DATA SHEET

FSR116
Optical fibre recoater

FEATURES

- Range of recoat lengths from 4mm to 40mm
- ncludes a linear proof tester up to 2kgf
- Colour TFT touch screen for convenient operation



APPLICABLE OPTICAL FIBRE	Single-fibre
APPLICABLE FIBRE COATING DIAMETER	0.09mm to 0.97mm
RECOAT DIAMETER	Approx. 0.195mm, Approx. 0.225mm, Approx. 0.28mm, Approx. 0.32mm, Approx. 0.45mm, Approx. 0.6mm, Approx. 0.67mm, Approx. 0.85mm and Approx. 1mm
RECOAT LENGTH [1] [2]	4mm to 50mm [1] Recoat length accuracy ±20% [2]
UV CURING RESIN [3]	Japan Fine Coating Co., Ltd. 950Y200 and Luvantix AMD Ltd. PC-373LD
UV CURING RESIN SUPPLY SUSTEM [4]	A built-in pump supplies UV curing resin to the recoat mould from a replaceable built-in bottle
UV CURING RESIN INJECTION TIME [2]	950Y200: Approx. 4 seconds PC-373LD: Approx. 10 seconds
PROOF MECHANISM	Equipped
FIBRE CLAMP METHOD	Flat clamp types
PROOF TESTING RANGE	0.2 to 2.0kgf
DIMENSIONS	252mm [W] x 175mm [D] x 169mm [H]
WEIGHT	4.8kg
OPERATING TEMPERATURE	10°C to 30°C
OPERATING HUMIDITY	0 to 95% RH non-condensing
OPERATING STORAGE	-40°C to 80°C
AC ADAPTER	Input: AC100 to 240V, 50/60Hz, Max. 1.5A Output: Approx. DC 19V, Max. 2.1A
DISPLAY	4.95-inch colour TFT touch screen
INTERFACE	PC: USB 2.0 Mini B type Earth Terminal: Applicable by M3 size truss screw
WIRELESS COMMUNICATION	RFID: Compliant with ISO 15693
RECOAT MODE	100 recoat modes
RECOAT RESULTS	5,000 recoats
PROOF TEST MODE	30 proof modes
MOULD	Recoat length stabilising mechanism, alignable clamp position according to fibre eccentricity between coating centre and clad centre, replaceable by user, illuminates the flowing UV curing resin on the groove to advance resin visibility, RFID tab identifies the type of recoat mould.
PC SOFTWARE	Recoater firmware update via the internet, parameter upload and download
PROOF FORCE CALIBRATION [5]	Enable

NOTES

[1] The recoat length may not achieve to the setting value, depending on the combination of recoat diameter and fibre coating diameter, ambient temperature, etc. **[2]** Test condition - (1) UV recoat Resin: Japan Fine Coatings Co., Ltd. 950Y200 or Luvantix ADM Ltd. PC-373LD (2) Recoat diameter: 0.28mm (3) Recoat length: 20mm (4) Fibre: Clad diameter 0.125mm/ transparent UV 0.25mm coating diameter, coating stripping length 16mm (5) Environment condition: 25°C **[3]** Purchase the UV curing resin from UV curing resin local distributors. Fujikura doesn't sell UV-curing resin **[4]** Ask the distributor to replace the built-in pump. **[5]** FGA-02 and specified force gauge, FGP-20 manufactured by Nidec-Shimpo Co., Ltd. are necessary.

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DATA SHEET

FSR115

Optical fibre recoater

FEATURES



- Range of recoat lengths from 4mm to 50mm
- New pumping mechanism with a faster cycle time compared to previous model.
- Ease of use thanks to colour TFT touch screen and user exchangeable RFID-equipped moulds which select the most appropriate recoat modes.

APPLICABLE OPTICAL FIBRE	Single-fibre
APPLICABLE FIBRE COATING DIAMETER	0.09mm to 0.97mm
RECOAT DIAMETER	Approx. 0.195mm, Approx. 0.225mm, Approx. 0.28mm, Approx. 0.32mm, Approx. 0.45mm, Approx. 0.6mm, Approx. 0.67mm, Approx. 0.85mm and Approx. 1mm
RECOAT LENGTH [1] [2]	4mm to 50mm [1] Recoat length accuracy ±20% [2]
UV CURING RESIN [3]	Japan Fine Coating Co., Ltd. 950Y200 and Luvantix AMD Ltd. PC-373LD [3]
UV CURING RESIN SUPPLY SYSTEM [4]	A built-in pump supplies UV curing resin to the recoat mould from a replaceable built-in bottle [4]
UV CURING RESIN INJECTION TIME [2]	950Y200: Approx. 4 seconds [2] PC-373LD: Approx. 10 seconds [2]
DIMENSIONS	25mm2 [W] x 135mm [D] x 169mm [H]
WEIGHT	3.3kg
OPERATING TEMPERATURE	10°C to 30°C
OPERATING HUMIDITY	0 to 95% RH non-condensing
OPERATING STORAGE	-40°C to 80°C
AC ADAPTER	Input: AC100 to 240V, 50/60Hz, Max. 1.5A Output: Approx. DC 19V, Max. 2.1A
DISPLAY	4.95-inch colour TFT touch screen
INTERFACE	PC: USB 2.0 Mini B type Earth Terminal: Applicable by M3 size truss screw
WIRELESS COMMUNICATION	RFID: Compliant with ISO 15693
RECOAT MODE	100 recoat modes
RECOAT RESULTS	5,000 recoats
MOULD	Recoat length stabilising mechanism, alignable clamp position according to fibre eccentricity between coating centre and clad centre, replaceable by user, illuminates the flowing UV curing resin on the groove to advance resin visibility, RFID tab identifies the type of recoat mould.
PC SOFTWARE	Recoater firmware update via the internet, parameter upload and download

NOTES

[1] The recoat length may not achieve to the setting value, depending on the combination of recoat diameter and fibre coating diameter, ambient temperature, etc. **[2]** Test condition - (1) UV recoat Resin: Japan Fine Coatings Co., Ltd. 950Y200 or Luvantix ADM Ltd. PC-373LD, (2) Recoat diameter: 0.28mm, (3) Recoat length: 20mm, (4) Fibre: Clad diameter 0.125mm/ transparent UV 0.25mm coating diameter, coating stripping length 16mm, (5) Environment condition: 25°C **[3]** Purchase the UV curing resin from UV curing resin local distributors. Fujikura doesn't sell UV-curing resin **[4]** Ask the distributor to replace the built-in pump.

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DATA SHEET

FSR117

Optical fibre recoater with mandrel proof tester

FEATURES

- Range of recoat lengths from 4mm to 50mm.
- Equipped with mandrel proof tester capable of delivering up to 10kgf force.
- Easy to use - user changelabe RFID-equipped moulds allow FSR117 to select the most approprioate recoat mode.



FIBRE TYPE	Single-fibre
FIBRE COATING DIAMETER	0.09mm to 0.97mm
RECOAT DIAMETER	Approx. 0.195mm, Approx. 0.225mm, Approx. 0.28mm, Approx. 0.32mm, Approx. 0.45mm, Approx. 0.6mm, Approx. 0.67mm, Approx. 0.85mm and Approx. 1mm
RECOAT LENGTH [1] [2]	4mm to 50mm Recoat length accuracy ±20%
UV-CURING RESIN [3]	Japan Fine Coating Co., Ltd. 950Y200 and Luvantix AMD Ltd. PC-373LD
RESIN SUPPLY SYSTEM [4]	A built-in pump supplies UV curing resin to the recoat mold from a replaceable built-in bottle
RESIN INJECTION TIME [2]	950Y200: Approx. 4 seconds PC-373LD: Approx. 10 seconds
PROOF MECHANISM	Equipped with mandrel proof testing mechanism
FIBRE CLAMP METHOD	Mandrel clamp
SETTABLE PROOF FOR RANGE	0.2kgf to 10.0kgf
RECOAT MODE	100 modes
RECOAT RESULTS	5,000 recoats
RECOAT TEST RESULTS	5,000
PROOF TEST MODE	30 proof modes
PROOF FORCE CALIBRATION [5]	Enable
DIMENSIONS	252mm [W] x 175mm [D] x 169mm [H]
WEIGHT	5kg
OPERATING TEMPERATURE	10°C to 30°C
OPERATING HUMIDITY	0 to 95% RH non-condensing
OPERATING STORAGE	-40°C to 80°C
OPERATING HUMIDITY	0 to 95% RH non-condensing
AC ADAPTER	Input: AC100 to 240V, 50/60Hz, Max. 1.5A Output: Approx. DC 19V, Max. 2.1A
DISPLAY	4.95-inch colour TFT touch screen
INTERFACE	PC: USB 2.0 Mini B type Earth Terminal: M3 size truss screw
WIRELESS COMMUNICATION	RFID: Compliant with ISO 15693
MOULD	Recoat length stabilising mechanism, alignable clamp position according to fibre eccentricity between coating centre and clad centre, replaceable by user, illuminates the flowing UV curing resin on the groove to advance resin visibility, RFID tab identifies the type of recoat mould.
PC SOFTWARE	Recoater firmware update via the internet, parameter upload and download.

NOTES

[1] The recoat length may not achieve to the setting value, depending on the combination of recoat diameter and fibre coating diameter, ambient temperature, etc. [2] Test condition - (1) UV recoat Resin: Japan Fine Coatings Co., Ltd. 950Y200 or Luvantix ADM Ltd. PC-373LD (2) Recoat diameter: 0.28mm (3) Recoat length: 20mm (4) Fibre: Clad diameter 0.125mm/ transparent UV 0.25mm coating diameter, coating stripping length 16mm (5) Environment condition: 25°C [3] Purchase the UV curing resin from UV curing resin local distributors. Fujikura doesn't sell UV-curing resin. [4] Ask the distributor to replace the built-in pump. [5] FGA-02 and specified force gauge, FGP-20 manufactured by Nidec-Shimpo Co., Ltd. are necessary.

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