

Instruction Manual for Automatic Single-Core Optical Fiber Thermal Stripper



Product description: Automatic single-core optical fiber thermal stripper (as the photo illustrates)


Model: SM-290



Safety precautions:

The company attaches great importance to the safety factors in terms of product design. But if the device is mis-operated, the device would cause personal injury incident. To avoid the accident, please use the device safely, and the content as below must be followed:

- Warning sign, if the device has a sign as below, please read and understand the sign, carefully.

	<p>The sign requires [attention](means danger, warning). The sign on the device and the instruction manual requires attention, means danger, warning.</p>
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- Please read the warning and precautions, carefully before use.

1. Preface

First, thank you very much for purchasing and using SM-290 automatic single-core optical fiber thermal stripper of our company. The device is easy to operate, featuring automatic vertical peeling, good fiber-peeling quality, stable and efficient performance; the cutter is durable and convenient for replacement; The device adopts high-accuracy linear guide rail and thermal stripping method directly driven by the motor, ensuring no damage to the optical fiber; please read the instruction manual carefully before use, and store the manual near the device to facilitate reading.

2. Introduction

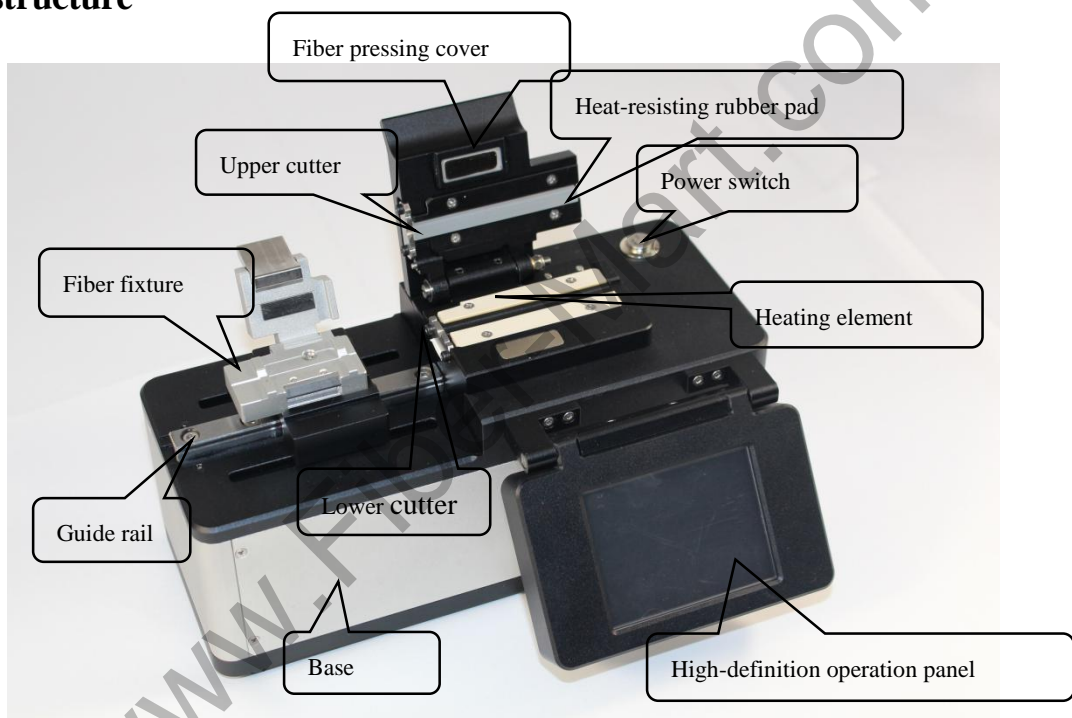
◆ Main technical parameters

Parameters for automatic single-core optical fiber thermal stripper	
Fiber-clad diameter	60μm-800μm
Fiber coating-layer diameter	100μm-1000μm
Maximum stripped length	≤58MM
Heating temperature	60-120°C adjustable
Driving mode	Linear guide rail and lead screw drive
Fiber stripping mode	Full-automatic
Fixture platform	Specialized fixture(for optical fiber of various diameters, the fixture should also be replaced)
Power source	DC12V2A
Dimensions	200 (L) x 80(D) x 110(H) mm
Weight	About 1.6KG
Environmental requirement	The temperature<50°C, humidity<85%

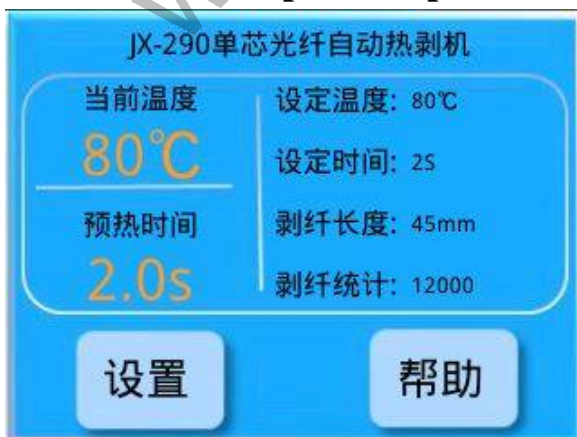
◆ **Standard configuration**

Items	Specifications	Quantity
Automatic single-core optical fiber thermal stripper	SM-290	1
Power adaptor	DC12V2A	1
Instruction manual		1
Brush		1
Allen wrench	1.5mm	1

3. Basic structure



4. Instruction for the operation panel



Main operation interface



Parameters setting interface

- 1) Main operation interface:
 - A) Mainly displays current working status of the device, e.g. current actual heating temperature, preheating time, etc.;
 - B) A “set” key in the main interface, is mainly used to set each required parameter for the thermal stripper, referring to “parameters setting interface” for details;
 - C) A “help” key in the main interface, is mainly used to demonstrate simple usage and basic maintenance method for the device.

- 2) Parameters setting interface:
 - A) Set the heating temperature, the unit is °C, the range for the temperature setting is: 60°C ~ 120°C;
 - B) Set the preheating time, the unit is S, when the preheating time is reached, the device starts to strip the optical fiber, automatically (0-20S);
 - C) Set the length of the stripped fiber, the unit is mm, the set stripped length of the fiber is the operational distance of the fiber-stripping motor, the setting range is ≤ 58mm.
 - D) Total quantity of the stripped fiber can be reset, the device features statistical function for quantity of the stripped fiber, if the device needs to be reset, please input reset password into “Input the password”, reset password for the equipment is: 40800, please do remember.

5. Operation steps and methods

- (1) Connect both ends of the power adaptor with AC220V and power port of the thermal stripper, separately;
- (2) Press the switch to power on the device, the motor resets automatically, high-definition operation panel displays and enters into the main operational interface;
- (3) Continue to use original parameters or revise each fiber-stripping parameters, reset the statistical quantity of stripped fiber;
- (4) Open the fiber fixture cover and fiber pressing cover in turn, put the to-be-stripped fiber into the groove of the fiber fixture;
- (5) Close the fiber fixture cover and fiber pressing cover in turn, the sequence can not be reversed;
- (6) After the fiber pressing cover is closed, when the set preheating time is reached, the motor starts to strip the fiber, automatically;
- (7) Wait till the motor stops, automatically, the fiber stripping is done;



Power port

- (8) Open the fixture cover and fiber pressing cover in turn, take out the stripped fiber, and the motor returns to reset status, automatically;
- (9) After fiber stripping each time, a brush is required to clean the stripped coating layer and debris, the blade and the heat-resisting rubber pad especially need to be cleaned;
- (10) Please adopt a gauze soaked in the ethanol alcohol with a purity of 99% to clean the fiber, vertically;
- (11) After the operation, power off the device and unplug the power source adaptor;


★ **Do not adopt the used gauze, repeatedly, take precautions in case your finger would be pricked by tip of the fiber.**

Note: when the device is not used for more than 10 minutes, please switch off the thermal stripper; when the thermal stripper functions normally, forbidden to put your hand or other objects within the moving parts range, forbidden to touch the heating element, in case of burns or damage to the fiber thermal stripper.

6. Maintenance

◆ Daily cleaning

In order to function normally, cleaning maintenance must be done before and after use of the device, please adopt a cotton swab soaked in ethanol alcohol with a purity of 99% to clean the cutter, heating element and heat-resisting rubber pad, etc.

	1. Residue of the coating layer attached to the blade, heating element and heat-resisting rubber pad is the cause of damage to the thermal stripper function.
	2. While cleaning, please adopt ethanol alcohol with a purity of 99% , if the purity is low, the blade is easy to rust, and rubber to deteriorate.

◆ Cutter replacement

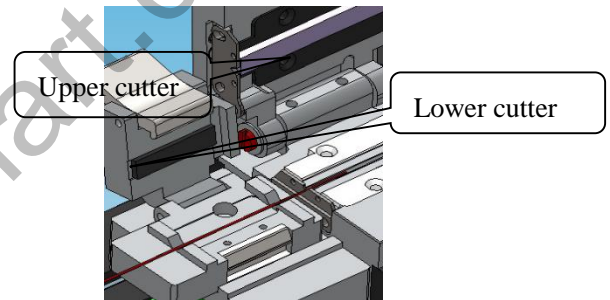
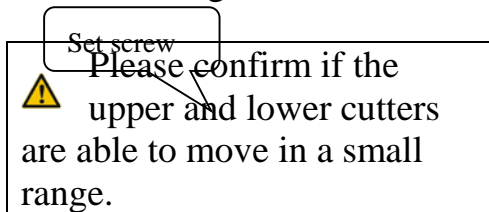
The blade is sharp, great attention must be given to the operation. In order to guarantee safety, please confirm the host under status as below;

- 1. The fiber holder is in the leftmost position of the device (directly disconnect the power source or switch off the power);
- 2. Switch off the power;
- 3. The heating element is in a cooling state (after power off, waiting for more than 3 minutes).

Note: suggest to replace the cutter within 30,000 times of fiber peeling, the upper and lower cutters should be replaced meantime, the upper and lower cutters are different, please pay attention to identify.

◆ **Cutter steps**

1. Adopt an Allen wrench to loosen the cutter fixing screw, take out the upper and lower cutters, and loosen the set screw;
2. A new lower cutter is installed and tightened with a screw, keeping the cutter in an unfixed state;
3. A new upper cutter is installed and tightened with a screw, keeping the cutter in an unfixed state;
4. Tighten those cutter fixing screws, slightly, making sure the cutters still able to move in a small range.



5. **Cutter adjustment**

Close the fiber pressing cover, align the upper and lower cutters, adopt an Allen wrench to fix the lower cutter, adjust the set screw on the fiber pressing cover, observe the gap between the upper and lower cutters, and test with a to-be-stripped fiber, adjust the gap till the coating layer of the fiber is completely cleaned, then fix the upper cutter, and the cutter adjustment is done.

6. Trial cutting according to the operation steps, then observe the fiber stripping effect to test if the cutter is fully adjusted.

**Thank you for reading the instruction manual carefully and completely!
Wish your company have a more and more prosperous future!**