NYFORS TEKNOLOGI AB
PRODUCT CATALOGUE
NYFORS is an innovative supplier of advanced glass processing and optical fiber preparation equipment for high strength and specialty splicing operations.

All NYFORS products are developed with the user in mind for comfortable and easy operation in production and laboratory environments. A feature found in many products, is the automated fiber processing, intended to give consistent results and high production yield in volume production of optical fiber components.

The product portfolio is continuously expanded to cover wider and more challenging customer applications. It currently includes: CO$_2$ laser splicing and glass shaping equipment, automatic systems for fiber preparation and window stripping, high precision cleavers and optical fiber recoaters as well as proof testers and cleave check interferometers. NYFORS also provides custom solutions for production applications such as volume manufacturing of fiber optical gyroscopes.
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AUTOMATIC FIBER PREPARATION

Stripping and fiber preparation systems that remove acrylate coatings and eliminates fiber residue while preserving fiber strength and integrity through a completely automatic process.
AUTOPREP
Designed for industrial applications, the automated high-speed fiber preparation unit AUTOPREP strips, cleans and cleaves a fiber in less than 15 seconds.

AUTOSTRIPPER
The AUTOSTRIPPER is designed for fast, clean and chemical free window stripping of fibers with acrylate coating diameters up to 550 micrometer.

FOR MORE INFO: WWW.NYFORS.COM
AUTOMATIC & PORTABLE FIBER CLEAVING

The AUTOCLEAVER series is a comprehensive product platform with various models for cleaving standard and LD optical fibers, all based on our proven and patented tension and scribe cleaving process.
AUTOMATIC & PORTABLE FIBER CLEAVING

AUTOCLEAVER LDF-M™
Advanced cleaver for standard and large diameter fibers with cladding diameters between 80 and 600 micrometer. Consistent cleaving results with typical end face angles below 0.3 degrees. Dual fiber holder positions for FSM-100 series splicers.

AUTOCLEAVER™
Fully automatic, ultra high-precision fiber cleaver with a typical cleave angle of less than 0.3 degrees. Designed for industrial applications where reliability and a high production yield are required. Open interface for integration into automated production systems.

AUTOCLEAVER LDF™
Precision cleaver for large diameter and specialty optical fibers. Suitable for laboratory and manufacturing environments. Produces typical cleave angles of less than 0.5 degrees on fiber from 230 up to 1000 micrometer in cladding diameter.

AUTOCLEAVER LDA™
Automatic system for precision angled cleaving of circular large diameter fibers. Designed to provide perpendicular and angled cleaving capability on fibers with cladding diameters between 230 and 800 micrometer.

FOR MORE INFO: WWW.NYFORS.COM
AUTOMATIC & PORTABLE FIBER CLEAVING

AUTOCLEAVER S2™
Specialty fiber cleaver with adjustable clamping force. Designed for processing brittle fiber types such as micro-structured and air-clad fibers as well as homogeneous large diameter fibers.

AUTOCLEAVER S1™
Automated fiber cleaving system for bare fiber length control. Enables repeatable precision cleaving to a specific bare fiber length.

ANGLE CLEAVING UNIT™
Angle cleaving tool for large diameter fiber. Available as an add-on for the AUTOCLEAVER LDF, this unit produces accurately angled cleaves of up to 15 degrees on large diameter fibers with cladding diameters from 250 μm to 1000 μm.

MINICLEAVER™
This small and light weight cleaver is designed to provide versatile fiber cleaving capability in settings where portability and consistent cleaving results are required. It is well suited for use both in field splicing and in laboratory or production environments where available space is limited.

FOR MORE INFO: www.nyfors.com
NYFORS produces fast and advanced recoaters for different high and low index recoating applications. A common feature of all models is the flexibility with easy change of recoating material and fiber coating dimension.
MINICOATER 2™
Small and flexible recoater that runs on built-in battery. Ideal for laboratory use or small scale production recoating. Suitable for recoating in field environments such as oil drilling platforms and other applications where a high degree of portability is required.

RECOATER 2™
Highly adaptable recoater for processing different fiber types and dimensions. Available with linear proof tester and mandrels for breaking strength testing of spliced optical fibers.

AUTOCOATER 2™
Automatic optical fiber recoater with completely removable injection system. Ideal for production applications where flexibility is required to meet many different recoating needs and specifications.

RECOATER 2 SC™
Manual recoater for applications where only short lengths of fiber are available. Enables clamping and recoating of fibers as short as 124 mm without reducing the recoat length itself.
RECOATER 2 XL™
AUTOCOATER 2 XL™
Special manual or automatic recoater for processing very long stripped fiber sections up to 100 mm.

AUTOCOATER 2 SC™
Automatic recoater for production applications where only short lengths of fiber are available. Enables clamping and recoating of fibers as short as 124 mm without reducing the recoat length itself.

AUTOCOATER™
The AUTOCOATER is used to restore the primary coating on spliced optical fibers with acrylate coatings. Designed for high strength applications, this automated recoater gives low cost recoatings and operator independence in factory environments.

RECOATER 1™
The RECOATER 1 is designed for high-strength, high-quality recoating of spliced optical fibers with acrylate coatings. Moulds are available for various sizes of coating diameters and they can also be made to customer specified shapes.

FOR MORE INFO: WWW.NYFORS.COM
OPTICAL FIBER PROOF TESTING

Automatic equipment for production verification and breaking strength testing of optical fibers. Linear and mandrel strength testing functionality.
**PROOFTESTER 2™**

Proof tester for production and laboratory environments. Two basic model configurations allow the user to choose between a set up for standard linear proof testing and with optional mandrels for breaking strength testing.

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**PROOFTESTER™**

Compact and light-weight instrument for tensile testing of spliced optical fibers with forces up to 30 N.
CLEAVE QUALITY INSPECTION

High precision interferometers for checking the end face quality of cleaved optical fibers and for cleave process optimization. Crisp and clear fringe patterns and software with advanced measurement functionality.
CLEAVE QUALITY INSPECTION

CLEAVEMETER 2™
Optical fiber interferometer designed for inspecting the end-faces of cleaved or polished optical fibers with cladding diameters between 125 and 1200 micrometer. Operator skill independent for fast operation in production environments.

CLEAVEMETER 3D™
Phase shifting optical fiber interferometer with 3D surface reconstruction for research and production operations. Ideal for analyzing cleaved fibers with complicated structures such as polarisation maintaining fibers and micro-structured fibers.

FOR MORE INFO: WWW.NYFORS.COM
NYFORS offers fusion splicing and glass processing solutions utilizing clean and contamination free CO$_2$ laser heating. The SMARTSPLICER is a versatile product platform designed for the manufacturing of high power and sensitive photonics components.
SMARTSPLICER™

The SMARTSPLICER™ is an advanced laser fusion splicing and glass processing system designed for the production of high power and sensitive photonics components of various kinds. These include splicing of single and multimode fibers as well as gradient index and photonic crystal fiber, fiber to end-cap splicing, tapering and the manufacturing of high power fiber laser components such as mode field adapters and pump combiners.

It features a powerful and clean laser heat source which enables completely contamination free glass shaping with low maintenance requirements and no need for consumables such as process gas, filaments or electrodes.

Precision beam shaping optics – based on patent pending Axicon Splicing™ technology – converts the laser beam into an annular shape that spans the geometry of the fiber or optical component under processing. This way optical power is distributed symmetrically and evenly to the defined processing area. The system can be operated in either horizontal or vertical orientation. In vertical orientation the force of gravity facilitates processes such as tapering and lensing. Intelligent tool holders allows the machine to be customised for user specific applications.

E!7422 Smart Splice.
Besides producing standard products, we can also assist with developing customised fiber processing systems. Custom solutions for applications such as volume fiber optic gyroscope manufacturing.
CONSULTING

During our thirty years in business, we have accumulated technical knowledge covering most aspects of fiber handling and preparation. Don’t hesitate to contact us at any time:

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