

Price list for optical fiber cable hot melt machines

Article Overview

Optical fiber hot melting (fusion splicing) machines range from around \$500 for entry-level models to over \$10,000 for high-end, fully automatic machines.

Price Ranges

- o Entry-Level Machines: Basic clad alignment fusion splicers suitable for small-scale projects or occasional use typically start under \$500 and may include minimal features like manual alignment and basic heating functions .
- o Mid-Range Machines: Core alignment machines with automatic fiber alignment, splice quality testing, and data storage generally cost \$1,500-\$5,000. These are suitable for professional installation and maintenance .
- o High-End Fully Automatic Machines: Advanced models with AI-assisted core alignment, fast splicing (5 seconds per splice), integrated power meters, multi-language support, and long battery life can cost \$6,000-\$12,000 or more . These machines often include features like simultaneous multi-fiber fusion, transparent heating slots, and remote monitoring.

Key Features Affecting Price

- o Alignment Technology: Core alignment machines are more precise and expensive than clad alignment machines .
- o Automation & Functionality: Automatic splicing, built-in power meters, VFL (visual fault locator), and data storage increase cost .
- o Brand & Warranty: Established brands with ISO-certified quality control and longer warranty periods (up to 24 months) charge premium prices .
- o Customization & OEM Options: Some suppliers offer OEM/ODM services, allowing custom designs, which may affect pricing .
- o Delivery & Trade Terms: Prices can vary depending on EXW, FOB, CIF, or CNF shipping terms, and suppliers may offer discounts for bulk orders .

Supplier Examples

- o Alibaba Suppliers: Offer hot melt machines with low minimum order quantities, OEM options, and 1-2 year warranties. Delivery typically takes 3-5 days after deposit .
- o Made-in-China Suppliers: Provide fully automatic fusion splicers with advanced core-to-core alignment, vibration and temperature testing, and 24-month warranty .
- o Amazon & Online Retailers: Offer a range of fusion splicers compatible with single-mode, multi-mode, and specialty fibers, suitable for smaller-scale or DIY projects .

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Conclusion

When selecting a hot melting machine, consider precision (core vs clad alignment), automation, warranty, and supplier reliability. Entry-level machines are cost-effective for occasional use, while high-end fully automatic machines are ideal for professional fiber optic installation and large-scale projects. Prices currently range from \$500 to over \$12,000, depending on features and supplier options .

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