Signal fire

# AI-6A+

## OPTICAL FIBER FUSION SPLICER

**PROFESSIONAL DEDICATED!**

**BEST SELLER GLOBALLY!**

**SIGNAL FIRE TRUSTWORTHY!**

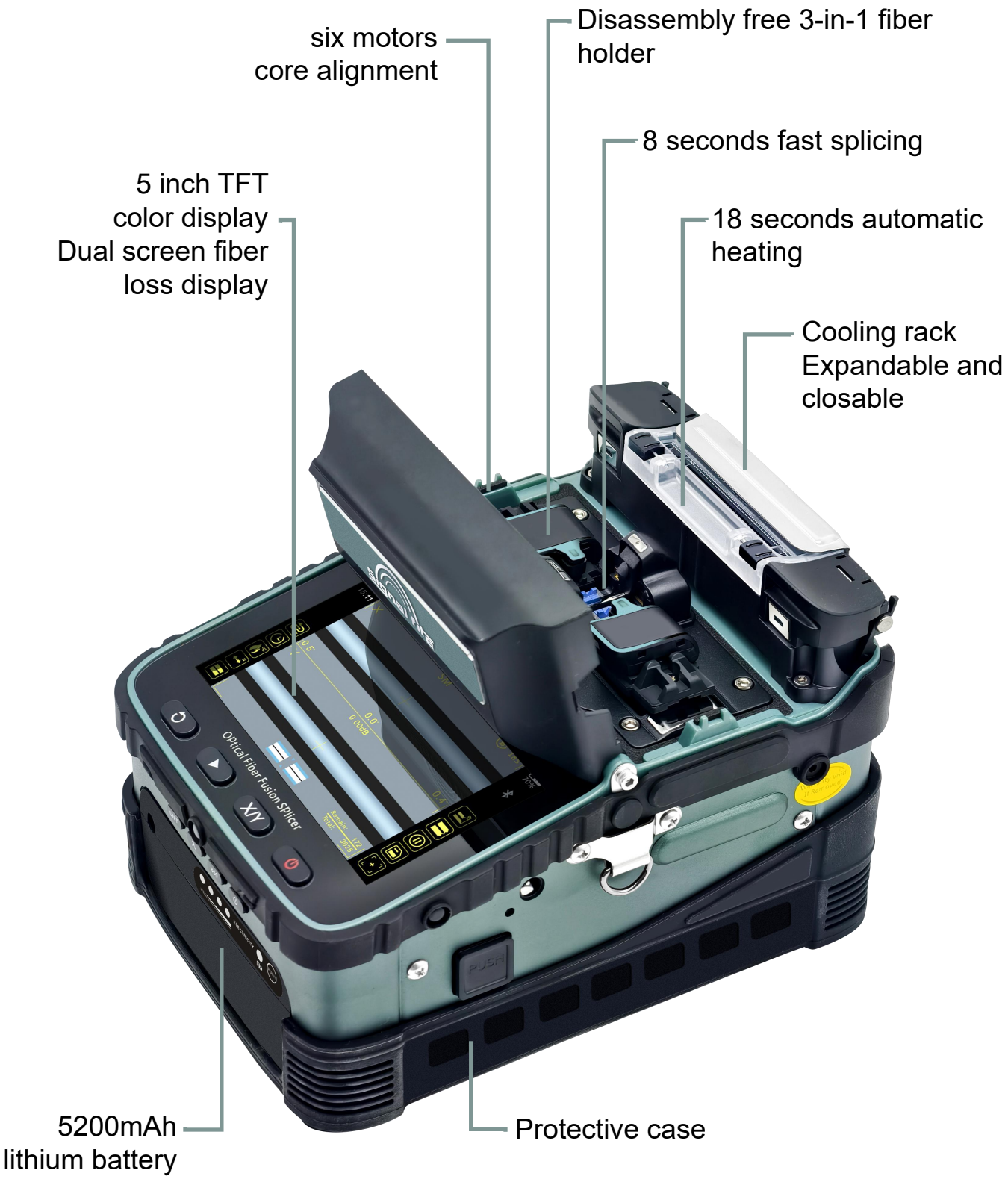
# AI-6A+

## OPTICAL FIBER FUSION SPLICER

Signal Fire AI-6A+ optical fiber fusion splicer is an economical six motor machine, mainly suitable for security monitoring, FTTH entry, and short distance outdoor fiber fusion splicing. The machine adopts industrial CPU, which runs quickly; Adopting a 5-inch high-resolution color screen with a simple and intuitive interface, magnified 320 times, making it easy to observe the fiber core with the naked eye; 8 seconds high-speed splicing, 18 seconds heating; The machine comes with OPM and VFL functions, which make it more efficient compared to ordinary splicing machines; 5200mAh large capacity lithium battery, capable of splicing and heating around 160 cells, comes with a cooling rack that can be turned off or unfolded. The machine is equipped with 10 major global languages, allowing users to choose and remotely upgrade software systems. AI-6A+ will surely exceed your expectations!

# AI-6A+

## OPTICAL FIBER FUSION SPLICER



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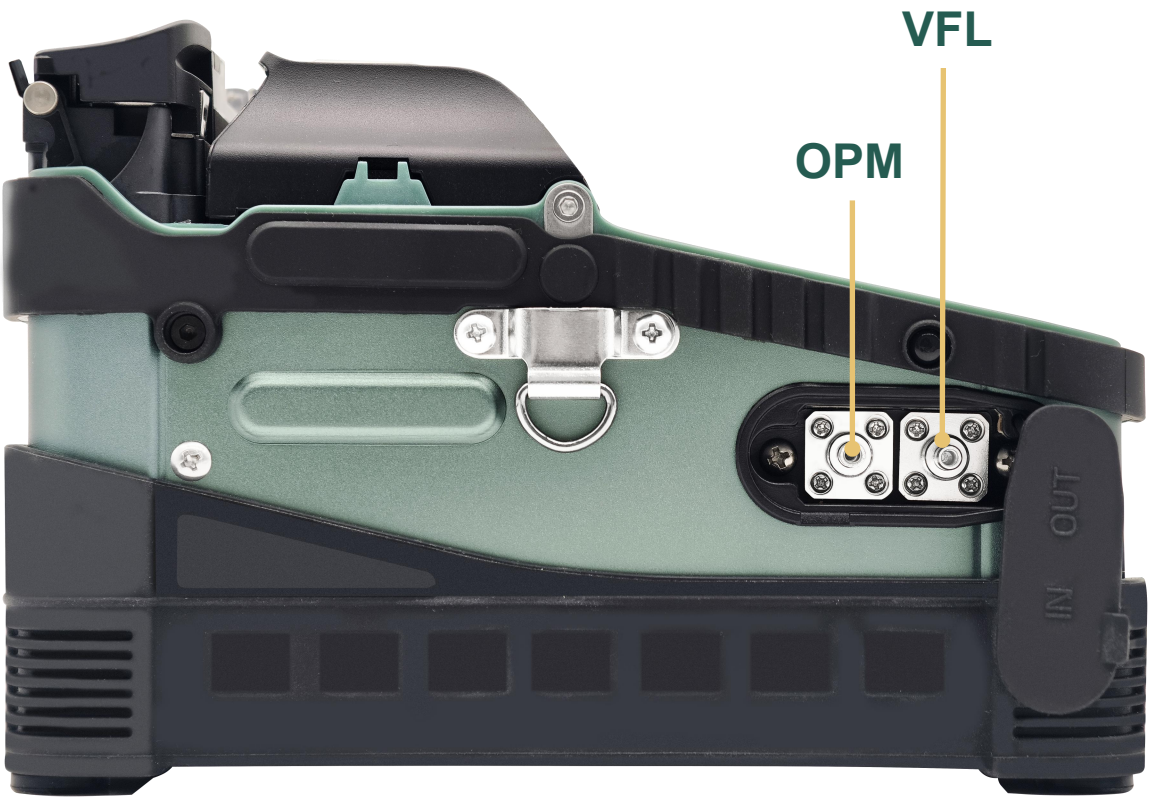
# Within VFL and OPM function




**Effectively measure connection losses, verify continuity, and help evaluate fiber link transmission quality**

**OPM**

## Switch between ten states

Wavelength: 850nm、1300nm、1310nm
1490nm、1550nm、1625nm、980nm
1270nm、1577nm、1650nm

**VFL**

## Switch between three states

power: 15mW, 2Hz flashing and steady on mode

# EXQUISITE DETAILS

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# Industrial quad-core chip CPU

**1s** *startup will enter the working state without waiting*

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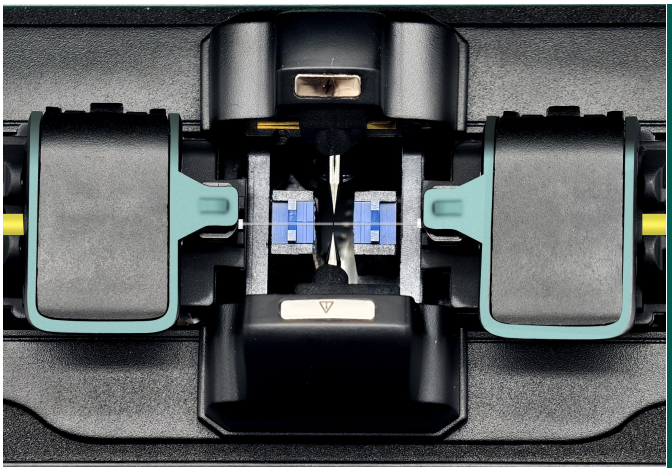
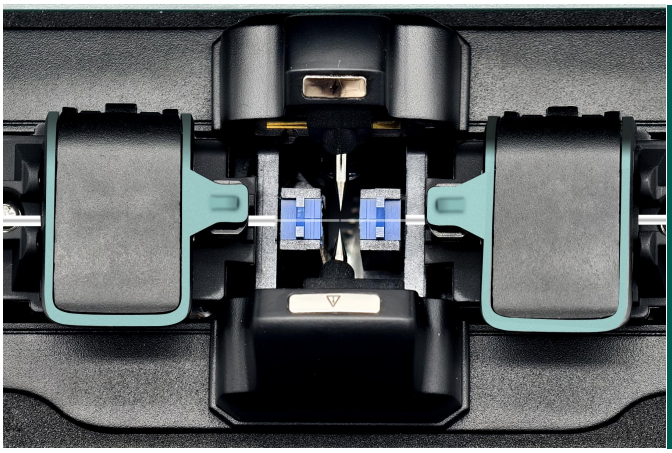
# 3 in 1 fiber holder

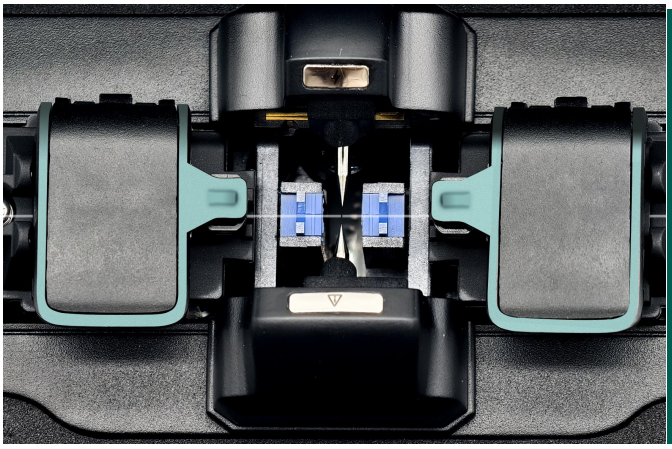
SM, MM, bare fiber, pigtail, Drop cable, multi fiber cable



Jumper(pigtail)



Drop Cable Fiber



Bare Fiber

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Battery charging "New upgrade"

# 5200mAh lithium battery

**Dual charging**

Even if a fault occurs, another channel can be used for charging

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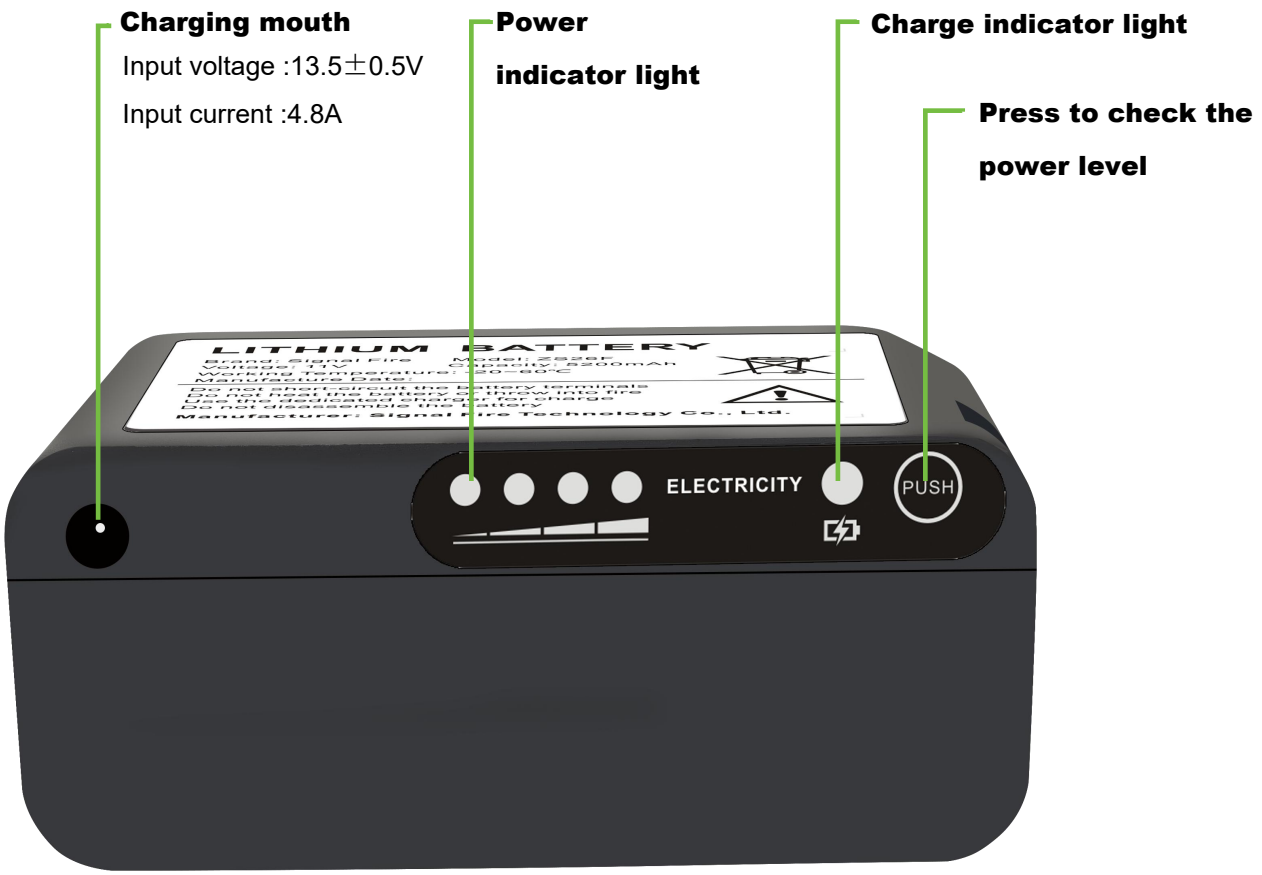
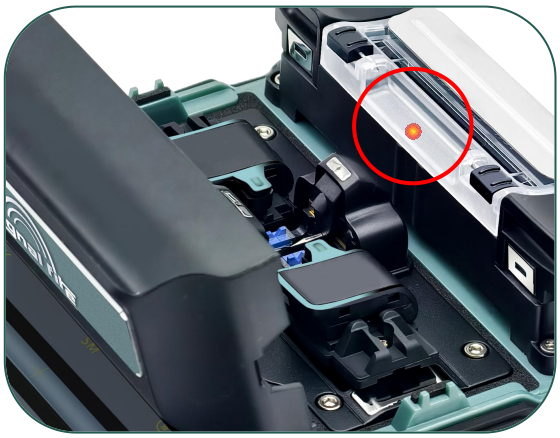
# Charging time ≤3.0 hours

In full state, 160 cores can be continuously fused and heated

**The battery can be removed and charged separately**

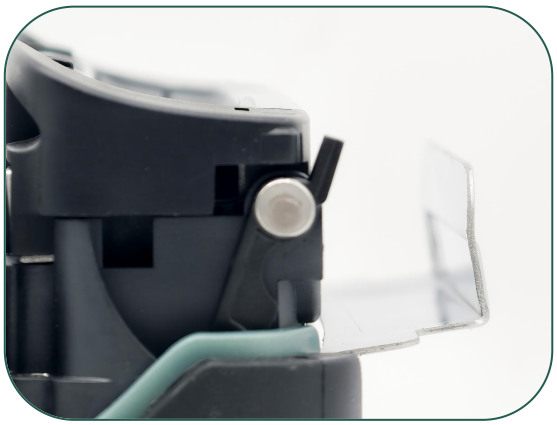


# 18s automatic heating



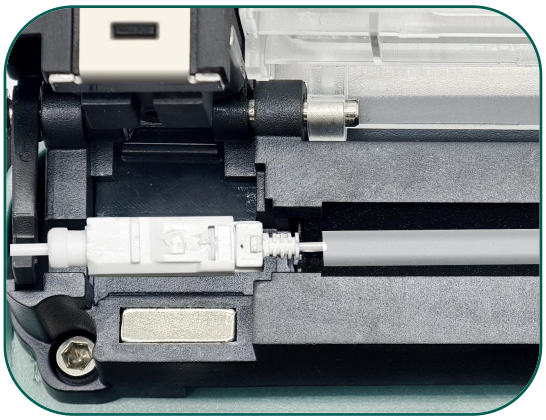
## Preheating

Successful fiber melting. When opening the windproof cover to take out the fiber, the machine turns on pre heating for up to 8 seconds



## Cooling rack

Expandable and closable



## Heating part compatible with SC fiber

SC Fiber: Push up

Ordinary fiber: Push down

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# Dust prevention
# Fall prevention
# Shock prevention

## Thickened buffer structure

Don't be afraid to knock! Touch! Fall!

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# Basic parameter

| | |
|---|---|
| **Fiber alignment** | Core/cladding |
| **Motor number** | 6 motors （accurate of fiber alignment：0.3μm） |
| **Splicing time** | 8s |
| **Heating mode** | 18s， can be customized according to the external environment |
| **Fiber type** | Single-mode fiber (SMF/G.652), BIF/G.657); Suitable for single mode, multi-mode, bare fiber, tail fiber, drop cable, jumper, invisible fiber fusion; |
| **The cladding diameter** | 80-150 μm |
| **Splicing loss** | 0.02dB（SM）、0.01dB（MM）0.04dB（DS/NZDS） |
| **Splicing mode** | Automatic focusing core alignment, conventional/high precision welding |
| **Splicing way** | Automatic, semi-automatic |
| **Fiber holder** | Three in one fixture, no need to change, suitable for single/multi-mode, multi-core cable/bare fiber, tail fiber, jumper fiber,drop cable |
| **VFL** | The machine comes with: power: 15mW, 2Hz flashing and steady on mode |
| **OPM** | Wavelength: 850nm、1300nm、1310nm、1490nm、1550nm、1625nm、980nm、1270nm、1577nm、1650nm/Measurement range: -50+26dbm Absolute error: <0.3dB (-50dbm ~+3dBm range) |
| **Machine system languages** | 10 languages available（Chinese、English、French、Russian、Italian、Portuguese、Polish、Spanish、Thai、Arabic） |
| **Battery capacity** | 5200mAh large capacity lithium battery charging time ≤3.0; It can continuously weld and heat about 160 cores |
| **Magnification** | 320x (X or Y axis single display)， 200x (x and Y axis dual display) |
| **Fiber diameter** | Coating diameter: 80-150μm/Coating diameter: 100-1000μm |
| **Cutting length** | Coating layer 250μm below: 8-16mm/coating layer 250-1000μm: 16mm |
| **Heat shrink tube** | 60mm、50mm、40mm、25mm |
| **Tensile testing** | standard 2N |
| **display** | 5 inch TFT color display screen |
| **Boot time** | 1s, boot can enter the working mode |
| **Data is stored** | Unlimited, machine storage 1000 groups, the excess part can be stored in the server, can export data. |
| **Wireless communication** | Based on bluetooth 4.2 protocol standard, the working band is 2.4GHz, the maximum transmission range is 60m |
| **Software upgrade** | Mobile phone APP Internet update, enable Bluetooth synchronization upgrade machine software |
| **Management function** | The equipment owner can be bound as the highest authority, and can remotely view the welding records, welding time, loss, etc. through the mobile phone APP. The number of welding times or working time of the equipment can be set. The manager can effectively manage a single or multiple equipment. |
| **Return loss** | Better than 60 db |
| **Product protection** | Waterproof, dustproof and fall proof |
| **Power supply** | Input AC100-240V 50/60Hz, output DC13.5V/4.8A, the current power mode can be identified, real-time monitoring of the current battery level |
| **The work environment** | Temperature: -15 ~ +50℃, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s |

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# Accessories in the tool box

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Fiber cleaver

Strap

User's manual
Quality Certificate
Warranty Card

wire stripping pliers

Miller stripper

Fiber for ARC calibration

Alcohol Bottle

Brush

Power Adapter

# Size and wight

**Machine weight**
2.03kg (with battery)
1.68kg (without battery)

**Toolbox weight**
4.70kg
(including machine
and accessories)

**Total weight**
5.90kg

# SERVICE COMMITMENT

***Three years warranty, but these circumstances are not within the scope of this provision.***

**01.** Except for the cleaver, miller clamp, stripping pliers, fiber holders and other tools whose life depends on the frequency of use and the use of the environment. Also electrodes are consumption material which are not in the warranty.

**02.** Battery and power adapter are warranty for one year, it is in free warranty where it is damaged or can not be charged in one year.