

Fiber Splice Machine AI-9

Product Drawing



Product Description

AI-9 is a six-motor, fiber core alignment automatic fiber welding machine, with optical power, red light detection function. Industrial quad-core CPU, fast running speed, 5 seconds fast welding, 15 seconds fast heating, 5 inches high resolution LCD screen, 300 times magnification; The working efficiency is 50% higher than that of ordinary welding machine. Large-capacity lithium battery can be heated by fusion of about 260 cores, high altitude, desert, extremely cold and other harsh environment performance is still outstanding.

Product features

- Adopting the latest core alignment technology, equipped with autofocus and six motors, ensuring the accuracy and stability of fiber optic fusion, low splicing loss, and meeting the needs of high-quality fiber optic transmission.
- Equipped with extremely fast core to core splicing speed, it can complete the fiber fusion process in 5 seconds, with a heating time of only 15 seconds, which is 50% more efficient than traditional fusion splicers.
- Equipped with an intelligent control system, it can automatically identify and adjust welding parameters, simplify the operation process, reduce the difficulty of operation, and enable users to use the equipment more conveniently.
- The device supports multiple fusion modes such as ordinary/high-precision splicing, and can adapt to different types of optical fibers and fusion needs, meeting the fiber fusion needs in different scenarios.

Application

Suitable for fiber optic fusion requirements in fields such as communication, data transmission, and fiber optic networks.

Technical Specifications

Product Parameters

Project	Technical indicators
Product name	Fiber Splice Machine AI-9
Fiber alignment	Core/cladding

Motor number	6 motors
Optical fiber cutting	Automatic cutting, welding machine has its own optical fiber cutting function
Fiber into the slot	Automatic slot, cut optical fiber automatically into the V slot
Windproof cover open/close	The windproof cover closes automatically before welding and opens automatically after welding
Splicing time	5s
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, skin fiber,jumper,invisible fiber fusion
The cladding diameter	80-150 μ m
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, leather cable
VFL	The machine comes with: power: 15mW,2Hz flashing and steady on mode
OPM	Wavelength:850nm;1300nm,1310nm,1490nm,1550nm,1625nm/Measurement range:-70~+6dBm Absolute error:<0.3dB (-50dbm ~+3dBm range)
Battery capacity	7800mAh large capacity lithium battery charging time $\leq$ 3.5; It can continuously weld and heat about 260 cores
Magnification	300 (X or Y), 150 (X or Y)
Fiber diameter	Coating diameter:80-150 μ m/Coating diameter:100-1000 μ m
Cutting length	Coating layer 250 μ m below: 8-16mm/coating layer 250-1000 μ m:16mm
Heat shrink tube	60mm、50mm、40mm、25mm
Tensile testing	Standard 2N
Display	5 inch TFT color display screen
External lighting	USB port can be connected with EXTERNAL LED light, convenient for night construction
Charge mobile device	The USB port can charge mobile devices such as mobile phones
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
Interface	USB2.0(Type A) can be used to connect external LED lights and charge mobile devices
Return loss	Better than 60 db
Product protection	Waterproof, dustproof and fall proof
Power supply	Input AC100-240V 50/60Hz,outputDC13.5V/10A, the current power mode can be identified, real-time monitoring of the current battery level

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