

Specifications
Fiber recoater and associated accessories.

1. Fiber Recoater

Recoating – manual

Recoat moulds – make out of quartz

Recoat diameter – must include a mould to recoat 250 μm fiber diameter.

The mould must be removable to accommodate other fiber diameters.

Maximum Recoat Length – 2"

Recoat Material – UV curable acrylate

UV source – 10 W halogen lamps

Recoat injection – Automatic from a 1 oz bottle

Recoat volume – Programmable in microliters, 1.5 to 5 μliter typical

Recoat inject rate – Programmable up to 1.8 $\mu\text{liter/s}$

Inject/Lamp-on delay time – Programmable, typical 5 s

Cure time – Programmable, 17s typical

Total Cycle Time – not to exceed 60s

Proof Test – Linear

Load Applications – Linear Fiber Clamp

Fiber Clamp Length – 1.5:

Fiber Spacing – 2.9"

Min Fiber Length Required – 6"

Maximum Load – 4.5 lbs or 2.1 kg or 235 kpsi for 125 μm fiber

Accuracy - $\pm 2\%$

Pump Rate – Programmable, up to 5 lbs/s

Hold Time – Programmable

The included recoat mould must be reusable over 10,000 recoats without replacement.

Include 1-day training at customer site

2. Mould for coating 400 μm fiber

Recoat moulds – make out of quartz

Recoat diameter – must include a mould to recoat 400 μm fiber diameter.

The mould must be removable to accommodate other fiber diameters.

The included recoat mould must be reusable over 10,000 recoats without replacement.

Must be 100% compatible with the recoater in Item#1

3. Mould for coating 900 μm fiber

Recoat moulds – make out of quartz

Recoat diameter – must include a mould to recoat 900 μm fiber diameter.

The mould must be removable to accommodate other fiber diameters.

The included recoat mould must be reusable over 10,000 recoats without replacement.

Must be 100% compatible with the recoater in Item#1

Delivery Due Date:
March 31, 2012

Delivery Address:
NASA GSFC, 8800 Greenbelt Road, Building 33, Room E219, Greenbelt, MD 20771.