



THE FOURTH GENERATION OF OPTICAL FIBER FUSION SPLICER

Full link integration design / Highly integrated

THE FOURTH GEGERATION TRUNK LINE OPTICAL FIBER FUSION SPLICER





SIX MOTORS



FIBER CORE ALIGNMENT



6S SPLICING



15S HEATING



BUILT-IN OPM FUNCTION



BUILT-IN VFL FUNCTION



BUILT-IN ELECTRIC PRECISION CLEAVER



EQUIPPED WITH SIGNAL FIRE STRIPPER

AI-10A

THE FOURTH GEGERATION TRUNK LINE OPTICAL FIBER FUSION SPLICER

Signal fire fusion splicer AI-10A is the world's first fourth-generation optical fiber fusion splicer, it combines electric cleaver and fusion splicer as one, with 8-in-1 signal fire stripper, and can be combined with the work bench and table, making it is the world's first real sense, small size, light weight, easy to operate optical fiber fusion splicer.



AI-10A

THE FOURTH GEGERATION TRUNK LINE OPTICAL FIBER FUSION SPLICER

Signal fire AI-10A optical fiber fusion splicer uses a number of patents, the full weight of the main machine, the toolbox and a complete set of accessories is only 4.5KG, and the toolbox size is 25.5cmx16.5cm x23cm. In such a small and compact case, the combined design of bench and bench is realized at the same time. Industrial CPU, running speed is super fast, 6 seconds fast splicing, 15 seconds heating, 5 inch color HD LCD screen, 320 times magnification, 7800mAh large capacity lithium battery can splice and heat 240 cores, in high altitude, dry, cold and other harsh environments still perform well.

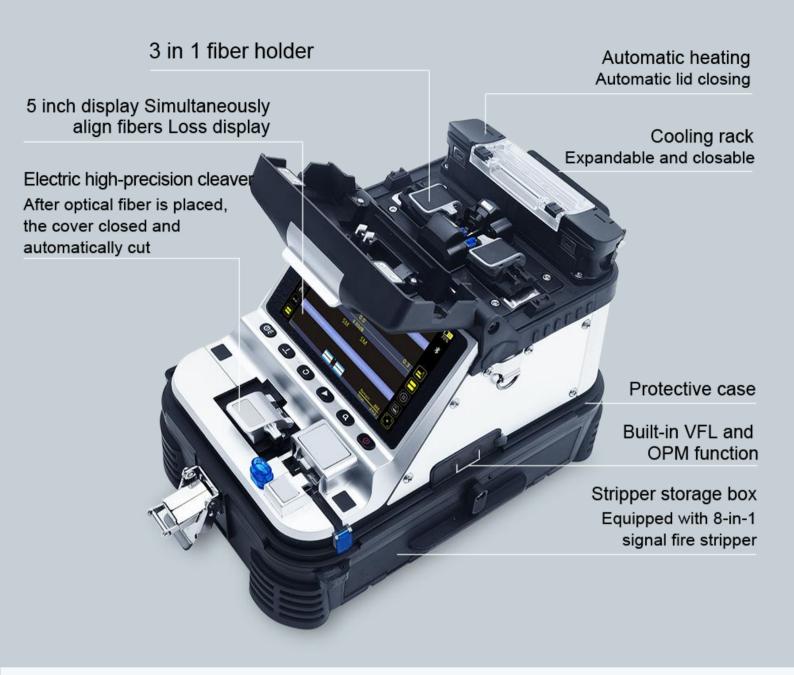


Can be used as a bench outdoor construction is also easy

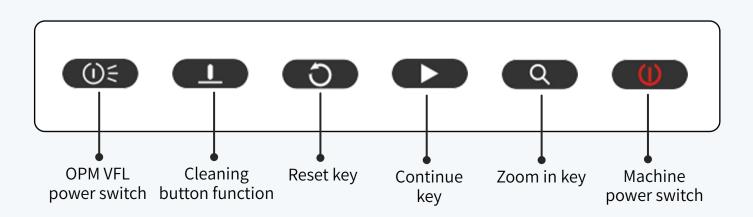


Host support / protection console

Equipped with 8-in-1 signal fire stripper

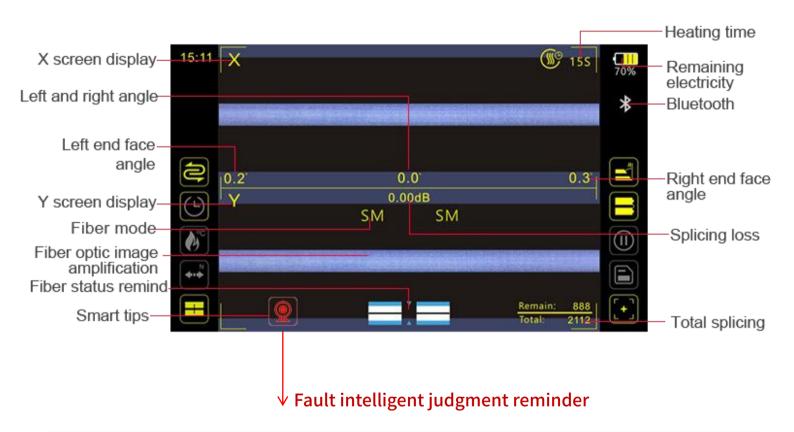


The buttons are clear and beautiful



DISPLAY 5 INCH TFT COLOR DISPLAY SCREEN

320X (X or Y axis single display) 200X (X and Y axis dual display)







Core align failed



Focus failed



ARC calibration failed

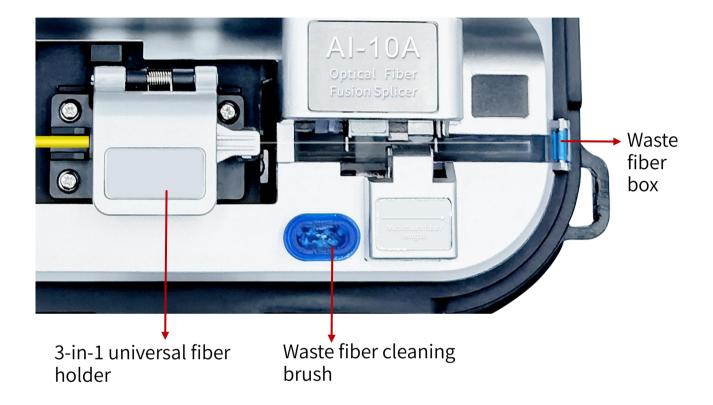


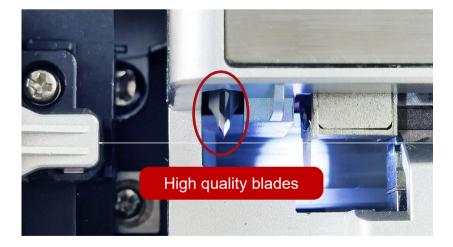
Left and right fiber does not match



The lens is foggy or foreign body interference

EQUIPPED WITH ELECTRIC HIGH-PRECISION CLEAVER

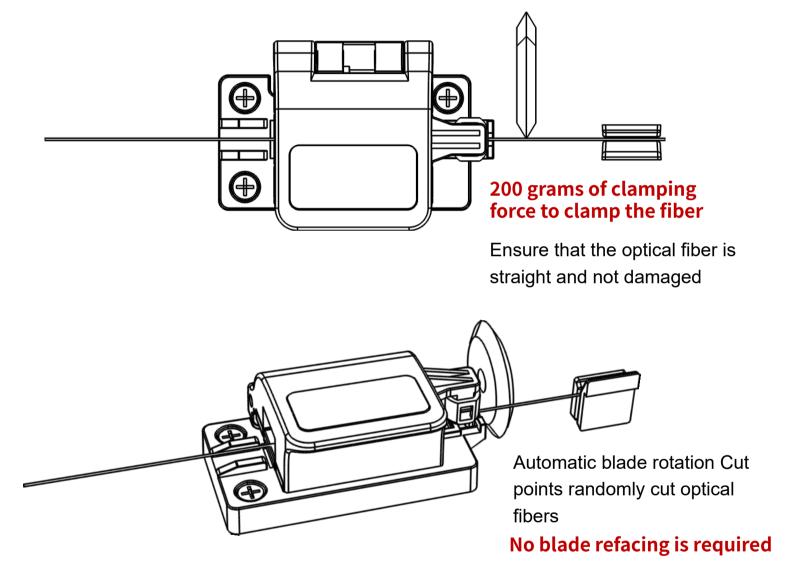




- After optical fiber is placed, the cover closed and automatically cut
- The blade cuts at a random point

NO BLADE RESURFACING MAINTENANCE FREE

Patented technology for precise cutting



The key to the quality of splicing fiber is not only the quality of the fusion splicer, but also the cleaver and various auxiliary tools are very important, especially the trouble-free time of the fiber cleaver and the average cutting quality, to a large extent, determine the real splicing quality and splicing efficiency.

BUILT-IN VFL AND OPM FUNCTION

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



OPM

Switch between six states

Wavelength: 850nm; 1300nm, 1310nm, 1490nm, 1550nm, 1625nm

VFL

Switch between three states

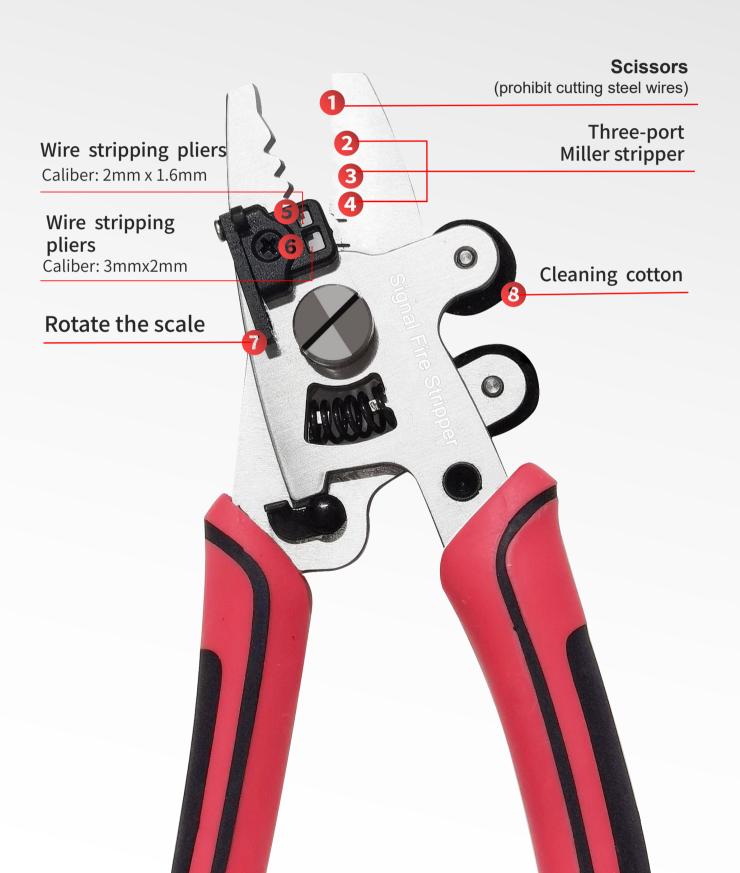
power: 15mW, 2Hz flashing and steady on mode

EQUIPPED WITH SIGNAL FIRE STRIPPER



Invisible storage for easy access

REDUCE CARRYING AND IMPROVE WORK EFFICIENCY



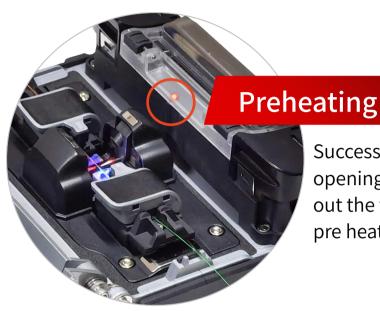
7800MAH LITHIUM BATTERY

Dual charging path Charging time ≤3.5 hours

In full state, 240 cores can be continuously fused and heated

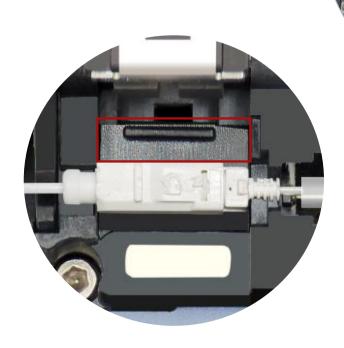


15S AUTOMATIC HEATING



Successful fiber spliced. When opening the windproof cover to take out the fiber, the machine turns on pre heating for up to 6 seconds

Heating part automatic lid closing



Heating part compatible with SC fiber

SC Fiber: Push up

Ordinary fiber: Push down

COOLING RACK

Expandable and closable



3-IN-1 UNIVERSAL FIBER HOLDER

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



Jumper fiber (pigtail)

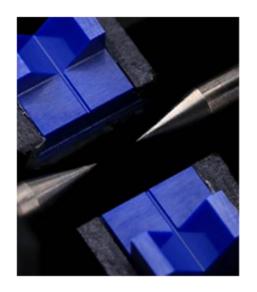


Drop cable



Bare fiber

EXQUISITE DETAILS









The buttons are clear and beautiful

ULTRA THICK PROTECTIVE RUBBER PAD

Thickened buffer structure provides maximum protection



OUTDOOR SPLICING FIBER COMPACT AND PORTABLE







Toolbox size

Weight of toolbox (complete set)

255mmx 165mm x 230mm

4.50kg

WE UNDERSTAND YOUR HARD WORK!



COMBINATION HANGING CHAIN CLIMBING HOMEWORK



BASIC PARAMETER

Fiber alignment	Core/cladding
Motor number	6 motors
Splicing time	6s
Heating mode	15s, 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 optical fiber.
The cladding diameter	80-150μm
Splicing loss	0.02dB (SM) 、0.01dB (MM) 0.04dB (DS/NZDS)
Splicing mode	Automatic focusing core alignment, conventional/high precision splicing
Splicing way	Automatic, semi-automatic,manually
Fiber cleaver	Equipped with electric high-precision cleaver
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/Measurement range: -50+30dbm Absolute error: <0.3dB (-50dbm ~+3dBm range)
Battery capacity	7800mAh large capacity lithium battery charging time ≤3.5; It can continuously weld and heat about 240 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 splicing records, splicing time, loss, etc. through the mobile phone APP. The number of splicing 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°C, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, maximum wind speed: ≤15m/s
Product protection Power supply The work	Waterproof, dustproof and fall proof Input AC100-240V 50/60Hz, output DC13.5V/4.8A, the current power mode can be identified, re monitoring of the current battery level Temperature: -15 ~ +50°C, humidity: < 95%RH (no condensation), working altitude: 0 ~ 5000m, ma

ACCESSORIES IN THE TOOL BOX



- 1 Toolcase
- 2 Fusion splicer
- **3** Spare electrode
- 4 signal fire stripper (Including a bag of cleaning cotton)

- **6** Alcohol bottle
- **6** Cleaver cleaning cotton swab
- **1** Allen wrench
- 8 Brush

- 9 Climbing combination hanging chain
- Toolbox strap
- **1** Belt
- Power adapter
- User's manual / Quality Certificate / Warranty Card / Fiber for ARC

SIZE AND WEIGHT

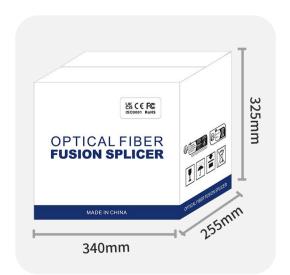


Machine size: 165mm x 255mm x 185mm

Machine weight: 3.09kg

Toolbox size: 165mm x 255mm x 230mm Weight of toolbox (complete set): 4.50kg





Total size: 340mm x 255mm x325mm

Total weight: 5.50kg

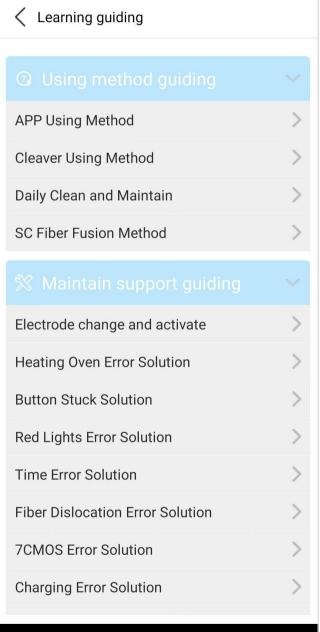


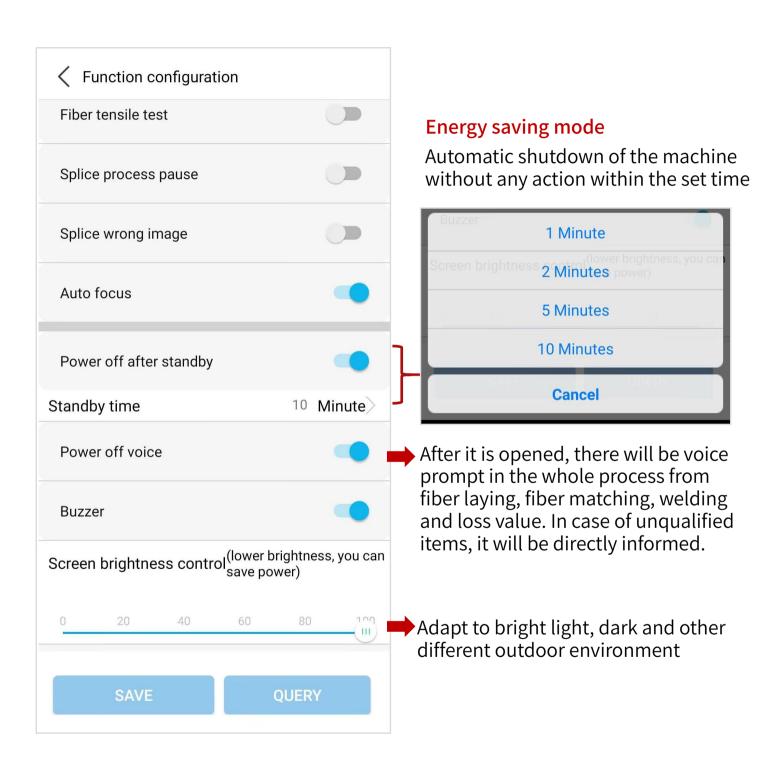
- Welding record can be read through mobile phone, and the data can be exported;
- You can set the parameters of the welding machine, such as selecting the machine language, changing the heating time, selecting the fiber optic alignment mode, etc;
- You can manage the welding machine, such as setting the use time of the machine, welding times, etc;
- Upgrade the phone APP, bluetooth connected to the machine to upgrade the machine software;

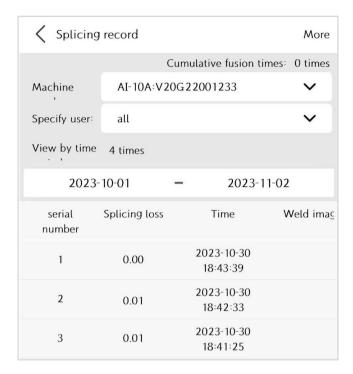
INTELLIGENT INTERACTION, AVOID TEDIOUS

Scan the QR code of the welding machine startup screen to download the Mobile APP The phone connects to the splicer via Bluetooth



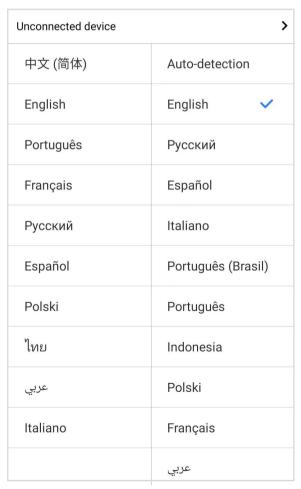




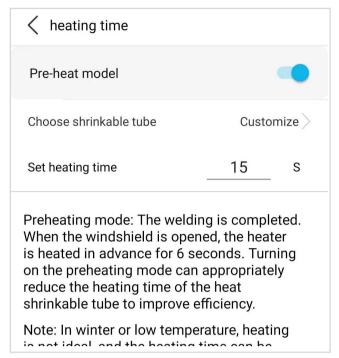


Splicing records can be downloaded and exported

Unlimited storage of splicing records Can be viewed on mobile devices

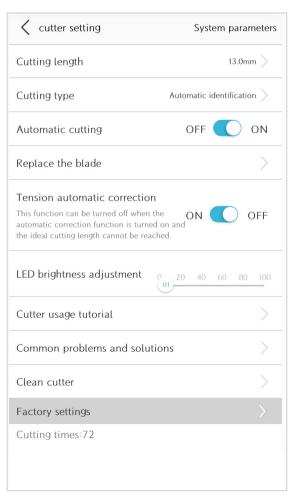


Fusion splicer language/ mobile app selection



Heating time customization

Extreme cold/high temperature can be extended or shortened appropriately



Cleaver Parameter setting /adjustment

SERVICE COMMITMENT

Five 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.









Signal Fire Technology Co., Ltd. is a high-tech joint-stock enterprise specializing in the research and development, production, and sales of communication equipment, with a registered capital of 10 million. It is a national high-tech enterprise. Our main products include fiber optic fusion splicers, electric fiber cleaver, OTDR (Optical Time Domain Reflectometer), and 8-in-1 optical fiber stripper. They are widely used in the construction, maintenance, emergency repair, security monitoring, and research and teaching of optical cable lines in telecommunications, mobile, China Unicom, radio and television operators, post and telecommunications, railway, engineering companies, and public institutions.

The factory is located in Chengdu High tech International Enterprise Port, with a modern production factory and standardized office buildings. We have passed the ISO9001 international quality management system certification, and our products have passed the EU CE, ROHS.International certifications such as FCC in the United States and UKCA in the United Kingdom have been passed by the National Institute of Quality Supervision and Inspection, China Academy of Information and Communications Technology.





The qualified testing of Taier Laboratory has obtained nearly a hundred domestic and international patents at the same time. The "Signal Fire" series products have been sold to over 100 countries and regions including North America, South America, Europe, Africa, and Asia, and have received unanimous praise from customers.







Operator winning bid brand







Telecom installation and maintenance skills competition, Signal fire fusion splicer excellent performance, won the group first prize







Signal Fire Technology Co., Ltd. has passed the ISO9001 international quality management system certification. The product has passed international certifications such as the CE, RoHS, the United States FCC, and UKCA in the United Kingdom, and passed the qualified test through National Quality Supervision Institute, China Xintong Institute, and Tel Laboratory. At the same time, we obtained nearly 100 patents.













Reg. No. 7,197,549 Registered Oct. 17, 2023 Int. Cl.: 7

Trademark Principal Register Signal Fire Technology Co.,Ltd. (CHINA limited company (ltd.)) No.1111,Changsheng Bridge,Hongguang Town Small and Micro Enterprise Innovation Park,Pidu Dist,Chengdu, CHINA 611730

CLASS 7: Cutting machines; Electric are cutting apparatus; Electric are welding apparatus; Electric serisors; Electric shearing machines; Electric welding machines; Electric serisors; Electric serisors;

FIRST USE 6-15-2014; IN COMMERCE 6-15-2014

The mark consists of the stylized wording "Signal fire" with a rainbow bridge above the stylized letters "ignal fi".

SER. NO. 97-339,851, FILED 03-31-2022



Katherine Kelly Vidal

Director of the United States Patent and Trademark Office







Reg. No. 7,197,550 Registered Oct. 17, 2023 Int. Cl.: 8

Trademark Principal Register Signal Fire Technology Co.,Ltd. (CHINA limited company (ltd.)) No.1111,Changsheng Bridge,Hongguang Town Small and Micro Enterprise Innovation Park,Pidu Dist,Chengdu, CHINA 611730

CLASS 8: Nippers; Pliers; Scissors; Blades for manually-operated tools; Hand-operated couting tools; Hand-operated shears; Hand tools, namely, graving tools; Hand tools, namely, scrapers; Hand tools, namely, wire strippers; Multi-tool knives

FIRST USE 6-15-2014; IN COMMERCE 6-15-2014

The mark consists of the stylized wording "Signal fire" with a rainbow bridge above the stylized letters "ional fi".

SER, NO. 97-339.852, FILED 03-31-2022



Kathevine Kelly Vidal Director of the United States Patent and Trademark Office



