



Innovators in Wire Processing

FiberOptic 7010
Kevlar Cutting Machine

CUTTING

FiberOptic 7010

Concept / Function

The FiberOptic 7010 Kevlar cutting machine cuts and removes Kevlar fibers from optical fiber wires. Kevlar, used as a strength member, is very hard to cut with common tools, such as scissors. The patented system easily separates and draws the Kevlar into the cutting head, where it is severed. An efficient vacuum system with a micro pore filter disposes of the separated Kevlar, ensuring that no fibers can reach the respiratory organs. The built-in vacuum system separates the Kevlar strands from the fiber optic wire and positions them in the cutting head. A pneumatic initiated stroke of the cutting blade onto the anvil accurately severs the fibers. The number of cutting strokes can be adapted to the thickness of the material.

FiberOptic 7010 as Part of a Processing Line

After cutting the fiber optic cable, the jacket is stripped partially with the UniStrip 2545 and can easily be removed by hand. Severing and disposing of the fibers is done with the FiberOptic 7010. With the FiberStrip 7030 or FiberStrip 7035 stripping machines, the buffer and/or coating is removed in a subsequent step.

Setting up the FiberOptic 7010

- Select the cutting length of the remaining Kevlar fiber by means of the adjustable stop
- Select distance between cutting blade and anvil (depending on the length of the projecting buffered fiber)

Kevlar cutting process

- Insert cable to the stop
- Press foot pedal half way (activates vacuum system)
- Depress foot pedal all the way (activates the cutting process)
- If required, repeat process by pressing foot pedal again
- Upon releasing the foot pedal the vacuum system automatically switches off

Application

Processing of all cables containing a Kevlar strength member.

Technical Specifications

Max. Cable O. D.	4.5 mm (0.18")
Shortest Length of Remaining Kevlar	3 mm (0.12")
Cycle Time	Min. 3 s (depending upon the amount of strokes)
Power Supply	100/115/230 VAC, 50/60 Hz, 1000 VA (vacuum system)
Compressed Air Requirement	0.5 – 0.7 MPa (75 – 105 psi), Consumption: 0.12 l/stroke (0.01 ft ³ /stroke)
Dimensions	Cutting machine: 600 x 75 x 130 mm (23.6" x 3.0" x 5.1") Vacuum system: Ø 200 x 500 mm (Ø 7.87" x 19.69")
Weight	Cutting machine: 3.0 kg (6.6 lbs.) Vacuum system: 6.5 kg (14.4 lbs.)
Content of Delivery	Kevlar cutting machine FiberOptic 7010, foot pedal Option: vacuum system
CE-Conformity	The FiberOptic 7010 fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.
Important Note	Schleuniger recommends that wire samples be submitted in cases where there is doubt as to the processing capabilities of a particular machine.

Sales and Service by:

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To Be Precise.