



### List of Fibres



Panda Fibre



Bow-Tie Fibre



Tiger Fibre



Hollow Core Photonic Fiber



Large Mode Area Fibre



Multicore Fibre



Octagonal Fibre



NorthLab Photonics AB, headquartered in Stockholm, Sweden, is a company with focus and expertise in distribution and development of fiber optic tools and technologies for optical fiber preparation, processing, and related applications.



For 35 years our products and services have been used at most of the world's leading photonics, aerospace, military, research facilities, institutes, and universities.

### Speciality Fibre Solutions

Bringing you a complete solution for speciality splicing perfection



Northlab and Fitel have joined forces to bring you a full range of innovative fibre preparation and splicing solutions.

## 1 Stripping

### 3SAE Adjustable Thermal Stripper

- Compact, low-maintenance benchtop design
- Suitable for acrylate-coated fibre with buffer diameters from 125 µm up to 900 µm
- Adjustable temperature and time settings to accommodate different fibre coatings



### 3SAE AutoStrip II, ASII

- Chemical-free (no cleaning or stripping chemicals required)
- Accommodates acrylate coating fibre diameters up to 600 µm
- Variable window strip lengths from 2 mm up to 150 mm
- Built-in high force linear tensile tester
- Fast cycle time & high first pass yield



## 2 Cleaning

### 3SAE Ultrasonic Cleaner USC-SD

- Frequency tuned oscillation
- Compatible with fibre holders from main fusion splicer manufacturers
- Fast cycle time
- Compact benchtop design



## 3 Cleaving

### ProCleave HS/LD - Fibre Cleaver

- Automated cleave process for optimal cleave quality and repeatability
- Universal fibre clamping mechanism
- Designed for fibre diameters from 80µm to 250µm(HS) / 125µm to 550µm(LD)
- Low cleave angles with very flat end faces, typical < 0.5° (125µm, SMF28)
- Operates on built-in rechargeable battery or external power supply



### 3SAE Liquid Clamp Cleaver LDF, LCC II

- Ability to cleave fibre up to 1mm in diameter
- Angled cleaver with up to 30° of fibre rotation (LCC II-A only)
- Suitable for circular & shaped fibre
- Lowest mean cleave angles available on the market
- Lowest standard deviation available
- Integrated vision system for blade, backstop and fibre alignment



## 4 Inspection

### NorthLab Interferometer ProView

- For fibre cladding diameters from 125µm to 720µm
- 2D and 3D topography
- Fringe & inspection mode from PC controller GUI
- Very fast inspection time with automatic angle estimation
- Easy indication of PASS/FAIL cleave angle
- Inspection of end-face properties such as flatness, perpendicularity, hackles and contamination
- Export 2D and 3D images and cleave data



## 5 Splicing

### S185HS/LDF/PM/ PMLDF

- 80µm up to 500µm cladding fibre
- High strength, low loss splicing
- Extremely portable
- Perfect for production and/or maintenance
- Auto-flip touchscreen display with intuitive interface
- High Capacity Built in Battery



### S185ROF/PMROF

- For splicing extra large diameter fibres up to 800µm cladding diameter.
- Ring of fire (ROF) heats fibres evenly reducing loss of the dissimilar fibre splicing
- Smaller and more compact than any other splicer in its class
- Soft clamp landing to reduce the possibility of fibre damage



## 6 Recoating

### NorthLab ProCoater

- Ultra-compact fibre recoater
- Unique square shaped plastic and silicon based moulds, adapted for high and low index resins
- Suitable for a wide range of fibre diameters - 250µm, 400µm, 500µm, 600µm and 900µm
- Very fast curing time < 3 seconds
- Operates on built-in rechargeable battery or external power supply

