FSR-05

FSR-06

FSR-07

FSR-05, FSR-06 and FSR-07 Optical Fiber Recoaters

AFL offers a complete lineup of high quality fiber recoaters to address the small packaging needs of the fiber optic industry. The FSR series recoaters provide automatic operation with an easily exchangeable, low cost, mold design. A quick change resin bottle and pump assembly make messy, cumbersome, and time consuming acrylate changes a thing of the past. The pump system also provides a purge cavity for elimination of bubbles in the acrylate material. A programmable resin injection system provides an exact volume of resin to the mold cavity to ensure consistent and repeatable recoat performance. While the base model FSR-05 provides only recoating functions, the FSR-06 and FSR- 07 also provide programmable rate and force proof-testing capabilities up to 2 kgf or 10 kgf respectively. All of the recoaters are compatible with special recoating resins to provide higher stiffness recoating for 900 µm jacketed fibers, as well as specialty low-index resins for recoating of double-clad fibers. A USB - PC interface allows the user to control and store key parameters associated with the recoating process. The quartz mold technology provides very consistent recoating quality and have an estimated lifetime of 10,000 recoats per mold set.

Features

- Easy mold, resin and pump exchange
- Quartz molds for high-quality, consistent recoating
- Wide selection of available mold sizes
- Automated operation
- Bubble elimination system
- Programmable resin injection
- Selectable proof–tester
- PC interface with USB

Specifications

PARAMETER	FSR-05	FSR-06	FSR-07
Applicable fiber coating	Colored and non-colored		
Recoating diameter	195 µm, 255 µm, 280 µm, 450 µm, 670 µm, 1000 µm Custom sizes are available		
Recoating length	4 to 50 mm		
Recoating time	Injection 20 sec/Curing 4 sec (Jacket diameter 250 µm with 280 µm MOLD)		
Resin injection	Volume and speed are programmable		
Recoat material	UV curable Acrylate Recommended specification for other viscosity 2000-6000 cps Curing wavelength 365± 15 nm DSM Desotech DesoLite(R) 950-200 recommended		
Material of mold	Quartz		
Recoat modes	100 modes All variables programmable		
Proof-test modes	—	30 modes Speed, force, time programmable	
Load application	—	Linear Clamp	Mandrel
Tension	—	0.5 kgf ~ 2.0 kgf	0.5 kgf ~ 10.0 kgf
Dimensions	252 mm (W) x 135 mm (D) x 169 mm (H)	252 mm (W) x 175 mm (D) x 169 mm (H)	
Weight	2.9 kg	4.3 kg	4.5 kg
Power source	AC 100 to 240 C /50 to 60 Hz (External AC adaptor ADC-19)		
LCD monitor	4.7 inch, Tilt angle		
PC interface	USB 2.0 Type B mini		
Operating condition	10 to 30°C, 0 to 90% (non dew)		
Storage condition	-40 to 60°C (non dew, no resin)		

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Ordering Information

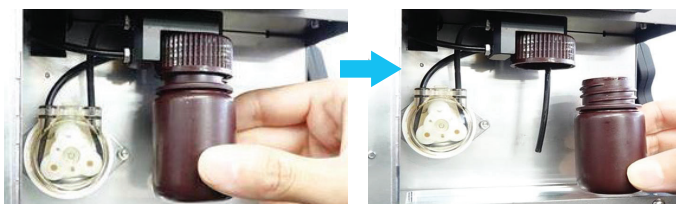| DESCRIPTION	AFL NO.
FSR-05 with 280 µm mold Includes: 280 µm mold, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable and M-FSR05 instruction manual.	S016103
FSR-05 with 320 µm mold Includes: 320 µm mold, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable and M-FSR05 instruction manual.	S016833
FSR-05 with 450 µm mold Includes: 450 µm mold, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable and M-FSR05 instruction manual.	S016276
FSR-05 with 600 µm mold Includes: 600 µm mold, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable and M-FSR05 instruction manual.	S016834
FSR-06 with 280 µm mold Includes: 280 µm mold, 2 kgf Proof Tester, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable, PC-02 Fiber protect cover and M-FSR05 instruction manual.	S016104
FSR-06 with 320 µm mold Includes: 320 µm mold, 2 kgf Proof Tester, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable, PC-02 Fiber protect cover and M-FSR05 instruction manual.	S016835
FSR-06 with 450 µm mold Includes: 450 µm mold, 2 kgf Proof Tester, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable, PC-02 Fiber protect cover and M-FSR05 instruction manual.	S016186
FSR-06 with 600 µm mold Includes: 600 µm mold, 2 kgf Proof Tester, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable, PC-02 Fiber protect cover and M-FSR05 instruction manual.	S016836
FSR-07 with 280 µm mold Includes: 280 µm mold, 10 kgf Proof Tester, ADC-19 AC adapter, ACC-09 AC power cord, USB-01 USB Cable, PC-03 Fiber protect cover and M-FSR05 instruction manual.	S016105

Accessories

DESCRIPTION	AFL NO.
MOLDS	
FSR-05-MOLD-195	S016133
FSR-05-MOLD-255	S016134
FSR-05-MOLD-280	S016106
FSR-05-MOLD-320	S016829
FSR-05-MOLD-450	S016135
FSR-05-MOLD-600	S016830
FSR-05-MOLD-670	S016136
FSR-05-MOLD-1000	S016137

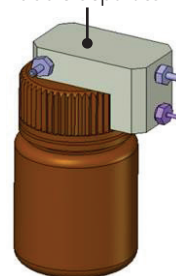| DESCRIPTION	AFL NO.
MISCELLANEOUS	
Fiber protect cover for FSR-06: PC-02	S016107
Fiber protect cover for FSR-07: PC-03	S016108
Tube set: FSR-05-TUBE-01	S016109
Pump head: FSR-05-PUMP-01	S016110
UV resin bottle: FSR-05-BTL-01	S016112
Force gauge adaptor: FGA-02	S016113

- Easy mold, resin and pump exchange
- Factory installation is not required

Mold exchange

Resin and pump exchange

Bubble Separator

Bubble Separator Performance

Spare Pump for quickly changing UV resin type: FSR-05-pump-01