power supply that is supplied with the TSUC-5000. Using an improper power supply may permanently damage the TSUC-5000.
- Do not modify or disassemble the TSUC-5000 or any of its accessories, including the power supply.
- There is a safety feature installed that will turn off the TSUC-5000 when the alcohol reaches 44 (+/- 2) degrees. The unit will beep continuously to indicate that the alcohol has reached this temperature. Simply unplug the power to reset the alarm.
- Turn off the TSUC-5000 when not in use.
- Never use spray cleaner or compressed gas. Never pour liquid cleaner on the TSUC-5000.

- Use of this unit should be restricted to personnel that:
 - ✓ Have been appropriately trained in handling of optical fiber and related materials
 - ✓ Have read, understood, and will follow all usage and safety instructions in this manual

Note: It is the responsibility of the user to use this product for its intended purpose and according to this manual. Jonard cannot be responsible for damages or injury resulting from failure to follow these instructions.

Transportation & Storage

The TSUC-5000 is a precision instrument and must be protected against humidity, vibrations, and shock during transportation and storage.

Save the packaging materials for future use and always transport the stripper in its original packaging material with the marked side up to prevent damage.

Keep the TSUC-5000 clean and dry.

Introduction to the TSUC-5000

The TSUC-5000 is specifically designed to clean optical fibers for high strength splicing.

To ensure high quality, repeatability, and a high production yield, the TSUC-5000 was designed with an oscillating frequency.

The fiber holders are easily placed in the correct position by a guided rail and a “One Touch” go button that starts the cleaning process automatically.

Features:

- Easy low maintenance bench top design
- Fast cycle time

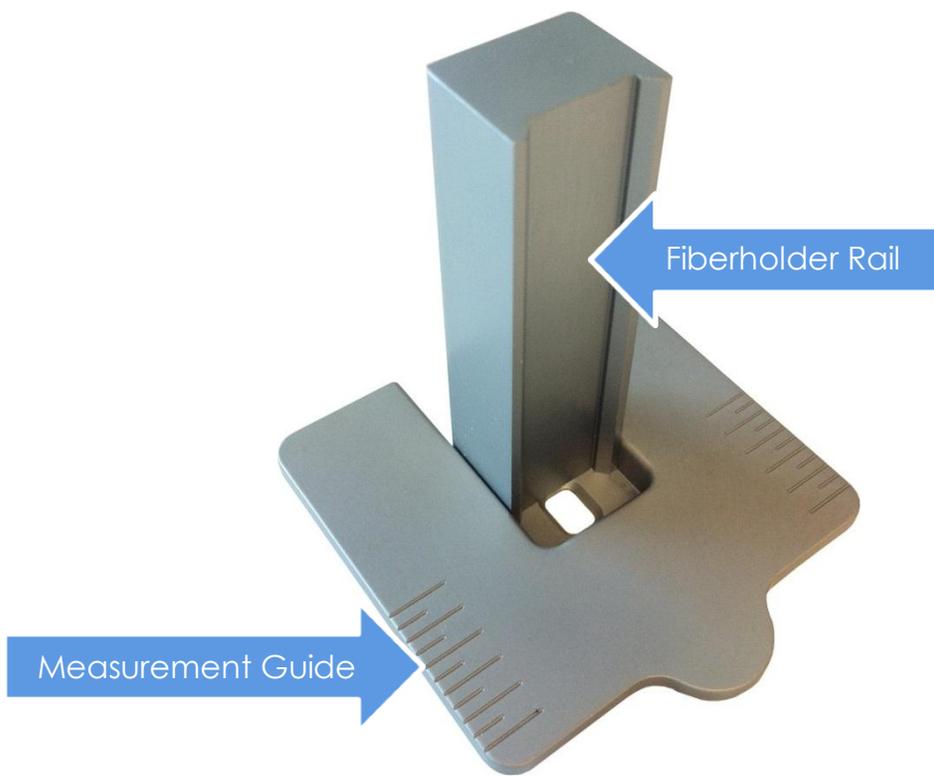
Unboxing the TSUC-5000

- 1 Begin by opening the box.
- 2 Remove the TSUC-5000 unit.
- 3 Remove all of the included accessories.
- 4 Compare the contents of the package with the Accessories Included list and the packing slip to verify that everything has been received.

Note: Please save all original packaging materials

The TSUC-5000 at a Glance





Initial Setup

Power Connection

The TSUC-5000 uses a universal DC adaptor which plugs into an 115V or 230V AC wall outlet.

Time & Amplitude Adjustment

There are two different frequencies to choose from when it comes to the time adjustment. The low power amplitude is tuned for 80um to 400um diameters. The high power amplitude is tuned for 400um + diameters.

Low Power	
Setting	Time (s)
0	3
1	6
2	9
3	12
4	15
5	18
6	21
7	24
8	27
9	30

High Power	
Setting	Time (s)
A	5
B	7.5
C	10
D	12.5
E	15
F	17.5

LED Overview

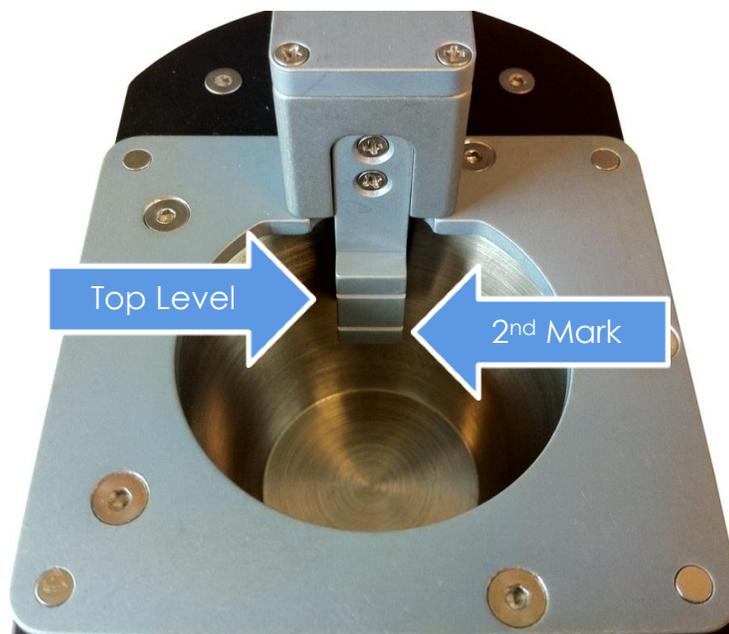
- Green LED
 - This represents that all internal tests have passed on the unit during powering on and is ready to use.
- Amber LED
 - This represents the unit is in process of cleaning a fiber (*by pressing the Go Button*).
- Red LED
 - This represents that the process is almost finished and it is time to remove the fiber holder from the unit.

Starting the TSUC-5000

The TSUC-5000 can be started by simply pressing the Go Button on the unit. The Go Button can also be used to stop a running process.

Alcohol Level

There are two levels that the TSUC-5000 can be filled to. When using a 10mm strip length, fill the TSUC-5000 to the top level. When using a 4-5mm strip length, fill the TSUC-5000 to the 2nd mark.



High Power Mode

The TSUC-5000 has the ability to run in high power mode. The high power mode is recommended for larger diameter fibers, i.e. 400um and up.

Note: It is normal for the alcohol to splash onto the underside of the TSUC-5000 fiber holder rail cover during high power mode.

Overheat Protection

When the alcohol reaches 44° (+/- 2) C, the TSUC-5000 will power off and beep continuously to indicate the Overheat Protection has been activated.

When the TSUC-5000 reaches a sustainable temperature, the Overheat Protection will turn off and the TSUC-5000 can continue to be used.

General Use (w/o Fiberholder)

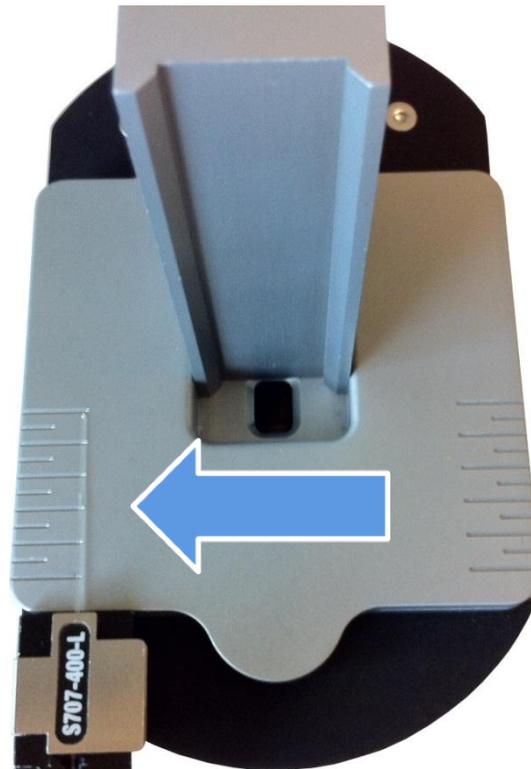
- 1 Remove the cover.
- 2 Press the Go Button.
- 3 Hold a fiber in the IPA basin.



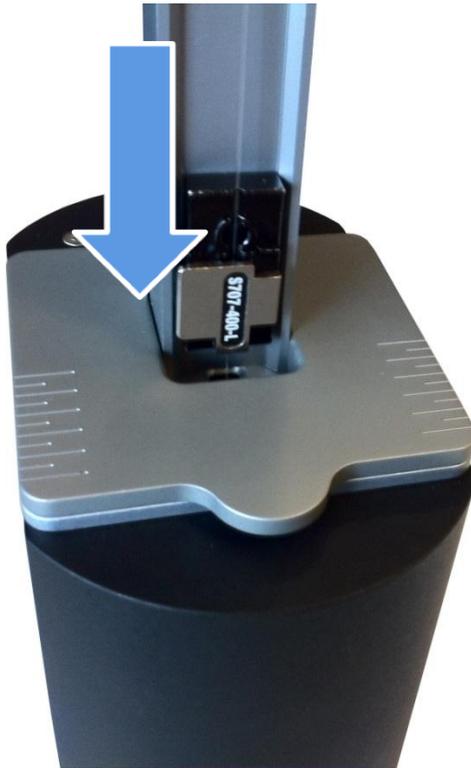
- 4 (when the TSUC-5000 begins to beep and the LED turns red) Remove the fiber from the IPA basin.

General Use (w/Fiberholder)

- 1 Load fiber into a fiber holder.
- 2 Use the measurement gauge to set the correct length of fiber.

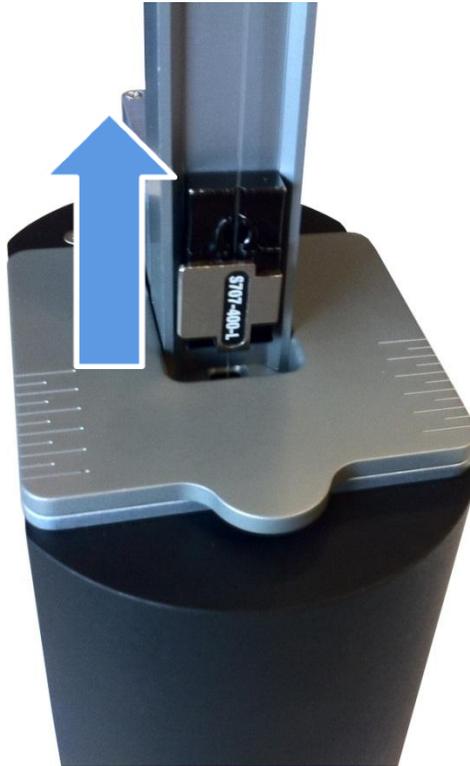


3 Place the fiber holder onto the TSUC-5000 fiber holder platform and lower.



4 Press the Go Button to activate the TSUC-5000.

- 5 (when the TSUC-5000 begins to beep and the LED turns red) Slide the fiber holder up and remove.



Alcohol Replacement

Replace the alcohol and clean the alcohol basin daily or as needed.

- 1 Power off the unit and unplug the power supply.
- 2 Lift the cover and remove.



3 Remove the IPA using the washbottle.



- 4 Clean and rinse the TSUC-5000 IPA basin.
- 5 Fill the TSUC-5000 with new IPA.

Tech Support

Please refer below to contact 3SAE Technologies, Inc. with questions regarding your TSUC-5000.

Email	support@3SAE.com
Website	www.3SAE.com
Technical Support Lines	Monday - Friday, 8:00 AM to 5:00 PM CST 615-778-8812 Extension 2
After Normal Business Hours	800-864-1404