



TFN S7 Six-Motor Fully Automatic Fiber Fusion Splicer



Product Features

1. Six-Motor Fiber Core Alignment System: Designed specifically for long-distance trunk lines (over 100 km), achieving ultra-high-precision splicing.
2. Dual Operation Mode: Supports touchscreen and physical button operation to accommodate different user preferences.
3. Efficient Splicing and Heating: Splicing time as low as 6 seconds, heating time 18 seconds (typical), adjustable from 10 to 900 seconds.
4. High-Capacity Battery Life: 5200mAh lithium battery, supports over 240 splicing and heating operations.
5. High-Definition Display and Observation: 5-inch color LCD, dual cameras, 500x fiber magnification (X/Y/XY mode).
6. Fully Compatible Clamp: The three-in-one clamp supports covered cables, pigtails, and bare fibers, eliminating the need for accessory replacement.
7. Highly Adaptable Design: The triple-proof (rainproof, dustproof, and drop-proof) body is suitable for base station repairs, field operations, and other scenarios.

Core Selling Points (Solving Customer Pain Points)

1. Ultra-Fast, High-Precision Splicing:
The six-motor fiber core alignment system achieves loss as low as 0.01dB and a splicing time of just 6 seconds, enabling robust splicing (even with poorly prepared fibers), meeting the high standards of backbone lines.
2. Flexible Dual Operation Modes:
The touchscreen + physical button design balances traditional operating habits with modern interaction, enhancing the adaptability of engineering teams.
3. Long-Lasting Battery Life and Battery Monitoring:
The 5200mAh large-capacity battery supports over 240 operations, and the real-time battery level display prevents interruptions in field operations.
4. All-Scenario Compatibility:
The three-in-one clamp covers all common fiber types (0.25mm, 3.0mm, and flat cables), reducing tool carrying costs.



5. Professional-Grade Reliability:

Triple-proof design, lifetime technical support, and a three-year warranty ensure long-term, intensive use.

6. Efficient Maintenance and Record-keeping:

Built-in 2,000 splice records, 41 preset modes, and support for high-precision mode (7-second heating) for fast operation.

7. Languages:

The TFN splicer is available in Chinese and English, and other languages can be added upon request. The manual is available in English, Russian, Spanish, and Portuguese.

Technical Parameters

Items	Parameter Details
Average splice loss	SM: 0.02dB / MM: 0.01dB / DS: 0.04dB / NZDS: 0.04dB / G657: 0.02dB
Return loss	>60dB
Splicing time	Standard 7 seconds (SM), 6 seconds in FAST mode
Electrode lifespan	5000 discharges
Applicable fiber types	Compatible with SM/MM/NZDS/G657, 0.25mm-3.0mm optical fiber, and flat indoor cables
Fiber cleavage length	8-16mm
Heater and heat shrink tubing support	40mm/60mm/SOC-3.0/SOC-0.9
Heating time	Typical 18 seconds (adjustable from 10-900 seconds), 7 seconds in high-precision mode
Splicing mode	41 preset modes, 100 custom modes can be stored
Data storage	Internal storage for 2000 recent splice records
Battery capacity and endurance	5200mAh lithium battery, typically 240 splices + heating cycles
Display and observation	5-inch touchscreen, dual cameras, 500x magnification (X/Y/X-Y mode)
Power input	AC 100-240V or DC 9-14V
IP rating	Rainproof, dustproof, shockproof and drop-resistant (rubber protective cover)

Market Demand Integration

With the surge in demand for 5G backbone network expansion, provincial trunk line upgrades, and base station repairs, high-end fusion splicing equipment must simultaneously meet high precision, high efficiency, and high reliability. The S7, with its six-motor fiber core alignment, ultra-low 0.01dB loss, and triple-proof design, precisely targets high-end markets such as trunk line engineering and emergency maintenance. It is suitable for telecom operators, national-level engineering teams, and professional operations and maintenance



companies.

Product Configuration

1. Fiber Splicing Machine Host *1
2. Fiber Cleaver *1
3. Battery of Fiber Splicing Machine *1
4. Fusion Splicing Machine Box *1
5. Electrode Rod *2
6. OPM F1M *1
7. VFL G10 *1
8. CFS3 Fiber Stripper *1
9. Leather Wire Stripper *1
10. Kevlar Scissors *1
11. Wet & Dry Cleaning Sponge *1
12. Screwdriver Set *1
13. Electrode Grinder *1
14. Cleaning Kit *1
15. Cleaning Swabs *1
16. Air Blow *1
17. Mini Alcohol Bottle *1
18. Brush Set *1
19. Heat Shrink Wire Tubing *1 Pack

