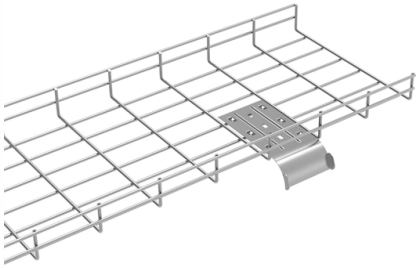
# ZITHA TECH SPECIALTY CABLES (Pty) Ltd

# Latest Fiber Optic Fusion Splicing Equipment



## Overview

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## Key Takeaways

The latest fiber optic fusion splicers for 2026 combine precision core alignment, fast splice times, and smart automation to optimize high-performance network installations.Key Features of Modern Fusion Splicers

Modern fusion splicers are designed to deliver low-loss, high-reliability fiber connections for telecom, FTTH, data centers, and enterprise networks. Key features include:

• Core Alignment Technology: Real-time core alignment ensures minimal splice loss, often as low as 0.02 dB, critical for high-speed data transmission .

• Fast Splice and Heat Times: Most top models achieve splice cycles in 5–8 seconds and heating in 8–10 seconds, enabling rapid deployment in the field .

• Rugged and Portable Designs: Many splicers are built to withstand challenging environments, with lightweight and compact options for fieldwork .

• Smart Features: Automated arc calibration, loss estimation, cloud syncing, and firmware updates enhance precision and reduce downtime .

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• Fiber Format Compatibility: Single-fiber splicers offer precise control for low-count installations, while ribbon splicers can fuse up to 12–16 fibers simultaneously, ideal for high-density projects .

Leading 2026 Models

Some of the top-rated fusion splicers include:

• Fujikura 90S+: Core alignment, 7-second splice, 9-second heat, widely used for both FTTH and enterprise networks .

• COMWAY C10S v2 / C10R: Efficient single and ribbon fiber splicing, fast cycle times, suitable for large-scale deployments .

• Sumitomo Type-82C+: High-performance core alignment, robust for data center and backbone networks .

• TEKCN TC-600 and JETFIBER H5: Designed for professional field use with automated calibration and rugged construction .

• Fujikura 90R: Mass fusion splicer capable of 12- and 16-fiber ribbon splicing, with user-replaceable V-groove assembly for minimal downtime .

Specialized Applications

Advanced splicers also support specialty fibers, including polarization-maintaining (PANDA) fibers, thin or large-diameter fibers, and multi-core fibers, making them suitable for R&D, optical devices, and sensor applications . Bluetooth-enabled splicers allow seamless communication with tools and software for quality monitoring and workflow optimization .

Maintenance and Training

To ensure long-term reliability, regular maintenance is essential, including electrode replacement, blade cleaning, and firmware updates. Many manufacturers, such as Fujikura, provide training programs and after-sales support to help technicians maximize splicer performance and maintain network quality .

Conclusion

Investing in modern fusion splicers enhances network efficiency, reduces downtime, and ensures high-quality fiber connections. Selecting the right splicer depends on project type, fiber format, required speed, portability, and smart features. For large-scale or high-density installations, ribbon splicers like the Fujikura 90R or COMWAY C10R are particularly advantageous, while single-fiber splicers remain ideal for repairs and smaller FTTH deployments .

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