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AUTOCLEAVER LDF™

Description

This fully automated optical fiber cleaver is designed for fast and flexible large diameter fiber processing in factory and laboratory environments. Easily interchangeable fiber handling parts enable high precision cleaving of different circular fibers in the range from 230 µm up to 1000 µm cladding diameter with industry leading repeatability and consistency.

Loading and operating the AUTOCLEAVER LDF™ is conveniently done in a few simple steps and the automated cleaving process gives a cycle time of less than ten seconds with full operator skill independence. The platform supports fiber holders from the leading splicer manufacturers and the cleaved fiber can directly be transferred to the splicer with no risk of accidentally touching or damaging the bare fiber.

This makes the AUTOCLEAVER LDF[™] ideally suited for demanding production applications where high precision cleaving of the largest fiber diameters is required. It comes in a small ergonomic bench top design and the open interface facilitates integration into automated production systems.

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 an external PC that gives access to all programmable parameters and settings.

Short facts

- Fully automatic
- Low cleaving angles < 0.5 degrees
- Very flat end faces
- Operator independent
- Designed for production and laboratory environments
- Automatic fiber waste collection
- Long-lasting diamond life
- PC controllable

Download product sheet

Automatic fiber cleaving

- ANGLE CLEAVING UNIT™
- AUTOCLEAVER LDA™
- AUTOCLEAVER LDF-M[™]
- AUTOCLEAVER LDF™
- AUTOCLEAVER S1[™]
- AUTOCLEAVER S2[™]
- AUTOCLEAVER™

Technical data

Cladding diameter	230-1000µm*				
Coating diameter	250-1500µm*				
Cleave angle	Typical < 0.5 degrees				
Fiber waste length	Typical < 20mm, automatic disposal				
Power supply**	External 12 V DC, 15 W				
Compressed air	External compressor**, 6-8 bar, 4 mm instant push-				
supply	in fitting				
PC Interface	RS-232				
Dimensions	175 mm (W) x 138 mm (D) x 104 mm (H)				
Weight	2.5 kg				

AutoCleaver LDF cleaving performance

➢"A series of four interferograms showing the typical cleaving performance of the AutoCleaver LDF. From left to right, images of first a perfect cleave with no measureable cleave angle at all, then two very high quality cleaves with cleave angles of 0.10°, and to the right a still quite good cleave with about 0.20° end face angle. The cleave tests were performed with Nufern LMA-GDA-30/400 passive double clad fiber and the images were obtained with a NYFORS CleaveMeter 3D interferometer."

"A series of four interferograms showing the typical cleaving performance of the AutoCleaver LDF. From left to right, images of first a perfect cleave with no measureable cleave angle at all, then two very high quality cleaves with cleave angles of 0.10°, and to the right a still quite good cleave with about 0.20° end face angle. The cleave tests were performed with Nufern LMA-GDA-30/400 passive double clad fiber and the images were obtained with a NYFORS CleaveMeter 3D interferometer."

NYFORS part number: 50100021 Included in delivery: AutoCleaver LDF™ unit, PC software, RS-232 cable, Manual and Tools.* Fiber specific handling parts required. See the Product Sheet for more information. ** Not included in delivery.

Before delivery, each cleaver from NYFORS is carefully optimized and tested to ensure that specifications are met. The above chart summarizes test data for a number of representative AutoCleaver LDF units recently delivered to customers within industry.

For each cleaver, information regarding the minimum, maximum and average cleave angle of the actual delivery test series is presented. Our formal specification of 0.50° is also indicated in the chart. Cleave angles were measured with a NYFORS CleaveMeter 3D phase shifting interferometer. Mean cleave angle recorded for delivered units is 0.13°.

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