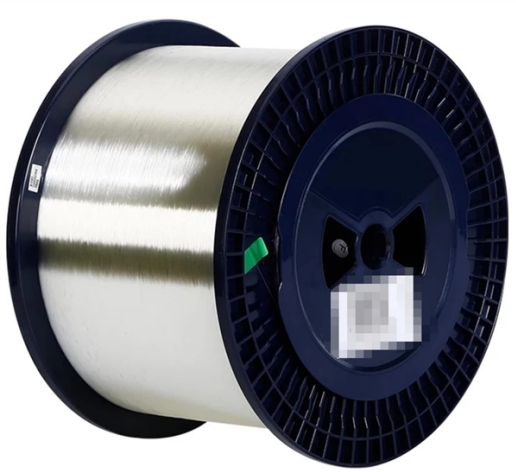
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Ranking of Domestic Optical Cable Fusion Splicers



Overview

10 Best Fiber Optic Fusion Splicers (August 2026) Expert ReviewsA fusion splicer is a precision tool that uses an electric arc to permanently join two opti.

Key Takeaways

Top domestic optical cable fusion splicers in 2026 include Fujikura FSM-90S+, KOMSHINE FX39, and KOMSHINE EX39, recognized for precision, speed, and reliability.Top-Ranked Fusion Splicers
• Fujikura FSM-90S+
• Type: Core alignment

• Splice Loss: Typically under 0.02 dB

• Battery: Long-lasting for field use

• Highlights: High-precision lenses for core alignment, automatic fiber discrimination, consistent performance even with legacy or mixed fiber types, minimal re-burns, ideal for professional backbone installations .

• KOMSHINE FX39 6-Motor
• Type: Core alignment

• Splice Speed: Fast splicing and heating cycles

• Battery: High-capacity lithium battery

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• Highlights: AI-assisted alignment, versatile for single-mode and multi-mode fibers, suitable for high-density FTTH deployments, reliable for continuous splicing operations .

• KOMSHINE EX39 Mini
• Type: Compact core alignment

• Splice Loss: Low-loss performance

• Battery: Portable, suitable for field technicians

• Highlights: Lightweight design, easy to carry for on-site installations, supports multiple fiber types, cost-effective for smaller-scale projects .

• AI-6A Fiber Optical Fusion Splicer
• Splice & Heat Time: 8S splicing, 18S heating

• Battery: 5200 mAh

• Highlights: Automatic FTTH precision, core alignment, suitable for high-power CW/pulsed laser applications, efficient for telecom and data center use .

• AI-9 Fusion Splicing Machine
• Splice & Heat Time: 5S splice, 15S heat

• Features: Transparent heating slot, mobile app connectivity, multi-language interface, built-in power meter and VFL, 3-in-1 fiber holder for single-mode, multi-mode, and bare fibers .

Selection Criteria
• Alignment Technology: Core alignment splicers are preferred for low-loss, high-precision splicing, especially for single-mode fibers.

• Splice Speed & Heating Time: Faster splicing and heating cycles improve field productivity.

• Battery Life: High-capacity batteries are essential for extended field operations.

• Fiber Compatibility: Ability to handle single-mode, multi-mode, ribbon, and specialty fibers.

• Portability: Compact and lightweight models are ideal for on-site FTTH installations.

• Automation & AI Features: Automatic arc adjustment, fiber recognition, and mobile connectivity enhance efficiency and reduce operator error .
Practical Recommendations
• For professional backbone or high-density data center projects, the Fujikura FSM-90S+ is the gold standard.

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• For FTTH or field deployment with moderate budgets, KOMSHINE FX39 or EX39 Mini offer excellent performance and portability.

• For cost-effective, versatile splicing, AI-6A and AI-9 models provide reliable low-loss splicing with modern automation features. These rankings reflect a combination of performance, reliability, battery life, and user feedback, making them the most recommended domestic optical cable fusion splicers in 2026 .

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