

# Fully Automatic Optical Cable Sheath Stripping

## Article Overview

Fully automatic optical cable sheath stripping machines efficiently remove outer jackets and coatings from single or multi-core optical cables with high precision and speed.

## Overview

Fully automatic optical cable sheath stripping machines are designed to automate the removal of protective coatings, jackets, and Kevlar layers from optical fibers and multi-core cables. These machines eliminate the need for manual stripping, improving precision, consistency, and production efficiency while reducing the risk of fiber damage .

## Key Features

- o Automation and CNC Control: Many machines, such as the AOFC-8030H, use CNC-controlled micro-computerized programs to manage stripping operations for multiple cores simultaneously, ensuring consistent results .
- o Multi-function Capability: Advanced models like the FBT-3000 can perform cable peeling, Kevlar shearing, and outer sheath splitting in a single action, supporting single and duplex optical cables with diameters from 1.8 mm to 3.0 mm .
- o High Production Efficiency: Fully automatic machines can process up to 1200 cores per hour, with adjustable stripping lengths (e.g., 16-65 mm) and Kevlar cutting widths (3-12 mm), making them suitable for high-volume production .
- o Non-contact and Gentle Stripping: Some systems, such as plasma-assisted strippers, remove buffer materials up to 1200 um in diameter without contact, preserving fiber strength and avoiding mechanical stress .
- o Adjustable and Versatile: Machines can handle various fiber coatings (acrylate, silicone, polyimide) and cable types, including single-core, multi-core, and duplex cables, with adjustable parameters for different diameters and jacket thicknesses .
- o User Interface and Monitoring: Modern machines feature touchscreen interfaces, dual-language operation, and production quantity records, allowing precise control and monitoring of stripping operations .

## Applications

- o Telecommunications and Data Networks: Preparing fibers for splicing, connectorization, or high-strength splices.
- o Electronics and Electrical Industries: Stripping multi-core cables for motors, appliances, lamps, and toys .
- o Laboratory and Production Environments: Ensuring consistent fiber preparation for research, testing, and mass production .

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## Advantages

- o Improved Precision: Automated systems maintain consistent stripping lengths and avoid fiber nicking or scratching.
- o Time and Labor Savings: High-speed operation reduces manual labor and increases throughput.
- o Safety and Cleanliness: Non-contact or thermal stripping methods reduce exposure to chemicals and mechanical hazards.
- o Flexibility: Adjustable settings allow processing of different fiber diameters, coatings, and cable types. Fully automatic optical cable sheath stripping machines are essential for high-volume, high-precision fiber optic production, offering a combination of speed, accuracy, and versatility that manual methods cannot match .

Strippers for Coax Cables Types RG.58, RG.59 and RG.62

Buy the high quality and highly efficient fully automatic optical cable stripping

AFL's advanced Stripping, Cleaning, and Fiber Prep Automation solutions for fusion splicing. Our products ensure efficient, precise

Automatic Wire Cutting and Stripping Machine JWD-WS810N is a high

Adjustable slitting depth Longitudinal Fiber Optic Cable Sheath Slitter Cutter KMS-K The KMS-K cable sheath cutter is an ideal tool

The FY-906 is a high-precision automatic machine for cutting and stripping multi-core cables. Featuring a 6

Processing wire range:4-30mm,full automatic stripping and cutting machine for large cable, or stripping

The Jonard JIC-4366 cable sheath stripper and ring tool is ideal for copper cables, tight buffer optical fiber cables, and for slitting

1?This is a fully automatic coaxial wire cutting and stripping machine, mainly used for processing semi

This series of wire stripping machines includes 5 sub-models (see technical parameters for details), which are specially designed for

The MegaStrip 9680 is an automatic cut and strip machine for processing single core wires, multiconductor



# Fully Automatic Optical Cable Sheath Stripping

Semi-automatic fiber-stripping machines enable precise and efficient processing of coated, buffered, and jacketed glass fibers.

It features advanced technology for efficient and accurate operation. With its reliable performance, it saves

This machine is designed for cutting the total length and stripping the outer jacket at one end or both ends

Abstract This paper aims to improve the precision and efficiency of cable sheath and shield layer stripping by integrating multi-sensor

Specializes in fully automatic fixed-length cutting and stripping for single-core wires, multi-core cables, and

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