



NYFORS SPLICING PRODUCTS

Recoaters | Cleavers | Fiber Testing

Founded in 1984, AFL is a global leader providing fiber optic products, equipment, and engineering services to the telecommunications, electric utility, wireless, energy, private network and OEM markets. AFL also serves a diverse mix of industry segments that include service providers, military and defense, mining, oil and gas, and biomedical.

AFL brings years of experience in developing solutions for customers, fostering a creative culture to drive and deploy innovative technologies that will improve communications for years to come. Our product line consists of fiber optic cable, transmission and substation accessories, outside plant equipment, connectors, fusion splicers, test equipment and training.

AFL's service portfolio includes market-leading positions with the foremost communications companies supporting inside plant central office, EF&I, outside plant, enterprise and wireless areas.

AFL is dedicated to bringing our customers a quality product as well as delivering superior value.



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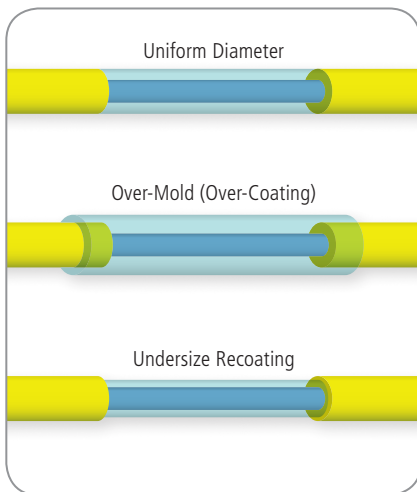
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Dispensing Robot is easily removed from the rear of the AutoCoater for rapid recoat resin exchange



AutoCoater 2™

Designed for high strength applications, the AutoCoater 2 restores the protective coating on spliced acrylate-coated optical fibers. It is fully automatic, allowing for operator skill independence in factory environments with high productivity and cost advantages.

Recoating compound is injected automatically into soft silicone recoating molds identical to those used in NYFORS manual recoaters. These silicone molds are easily & rapidly exchangeable with no realignment required. With different sizes and custom molds available, the operator can not only easily exchange molds to meet requirements for different fiber and fiber coating diameters, but he can also choose whether to (a) recoat to a uniform diameter that exactly matches the original fiber coating diameter, (b) recoat with a cross section slightly smaller in diameter than the original fiber coating (undersize), or (c) recoat with a larger diameter that overlaps the primary coating at each end of the recoat section (over-coating).

With easy and rapid reconfiguration and simple setup, the AutoCoater 2 is the ideal choice for fully automatic skill-independent recoating operations where flexibility is required to meet many different recoating needs and specifications.

Rapid exchange of recoating resin type

The customer selected recoating compound is automatically injected from an easily attached 1 oz Nalgene bottle, functioning as the recoater reservoir tank. This greatly simplifies refilling in high volume production.

This bottle as well as the injection pump, supply lines, and injection needle comprise an easily exchangeable recoating compound "Dispensing Robot". The dispensing robot may be rapidly removed with only 2 screws and one electrical interface connection. Since it can be removed and exchanged as a single unit, the need to purge or cleanse the injection pump and supply lines when changing from one type of recoating resin to another is completely eliminated. Another option when using several compounds in parallel is to operate the recoater in manual mode, using a syringe for manual resin injection of recoating compound into the mold.

The combination of mold sizes and mold types (for uniform and undersize recoating as well as overcoating) and the simplicity of exchanging recoating compounds underscores the flexibility of the soft mold AutoCoater 2 as the most versatile and easily adaptable automatic recoater in the world.

Features

- Consistent, high quality recoating
- Automatic and skill independent
- Short cycle time
- Linear and mandrel strength testing
- Uniform diameter, overcoating and undersize recoating capability
- Easy exchange of recoating resin type
- No need for compressed air or vacuum
- Compatible with all common recoating resins including low-index and high temperature materials



AutoCoater 2™

Other features

Short curing times are achieved through an efficient UV LED array arranged along the length of the mold. Curing times depend on the fiber and fiber coating diameter as well as the properties of the customer-selected recoating resin, but are typically as short as 3 seconds which allows for very fast recoating operations with total cycle times of 15 seconds or less – faster than any competing recoater on the market. Besides standard

High-index materials, low-index recoating compounds can be rapidly cured, typically with a curing time of no more than 30 seconds. High temperature (200°C) acrylate recoating compounds useful for oil and gas down-hole applications are also compatible, as well as stiffer recoat resins suitable for recoating 900 µm jacketed fibers.

Strength tests can be carried out with the linear clamps or mandrels (optional). Linear proof tests can be performed up to 22 N, while the mandrels allow for tensile tests with forces up to 100 N. Level of force, pulling rate and hold times at maximum force are programmable.

The AutoCoater 2 comes in an ergonomic, bench-top design for comfortable operation. The main operator interface is a user-friendly and easy-to-navigate GUI on the touch screen control panel. System software supports storable and user-defined programs for easy process change. Remote monitoring and supervision can be carried out through an Ethernet interface.

Specifications

PARAMETER	VALUE
Curing time	Programmable, 3 s typical
Cycle time	15 seconds typical
Light source	UV LED
Wavelength	380-385 nm
Injection	Automatic from 1 oz bottle
Mold mounting	Exchangeable
Mold length	34 mm and 55 mm
Recoating diameter (µm)	165, 250, 300, 400, 550 and 900 µm
Linear proof test	Programmable, 0-22 N
Mandrel Tensile Test (optional item)	Programmable, 0-100 N
Hold time	Programmable
Pull rate	0.5-20 N/s
Display units	lbs, kg, N, kpsi, GPa
PC connection	Ethernet and USB flash drive
Compressed air	Not needed
Power supply	External 12 V DC, 60 W
Dimensions	270 mm (W) x 210 mm (D) x 115 mm (H)
Weight	4.5 kg

AutoCoater 2™

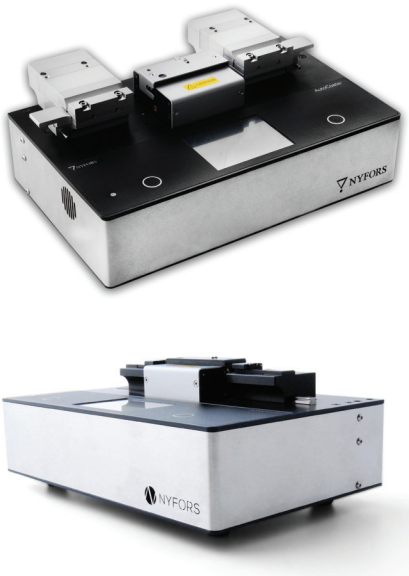
Ordering Information

DESCRIPTION	AFL NO.
AutoCoater 2 w/ Power Supply (incl. US, UK and EU Adapter), Fiber Tensioner-Standard, Packet of 250 µm Molds (34 mm length), Mold Guide Pins, Manual and Tools	10100035

Accessories

DESCRIPTION	AFL NO.
Mold Options	
Mold, ReC 2-series, 165 µm, 34 mm (10 pieces)	10100036
Mold, ReC 2-series, 250 µm, 34 mm (10 pieces)	10100037
Mold, ReC 2-series, 300 µm, 34 mm (10 pieces)	10100038
Mold, ReC 2-series, 400 µm, 34 mm (10 pieces)	10100039
Mold, ReC 2-series, 550 µm, 34 mm (10 pieces)	10100040
Mold, ReC 2-series, 730 µm, 34 mm (10 pieces)	10100078
Mold, ReC 2-series, 900 µm, 34 mm (10 pieces)	10100041
Mold, ReC 2-series, 165 µm, 55 mm (10 pieces)	10100042
Mold, ReC 2-series, 250 µm, 55 mm (10 pieces)	10100043
Mold, ReC 2-series, 300 µm, 55 mm (10 pieces)	10100044
Mold, ReC 2-series, 400 µm, 55 mm (10 pieces)	10100045
Mold, ReC 2-series, 550 µm, 55 mm (10 pieces)	10100046
Mold, ReC 2-series, 730 µm, 55 mm (10 pieces)	10100079
Mold, ReC 2-series, 900 µm, 55 mm (10 pieces)	10100047
Custom molds are available upon request	
Miscellaneous	
Mold Guide Pins	10100070
Fiber Tensioner, 900 µm (left and right)	10100061
Mandrels (Rotary Tensile Test)	10100056
Dispenser Robot	10100069
Power Supply (incl. US, UK and EU Adapter)	90100409





ReCoater 2™

The ReCoater 2 is used to restore the protective coating on acrylate coated optical fibers in high strength applications. Molds are available in different sizes to cover a range of coating diameters and can easily be exchanged by the operator with no realignment required. Custom molds are available upon request.

With standard molds the recoated segment of the fiber is round with a diameter that perfectly and uniformly matches that of the original fiber coating, but the operator can also choose to perform recoatings with a cross section slightly smaller than the original fiber coating (undersize), or recoatings with a larger diameter that overlaps the original fiber coating at each end of the recoat area (overcoating).

This makes the system easy to set up and optimize for such different applications as undersea optical fiber cable assembly and fiber laser manufacturing.

Injection of the recoating compound is performed manually. While this does require a manual user operation, it also ensures flexibility because the user can immediately switch from one type of recoating compound to another (e.g. from a high-index recoating material to a low-index material) without any need to flush out a recoater reservoir and injection pumping system.

Short curing times are achieved through an efficient UV LED array, arranged along the length of the mold. Curing times depend on the fiber and fiber coating diameter as well as the properties of the customer-selected recoating resin, but are typically as short as 3 seconds which allows for very fast recoating operations. The highly efficient light source also makes it possible to cure low-index recoating compounds used in fiber laser manufacturing.

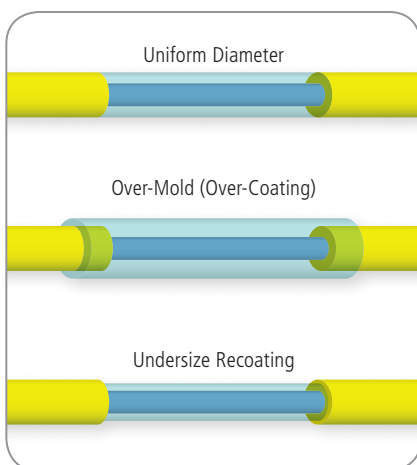
Strength tests can be carried out with linear clamps or mandrels (optional). Linear proof tests can be performed up to 22 N, with programmable levels of force, pulling rates and hold time at maximum force. With the mandrels, tensile tests can be performed with forces up to 100 N. Linear clamps are carefully designed so that the primary coating is not damaged.

The ReCoater 2 comes in an ergonomic, bench-top design for comfortable operation. The main operator interface is an easy-to-navigate and user-friendly GUI on the touch screen control panel. System software supports storable and user-defined programs for easy process change. Remote monitoring and supervision can be carried out through an Ethernet interface.

The ReCoater 2 may easily be upgraded to the AutoCoater 2 configuration by the simple addition of the AutoCoater 2 Dispensing Robot. The dispensing Robot is easily attached to the ReCoater 2, detached, or exchanged in the same way as in the case of the AutoCoater 2.

Features

- Easy mold exchange and replacement
- Handles most fiber dimensions, with custom molds available
- Uniform diameter, overcoating and undersize recoating capability
- Short curing times
- High and low-index recoating
- Linear or mandrel strength testing



ReCoater 2™

Specifications

PARAMETER	VALUE
Curing time	Programmable, 3 seconds typical
Light source	UV LED
Wavelength	380-385 nm
Mold material	Silicone
Mold mounting	Exchangeable
Mold length	34 mm and 55 mm
Recoating diameter (µm)	165, 250, 300, 400, 550 & 900 µm
Linear proof test	Programmable, 0-22 N
Mandrel tensile test (optional item)	Programmable, 0-100 N
Hold time	Programmable
Pulling rate	0.5-20 N/s
Display units	lbs, kg, N, kpsi, GPa
PC connection	Ethernet and USB flash drive connection
Power supply	External 12 V DC, 60 W
Compressed air	Not needed
Dimensions	270 mm (W) x 170 mm (D) x 98 mm (H)
Weight	3.9 kg

Ordering Information

DESCRIPTION	AFL NO.
ReCoater 2 XL w/ Power Supply (incl. US, UK and EU Adapter), Fiber Tensioners, Standard, Packet of 250 µm Molds (34 mm length), Mold Guide Pins, Manual and Tools	10100034

Accessories

DESCRIPTION	AFL NO.
Mold Options	
Mold, ReC 2-series, 165 µm, 34 mm (10 pieces)	10100036
Mold, ReC 2-series, 250 µm, 34 mm (10 pieces)	10100037
Mold, ReC 2-series, 300 µm, 34 mm (10 pieces)	10100038
Mold, ReC 2-series, 400 µm, 34 mm (10 pieces)	10100039
Mold, ReC 2-series, 550 µm, 34 mm (10 pieces)	10100040
Mold, Rec 2-series, 730 µm, 34 mm (10 pieces)	10100078
Mold, ReC 2-series, 900 µm, 34 mm (10 pieces)	10100041
Mold, ReC 2-series, 165 µm, 55 mm (10 pieces)	10100042
Mold, ReC 2-series, 250 µm, 55 mm (10 pieces)	10100043
Mold, ReC 2-series, 300 µm, 55 mm (10 pieces)	10100044
Mold, ReC 2-series, 400 µm, 55 mm (10 pieces)	10100045
Mold, ReC 2-series, 550 µm, 55 mm (10 pieces)	10100046
Mold, Rec 2-series, 730 µm, 55 mm (10 pieces)	10100079
Mold, ReC 2-series, 900 µm, 55 mm (10 pieces)	10100047
Custom molds are available upon request	

DESCRIPTION	AFL NO.
Miscellaneous	
Dispenser Robot	10100069
Mold Guide Pins	10100070
Fiber Tensioner, 900 µm (left and right)	10100061
Mandrels	10100056
Power Supply (incl. US, UK and EU Adapter)	90100409

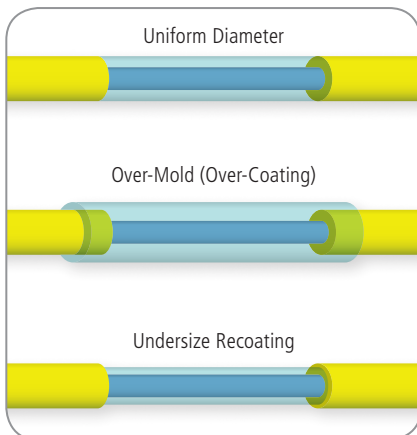




ReCoater 2 XL™ with optional Mandrels attached

Features

- Extended length recoating up to more than 100 mm
- Easy mold exchange and replacement
- Handles most fiber dimensions, with custom molds available
- Uniform diameter, overcoating and undersize recoating capability
- Short curing times
- High and low-index recoating
- Linear or mandrel strength testing



ReCoater 2 XL™

The extended length ReCoater 2 XL is used to restore the protective coating on acrylate-coated optical fibers in high strength applications. Designed to process long sections of stripped fiber, it accepts silicone molds of up to 110 mm length.

Molds are available in different sizes to cover a range of fiber coating diameters and can easily be exchanged with no realignment required. With standard molds the recoated part of the fiber is round with a cross section that perfectly and uniformly matches that of the original coating, but molds can also be selected for both overcoating and undersize recoating of optical fibers. These features as well as the ability to recoat very long stripped fiber sections makes the ReCoater 2 XL ideal for research and development operations and small scale production where the fiber type and length need to be changed frequently.

Injection of the recoating compound is performed manually. While this does require a manual user operation, it also ensures flexibility because the user can immediately switch from one type of recoating compound to another (e.g. from a high-index recoating material to a low-index material) without any need to flush out a recoater reservoir and injection pumping system.

This, in addition to the rapidly exchangeable mold sizes and shapes (for uniform diameter and undersize recoating as well as overcoating), ensures the flexibility and adaptability of the extended length ReCoater 2 XL.

Short curing times are achieved through an efficient UV LED array, arranged along the length of the mold. Curing times depend on the fiber and fiber coating diameter as well as the properties of the customer-selected recoating resin, but are typically as short as 3 seconds which allows for very fast recoating operations. The highly efficient light source also makes it possible to cure low-index recoating compounds used in fiber laser manufacturing.

Strength tests can be carried out with linear clamps or mandrels (optional). Linear proof tests can be performed up to 22 N, with programmable levels of force, pulling rates and hold time at maximum force. With the mandrels, tensile tests can be performed with forces up to 100 N. Linear clamps are carefully designed so that the primary coating is not damaged.

The ReCoater 2 XL comes in an ergonomic, bench-top design for comfortable operation. The main operator interface is an easy-to-navigate and user-friendly GUI on the touch screen control panel. System software supports storable and user-defined programs for easy process change. Remote monitoring and supervision can be carried out through an Ethernet interface.



ReCoater 2 XL™

Specifications

PARAMETER	VALUE
Curing time	Programmable, 3 seconds typical
Light source	UV LED
Wavelength	380-385 nm
Mold material	Silicone
Mold mounting	Exchangeable
Mold length	34 mm, 55 mm and 110 mm
Recoating diameter (µm)	165, 250, 300, 400, 550 & 900 µm
Linear proof test	Programmable, 0-22 N
Rotary tensile test (optional item)	Programmable, 0-100 N
Resolution	0.01 N
Hold time	Programmable
Pulling speed	Programmable
Pulling rate	0.5-20 N/s
Display units	lbs, kg, N, kpsi, GPa
PC connection	Ethernet and USB flash drive connection
Power supply	External 12 V DC, 60 W
Compressed air	Not needed
Dimensions	270 mm (W) x 170 mm (D) x 98 mm (H)
Weight	3.9 kg

Ordering Information

DESCRIPTION	AFL NO.
ReCoater 2 XL w/ Power Supply (incl. US, UK and EU Adapter), Fiber Tensioners, Standard, Packet of 250 µm Molds (110 mm length), Mold Guide Pins (Extended length), Manual and Tools	10100068

Accessories

DESCRIPTION	AFL NO.
Mold Options	
Mold, ReC 2-series, 165 µm, 34 mm (10 pieces)	10100036
Mold, ReC 2-series, 250 µm, 34 mm (10 pieces)	10100037
Mold, ReC 2-series, 300 µm, 34 mm (10 pieces)	10100038
Mold, ReC 2-series, 400 µm, 34 mm (10 pieces)	10100039
Mold, ReC 2-series, 550 µm, 34 mm (10 pieces)	10100040
Mold, Rec 2-series, 730 µm, 34 mm (10 pieces)	10100078
Mold, ReC 2-series, 900 µm, 34 mm (10 pieces)	10100041
Mold, ReC 2-series, 165 µm, 55 mm (10 pieces)	10100042
Mold, ReC 2-series, 250 µm, 55 mm (10 pieces)	10100043
Mold, ReC 2-series, 300 µm, 55 mm (10 pieces)	10100044
Mold, ReC 2-series, 400 µm, 55 mm (10 pieces)	10100045
Mold, ReC 2-series, 550 µm, 55 mm (10 pieces)	10100046
Mold, Rec 2-series, 730 µm, 55 mm (10 pieces)	10100079
Mold, ReC 2-series, 900 µm, 55 mm (10 pieces)	10100047

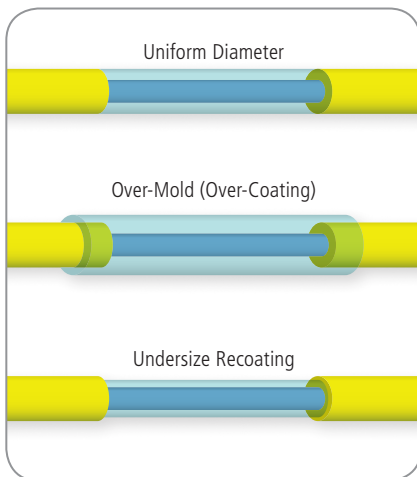
DESCRIPTION	AFL NO.
Mold Options (continued)	
Mold, ReC 2-series, 165 µm, 110 mm (5 pieces)	10100048
Mold, ReC 2-series, 250 µm, 110 mm (5 pieces)	10100049
Mold, ReC 2-series, 300 µm, 110 mm (5 pieces)	10100050
Mold, ReC 2-series, 400 µm, 110 mm (5 pieces)	10100051
Mold, ReC 2-series, 550 µm, 110 mm (5 pieces)	10100052
Mold, Rec 2-series, 730 µm, 110 mm (5 pieces)	10100080
Mold, ReC 2-series, 900 µm, 110 mm (5 pieces)	10100053
Custom molds are available upon request	
Miscellaneous	
Mold Guide Pins (Extended)	10100071
Fiber Tensioner, 900 µm (left and right)	10100061
Mandrels	10100056
Power Supply (incl. US, UK and EU Adapter)	90100409



MiniCoater 2™

This compact and easy-to-use recoater is based on NYFORS proven silicone mold technology which has been developed and refined in the course of the last twenty years. Molds are available in different sizes to cover a range of coating diameters and can easily be exchanged by the operator with no realignment required. Custom molds are available on request.

With the standard molds the recoated part of the fiber is round with a cross section that perfectly and uniformly matches that of the original fiber coating, but molds can also be selected for both over-coating and undersize recoating of optical fibers. These features makes the MiniCoater 2 well suited for research and development operations and small scale production where the fiber type and dimensions need to be changed frequently. The cordless battery operation enables easy movement from lab-to-lab, or from one production area to another.



Injection of the recoating compound is performed manually. While this does require a manual user operation, it also ensures flexibility because the user can immediately switch from one type of recoating compound to another (e.g. from a high-index recoating material to a low-index material) without any need to flush out a recoater reservoir and injection pumping system. This, in addition to the rapidly exchangeable mold sizes and shapes (for uniform diameter and undersize recoating as well as overcoating), ensures the flexibility and adaptability of the MiniCoater 2.

Short curing times are achieved through a highly efficient UV LED array, which also has the ability to cure low-index recoating compounds used in fiber laser manufacturing. In addition, the MiniCoater 2 is compatible with recoating materials that can withstand 200°C high temperature applications such as down-hole applications in oil and gas wells.

The MiniCoater 2 has a simple two button control with a three digit display and comes in a very compact package. The small size and light weight of the MiniCoater 2™ makes it ideal for situations where the recoater must be frequently moved from one lab or production area to another. The small size also facilitates easy ergonomic integration into a production work bench where space is at a premium. In addition, since the MiniCoater 2 may be operated by battery power, and also due to the small size and weight, it is well suited to recoating in a remote field environment where a high degree of portability is required.

Features

- Ideal recoater for remote sites such as on oil rigs
- Very compact design
- Small, lightweight, highly portable
- Runs on built-in rechargeable battery or AC adapter
- Battery provides power for hours of remote-site operation
- Compatible with high-temperature recoating compounds
- Easy mold exchange and replacement
- Handles most fiber dimensions with custom molds available
- Uniform high quality recoating
- Short curing times
- High and low-index recoating
- Uniform diameter, over-coating and undersize recoating capability



MiniCoater 2™

Specifications

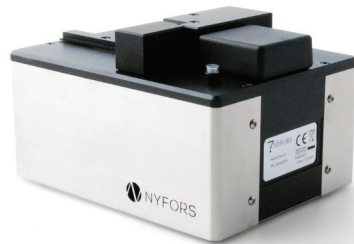
PARAMETER	VALUE
Curing time	Programmable, 3 seconds typical
Light source	UV LED
Wavelength	380-385 nm
Mold material	Silicone
Mold length	34 mm and 55 mm
Recoating diameter (µm)	165, 250, 300, 400, 550 & 900 µm
Power supply	Battery or external 12 V DC, 40 W
Dimensions	150 mm (W) x 77 mm (D) x 60 mm (H)
Weight	0.7 kg

Ordering Information

DESCRIPTION	AFL NO.
MiniCoater 2 w/ Power Supply (incl. US, UK and EU adapter), Fiber Clamps (for 165-330 µm & 330-900 µm), Packet of 250 µm Molds (34 mm length), Mold Guide Pins, Manual and Tools	10100033

Accessories

DESCRIPTION	AFL NO.
Mold Options	
Mold, ReC 2-series, 165 µm, 34 mm (10 pieces)	10100036
Mold, ReC 2-series, 250 µm, 34 mm (10 pieces)	10100037
Mold, ReC 2-series, 300 µm, 34 mm (10 pieces)	10100038
Mold, ReC 2-series, 400 µm, 34 mm (10 pieces)	10100039
Mold, ReC 2-series, 550 µm, 34 mm (10 pieces)	10100040
Mold, Rec 2-series, 730 µm, 34 mm (10 pieces)	10100078
Mold, ReC 2-series, 900 µm, 34 mm (10 pieces)	10100041
Mold, ReC 2-series, 165 µm, 55 mm (10 pieces)	10100042
Mold, ReC 2-series, 250 µm, 55 mm (10 pieces)	10100043
Mold, ReC 2-series, 300 µm, 55 mm (10 pieces)	10100044
Mold, ReC 2-series, 400 µm, 55 mm (10 pieces)	10100045
Mold, ReC 2-series, 550 µm, 55 mm (10 pieces)	10100046
Mold, Rec 2-series, 730 µm, 55 mm (10 pieces)	10100079
Mold, ReC 2-series, 900 µm, 55 mm (10 pieces)	10100047
Custom molds are available upon request	
Miscellaneous	
Mold Guide Pins	10100070
Power Supply (incl. US, UK and EU Adapter)	90100409
FIBER CLAMPS,MINIC 2,165-330 µm	10100074
FIBER CLAMPS,MINIC 2,330-900 µm	10100058



AutoClever

The AutoClever is a fully automatic, ultra high precision fiber cleaver with a typical cleave angle of less than 0.3°. Designed for industrial applications where high accuracy, reliability and production yield are required, the AutoClever has a built-in microprocessor which controls all vital parameters and settings such as fiber positioning, clamping, fiber tension and the exact position and speed of the diamond blade. The cleaver can be connected to an external PC from which all programmable parameters and settings can be accessed.

The AutoClever has a diamond blade with an extensive life, generating typically more than 26,000 cleaves per blade. With interchangeable adapters to fit all commercially available fiber holders, the AutoClever's adapter is easily adjustable for desired cleave lengths and the automatic fiber waste disposal system removes any hazardous fiber scraps.

The AutoClever comes in a small bench top design, workbench-mountable or ready to be integrated into different subsystems.

Features

- Fully automatic
- Low cleave angles of $< 0.3^\circ$
- Very flat end faces
- Designed for production environment
- Waste fiber deposition
- Long diamond life of $> 26,000$
- PC controllable

Specifications

PARAMETER	VALUE
Fiber Cladding	80-230 μm^*
Fiber Coating	160 - 900 μm^*
Cleave Angle	Typical $< 0.3^\circ$
Cycle Time	Typical < 12 sec
# of Cleaves/Blade	$> 30,000$
Fiber Waste	Typical < 20 mm
Power Supply	External 12V DC
Compressed Air	External Compressor**, 6 bar, 4 mm instant push-in fitting
PC Connection	RS-232
Dimensions	175 mm (W) x 138 mm (D) x 104 mm (H)
Weight	1.4 kg

* Fiber specific handling kits required

** Not included in delivery

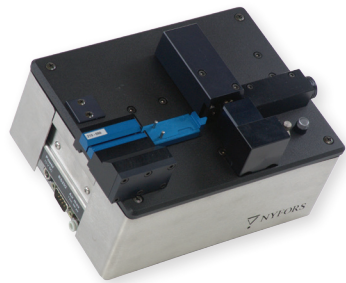
Ordering Information

DESCRIPTION	AFL NO.
AutoClever with Power Supply and Cord (Includes: V-groove and Height Adjuster for 125 μm fiber, PC software, RS-232 cable, Adapter Plate FJK, AC STD, manual and tools)	50100014

Accessories

DESCRIPTION	AFL NO.
Adaptor Plate FJK, AC STD	50100010
V-groove, STD, Cla 80 μm (Blue)	50100089
V-groove, STD, Cla 125-199 μm (Yellow)	50100085
V-groove, STD, Cla 200-349 μm (Orange)	50100086
Height Adjuster STD, Cla 80 μm (Blue)	50100052
Height Adjuster STD, Cla 125-159 μm (Yellow)	50100046
Height Adjuster STD, Cla 160-199 μm (Blank/Grey)	50100047
Height Adjuster STD, Cla 200-349 μm (Orange)	50100048
Diamond blade	50100091
Cleaver Blade Replacement Tool	50100032
Power Supply, 100-240V, 1.25A	50100075
Adapter for Power Supply, US	50100009





AutoCleaver LDF

The AutoCleaver LDF is a high precision fiber cleaver, designed for cleaving of Large Diameter Fibers. It provides outstanding cleaving performance for large diameter fibers from 250 μm up to 1200 μm in diameter. It also supports cleaving of fibers as small as 125 μm . The unique and patent-pending cleaving process generates typical cleave angles of less than 0.5 degrees with LDF fibers.

The AutoCleaver LDF can be configured for use with the Fujikura FSM-45 series of fusion splicers and therefore supports splicing operations with large diameter fibers. The cleaved fiber is transferred from the cleaver to the Fujikura splicer using a standard Fujikura fiber holder. The built in Microprocessor controls all vital parameters and settings, such as fiber alignment, clamping, tension and the exact position and speed of the diamond blade. This control of sensitive parameters guarantees a high cleaving repeatability and accuracy. During cleaving, the fiber coating is clamped by a touch-operated tension clamp. The clamp is quickly interchangeable based on the fiber coating diameter. A v-groove clamping block and a fiber height adjuster are selected based upon the diameter of the fiber cladding. The fiber coating tension clamp as well as the V-groove clamp block and height adjuster work together as a fiber handling kit to ensure optimum cleaving performance for a particular fiber. These parts may be selected at the time of cleaver purchase from the selection guide matrix. Other sets are easily exchanged by the operator to set the cleaver up for another fiber size.

The AutoCleaver LDF also accepts the use of NYFORS fiber holders in place of the tension clamps normally used for coating clamping. This provides versatile use of the cleaver for operations when splicing is not required. The cleaver is designed to generate minimum amounts 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.

The AutoCleaver LDF comes in a small bench top design. It has been designed to easily permit recessed mounting for ergonomic workbench operations in a production environment and is therefore ready to be integrated into different subsystems.

Features

- Fully automatic
- Low cleave angles: $< 0.50^\circ$
- Very flat end faces
- Operator independent
- Designed for production and laboratory environments
- Automatic scrap fiber collection
- Long diamond life
- PC controllable
- Adaptable for fiber holders of the Fujikura FSM-45F-LDF and FSM-45PM-LDF fusion splicer

Specifications

PARAMETER	VALUE
Fiber Cladding	250 - 1000 μm *
Fiber Coating	300 - 1500 μm *
Cycle Time	Typical < 14 seconds
Cleave Angle	Typical $< 0.5^\circ$
Cladding Diameter	230 - 1000 μm
Coating Diameter	250 - 1500 μm
Fiber Waste	Typical < 20 mm
Power Supply	External 12V DC
Compressed Air	External Compressor**, 6 bar 4 mm instant push-in fitting
PC Connection	RS-232
Dimensions	175 mm (W) x 138 mm (D) x 104 mm (H)
Weight	2.5 kg

* Fiber specific handling kits required

** Not included in delivery



AutoCleaver LDF

Ordering Information

DESCRIPTION	AFL NO.
AutoCleaver LDF with Power Supply and Cord Includes: Adaptor Plate FJK, PC software, RS-232 cable, manual and tools	50100023
Nyfors AutoCleaver LDF w/Universal Stage Includes: Long Rail, Power Supply & Cord Adaptor Plate FJK, PC software, RS-232 cable, manual and tools	S015274

* See Fiber Handling matrix below for additional required items.

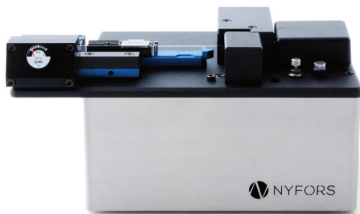
Selection Guide Matrix for Determining Fiber Handling Kit

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
Linear Insert (Used only with Fujikura splicers) Select size based on fiber coating diameter		
Linear Insert, Coating 210-699 µm	210-699	50100070
Linear Insert, Coating 700-1000 µm	700-1000	50100071

Misc. Accessories

DESCRIPTION	AFL NO.
Diamond blade	50100091
Cleaver Blade Replacement Tool	50100032
Power Supply, 100-240V, 1.25A	50100075
Adapter for Power Supply, US	50100009
Universal Stage NFF FH Base	S014770





Features

- Fully automatic
- Low cleaving angles < 0.3 degrees
- Very flat end faces
- Operator independent
- Designed for production and laboratory environments
- Automatic fiber waste collection
- Long-lasting diamond life
- PC controllable

AutoCleaver LDF-M™

The AutoCleaver LDF-M is a high precision fiber cleaver designed for cleaving of standard to large diameter fibers (LDF) in production and laboratory environments. It provides outstanding cleaving performance on fibers with cladding diameters from 80 µm up to more than 600 µm. A unique and patent pending cleaving process generates typical cleave angles below 0.3 degrees with smooth, high quality end faces, free from surface defects such as hackles, mist and chips. Easily exchanged fiber handling accessories ensures optimum cleaving performance for particular fiber dimensions.

The built-in microprocessor controls all parameters and settings such as clamping, tension and the exact position and speed of the diamond blade. The close control of sensitive parameters guarantees a high cleaving repeatability and accuracy. This, in combination with the high degree of automation, makes the AutoCleaver LDF-M ideally suited for volume production applications where speed and consistency of results are required. It features a long lasting diamond blade and can be used with fiber holders from the major splicer manufacturers.

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. The AutoCleaver LDF-M comes in a small bench top design.

Specifications

PARAMETER	VALUE
Cleave Angle	Typical < 0.3°
Cladding Diameter	80 - 600 µm
Coating Diameter	160 - 1500 µm
Fiber Waste Length	Typical < 20 mm, automatic disposal
Power Supply	External 12 V DC, 15 W
Compressed Air	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

Ordering Information

DESCRIPTION	AFL NO.
AutoCleaver LDF with Power Supply and Cord	50100110



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.

AutoCleaver LDA

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.

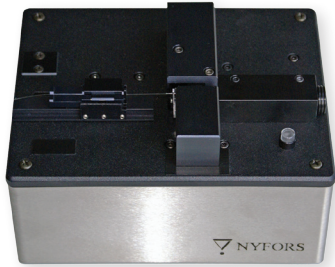
Selection Guide Matrix for Determining Fiber Handling Kit

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





AutoCleaver S1-80 μm / S1-125 μm

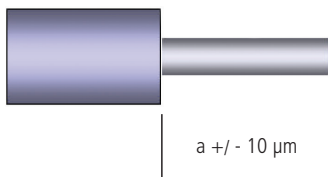
When a specific and accurate bare fiber length is required, the AutoCleaver S1 provides the perfect cleave every time. Sensing the edge of the coating and adjusting the bare fiber length according to the customers' specifications, the AutoCleaver S1 cleaves 80 μm and 125 μm fibers automatically. Cleave angles are typically under 0.3° with excellent end face quality.

A built-in microprocessor controls all the vital parameters and settings such as fiber positioning, clamping, fiber tension and the exact position and speed of the diamond blade. The cleaver can be connected to an external PC, enabling access to all programmable parameters and settings.

The AutoCleaver S1 is available in a small bench top design, workbench-mountable or ready to be integrated into different sub-systems. At the time of order, the desired cleave length must be specified. The minimum cleave length possible is 3 mm and the maximum is 6.5 mm. The bare fiber length can be fine-tuned by software between 0 and 500 μm .

Features

- Fully automatic
- Low cleave angles of $< 0.3^\circ$
- Very flat end faces
- Operator independent
- Designed for production environment
- Waste fiber deposition
- Long diamond life
- Available for 80 or 125 μm fibers
- PC controllable



Specifications

PARAMETER	VALUE
Fiber Cladding	80 - 125 μm^*
Fiber Coating	160 - 400 μm^*
Cleave Angle	Typical $< 0.3^\circ$
Cycle Time	Typical < 14 seconds
Cladding diameter	80 and 125 μm
# of Cleave/Blade	$> 30,000$
Fiber Waste	Typical < 20 mm
Power Supply	External 12V DC
Compressed Air	External Compressor**, 6 bar 4 mm instant push-in fitting
PC connection	RS-232
Dimensions	175 mm (W) x 138 mm (D) x 104 mm (H)
Weight	1.4 kg

* Fiber specific handling kits required

** Not included in delivery

Ordering Information

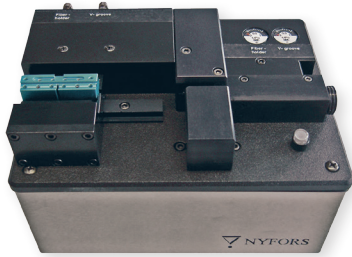
DESCRIPTION	AFL NO.
AutoCleaver S1-80 μm with Power Supply and Cord (Includes: V-groove & Height Adjuster, Adaptor Plate, PC software, manual and tools)	50100029
AutoCleaver S1-125 μm with Power Supply and Cord (Includes: V-groove & Height Adjuster, Adaptor Plate, PC software, manual and tools)	50100028

Accessories

DESCRIPTION	AFL NO.
Adaptor Plate FJK, AC STD	50100010
Adaptor Plate NYF/ECA, AC STD	50000030
V-groove, STD, Cla. 80 μm	50100089
V-groove, STD, Cla. 125-199 μm	50100085
Height Adj. STD, Cla. 80 μm	50100052
Height Adj. STD Cla. 125-159 μm	50100046
Diamond blade	50100091
Cleaver Blade Replacement Tool	50100032
Power Supply, 100-240V, 1.25 A	50100075
Adapter for Power Supply, US	50100009

AutoCleaver S2

The AutoCleaver S2 contains special fiber clamps with air pressure-controlled clamping forces, designed for cleaving air-clad fiber. Coupled with modified software, these features enable the AutoCleaver S2 to handle otherwise difficult-to-cleave fibers. The clamping force of the fiber clamps is set individually by changing the air pressure.



Ordering Information

DESCRIPTION	AFL NO.
AutoCleaver S2 - Small Cylinder/FJK Includes: 12 mm v-groove clamping cylinder, FJK Fiber Holder Adapter LDF, RS-232 cable, PC software, tools and manuals	50100030
AutoCleaver S2 - Large Cylinder/FJK Includes: 20 mm v-groove clamping cylinder, FJK Fiber Holder Adapter LDF, RS-232 cable, PC software, tools and manuals	50100092

Features

- Fully automatic
- Low cleave angles of < 0.5°
- Very flat end faces
- Operator independent
- Automatic fiber waste collection
- Long-lasting diamond
- PC controllable

Specifications

PARAMETER	VALUE
Fiber Cladding	125 - 1000 μm*
Fiber Coating	250 - 1500 μm*
Cycle Time	Typical < 14 seconds
Cleave Angle	Typical < 0.5°
Fiber Waste	Typical < 20 mm
Power Supply	External 12V DC
Compressed Air	4mm instant push-in fitting
PC Connection	RS-232
Dimensions	175 mm(W) x 138 mm(D) x 104 mm(H)
Weight	2.5 kg

* Fiber specific handling kits required

Accessories

DESCRIPTION	LABEL	AFL NO.
V-groove, STD, Cladding 125-199 μm	Yellow	51030020
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 LD, Cladding 200-349 μm	Orange	50100048
Height Adjuster LD, Cladding 350-529 μm	White	50100049
Height Adjuster LD, Cladding 530-699 μm	Black	50100050
Height Adjuster LD, Cladding 700-1000 μm	Red	50100051
Holder, LD, Coating 200-299 μm	250 μm	50100059
Holder, LD, Coating 300-399 μm	350 μm	50100060
Holder, LD, Coating 400-499 μm	450 μm	50100061
Holder, LD, Coating 500-599 μm	550 μm	50100062
Holder, LD, Coating 600-699 μm	650 μm	50100063
Holder, LD, Coating 700-799 μm	750 μm	50100064
Holder, LD, Coating 800-899 μm	850 μm	50100065
Holder, LD, Coating 900-999 μm	950 μm	50100066
Holder, LD, Coating 1000-1099 μm	1050 μm	50100054
Holder, LD, Coating 1100-1199 μm	1150 μm	50100055
Holder, LD, Coating 1200-1299 μm	1250 μm	50100056
Holder, LD, Coating 1300-1399 μm	1350 μm	50100057
Holder, LD, Coating 1400-1499 μm	1450 μm	50100058
Distance Plate LD Cladding 200-349 μm	Orange	50100034
Distance Plate LD Cladding 350-699 μm	Green	50100035
Distance Plate LD Cladding 700-1000 μm	Red	50100036
Diamond blade	—	50100091
Cleaver Blade Replacement Tool	—	50100032
Power Supply, 100-240 V, 1.25 A	—	50100075
Adapter for Power Supply, US	—	50100009





Features

- Fully automatic, easy to operate
- Two basic configurations—linear or rotary tensile testing
- Adjustable clamp positioning
- No need for external air supply or vacuum
- Built-in LCD touch screen control

ProofTester 2

This automatic optical fiber tensile testing system is designed for operator skill independent use in production and laboratory settings. Two basic model configurations allow the user to choose between a set up for standard linear proof testing and with additional mandrels for rotary high strength testing.

The linear version is designed for production proof testing with forces up to 22 N. Motorized clamps with carefully designed rubber inserts ensure that the fiber coating is not damaged in the testing process while at the same time eliminating the need for an external air supply. Levels of pulling force, pulling speed and hold time are programmable and conveniently accessible to the operator through the built-in LCD touch screen control. Data from tests can be saved and accessed via the USB port or Ethernet interface.

Mandrels of the same design as in NYFORS' optical fiber recoaters can easily be mounted on the proof tester in the rotary high strength configuration. The fiber is wrapped around the two mandrels which support it with a special clamping mechanism. This way much higher loads can be applied onto the fiber, enabling breaking strength tests under controlled circumstances.

Adjustable clamp positioning facilitates testing with the highest force levels as well as testing of short fiber lengths.

The compact and light weight design makes the instrument easy to move around in a laboratory environment and to integrate in a production work bench where space is at a premium.

Specifications

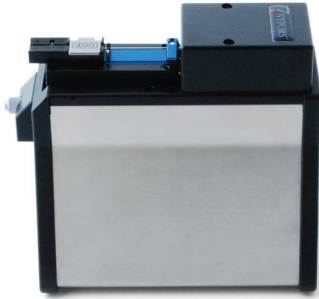
PARAMETER	VALUE
Fiber cladding	165-900 µm
Linear proof test	Programmable 0-20 N
Mandrel proof test	Programmable 0-100 N
Hold time	Programmable
Pull rate	0.5-20 N/s
Power supply	External 12 V DC, 60 W
PC connection	Ethernet and USB Flash drive
Dimensions	270 mm (W) x 170 mm x 105 mm (H)
Weight	3.8 kg

Ordering Information

DESCRIPTION	AFL NO.
ProofTester 2 (Includes: PC software, RS-232 cable, power supply, power adapter, manual and tools)	10100067



CleaveMeter 2™

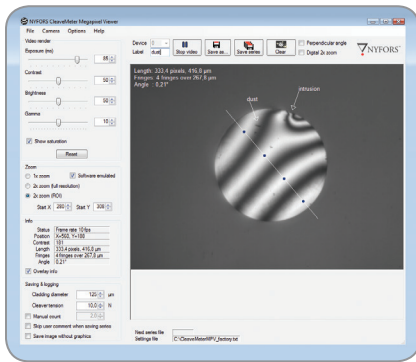


The CleaveMeter 2 is a non-contact interferometer designed for inspecting the end-faces of cleaved and polished optical fibers with cladding diameters of 125 µm to 1200 µm. It gives immediate information on important end-face properties such as flatness, perpendicularity, hackles and dust. Sampling tests as well as continuous process documentation can be carried out both easily and quickly, making this an ideal instrument for cleaver inspection and optimization.

The optical system is based on a high-end camera with true megapixel resolution and very high sensitivity, yielding excellent image quality at high frame rates and high magnification. Switching between low and high magnification is software-controlled. High-precision optics guarantees sharp and clear images and fringe patterns with very little aberration.

The CleaveMeter 2 comes with user friendly and efficient software available in two different versions – standard and premium. Standard software features include cleave angle measurements with in-picture presentation of results, user-defined markers at points of interest, pseudo-color mode for better contrast and the ability to log information, save and load images to and from files. The premium software package includes support for measurement of plane angles and fiber diameters as well as compensation for adapter plate angle error for increased accuracy.

The CleaveMeter 2 comes in a small ergonomic, bench-top design and connects to the USB port of a PC running the host application.



Features

- Sharp fringe patterns
- Flat and angled cleave measurements
- Operator skill independent for fast operation
- Accepts fibers with claddings from 125 µm up to 1200 µm
- Accepts fiber holders of major splicer manufacturers
- Adapter plate angle error measurement and compensation (Premium software)
- Plane angle and three-point fiber diameter measurement (Premium software)

Specifications

PARAMETER	VALUE
Fiber Cladding	125–1200 µm*
Fiber Coating	250–1500 µm
Camera Resolution:	1280 × 1024 pixels
Image Scale:	1.25 µm per pixel
Image file format	8-bit JPEG, PNG, TIFF, BMP
Absolute Accuracy	0.15 degree (standard version), 0.03 degree (premium version)**
Relative Accuracy	20 % (125-199 µm)
Relative Accuracy	10 % (200-529 µm)
Relative Accuracy	5 % (530-1200 µm)
PC Connection:	USB 2.0 port
Power Supply:	Through USB port
Dimensions	97 mm (W) × 179 mm (D) × 142 mm (H)
Weight	1.6kg

* Fiber specific adapter plates required

** This level of accuracy requires adapter plate angle errors to be measured/compensated on the individual CleaveMeters they are used with (Premium software only).

CleaveMeter 2™

Ordering Information

DESCRIPTION	AFL NO.
CleaveMeter 2 Standard Includes: Standard PC Software, USB Cable, Manual & Tools (Adapter Plate purchased separately - see below)	30100012
CleaveMeter 2 Premium Includes: Premium PC Software, USB Cable, Manual & Tools (Adapter Plate purchased separately - see below)	30100011

Accessories

DESCRIPTION	AFL NO.
Adapter plate, FJK, 115-210 µm	30100001
Adapter plate, FJK, 200-529 µm	30100002
Adapter plate, FJK, 510-800 µm	30100003
Adapter plate, FJK, 800-1200 µm	30100004
Adapter plate, NYFORS, Custom	30100007
Angle adapter plate, 15 degrees	30100008
Angle adapter plate, 8 degrees	30100009
Angle adapter plate, Custom	30100010

Fiber specific adapter plates are required to clamp and align the fiber to the interferometer optics. They are not included in delivery and should be ordered separately.

Select Adapter Plate to match fiber cladding diameter and Angle Adapter Plate (optional) to match the fiber tilt angle.





CleaveMeter 3D™

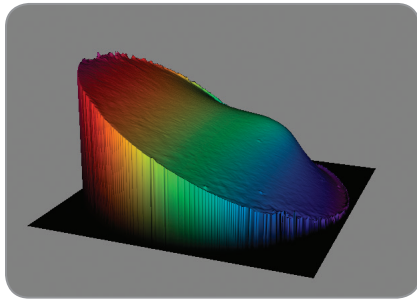
The CleaveMeter 3D is a phase-shifting Michelson interferometer for non-contact end-face inspection of cleaved and polished optical fibers with cladding diameters up to 1200 μm . Designed for both production and research applications, this comprehensive fiber optic testing system combines full resolution, three-dimensional surface topography reconstruction and mapping with automated, operator independent measurements of cleave angle and surface flatness in a small, lightweight bench-top unit.

When used in the 3D-mode, the surface topography is reconstructed from the fringe pattern and presented graphically as a three-dimensional image of the fiber end. By rotating the image and adjusting the scale and contrast, the surface quality and cleave angle at different points can be analyzed in close detail, allowing for a more comprehensive understanding and accurate interpretation of the data and the cleaving process. While this capability is always important to cleave quality analysis, it can be even especially helpful when analyzing cleaving of fibers with complicated structures such as polarization maintaining fibers, or micro-structured fibers. Information on surface topography can also be saved to a file for further analysis using third party software.

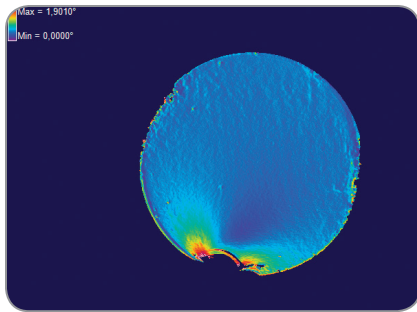
Extremely accurate measurements of both cleave angle and surface flatness over arbitrary diameters can be performed on the reconstructed end-face surface. These measurements are carried out automatically, with full operator independence. This makes the system well suited not only for detailed cleave quality analysis in laboratory environments, but also for close production monitoring where software features such as optional pass/fail indication of cleave angle help ensure that consistent cleave quality is maintained over long periods of continuous cleaver operation.

In addition to cleave angle measurements, the system can also be used to measure a number of other properties such as plane angles, fiber diameters and the distance between different points. The software allows the user to view the point-wise slope across the whole fiber end-face, a very useful tool for spotting small scale irregularities and crack propagation behavior.

Adapter plates are available for both perpendicular and angled cleave analysis. The mechanical design is compatible with all NYFORS automatic fiber cleavers and accepts the fiber holders used with those machines as well as those of major splicer manufacturers. Custom made Adapter plates are available upon request. The CleaveMeter 3D comes in a small, ergonomic bench-top design and connects to the USB port of a PC running the host application.



Reconstructed end-face surface of a cleaved 400 μm fiber (center cleave angle about 0.16°), with height scaled three hundred times to bring out surface irregularities and facilitate easier cleave quality analysis.



Detail of above image, showing a dust particle or other surface contamination with a height of about 15 nm – illustrating the level of detail and sensitivity of the measurements.

Features

- Full resolution surface reconstruction
- 2D view of surface topography and pointwise slope
- 3D view of surface topography with camera and lighting control
- Extremely accurate, operator independent measurements of cleave angle and surface flatness over arbitrary diameters
- Optional pass/fail indication of cleave angle for fast operation in production environments



CleaveMeter 3D™

Specifications

PARAMETER	VALUE
Fiber Cladding	125–1200 µm*
Fiber Coating	250–1500 µm
Camera Resolution	1280 × 1024 pixels
Image Scale	1.25 µm per pixel
Image File Format	8-bit JPEG, PNG, TIFF, BMP / 24-bit BMP for surface topography
PC Connection	USB 2.0 port
Power Supply	Through USB port
Dimensions	97 mm (W) × 179 mm (D) × 142 mm (H)
Weight	1.6 kg
Absolute accuracy**	0.01° standard deviation
Relative accuracy	5 %

*Fiber-specific adapter plates required.

** This level of accuracy requires the adapter plate angle error to be measured and compensated for on each individual CleaveMeter™ the holder is used with. For more information about system accuracy, please contact us at info@nyfors.com.

Ordering Information

DESCRIPTION	AFL NO.
CleaveMeter 3D includes: PC Software, USB Cable, Manual and Tools	30100013

Accessories

DESCRIPTION	AFL NO.
Adapter Plates	
Adapter Plate, FJK, 115-210 µm	30100001
Adapter Plate, FJK, 200-529 µm	30100002
Adapter Plate, FJK, 510-800 µm	30100003
Adapter Plate, FJK, 800-1200 µm	30100004
Adapter Plate, NYFORS, Custom	30100007
Angle Adapter Plate, 15 degrees	30100008
Angle Adapter Plate, 8 degrees	30100009
Angle Adapter Plate, Custom	30100010

Fiber specific adapter plates are required to clamp and align the fiber to the interferometer optics. They are not included in delivery and should be ordered separately.

Select Adapter Plate to match fiber cladding diameter and Angle Adapter Plate (optional) to match the fiber tilt angle.



Please contact your AFL Sales Representative for information about our other products or services.

**FIBER OPTIC CABLE
(OPGW, ADSS, Loose Tube)**



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EQUIPMENT**



**FUSION SPLICING
SYSTEMS AND ACCESSORIES**



**FIBER OUTSIDE PLANT
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