



AutoCleaver LDA

The AutoCleaver LDA is a high precision fiber cleaver, designed for angle cleaving of large diameter fibers (LDF). It is a special version of the well-known AutoCleaver LDF which provide outstanding cleaving performance for fibers from 230 μm up to 1000 μm in diameter. The unique and patent pending cleaving process generates typical cleave angles of less than 0.5 degrees. The AutoCleaver LDA is capable of cleaving fibers with a coating diameter up to 1000 μm , achieving cleave angles from 0 up to more than 15 degrees with very consistent ± 0.5 degrees cleave angles. The cleave angle is set using a micrometer screw positioner allowing the operator to quickly setup the cleaver for different fiber sizes or cleave angles.

The V-groove clamp block and the fiber height adjuster are selected to match the diameter of the fiber cladding. The V-groove clamp block and the height adjuster work together as a fiber handling kit to ensure optimum cleaving performance for a particular fiber range. These parts have to be selected from the Selection Guide Matrix when you purchase the cleaver. The parts are easily exchanged by the operator to set the cleaver up for a different fiber size.

The built-in microprocessor controls all parameters and settings, such as clamping, tension and the exact position and speed of the diamond blade. This control of sensitive parameters guarantees a high cleaving repeatability and accuracy.

The cleaver is designed to generate a minimum amount of fiber waste, typically less than 20 mm. An automatic waste disposal system removes any hazardous fiber scraps. The cleaver can be connected to a PC that gives access to all programmable parameters and settings. The AutoCleaver LDA comes in a small bench top design.

Features

- Variable angle cleaving, 0 to >15 degrees
- Semi automatic
- Easy handling
- Operator independent
- Designed for production and laboratory environments
- Automatic fiber waste collection
- Long-lasting diamond
- PC controllable

Specifications

PARAMETER	VALUE
Cycle time	Typical < 18 seconds
Cladding diameter	230-800+ μm *
Coating diameter	250-1000 μm
Cleave angle	0 to >15 degrees
Fiber waste length	Typical < 20 mm, automatic disposal
Power supply	External 12 V DC, 15 W
Compressed air supply	External compressor**, 6-8 bar, 4 mm instant push-in fitting
PC Interface	RS-232
Dimensions	175 mm (W) x 138 mm (D) x 104 mm (H)
Weight	2.5 kg

* Fiber specific handling parts required. See the Selection Guide Matrix for more information.

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Ordering Information

DESCRIPTION	AFL NO.
AutoCleaver LDA with Power Supply and Cord Includes: AutoCleaver LDA unit for angle cleaving, PC software, RS-232 cable, Manual and Tools	50100020

* See Fiber Handling matrix below for additional required items.

Selection Guide Matrix for Determining Fiber Handling Kit

DESCRIPTION	LABEL	AFL NO.
V-Groove (Used with all splicer brands) Select size based on fiber cladding diameter		
V-groove, LD, Cladding 200-349 µm	Orange	50100086
V-groove, LD, Cladding 350-699 µm	Green	50100087
V-groove, LD, Cladding 700-1000 µm	Red	50100088
Height Adjuster (Used with all splicer brands) Select size based on fiber cladding diameter		
Height Adj. LD, Cladding 200-349 µm	Orange	50100048
Height Adj. LD, Cladding 350-529 µm	White	50100049
Height Adj. LD, Cladding 530-699 µm	Black	50100050
Height Adj. LD, Cladding 700-1000 µm	Red	50100051

Misc. Accessories

DESCRIPTION	AFL NO.
Diamond blade	50100091
Cleaver Blade Replacement Tool	50000050
Power Supply, 100-240V, 1.25A	50100075
Adapter for Power Supply, US	50100009

