

# AutoClever LDA

Advanced cleaver for angle cleaving applications



The AutoClever LDA is an automatic system for precision cleaving of circular large diameter fibers (LDF). It is a special version of NYFORS' well know large diameter cleaver designed for both perpendicular and angled cleaving of fibers ranging from 230 up to more than 800 µm in diameter.

The cleave angle is set using a micrometer screw positioner allowing the operator to quickly adjust the cleaver for different cleave angles. The patent pending cleaving process produces consistent high quality cleaving results with < 0.5 degree precision. When using the system for non-perpendicular cleaving, variable cleave angles from 0 to < 9 degrees (for 250 µm cladded fibers) and up to more than 15 degrees (for cladding diameters above 450-500 µm) can be created with the same degree of repeatability and accuracy.

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 AutoClever LDA™ comes in a small bench top design.

TECHNICAL DATA	
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, 15W
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

NYFORS part number: 50400000

Included in delivery: AutoClever LDA™ unit for angle cleaving, PC software, RS-232 cable, Manual and Tools.

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


\*\* Depending on fiber cladding diameter. Maximum cleave angle for 250 µm fiber is 9 degrees and 14-15 degrees or more for fiber cladding diameters above 400-500 µm.


\*\*\* Not included in delivery.

## Selection Guide Matrix – AutoCleaver LDA™

Select items depending on fiber cladding diameter.

### ARTICLE

V-Groove	Cladding diameter $\mu\text{m}$	Article number	Article Description	Label
	200-349	51030030	V-Groove, LD, Cla 200-349 $\mu\text{m}$	Orange
	350-699	51030040	V-Groove, LD, Cla 350-699 $\mu\text{m}$	Green
	700-1000	51030050	V-Groove, LD, Cla 700- 000 $\mu\text{m}$	Red

Height Adjuster	Cladding diameter $\mu\text{m}$	Article number	Article Description	Label
	200-349	51040040	Height Adj. LD, Cla 200-349 $\mu\text{m}$	Orange
	350-529	51040050	Height Adj. LD, Cla 350-529 $\mu\text{m}$	White
	530-699	51040060	Height Adj. LD, Cla 530-699 $\mu\text{m}$	Black
	700-1000	51040070	Height Adj. LD, Cla 700-1000 $\mu\text{m}$	Red

Power Supply	Type	Article number	Article Description	
	AutoCleaver Power Supply	50100240	Power Supply, 100-240 V, 15W	

Power Supply Adaptors	Type	Article number	Article Description	
	Adaptor for US	50100241	Adaptor for Power Supply, US	
	Adaptor for EU	50100242	Adaptor for Power Supply, EU	
	Adaptor for UK	50100243	Adaptor for Power Supply, UK	
	Adaptor for AU	50100244	Adaptor for Power Supply, AU	