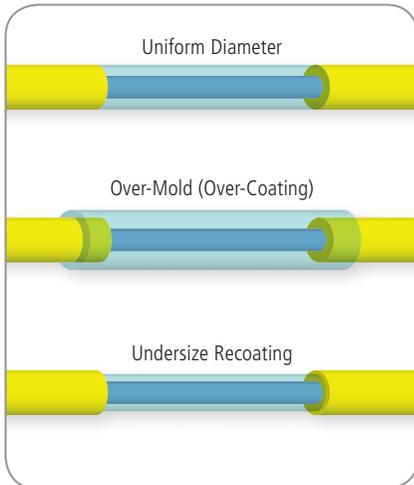




Dispensing Robot is easily removed from the rear of the AutoCoater for rapid recoat resin exchange



## 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.
<b>Mold Options</b>	
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	
<b>Miscellaneous</b>	
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