

MiniCoater 2™ *NEW*

Compact recoater for research, development and production operations



- Compact design
- Easy mould exchange and replacement
- Handles most fiber dimensions, with custom moulds available
- Uniform diameter, overcoating and undersize recoating capability
- Short curing times
- High and low-index recoating
- Runs on built-in, rechargeable battery or AC adapter
- Small, lightweight, highly portable
- High and uniform recoating quality



This compact and easy-to-use recoater is based on NYFORS' proven silicone mould technology which has been developed and refined in the course of the last twenty years. Moulds 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 moulds are available on request.

With the standard moulds the recoated part of the fiber is round with a cross section that perfectly and uniformly matches that of the original fiber coating, but moulds can also be selected for both overcoating and undersize recoating of optical fibers. These features makes the MiniCoater™ well suited for research and development operations and small scale production where the fiber type and dimensions 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 mould sizes and shapes (for uniform diameter and undersize recoating as well as overcoating), ensures the flexibility and adaptability of the MiniCoater™. 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.

The MiniCoater™ has a simple two button control with a three digit display and comes in a small bench-top design. The small size and light weight of the MiniCoater™ 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™ 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 such as an oil drilling platform, or for other uses where a high degree of portability is required.

TECHNICAL DATA	
Curing time	Programmable, 3 s typical
Light source	UV LED
Wavelength	380-385 nm
Mould material	Silicone
Mould length	34 mm and 55 mm
Recoating diameter	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

NYFORS part number: 10100033

Selection Guide Matrix

The recoater needs moulds that match the fiber coating to be restored. These moulds are made of soft silicone and are easily interchangeable by the operator to allow the system to be used with fibers of various coating diameters. Custom moulds are available upon request.

Moulds are consumables and should be replaced at regular intervals.

ARTICLE

Mould, 34 mm	Coating diameter	Mould length	Article number	Article Description
	165 µm	34 mm	10100036	Mould, Rec 2-series, 165 µm, 34 mm
	250 µm	34 mm	10100037	Mould, Rec 2-series, 250 µm, 34 mm
	300 µm	34 mm	10100038	Mould, Rec 2-series, 300 µm, 34 mm
	400 µm	34 mm	10100039	Mould, Rec 2-series, 400 µm, 34 mm
	550 µm	34 mm	10100040	Mould, Rec 2-series, 550 µm, 34 mm
	900 µm	34 mm	10100041	Mould, Rec 2-series, 900 µm, 34 mm
	Customer specified	34 mm	10100063	Mould, Rec 2-series, 34 mm, GENERIC

Mould, 55 mm	Coating diameter	Mould length	Article number	Article Description
	165 µm	55 mm	10100042	Mould, Rec 2-series, 165 µm, 55 mm
	250 µm	55 mm	10100043	Mould, Rec 2-series, 250 µm, 55 mm
	300 µm	55 mm	10100044	Mould, Rec 2-series, 300 µm, 55 mm
	400 µm	55 mm	10100045	Mould, Rec 2-series, 400 µm, 55 mm
	550 µm	55 mm	10100046	Mould, Rec 2-series, 550 µm, 55 mm
	900 µm	55 mm	10100047	Mould, Rec 2-series, 900 µm, 55 mm
	Customer specified	55 mm	10100064	Mould, Rec-2-series, 55 mm, GENERIC

Accessories	Article number	Article Description
	10100070	Mould Pins

Power Supply	Article number	Article Description
	90100409	Power Supply Kit VEP36

Included in delivery:

MiniCoater 2 w/ Power Supply (incl. US, UK and EU adapter), Fiber Clamps (for 165-330 µm Et 330-900 µm), Packet of 250 µm Moulds (34 mm length), Mould Pins, Manual and Tools.