

MAUNT®

M10000631

Fibreglass Recoater FSR-117, Fujikura



Description

Designed for effortless automation, the Fujikura Optical Fiber Recoater (FSR-117) supports various sizes of quartz moulds. It enables the recoating of both coloured and uncoloured fibres. The FSR-117 has easily interchangeable moulds, resin bottles and pump pass assemblies. An innovative bubble removal system has been implemented to eliminate air bubbles even before they reach the mould cavity. This ensures impeccable coating quality. In addition, a programmable resin injection system ensures accurate dosing of resin to the mould cavity, resulting in consistent and reliable recoat performance. The FSR-117 is equipped with a test mechanism capable of performing tests within a force range of 10 kgf.

Brand

Fujikura

Technical specification

Applicable fibre	Singlemode
Applicable fibre coating diameter	90µm to 970µm
Recoat mould	Quartz glass mould
Recoat diameter	Approximately: 195µm, 255µm, 280µm, 320µm, 450µm, 600µm, 670µm, 850µm and 1,000µm
Recoat length	4mm to 50mm ^{*1} Recoil length accuracy ±20% ^{*2}
Applicable UV-curable resin	Japan Fine Coatings Co., Ltd. 950Y200 and Luvantix AMD Ltd. PC-373LD ^{*3}
UV-curable resin supply system	A built-in pump delivers UV-curable resin to the recoat mould from a replaceable built-in bottle. ^{*4}
UV-curable resin injection time	950Y200 : Approx. 17seconds ^{*2} PC-373LD : Approx. 20seconds ^{*2}
Lamps for UV-curable resins	UV light sources are placed above and below. Individual control of the position, intensity and time of light emission is possible. possible.
UV curing time	950Y200 : Approx. 4seconds ^{*2} PC-373LD: approx. 10seconds ^{*2}
Test mechanism	Equipped
Fibre clip method	Basket clamp type
Adjustable test force range	0.2 to 10.0kgf
Dimensions (WxDxH)	Approx. 252 x 175 x 169 mm (without projections)
Weight	Approx. 5.0 kg including recoat mould and fibre height adjuster
User conditions	10 to 30 °C, 0 to 95%RH (no dew)
Storage conditions	-40 to 80 °C, 0 to 95%RH (no dew)



AC adapter	Input: AC100 to 240V, 50/60Hz, Max. 1.5A Output: Approx. DC 19V, Max. 2.1A
Display	LCD monitor: TFT 4.95 inches with touchscreen
Interface	PC: USB2.0 Mini B type Earth point: Applicable with M3-sized truss screw.
Wireless communication	RFID: complies with ISO 15693
Data storage	Recoat mode: 100 Recoat modes Test mode: 30 modes Recoat results: 5,000 Recoat Test results: 5,000 tests
Mould	Stabilising the length of the recoat by a mechanism. Adjustable clamp position in line with fibre eccentricity between coating centre and clad centre. User-replaceable. Lightens the flow of UV-cured resin into the groove to improve resin visibility. An RFID label identifies the type of recoat mould.
Software for PC	Recoater firmware update via internet Parameters upload and download
Test force calibration	Enable *5

*1 The recoating length may not reach the set value depending on the combination of recoating diameter and fibre coating diameter, ambient temperature, and so on.

*2 Test conditions

- (1) UV-coated Resin: Japan Fine Coatings Co., Ltd. 950Y200 or Luvantix ADM Ltd. PC-373LD
- (2) Recoat diameter: 280µm
- (3) Recoat Length: 20mm
- (4) FiberClad Diameter: 125µm/Transparent UV 250µm Coating Diameter, Coating Stripping length 16mm
- (5) Environmental conditions: 25°C

*3 Buy UV-curable resin from local distributors of UV-curable resin. Fujikura does not sell UV-curable resin.

*4 Ask the distributor to replace the built-in pump.

*5 FGA-02 and the specified force gauge, FGP-20, manufactured by Nidec-Shimpo Co., Ltd. are required.