

S541A FIBER RECOATER

THE WORLD'S FASTEST ALL-IN-ONE RECOATER

Furukawa Electric introduces the S541A, the World's Fastest All-in-One Recoater. Designed specifically for the manufacture of optical modules and devices, the S541A provides the most desirable splice protection technique for realizing efficient space and flexible fiber layout. The S541A Recoater is an All-in-One device, performing resin injection and curing in a speedy 30 second cycle time after which it performs a post application tensile test. And it is durable: the flush UV lighting system can provide 100,000 injections before needing replacement.

Call your local Furukawa representative to try the latest in Recoating Technology.

KEY FEATURES

- Automatic resin injection, curing and tension test
- Runs on electric power source only (No compressed air required)
- Fast cure with flush lighting
- Long-life UV lamp up to 100,000 shots
- Programmable operation with default and customizable programs
- Injection, curing and tension test data memory for latest 300 recoating
- Linear motion tension test for up to 20N
- Automatic Dispensing and controllable volume

SPECIFICATIONS

Applicable Fiber

Silica glass-based optical fibers

Clad diameter: 0.125mm

Coating diameter: 0.25, 0.40 and 0.90mm

Minimum fiber length: 150mm (6")

Recoating Performance

Recoat diameter:

- 0.26mm (for 0.25mm coating fiber) (except injection gate)
- 0.50mm (for 0.40mm coating fiber) (except injection gate)
- 1.00mm (for 0.90mm coating fiber) (except injection gate)

Recoat length: Maximum 40mm

Recoat mold: Glass

Recoat resin: UV Curable Acrylate (DSM 950-200 recommend)

UV source: UV Flash Lamp

Resing injection: Automatic, injected by internal pump from 30cc resin container, injection volume programmable

Curing time: Flash lighting, repeatable in 3 seconds interval, repeating times programmable for up to 3 shots

Mold cleaning: With Ethyl alcohol after every recoating

Cycle time: 30 seconds typical for injection and curing

Tension test:

- load programmable for up to 20N(2kgf), displayed on the LCD
- speed programmable at 5-50mm/minutes
- load hold time programmable at 0-30 seconds
- Breakage detection

Function

- **Recoat Program:** 32 Recoat programs, 4 pre-programmed, 28 customizable
- **Screening Program:** 10 Screening programs, 1 pre-programmed, 9 customizable
- **Display Information:** Operating message, process, tension load
- **Message:** A capacity to store 9 languages. Contact your dealer for details.

Operating Environment

Temperature: +10 to +45°C

Humidity: 90% at 38°C

Storage: 0 to 45°C (32 to 113°F)

Equipment

LCD: Dot matrix graphic LCD

DATA: RS232C (D-sub 9 pins male)

Recoat Data Memory: Injection, curing and tension test data for latest 300 recoatings

Size/Weight: 256Wx170Dx140H(Body)/182H(Top) / 7kg

Power: AC100-120, 200-240V, 50-60Hz

STANDARD PACKAGE

Description	Model Number	Quantity
Main body	S541A-250(Including 0.25mm Mold Unit:S541X-00101)	
	or S541A-400(Including 0.40mm Mold Unit:S541X-00102)	1
	or S541A-900(Including 0.90mm Mold Unit:S541X-00103)	
AC power cord	S541X-110001	1
Vacuum syringe	S541X-110003	1
Spare fuse	S541X-110004	1
Resin(50g)	S541X-110005	1
Resin container unit	S541X-110006	1
Tool Kit	S541X-110007	1
Tube(for Initial setting)	S541X-110011	1

CONSUMABLES

Description	Model Number	Quantity
Resin(50g)	S541A-110005	1

OPTIONAL ACCESSORY

Description	Model Number	Quantity
0.25mm Mold Unit	S541X-00101	1
0.40mm Mold Unit	S541X-00102	1
0.90mm Mold Unit	S541X-00103	1
Serial Cable	S541X-110002	1
Lamp Unit	S541X-00201	1

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