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PRODUCTS

PTR-200 Series

ARC Module

Fully Automatic Optical Fiber Re



Link to: ARC Product Suppo

The PTR-200-ARC module uses a pneumatic gripper (80 psi input required) to open and close the recoat mold plates. The mold plates are still quartz, as on the manual recoater, but are significantly thicker in order to hold true optically flat surfaces between the mating surfaces. The recoat material is automatically injected directly into the mold cavity, the volume of which is based upon the mold size and the length of the recoat. Because the mold plates are extremely flat, and tightly gripped together, there is no excess material that flows between the plates. This eliminates the need for cleaning the plates after every recoat. Once the fiber is loaded in the left and right hand vacuum V-groove fiber holding blocks, the entire process - grip, inject, cure & release - is automatic. The standard recoat mold size is 280µm for nominal 250µm coating. Custom mold sizes are available from 200µm and up. The maximum recoat length is two inches (50mm).

Other Module Configurations (Link to detailed information n module configurations).

- **MRC** - Manual Fiber Recoater with Auto Injection
- **XLR** - Extended Length Recoater with Auto Injection
- **ARC** - Fully Automated Fiber Recoater
- **RPT** - Rotary Proof Tester / Tension Tester
- **LPT** - Linear Proof Tester
- **MRL**- Combination Manual Recoater & Linear Proof Tester

- **MRR**- Combination Manual Recoater & Rotary Proof Tester
- **ARL** - Combination Automatic Recoater & Linear Proof Tester

PTR-200 SPECIFICATIONS

General Dimensions

Base Module:	H: 5.0" (127mm), W: 10.25" (260mm), D: 5.0" (127mm).
Control Panel:	H: 5.0" (127mm), W: 8.0" (203mm), D: 1.0" (25mm).
External Power Supply:	H: 2.4" (60mm), W: 4.1" (105mm), L: 12.5" (320mm).

Electrical Requirements

Base Module:	12.5 VDC, 13 A. (Provided by external powers supply)
Control Panel:	12.5 VDC, 500 mA. (Provided from base module)
External Power Supply:	Voltage: 100-120 / 200-240 VAC. Current: 4.5 / 2.2 A. Frequency: 47-63 Hz.

Supply Requirements

All Modules Except RPT:	Vacuum for fiber holding blocks. (External vacuum pump available)
Automatic Recoat Modules:	80-120 psi dry compressed air or gas for pneumatic gripper.

Interface

Base Module:	RS-232 Serial Communication.

Recoating	Manual	Automatic
Modules:	MRC, XLR.	ARC, ARL.
Recoat Mold:	Quartz.	Quartz.
Recoat Diameter:	260μm std. for nominal 250μm fiber. Custom sizes from 200μm and up.	280μm std. for nominal 250μm fiber. Custom sizes are available.
Maximum Recoat Length:	2" (50 mm) for MRC Module. 4" (100 mm) for XLR Module.	2" (50 mm) for both Modules.
Recoat Material:	UV Curable Arcylate. DSM 950-200 recommended.	UV Curable Acrylate. DSM 950-200 recommended.
UV Source:	Four 10 W halogen lamps, for MRC. Eight 10 W halogen lamps, for XLR.	Twelve 10 W halogen lamps, ARC/ARL.
Recoat Injection:	Automatic, direct from 1 oz. bottle.	Automatic, direct from 1 oz. bottle.

Recoat Volume:	Programmable in microliters, 5μl typ..	Programmable in microliters, 1.5μl typ..
Recoat Inject Rate:	Programmable, up to 1.8μl/s.	Programmable, up to 1.8μl/s.
Inject/Lamp-on Delay Time:	Programmable, 5s typ..	Programmable, 5s typ..
Cure Time:	Programmable, 17s typical.	Programmable, 17s typical.
Mold Cleaning Requirement:	After every recoat.	Start-up and shut-down only.
Mold Open/Close Method:	Manual.	Automatic. (pneumatic gripper)
Total Cycle Time:	60s typ..	45s typ..

Proof Testing	**Rotary**	**Linear**
Modules:	RPT.	LPT, ARL.
Load Application:	Rotating Mandrel.	Linear Fiber Clamp.
Mandrel Diameter:	2" (51mm).	N/A.
Fiber Clamp Length:	N/A.	1.5" (38mm).
Fiber Spacing:	5" (127mm).	2.9" (74mm).
Min. Fiber Length Req.:	17" (432mm).	6" (150mm).
Maximum Load:	20 lbs., 9.1 kg.. >800 kpsi (5.5 Gpa) for 125μm fiber.	4.5 lbs., 2.1 kg.. 235 kpsi (1.6 Gpa) for 125μm fiber.
Accuracy:	2%.	2%.
Ramp Rate:	Manual adjust up to 5 lbs/s (2.3 kg/s).	Programmable, up to 5 lbs/s (2.3 kg/s).
Hold Time:	N/A.	Programmable.
Display Units:	lbs, kg, N, kpsi, GPa.	lbs, kg, N, kpsi, GPa.

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