

AutoCleaver LDF FUJIKURA EDITION

Advanced cleaver for large diameter fiber



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



The AutoCleaver LDF™ (Fujikura edition) is a high precision fiber cleaver, designed for cleaving of large diameter fibers (LDF). It provides outstanding cleaving performance for large diameter 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 LDF™ (Fujikura edition) is compatible with the Fujikura FSM-45 and FSM-100 series fusion splicers. The fiber is cleaved to the correct length and since the cleaver accepts the standard Fujikura fiber holders, the cleaved fiber can be directly transferred to the splicer with no risk of touching or damaging the fiber end.

During cleaving, the fiber coating is clamped by a touch-operated tension clamp with linear inserts. The inserts are quickly interchangeable to match the diameter of the fiber coating.

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

The built-in microprocessor controls all parameters and settings, such as fiber positioning, 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 AutoCleaver LDF™ (Fujikura edition) also accepts the use of NYFORS LD fiber holders used with the standard AutoCleaver LDF™. In this case the linear inserts are replaced by a distance plate. This provides a versatile use of the cleaver for operations when splicing is not required.

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 LDF™ (Fujikura edition) comes in a small bench top design.

TECHNICAL DATA	
Cycle time	Typical < 14 seconds
Cladding diameter	230-1000 μm*
Coating diameter	250-1500 μm*
Cleaving angle	Typical < 0.5 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: 50100024

Included in delivery: AutoCleaver LDF™ (Fujikura edition) unit, PC software, RS-232 cable, Adaptor plate FJK, Manual and Tools.


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


** Not included in delivery.


Selection Guide Matrix – AutoCleaver LDF™ (Fujikura edition)

A fiber handling kit is required for cleaver operation and should be selected when purchasing the cleaver. Select the v-groove clamp block and the fiber height adjuster to match the fiber cladding. Select the linear inserts to match the fiber coating. When not used with a Fujikura splicer, select distance plate to match the fiber cladding and fiber holder to match the fiber coating.


ARTICLE

V-groove	Cladding diameter (µm)	Article number	Article Description	Label
	200-349	50100086	V-groove, LD, Cla 200-349 µm	Orange
	350-699	50100087	V-groove, LD, Cla 350-699 µm	Green
	700-1000	50100088	V-groove, LD, Cla 700-1000 µm	Red

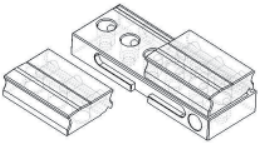
Height Adjuster	Cladding diameter (µm)	Article number	Article Description	Label
	200-349	50100048	Height Adj. LD, Cla 200-349 µm	Orange
	350-529	50100049	Height Adj. LD, Cla 350-529 µm	White
	530-699	50100050	Height Adj. LD, Cla 530-699 µm	Black
	700-1000	50100051	Height Adj. LD, Cla 700-1000 µm	Red

Linear Insert	Coating diameter (µm)	Article number	Article Description	Label
	210-699	50100070	Linear Insert, Coa 210-699 µm	210-699
	700-1000	50100071	Linear Insert, Coa 700-1000 µm	700-1000

Note: Used with splicers from Fujikura. Please note that a Fujikura fiber holder of correct size is also required.

Distance Plate	Cladding diameter (µm)	Article number	Article Description	Label
	200-349	50100034	Distance Pl. LD Cla 200-349 µm	Orange
	350-699	50100035	Distance Pl. LD Cla 350-699 µm	Green
	700-1000	50100036	Distance Pl. LD Cla 700-1000 µm	Red

Note: Used when the Linear Insert is not used. Used with NYFORS LD Fiber Holder.

Fiber Holder LDF	Coating diameter (µm)	Article number	Article Description	Label
	200-299	50100059	Holder, LD, Coa 200-299 µm	250 µm
	300-399	50100060	Holder, LD, Coa 300-399 µm	350 µm
	400-499	50100061	Holder, LD, Coa 400-499 µm	450 µm
	500-599	50100062	Holder, LD, Coa 500-599 µm	550 µm
	600-699	50100063	Holder, LD, Coa 600-699 µm	650 µm
	700-799	50100064	Holder, LD, Coa 700-799 µm	750 µm
	800-899	50100065	Holder, LD, Coa 800-899 µm	850 µm
	900-999	50100066	Holder, LD, Coa 900-999 µm	950 µm
	1000-1099	50100054	Holder, LD, Coa 1000-1099 µm	1050 µm
	1100-1199	50100055	Holder, LD, Coa 1100-1199 µm	1150 µm
	1200-1299	50100056	Holder, LD, Coa 1200-1299 µm	1250 µm
	1300-1399	50100057	Holder, LD, Coa 1300-1399 µm	1350 µm
	1400-1499	50100058	Holder, LD, Coa 1400-1499 µm	1450 µm

Note: Used if the Linear Insert is not used. Used when the cleaver is not used with a Fujikura Splicer.

Power Supply	Type	Article number	Article Description	
	AutoCleaver Power Supply	50100075	Power Supply, 100-240 V, 15W	

Power Supply Adaptors	Type	Article number	Article Description	
	Adaptor for AU	50100006	Adaptor for Power Supply, AU	
	Adaptor for EU	50100007	Adaptor for Power Supply, EU	
	Adaptor for UK	50100008	Adaptor for Power Supply, UK	
	Adaptor for US	50100009	Adaptor for Power Supply, US	