



OPTICAL FIBER FUSION SPLICER

INTELLIGENT OPTICAL FIBER FUSION SPLICER **PRODUCT MANUAL**

www.signalfiresplicer.com

SIGNAL FIRE TECHNOLOGY CO., LTD.



OPTICAL FIBER FUSION SPLICER



AI-8



AI-7

NEW PRODUCT LAUNCH

CLASSIC MASTERPIECE



OPTICAL FIBER FUSION SPLICER

Signal Fire AI-8 use the latest core alignment technology with auto focus and six motors, it is a new generation of fiber fusion splicer. It is fully qualified with 100 km trunk construction, FTTH project, security monitoring and other fiber cable splicing projects. The machine uses industrial quad-core CPU, fast response, is currently one of the fastest fiber splicing machine in the market; with 5-inch 800X480 high-resolution screen, the operation is simple and intuitively; and up to 300 times focus magnifications, making it is very easy to observe the fiber with naked eyes. 6 seconds speed core alignment splicing, 15 seconds heating, the working efficiency increased by 50% compared to ordinary splicing machines. Under the conditions of rigorous testing, the performance is still outstanding; toolbox is small, exquisite, durable, and with unique bench design. The design of operating platform reflects the humanistic care; unique lighting design, it is convenient for night construction or repair. Screen brightness is adjustable and it is convenient for outdoor sunshine environment operation. The core parts are using imported brands, aviation metal body material with exquisite details. With the combination of advanced technology and design, the new generation of optical fiber fusion splicer will bring you a reliable and comfortable user experience.

MASTERPIECE HIGH-END LUXURY



OPTICAL FIBER FUSION SPLICER



● Once splicing reaches to 50,000 times free replacement a new machine

METAL BODY

AESTHETIC DETAILS



OPTICAL FIBER FUSION SPLICER

- 18 patent results
- Lifetime free warranty

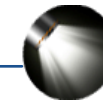
Automatic heating

5 inch display

Simultaneously align fibers

Loss display

Protective case



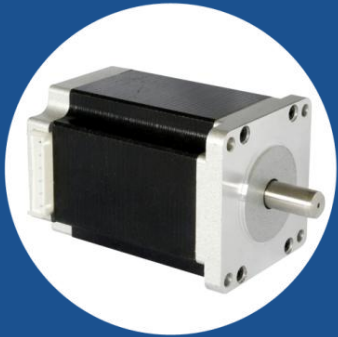
LED light

Convenient for night operation

Battery press & remove



CORE PARTS QUALITY ASSURANCE



Siemens stepper motor



Roth ROUST linear guide



Sanyo lithium battery



Aviation metal material

THE TOOLBOX

COMES WITH A STOOL TO FACILITATE
THE CONSTRUCTION WORKERS.



OPTICAL FIBER FUSION SPLICER



Remove
the stool



Do not need to take out the
splicer machine from the
toolbox while working.

Fiber cleave operator station

Two
layers



Stool can bear

100kg



Lighting for splicer Convenient for night operation

W e a r e s o h a r d o n l y f o r y o u



INDUSTRIAL QUAD-CORE CHIP CPU



Synchronous
operation

speed
response

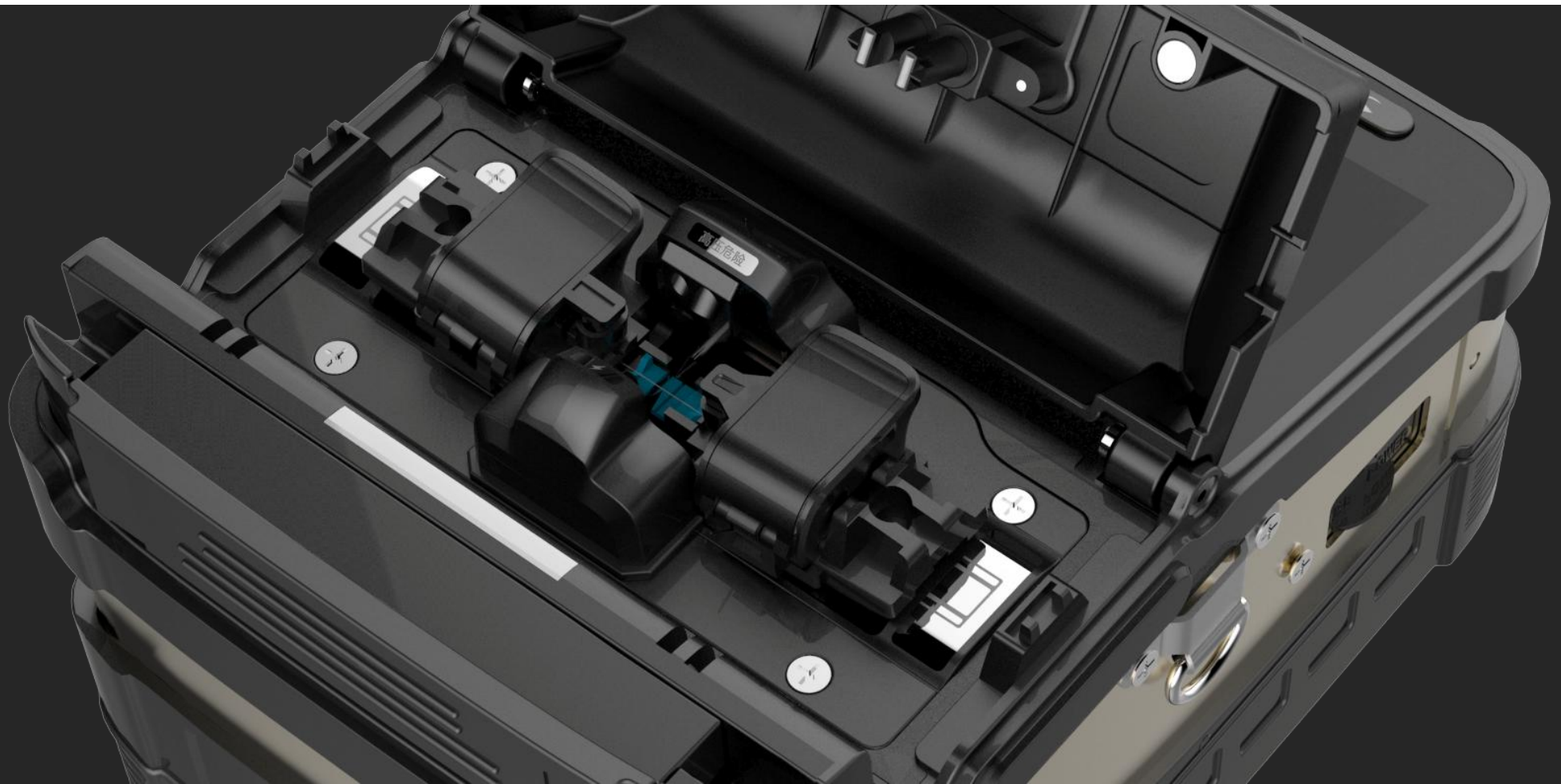
no
jammed

super
experience

3 IN 1 FIBER HOLDER



SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable



THE BATTERY POPUP AUTOMATICALLY



7800 mA high-capacity lithium battery

- charging time ≤ 3.5 hours
- continuous splicing and heating
about 200 times



Press to popup
the battery

Show good performance in plateau, desert, and extreme cold environment



BASIC PARAMETER

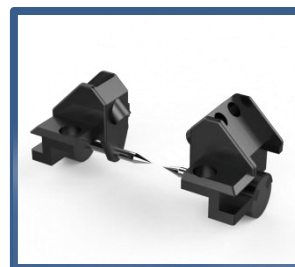


Fiber alignment	Core/cladding alignment / Manual alignment	Built-in lighting	easy for night operation
Splicing time	6S (AI-8) / 8S (AI-7)	Tension Test	Standard 2N
Heating time	15S (AI-8) / 18S (AI-7)	Fiber holders	3 in 1 fiber holder, SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable
Heating mode	Automatic heating (Preheating)	Magnification	300 for X or Y view, 150 for X or Y view
Focus mode	Six motors Auto focus	Screen	5 inch TFT color display
Applicable Fibers	SM(G.652&G.657)、MM (G.651) 、DS(G.657)、NZDS (G.655)	Splicing Mode	Normal / high precision splicing
Splice Loss	0.025dB (SM) 、0.01dB (MM) 0.04dB (DS/NZDS)	Splicing record storage	Synchronize to the phone, the server to cloud storage unlimited
Control technology	Real-time control and calibration of fusion ARC	Built-in battery	7800 mA high-capacity lithium battery, charging time ≤ 3.5 hours, continuous splicing and heating about 200 times
Return loss	Better than 60DB	Power supply	Input AC100-240V 50 / 60HZ, output DC13.5V / 4A, the current power mode can be identified, real-time detection of battery power
Fiber diameter	Cladding Diameter : 80-150μm Coating Diameter : 100-1000μm	Operating Conditions	Temperature -15 ~ +50 °C, humidity: <95% RH (no condensation) Working altitude: 0 ~ 5000m. Resist max. wind speed: ≤ 15m / s
Fiber Cleave Length	Coating less than 250μm : 8-16mm Coating less than 250-1000μm:16mm	Shrinkable tube	60mm、40mm

Accessories in the tool box



Fiber Cleaver



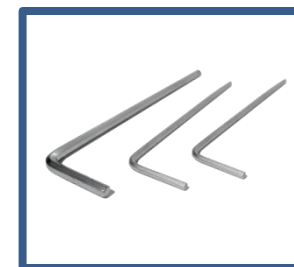
Spare electrode



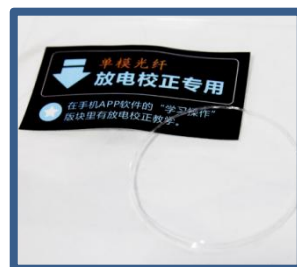
Wire stripping pliers



Miller stripper



Hex key



Fiber for
ARC calibration



Strap for carrying
case



Strap for fusion
splicer



Power Adapter

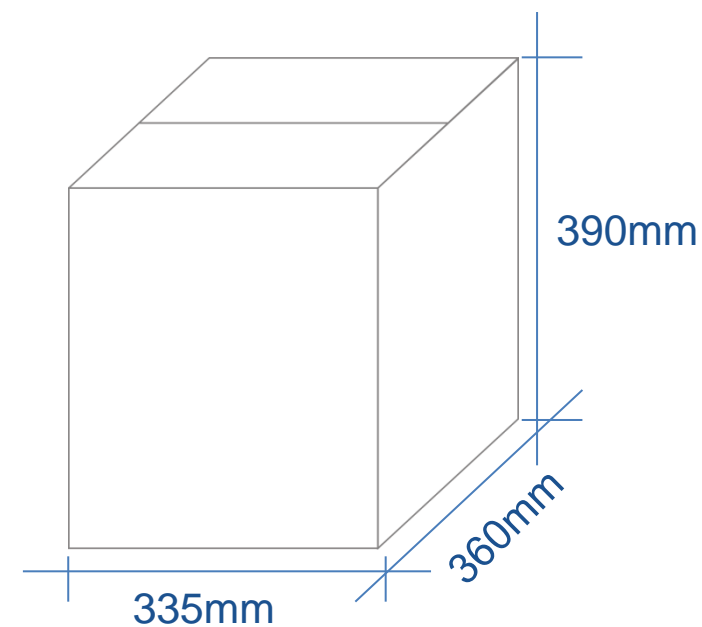
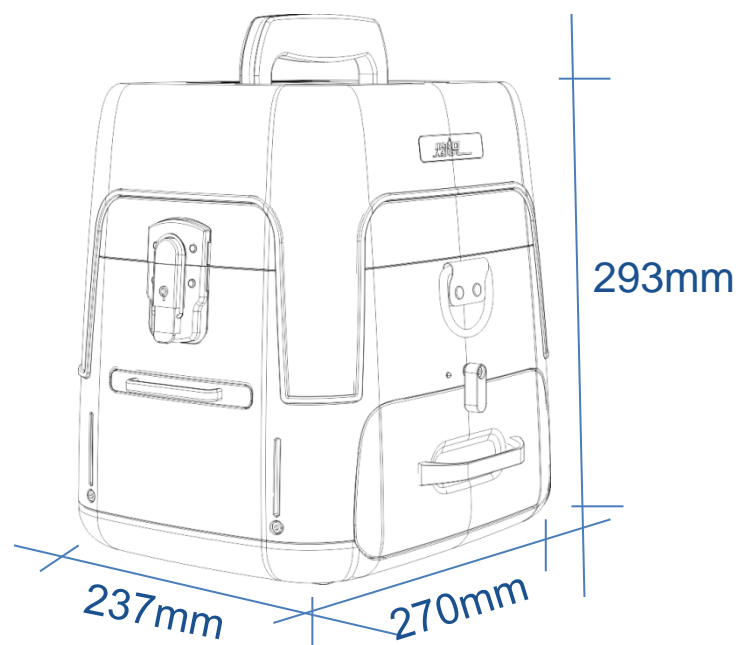
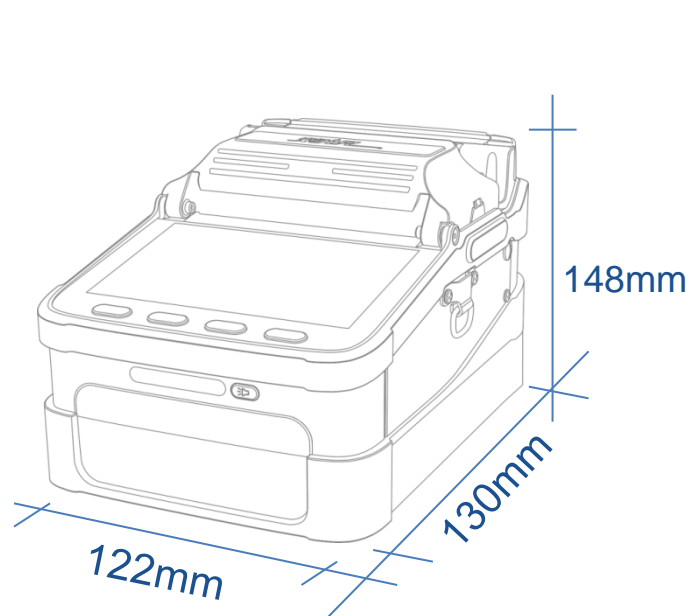


Alcohol Bottle



Brush

SIZE





OPTICAL FIBER FUSION SPLICER

ABOUT US



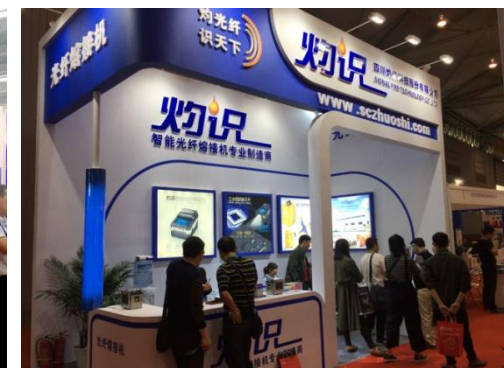
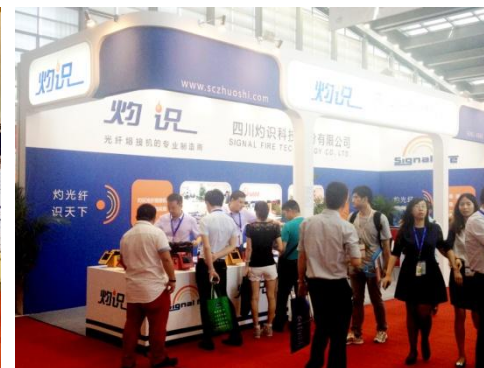
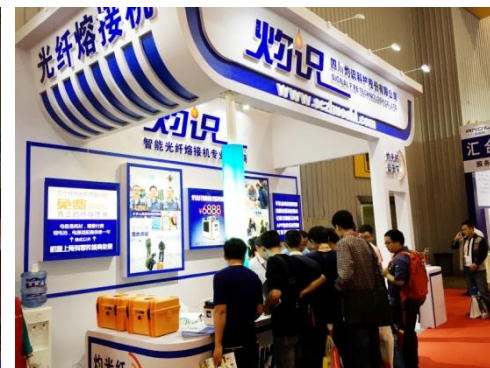
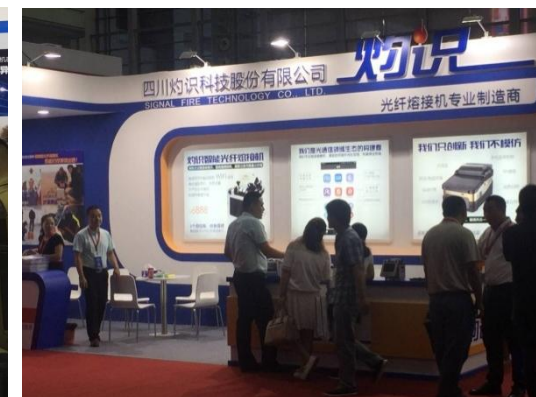
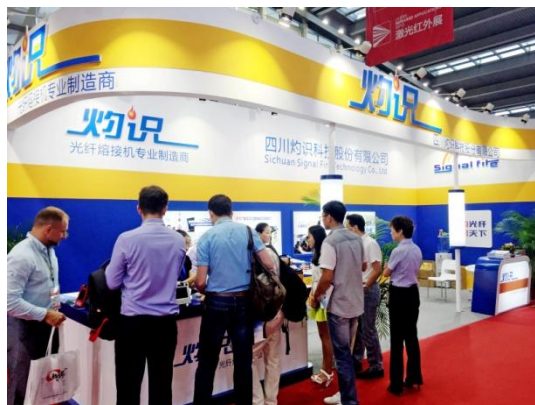
Signal Fire Technology Co.,Ltd. Is A High-Tech Enterprise Which Is Specialized In Research And Development, Production And Sales Of Communications Products. The Main Products Are Automatic Intelligent Optical Fiber Fusion Splicer, Optical Time Domain Reflectometer (OTDR), Light Power Meter, Optical Cable Construction Tools Equipment, Fiber Fusion And Taper Equipment, Optical Cable Blowing Machine Etc. Our Products Are Widely Used In China Telecom, China Mobile, China Unicom, Broadcasting, Electricity, Railways, Petrochemical, Military, Coal Industry, Research Institutions And Other Fields.

Our Company Has A Modern Production Plant And Standardized Office Buildings, With A Total Area Of Nearly 6,000 Square Meters, About 200 Employees, Including 10 Senior Engineers, 12 Master's Degree Or Above, Bachelor Degree Or Above Accounted For 45%. Our Company Owns Independent Intellectual Property Rights For Signal Fire Automatic Intelligent Optical Fiber Fusion Splicer And Its Related Products. Our Products Have Been Sold To Many Countries And Regions, Including North America, South America, Europe And Southeast Asia Etc, Our Products Have Gained Highly Praise From Customers.

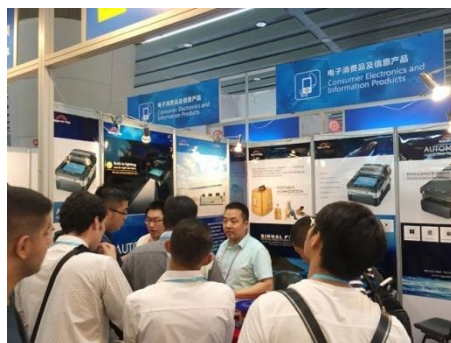


OPTICAL FIBER FUSION SPLICER

EXHIBITION PHOTOS



EXHIBITION PHOTOS





OPTICAL FIBER FUSION SPLICER

INTELLECTUAL PROPERTY



EMC(CE)



FCC

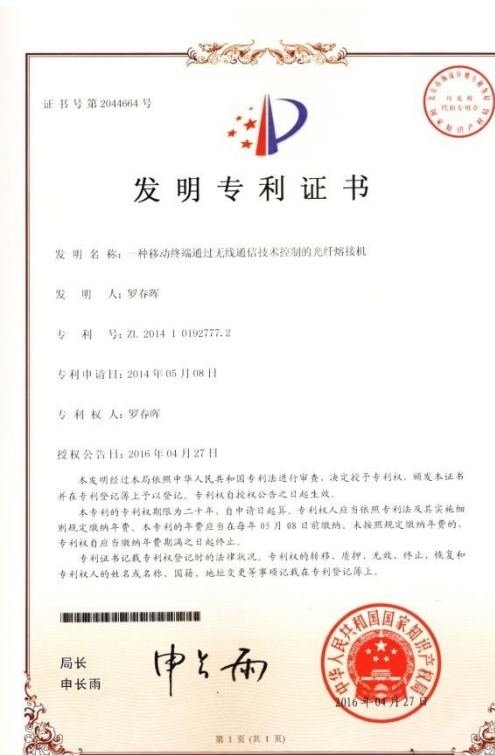
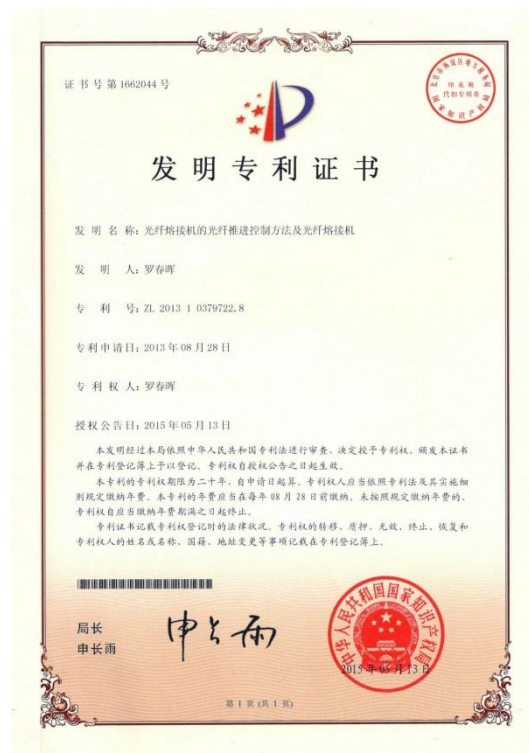


ROHS

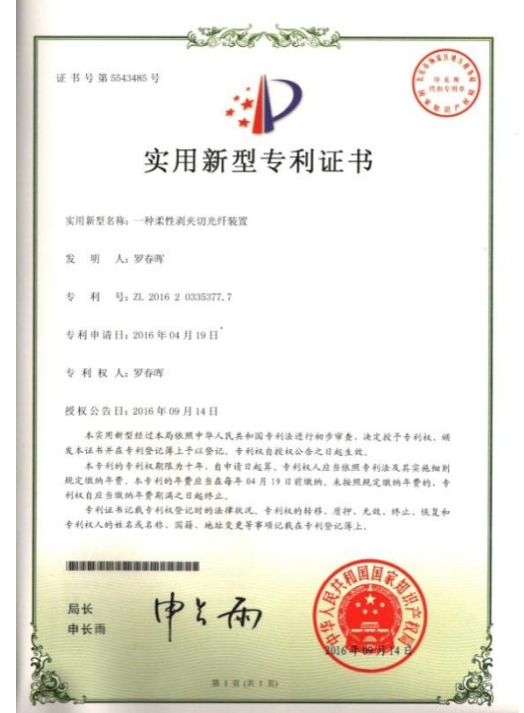
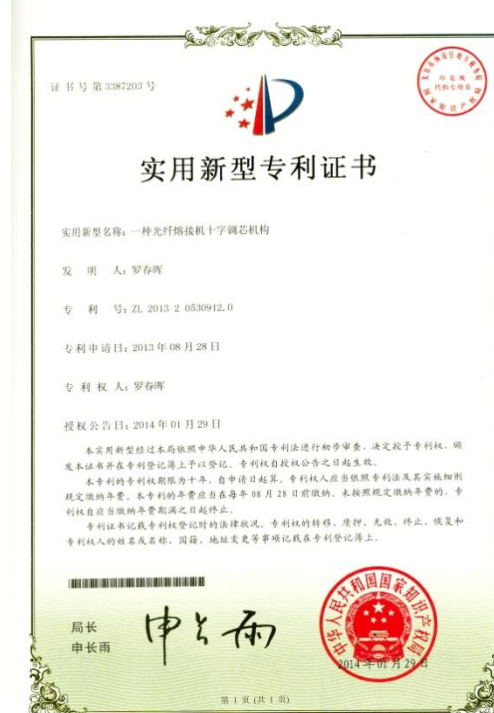
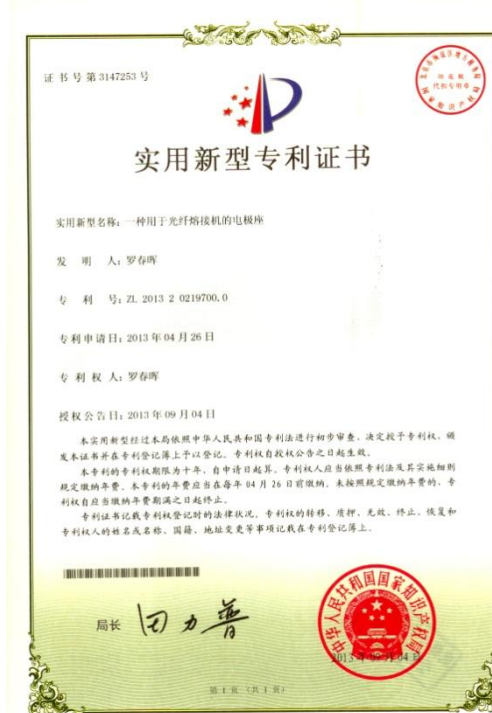
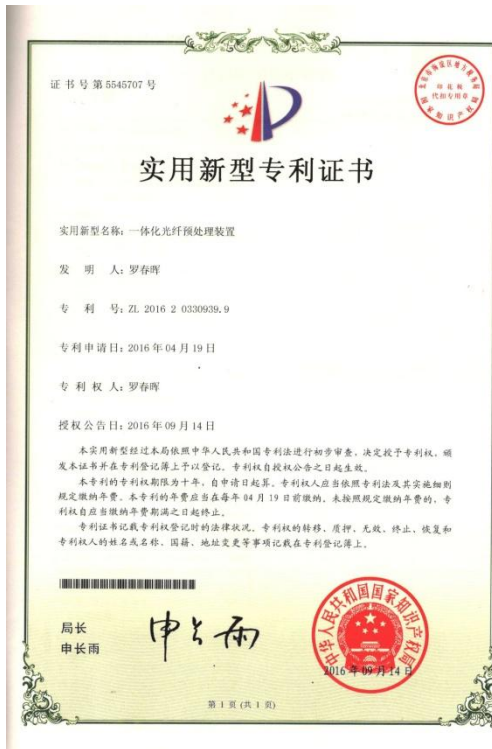


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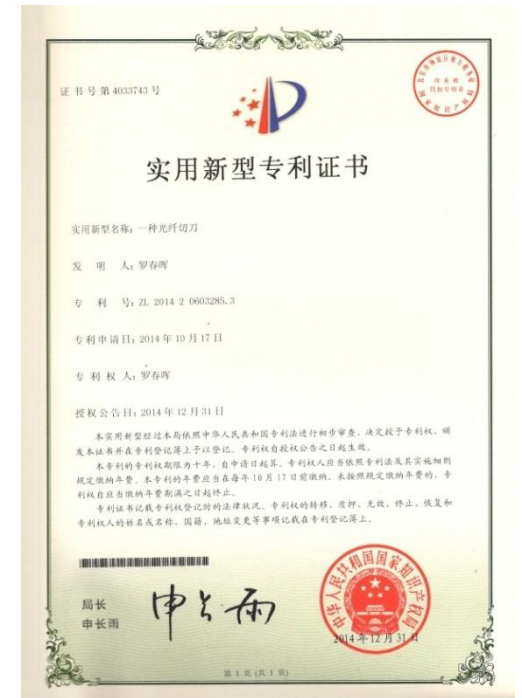
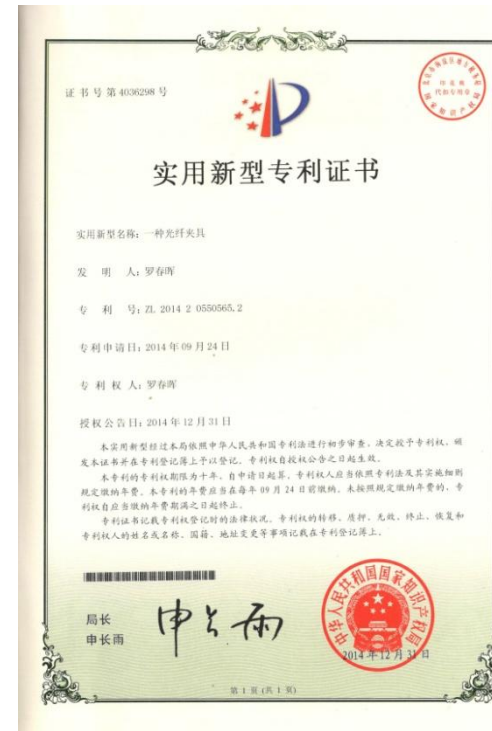
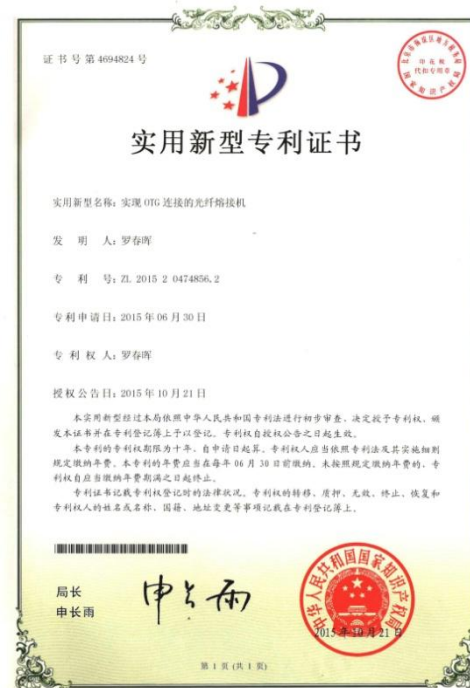
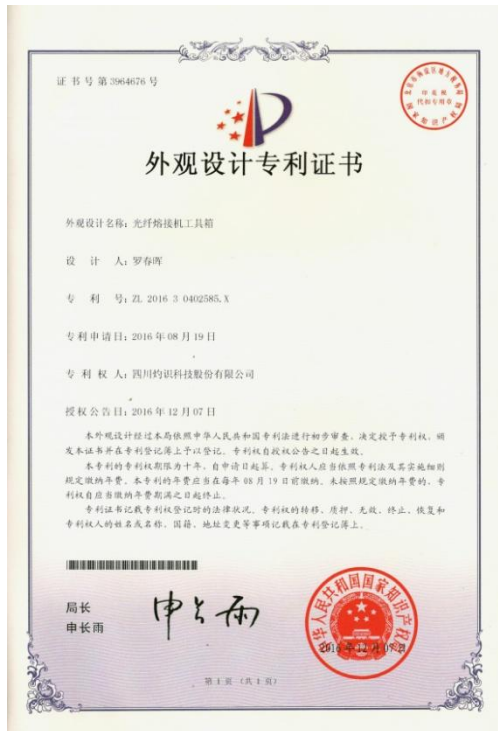
PATENTS FOR INVENTIONS



PATENTS OF UTILITY MODEL



PATENTS OF UTILITY MODEL



SERVICE COMMITMENT

1

If there is quality problem from the date of purchase within three months,
we offer free replacement machine.

The customer bear the out and home shipping cost.

2

Lifetime warranty, lifetime free parts, but these circumstances are not within the scope of this provision.

- 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.
- Electrodes are consumables, it is termination after the electrodes splicing 3,000 times.
- Battery warranty for one year, it is in free warranty where it is damaged or can not be charged in one year.

3

When the splicing reaches **50,000** times,
our company will replace a brand new machine for customer free of charge.