

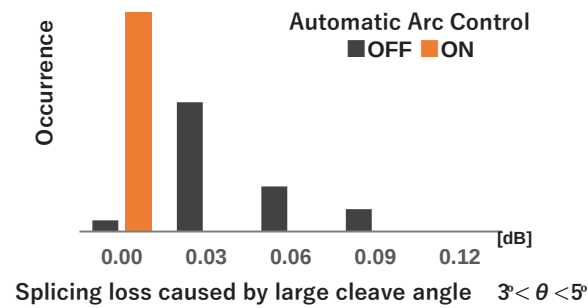
R&D, Factory uses

Splicers	Core Alignment Fusion Splicer 100S Kit
	Mass Fusion Splicer 90R Kit series
Strippers&Cleaners	Specialty Fiber Stripper SS110
Cleavers	Advanced Optical Fiber Cleaver CT110/111
	Large Diameter Optical Fiber Cleaver CT114/115/116
Protectors	Optical Fiber Recoater FSR115/ 116/ 117



Not just ease of use.

Stable splicing quality with our standard features.



Detects blade worn position!

The blade condition is managed in real-time via Bluetooth.

When worn position is detected, the blade automatically rotates to the next position, allowing work to be performed at the optimal position.

Optical fiber type and end-face condition are analyzed in real-time, and arc conditions are automatically adjusted for optimal performance. This ensures consistently low splice loss.

Standard Package

Item	Model	Qty
Core Alignment Fusion Splicer	100S	1pc
(1) Battery Pack *	BTR-19	1pc
(2) AC Adapter	ADC-22	1pc
(3) AC Power Cord	ACC-19	1pc
(4) USB Cable	USB-02	1pc
(5) Fusion Splicer Strap	ST-02	1pc
(6) Electrodes, for spare	ELCT2-16C	1pairs
(7) Fiber Holder Set Plate	SP-05	1pairs
(8) Carrying Case	CC-48	1pc
(9) Work Tray Left	WT-11L	1pc
(10) Work Tray Right	WT-11R	1pc
(11) Work Tray J-Plate	JP-11	1pc
(12) Tripod Screw (For splicer)	TS-04A	1pc
(13) Carrying Case Strap	ST-04	1pc
(14) Alcohol Dispenser	AP-02	1pc
(15) Instruction Manual	PDF file stored in Splicer	
Single Fiber Stripper	SS05	1pc
Optical Fiber Cleaver	CT60	1pc
(1) Fiber Scrap Collector	FDB-07	1pc
(2) Fiber Setting Plate	AD-60A	1pc
(3) Case, for cleaver	CC-49	1pc
(4) Hexagonal Wrench	HEX-01	1pc

Our after-sales service

Fujikura has a worldwide network of authorized distributors who have certified maintenance center. We provide comprehensive after-sales service, including usage assistance and repair services, this ensures our products maximum lifetime.



*Please follow IATA regulation when shipping the battery by air.



Core Alignment Fusion Splicer 100S Kit



Innovation at your fingertips

Fujikura Ltd.

Issue date : October 2025

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Telecommunication Systems Business Unit
TEL : +81-3-5606-1636

Inquiry from
here→



<https://www.optic-product.fujikura.com/jp/>

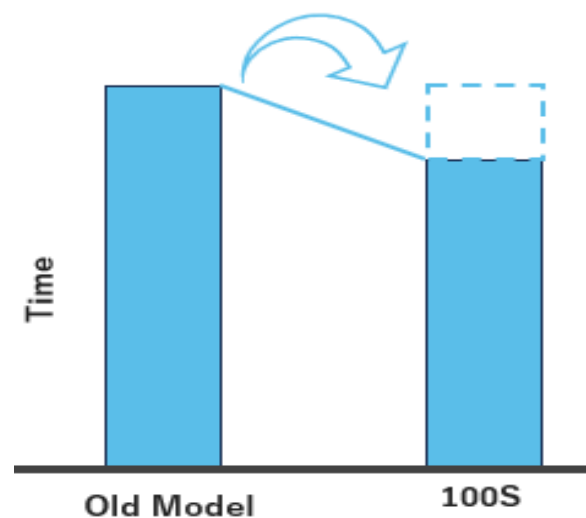
B-25M2051-04

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Core Alignment Fusion Splicer 100S

Faster, easier, changing the field use with advanced fusion splicers.

Achieved **20%** faster operation



Simultaneous Optical fiber preparation.



Stripping

The single fiber stripper SS05 can strip two optical fibers at the same time



Cleaving

The optical fiber cleaver CT60 can cleave two optical fibers simultaneously.



Setting

When setting the optical fibers, the clamp cover closes automatically, allowing two optical fibers to be set simultaneously.

Simplified optical fiber set using the finger placement guide

A V-shaped guide has been added to the optical fiber setting area. By aligning your finger with the guide, it has become easier to place the optical fiber accurately.



Finger placement guide

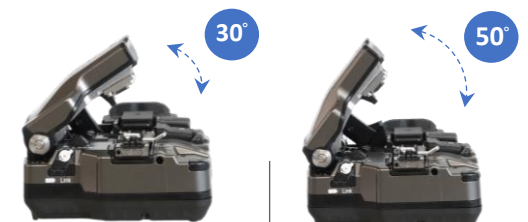
Wind protector with automatic open and close function

After setting the optical fiber, the wind protector closes automatically and opens automatically once the splicing process finishes.



Adjustable lever opening angles

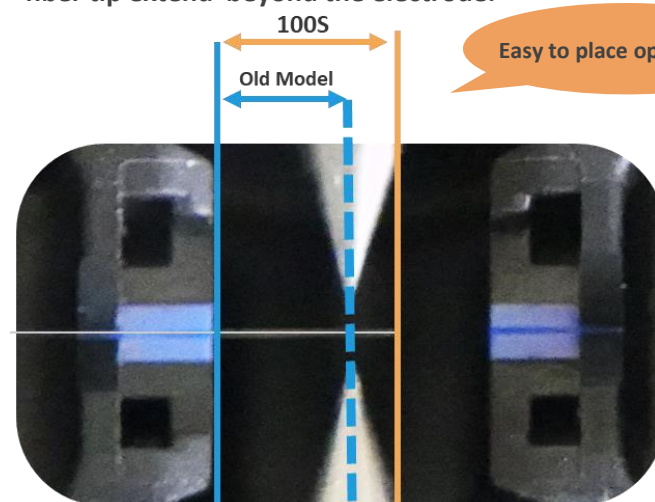
By adjusting the lever opening angle, it is easy to use in various situations, whether on a tabletop or handheld.



Optical fiber cleaver, CT60

Expanded allowable range for optical fiber setting

It is possible to splice even when the optical fiber tip extend beyond the electrode.



Increased number of blade positions.

By increasing the number of blade positions from 16 to 28 compared to the previous model, no need for blade height adjustment anymore.



Blade, CB-10



For external illumination

AC Adapter

Linked with smartphone app

With the app Splice+, you can view the location information and splice results. Additionally, it is equipped with a locking function to prevent theft.

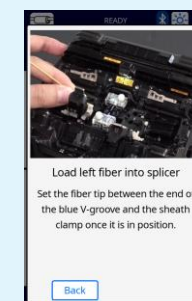


DOWNLOAD ⇒



Splice Coach function

Step-by-step instructions appear on the screen, allowing for seamless and confident work.



Compatible with mobile batteries*

Supports charging via standard mobile batteries, ensuring reliability even during sudden power loss.



Please confirm that any mobile battery connected to this product meets USB PD standards and adhere to the mobile battery's precautions. Do not use mobile batteries that are incompatible with this machine.

User-friendly features

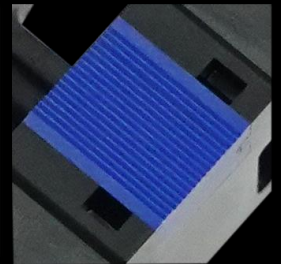
GPS

Location information acquired via GPS at the time of splicing is saved in memory. It helps with daily workflow management.

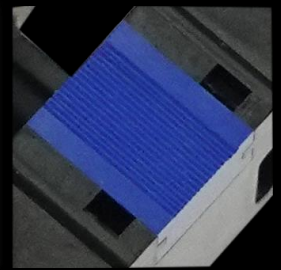
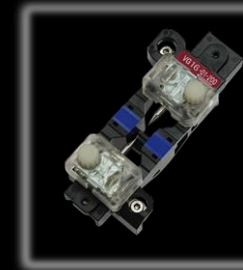
Mass Fusion Splicer **90R** kit series

Replaceable V-groove

Up to 16F



250µm fiber spacing



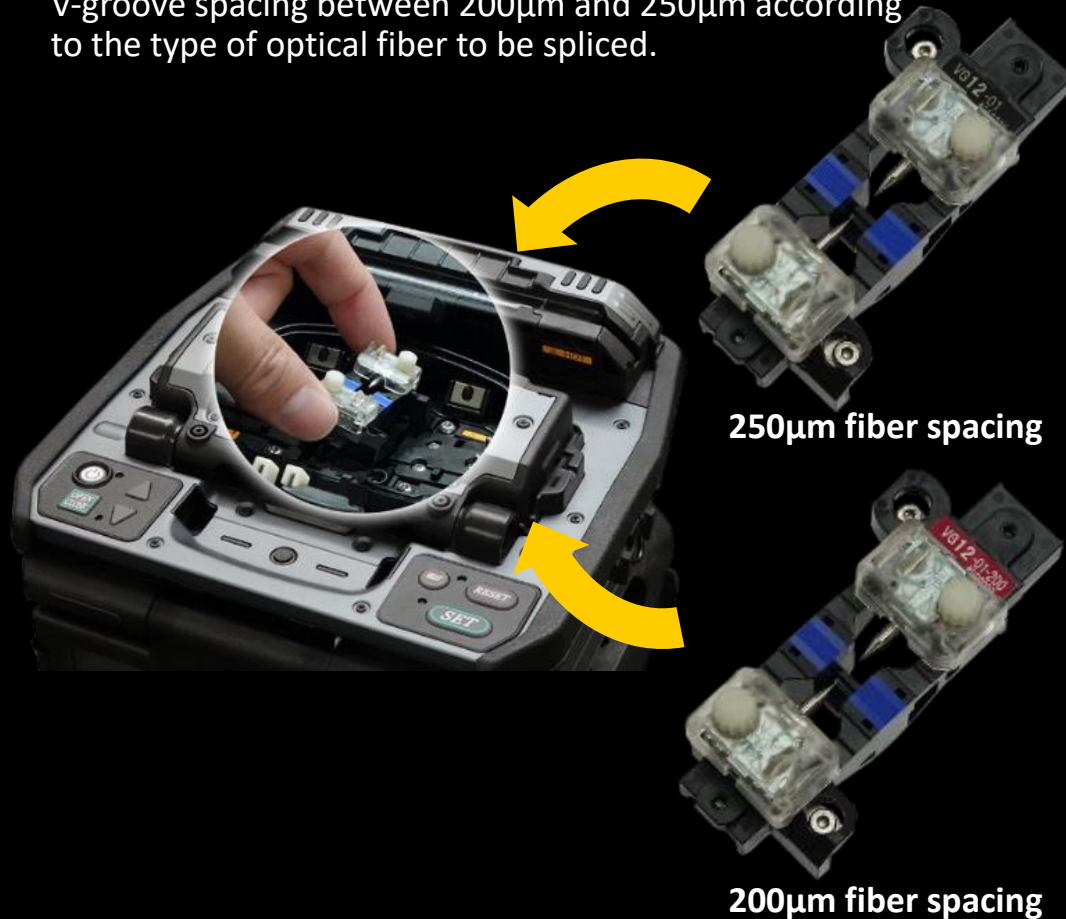
200µm fiber spacing



Cutting-edge Feature

1. Replaceable 200 μ m/250 μ m spacing V-groove

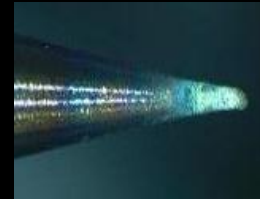
The 90R features an easily replaceable V-groove system, which allows customers to install and remove the V-groove very quickly. Almost all ribbon cables that have already been installed contain ribbons with fibers that have 250 μ m coating and therefore a 250 μ m fiber-to-fiber spacing. But with increasing cable densities, cable installations with 200 μ m coated fibers at a 200 μ m spacing is increasing. The 90R user can splice various types (and combination) of ribbon fiber by switching the V-groove spacing between 200 μ m and 250 μ m according to the type of optical fiber to be spliced.



2. Minimizing the downtime on the field

Accumulation of dust and melted glass on the V-groove is one of the causes of high splice loss during fusion splicing. The 90R includes a spare set of 12 fiber V-grooves with electrodes installed and ready to splice as part of the standard package. These spare V-grooves are field replaceable, so user downtime is minimized. The electrodes are pre-stabilized, so electrode stabilization is not required.

Glass deposition on Electrode

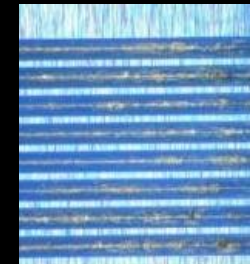


Glass deposition on V-groove

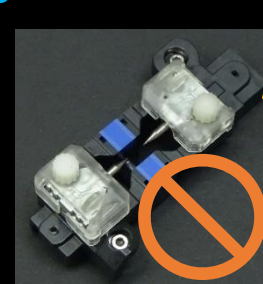


Cause of Large Fiber Offset

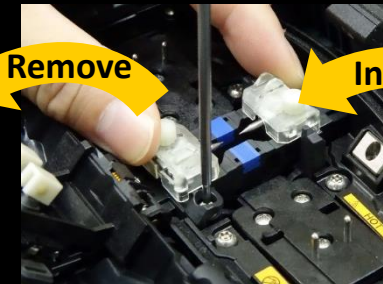
No.	Gap [μm]	Offset [μm]	Cleave L [μm]	Cleave R [μm]
1	68	0.9	1.4°	1.9°
2	63	0.3	0.5°	1.1°
3	55	1.3	0.7°	0.9°
4	54	5.2	1.7°	1.2°
5	54	0.4	1.3°	0.4°
6	62	1.1	0.4°	0.7°
7	48	1.2	1.9°	0.3°
8	48	2.7	1.0°	1.5°
9	48	0.8	1.9°	0.1°
10	43	6.7	0.9°	0.3°
11	42	0.7	0.4°	1.8°
12	40	2.8	2.0°	0.5°



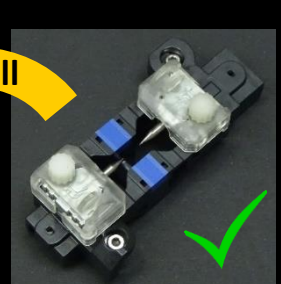
Glass deposited V-groove and electrodes



Remove

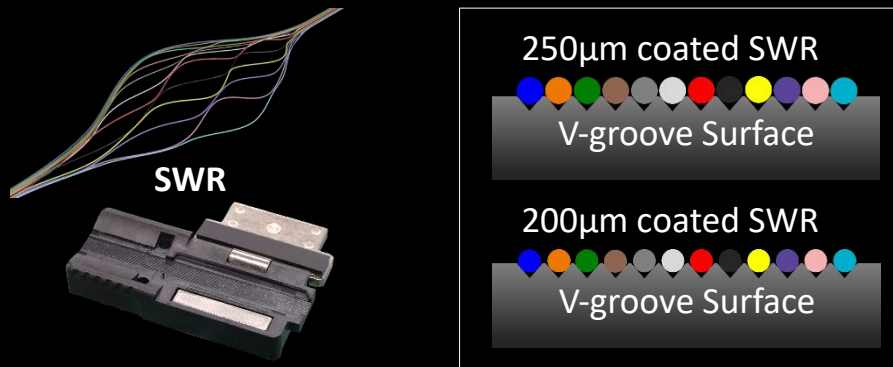


Install



3. Universal Fiber Holder

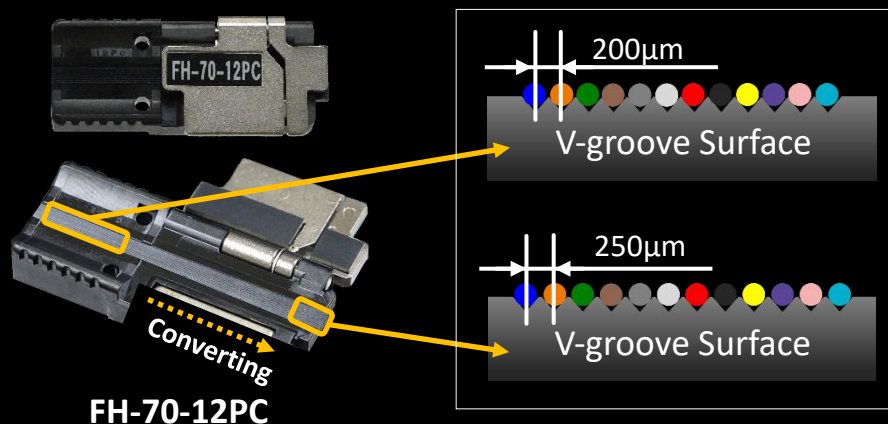
The FH-70-12 fiber holder is compatible with many types of 12 fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200μm or 250μm coated Spider Web Ribbon (SWR). The 250μm spacing V-grooves in the FH-70-12 fiber holder simplify SWR loading and ribbon preparation.



FH-70-12

4. Pitch Conversion Fiber Holder

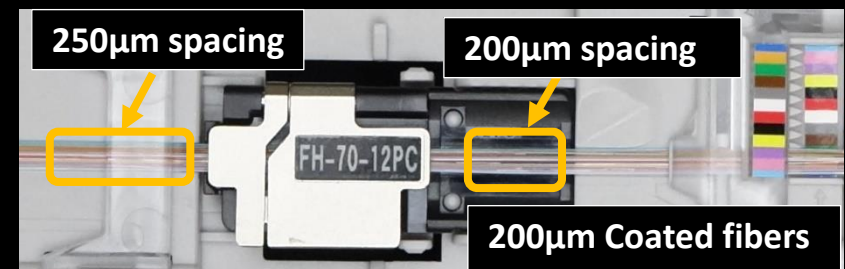
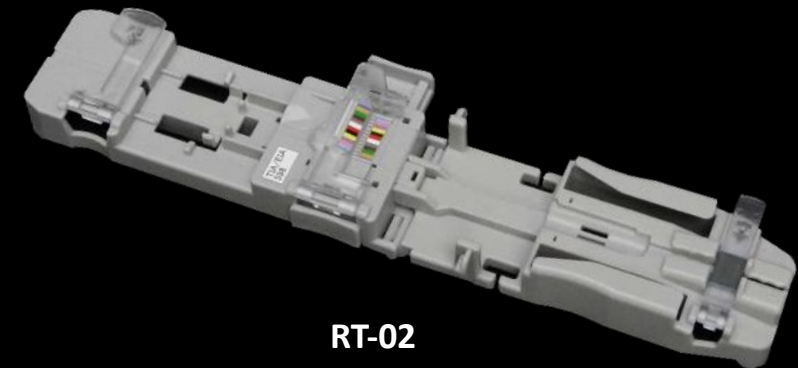
The pitch conversion fiber holder, FH-70-12PC, enables pitch conversion of individual 200μm coated fibers from a 200μm to 250μm spacing. It also enables many ribbons with 200μm spacing to be converted to 250μm spacing so they can be loaded into the standard 90R 250μm V-groove.



FH-70-12PC

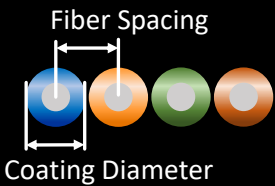
5. Ribbonizing Tool

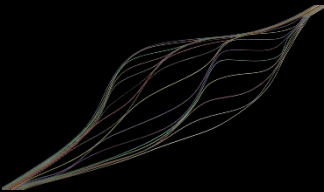
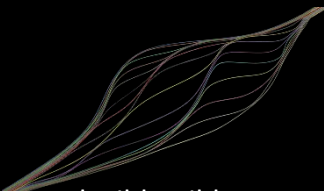
The RT-02 is a tool which enables quick and easy ribbonization of 12 individual fibers into a temporary ribbon which can be spliced using a 90R. No glue or adhesive is required when using this ribbonizing tool since the arranged fibers are immediately loaded into the fiber holder. The RT-02 doesn't require the user to insert the fibers in the color code sequence, which is necessary with other ribbon arrangement tools. The user can choose any fiber at random and place it in the correct slot by referring to the color code label on the tool. The RS-02 is applicable to ribbonize both 200μm and 250μm coated fibers. It's also capable of ribbonizing 200μm coated fibers into 250μm spacing ribbon using the FH-70-12PC pitch conversion fiber holder or a 200μm spacing using the "Red Label" FH-70-12-200 (200μm spacing) fiber holder.



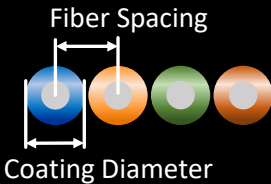
Ribbonizing 200μm coated fiber at a 250μm pitch

6. 90R16 Accessories Enable Splicing any Combination of 250μm and 200μm Ribbon



Coating Diameter	Fiber Spacing	Ribbon Structure	Replaceable V-groove	Fiber Holder
250μm	—	 Single fibers	 VG16-01-250  250μm	 FH-70-16
	250μm	 Encapsulated ribbon		
200μm	250μm	 Flexible Ribbon		
200μm	—	 Single fibers	 VG16-01-200  200μm	 FH-70-16-200
	200μm	 Encapsulated ribbon		
		 Flexible Ribbon		

7. 90R12 Accessories Enable Splicing any Combination of 250μm and 200μm Ribbon



Coating Diameter	Fiber Spacing	Ribbon Structure	Replaceable V-groove	Fiber Holder
250μm	—	 Single fibers	 VG12-01	 FH-70-12
200μm	250μm	 Encapsulated ribbon		
		 Flexible Ribbon		
200μm	—	 Single fibers	 250μm	 FH-70-12PC
	200μm ↓ 250μm	 Encapsulated ribbon		
		 Single fibers		
		 Flexible Ribbon		
200μm	—	 Single fibers	 VG12-01-200	 FH-70-12-200
	200μm	 Encapsulated ribbon		
		 Flexible Ribbon	 200μm	

Well-developed operability

1. Carrying Case

There are multiple ways to utilize the 90R carrying case. The 90R is ready to use just by opening the case, but it is also possible to use the 90R on top of the carrying case or only with the work tray depending on the work environment.

Ready to use



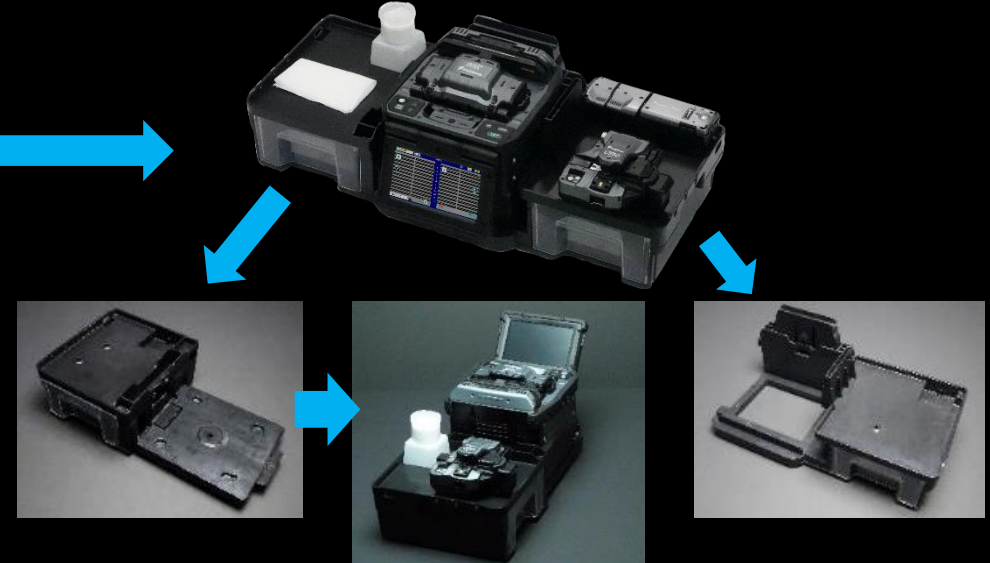
Large storage space
under work tray

Lid of carrying case
becomes a work tray

2. Work Tray

The work tray has many functions. There are two drawers for storage which are large enough to store tools or battery packs. Also, the work tray can be divided in two, so it is configurable to fit your work space.

Separable Work Tray



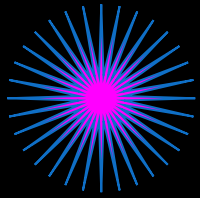
Cleaver & Stripper



Battery packs

Plenty of space in work tray

Active Fusion Control Technology



ACTIVE FUSION

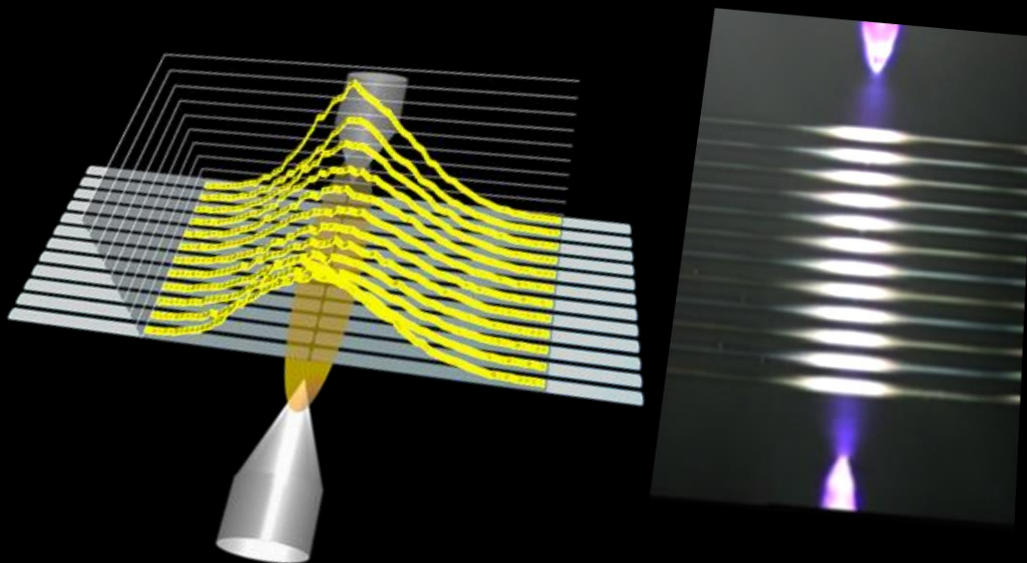
CONTROL TECHNOLOGY

The 90R features ACTIVE FUSION CONTROL TECHNOLOGY which has two key components. This function enables stable fusion splicing with a wide variety of optical fibers and field conditions.

1. Active Fusion control by Real-time

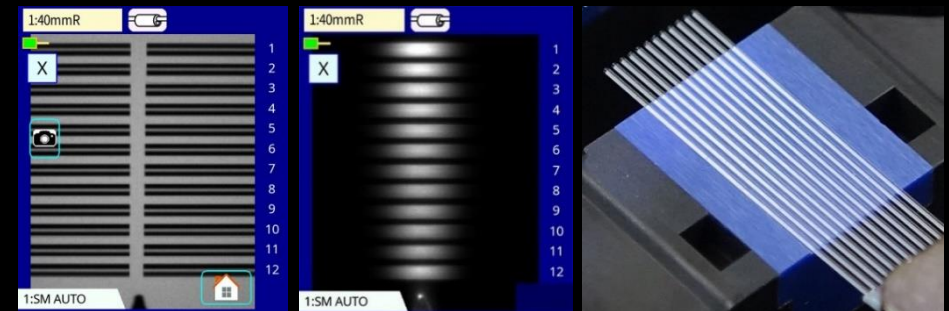
The 90R mass fusion splicer uses a wide electrode gap and heats the ribbon fibers uniformly. It features real-time fusion power control by analyzing the fiber's brightness intensity during the splicing arc. Therefore, it can splice the fiber by appropriate fusion parameters.

The 90R does not have active core alignment mechanisms, however, during the fusion, fiber surface tension effects minimize preexisting offsets.

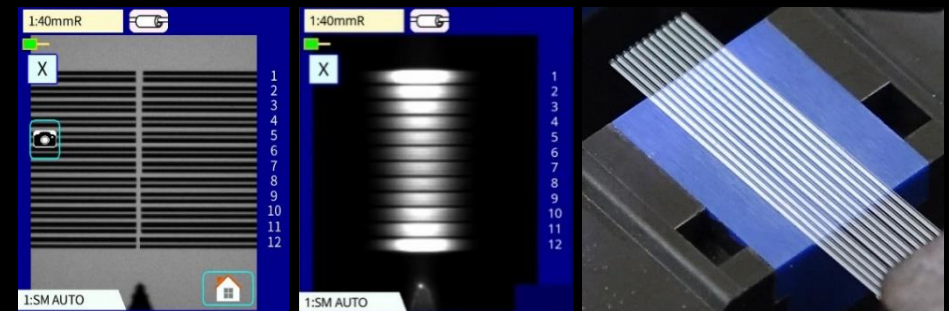


2. Active Fusion control by V-groove and fiber count

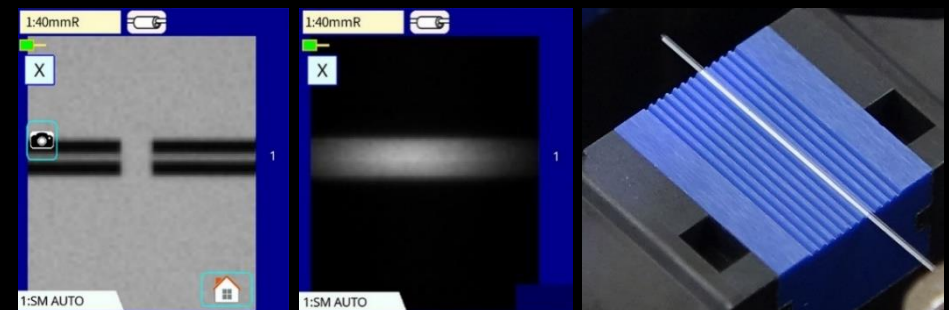
The 90R automatically determines the appropriate fusion splicing parameters according to the ribbon fiber count and the installed V-groove spacing.



250µm fiber spacing / 12-fiber ribbon

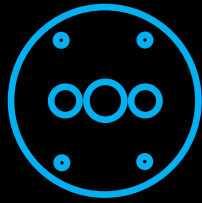


200µm fiber spacing / 12-fiber ribbon



Single fiber

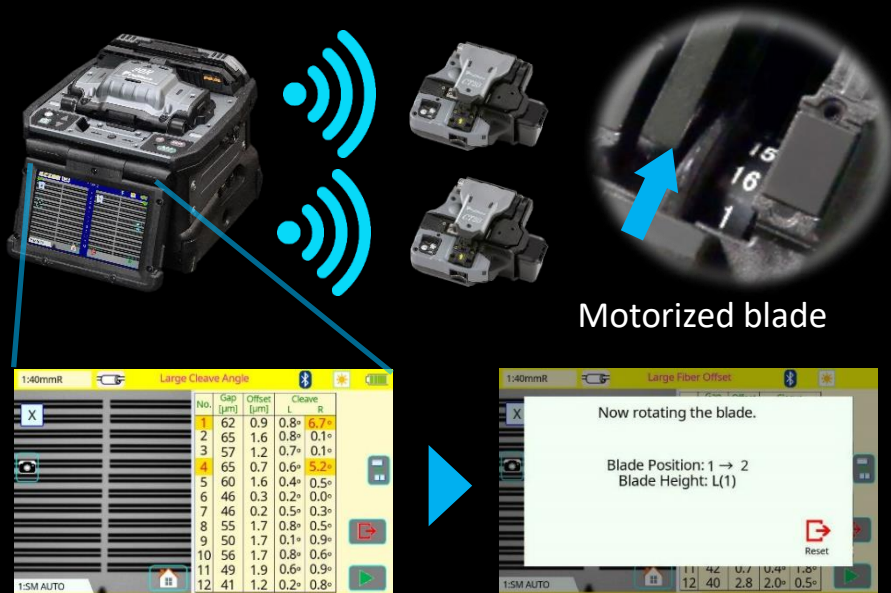
Active Blade Management Technology



ACTIVE BLADE MANAGEMENT TECHNOLOGY

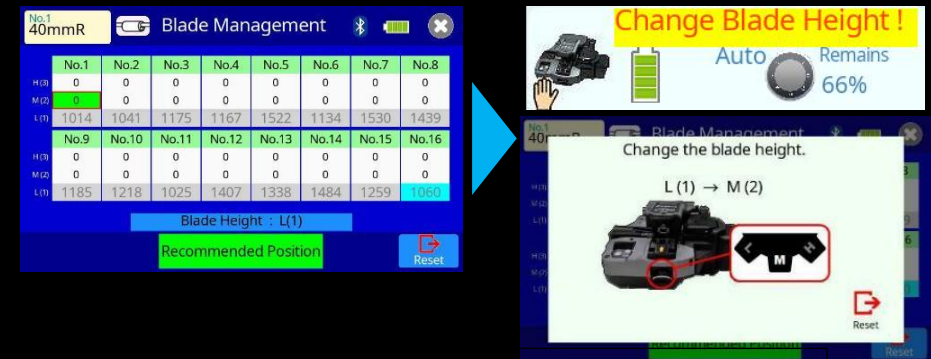
1. Active Blade rotation by motor

The 90R and CT50 fiber cleaver are provided with wireless data connectivity. This capability allows automatic cleaver blade rotation when the 90R judges the blade is worn. The 90R can be connected to two CT50 cleavers simultaneously.



2. Active Blade life management

The 90R displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.



3. Stripping Condition Control

When the user changes the splice mode, e.g. from 12 fiber ribbon splice mode to SWR fiber splice mode, a wireless command from the splicer automatically changes the ribbon stripper RS03 heating temperature and time.

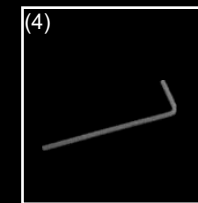
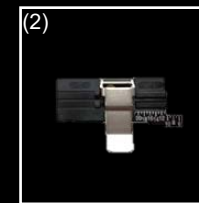
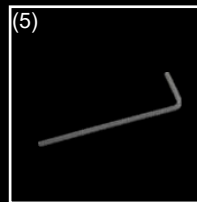
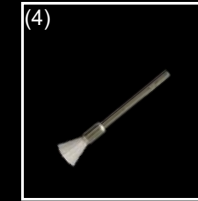
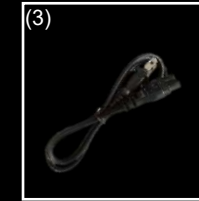
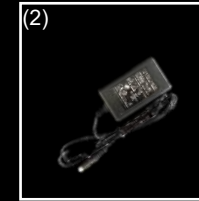
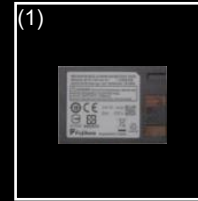
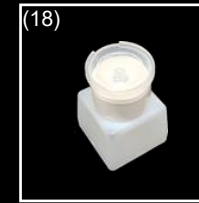
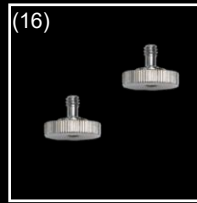
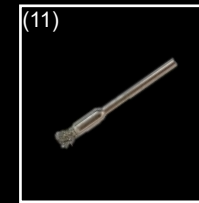
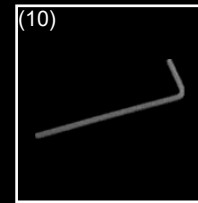
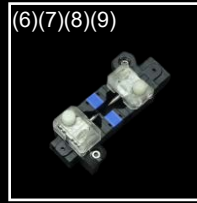
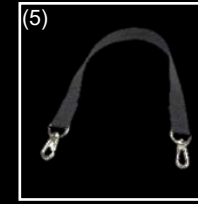
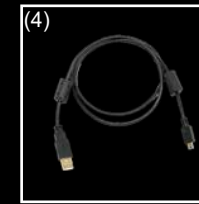
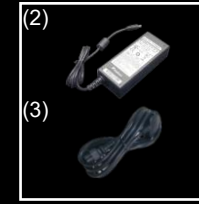
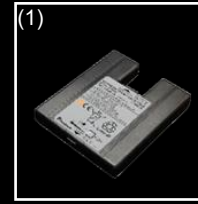


Standard Package



Item	Model	90R16	90R12
Mass Fusion Splicer	90R16	1 pc	—
	90R12	—	1 pc
(1) Battery Pack *	BTR-15	1 pc	—
(2) AC Adapter	ADC-20	1 pc	—
(3) AC Power Cord	ACC-14, 15, 16, 17 or 18	1 pc	—
(4) USB Cable	USB-01	1 pc	—
(5) Fusion Splicer Strap	ST-02	1 pc	—
(6) Electrodes, on spare V-groove	ELCT2-16B	2 pair	1pair
(7) 16 fiber V-groove, spare	VG16-01, 250 to 255μm spacing	1 pc	—
(8) 16 fiber V-groove, spare	VG16-01-200, 200 to 210μm spacing	1 pc	—
(9) 12 fiber V-groove, spare	VG12-01, 250 to 255μm spacing	—	1 pc
(10) Hexagonal Wrench	HEX-01	1 pc	—
(11) V-groove Cleaning Brush	VCB-01	1 pc	—
(12) Carrying Case	CC-39	1 pc	—
(13) Work Tray Left	WT-09L	1 pc	—
(14) Work Tray Right	WT-09R	1 pc	—
(15) Work Tray J-Plate	JP-09	1 pc	—
(16) Tripod Screw	TS-03	2 pcs	—
(17) Carrying Case Strap	ST-03	1 pc	—
(18) Alcohol Dispenser	AP-02	1 pc	—
(19) Quick Reference Guide	QRG-03-E	1 pc	—
(20) Instruction Manual	PDF file stored in Splicer RS03	—	—
Ribbon Fiber Stripper	RS03	—	1 pc
(1) Battery Pack *	BTR-12A	—	1 pc
(2) AC Adapter	ADC-09A	—	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	—	1 pc
(4) Blade Cleaning Brush	BRS-02	—	1 pc
(5) Hexagonal Wrench	HEX-01	—	1 pc
Single Fiber Stripper	SS03 or SS01	—	1 pc
Optical Fiber Cleaver	CT50	—	1 pc
(1) Fiber Scrap Collector	FDB-05	—	1 pc
(2) Fiber Setting Plate	AD-10-M24	—	1 pc
(3) Case, for cleaver	CC-37	—	1 pc
(4) Hexagonal Wrench	HEX-01	—	1 pc

* Please follow IATA regulation when shipping the battery by air.



Specifications

90R16 Specifications



Item		Specification
Fiber alignment method		Self cladding alignment with surface melting tension
Fiber count can be spliced		90R16 : Single and up to 16 fiber ribbon
Applicable fiber	Fiber type	Single mode optical fiber
	Cladding dia.	Multi mode optical fiber
Applicable coating	Fiber holder	Coating shape : Refer to options
		Cleave length : Approx.10mm
Fiber splice performance	Splice loss *1	ITU-T G.652 : Avg. 0.05dB
		ITU-T G.651 : Avg. 0.02dB
		ITU-T G.653 : Avg. 0.08dB
		ITU-T G.655 : Avg. 0.08dB
		ITU-T G.657 : Avg. 0.05dB
	Splice time *2	SM FAST mode : Avg. 17 to 18sec. SM AUTO mode : Avg. 20 to 21sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat performance	Heat time *3	40mm FP-05 mode : Avg. 38 to 40sec.
		40mm FP-04T FAST mode : Avg. 17 to 19sec.
		Single 60mm mode: Avg. 13 to 15sec.
Fiber tensile test force		Approx. 2.0N
Electrode life *4		Approx. 800 splices
Physical description	Dimensions W	Approx.170mm without projection
	Dimensions D	Approx.173mm without projection
	Dimensions H	Approx.150mm without projection
	Weight	Approx. 2.6kg including battery
Environmental condition	Temperature	Operate : -10 to 50°C
		Storage : -40 to 80°C
	Humidity	Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing
AC adaptor	Altitude	Max. 2000m
	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 6380mAh
	Capacity *5	Approx. 130 splice and heat cycles
	Temperature	Recharge : 0 to 40°C Long Term Storage : -20 to 30°C
	Battery life *6	Approx. 500 recharge cycles
Display	LCD monitor	TFT 4.9 inches with touch screen
	Magnification	Approx. 15X : 16 ribbon to 60X : single
Illumination	V-grooves	LED lamp
Interface	PC	USB2.0 Mini B type
	External LED lamp	USB2.0 A type Approx. DC5V, 500mA
	Ribbon Stripper	Mini DIN 6pin DC12V, Max. 1A
	Wireless *7	Bluetooth 4.1 LE
	Splice mode	100 splice modes
Data storage	Heat mode	30 heat modes
	Splice result	10000 splices
	Splice image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Splice mode select by fiber count analysis
		Fusion power calibration
		Wind protector : open and close
		Heater lid : open and close
		Heater clamp : open and close
Reference guide	Video and PDF file stored in splicer	
Electrode	Replaceable without tool	

90R16 Options

Item	Model	Remark
V-groove	VG12-01-200	12 fiber ribbon, 200 to 210μm spacing
	VG16-01-200	16 fiber ribbon, 200 to 210μm spacing
Fiber holder	FH-70-200	200μm coating diameter
	FH-70-250	250μm coating diameter
	FH-70-900	900μm coating diameter
	FH-70-2	2 fiber ribbon
	FH-70-4	4 fiber ribbon
	FH-70-8	8 fiber ribbon
	FH-70-10	10 fiber ribbon
	FH-70-12	12 fiber ribbon
	FH-70-16	16 fiber ribbon
	FH-70-12PC	Pitch conversion for 12 fiber ribbon
	FH-70-16PC	Pitch conversion for 16 fiber ribbon
	FH-70-12-200	12 fiber ribbon, 200 to 210μm spacing
	FH-70-16-200	16 fiber ribbon, 200 to 210μm spacing
	FH-FC-20	900μm in 2mm diameter cable
DC adapter	FH-FC-30	900μm in 3mm diameter cable
	FH-60-LT900	900μm loose buffer cable
	DCA-03	Connect AC adapter not through battery
DC power cord	DCC-20	Car cigar socket to BTR-15/DCA-03
	DCC-21	Car battery to BTR-15/DCA-03
	DCC-11	Splicer to ribbon stripper
Ribbonizing tool	FAT-04	2 to 16 fibers, 250μm diameter
Transfer Ccamp	CLAMP-DC-12	Transferring drop cable on work tray
J-Plate	JP-10	Attaching to splicer, not to work tray
	JP-10-FC	JP-10 with fiber clamps
Protection sleeve	FP-04(T)	40mm, up to 8 fiber ribbon
	FP-05	40mm, up to 12 fiber ribbon

Notes

*1 Measured with a cut-back method after splicing the same type of fibers.

*2 Measured at room temperature. The definition of splice time is from the fiber image appeared in LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

*3 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type and battery pack condition.

*4 The electrode life changes depending on the environmental conditions, fiber type and splice modes.

*5 Test condition

(1) 16 fiber ribbon : Splice and heat time : 3.5 minutes cycle with FP-05 sleeve

(2) Using the splicer power save settings, subject to our testing condition.

(3) Using a not degraded battery

(4) At room temperature

(5) Without accessories, RS03 etc., that use the power supply of the fusion splicer

The battery capacity changes when testing with different conditions from the above.

*6 The battery capacity decreases to a half after approx. 500 discharge and recharge cycles, The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.

*7 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

Specifications

90R12 Specifications



Item		Specification
Fiber alignment method		Self cladding alignment with surface melting tension
Fiber count can be spliced		90R12 : Single and up to 12 fiber ribbon
Applicable fiber	Fiber type	Single mode optical fiber
	Cladding dia.	Multi mode optical fiber Approx.125μm
Applicable coating	Fiber holder	Coating shape. : Refer to options
		Cleave length : Approx.10mm
Fiber splice performance	Splice loss *1	ITU-T G.652 : Avg. 0.05dB
		ITU-T G.651 : Avg. 0.02dB
		ITU-T G.653 : Avg. 0.08dB
		ITU-T G.655 : Avg. 0.08dB
		ITU-T G.657 : Avg. 0.05dB
Applicable protection sleeve	Splice time *2	SM FAST mode : Avg. 16 to 17sec.
		SM AUTO mode : Avg. 19 to 20sec.
Sleeve heat performance	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6.0mm before shrinking
Fiber tensile test force	Heat time *3	40mm FP-05 mode : Avg. 38 to 40sec.
		40mm FP-04T FAST mode : Avg. 17 to 19sec.
		Single 60mm mode: Avg. 13 to 15sec.
		Approx. 2.0N
Electrode life *4		Approx. 1500 splices
Physical description	Dimensions W	Approx.170mm without projection
	Dimensions D	Approx.173mm without projection
	Dimensions H	Approx.150mm without projection
	Weight	Approx. 2.6kg including battery
Environmental condition	Temperature	Operate : -10 to 50°C Storage : -40 to 80°C
	Humidity	Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing
	Altitude	Max. 3700m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 6380mAh
	Capacity *5	Approx. 165 splice and heat cycles
	Temperature	Recharge : 0 to 40°C Long Term Storage : -20 to 30°C
	Battery life *6	Approx. 500 recharge cycles
Display	LCD monitor	TFT 4.9 inches with touch screen
Illumination	Magnification	Approx. 20X : 12 ribbon to 60X : single
	V-grooves	LED lamp
Interface	PC	USB2.0 Mini B type
	External LED lamp	USB2.0 A type Approx. DC5V, 500mA
	Ribbon Stripper	Mini DIN 6pin DC12V, Max. 1A
	Wireless *7	Bluetooth 4.1 LE
	Splice mode	100 splice modes
Data storage	Heat mode	30 heat modes
	Splice result	10000 splices
	Splice image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Splice mode select by fiber count analysis
		Fusion power calibration
		Wind protector : open and close
		Heater lid : open and close
Reference guide	Heater clamp : open and close	
	Video and PDF file stored in splicer	
Electrode	Replaceable without tool	

90R12 Options

Item	Model	Remark
V-groove	VG12-01-200	12 fiber ribbon, 200 to 210μm spacing
	FH-70-200	200μm coating diameter
	FH-70-250	250μm coating diameter
	FH-70-900	900μm coating diameter
	FH-70-2	2 fiber ribbon
	FH-70-4	4 fiber ribbon
	FH-70-8	8 fiber ribbon
	FH-70-10	10 fiber ribbon
	FH-70-12	12 fiber ribbon
	FH-70-12PC	Pitch conversion for 12 fiber ribbon
	FH-70-12-200	12 fiber ribbon, 200 to 210μm spacing
	FH-FC-20	900μm in 2mm diameter cable
Fiber holder	FH-FC-30	900μm in 3mm diameter cable
	FH-60-LT900	900μm loose buffer cable
DC Adapter	DCA-03	Connect AC adapter not through battery
DC power cord	DCC-20	Car cigar socket to BTR-15/DCA-03
	DCC-21	Car battery to BTR-15/DCA-03
	DCC-11	Splicer to ribbon stripper
Ribbonizing Tool	FAT-04	2 to 16 fibers, 250μm diameter
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on work tray
J-Plate	JP-10	Attaching to splicer, not to work tray
	JP-10-FC	JP-10 with fiber clamps
Protection sleeve	FP-04(T)	40mm, up to 8 fiber ribbon
	FP-05	40mm, up to 12 fiber ribbon

Notes

*1 Measured with a cut-back method after splicing the same type of fibers.

*2 Measured at room temperature. The definition of splice time is from the fiber image appeared in LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

*3 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type and battery pack condition.

*4 The electrode life changes depending on the environmental conditions, fiber type and splice modes.

*5 Test condition

(1) 12 fiber ribbon : Splice and heat time : 2 minutes cycle with FP-05 sleeve

(2) Using the splicer power save settings, subject to our testing condition.

(3) Using a not degraded battery

(4) At room temperature

(5) Without accessories ,RS03 etc., that use the power supply of the fusion splicer

The battery capacity changes when testing with different conditions from the above.

*6 The battery capacity decreases to a half after approx. 500 discharge and recharge cycles, The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.

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Specifications



CT50 Specifications

Item		Specification	
Applicable fiber	Fiber type	Single mode optical fiber	
		Multi mode optical fiber	
	Fiber count	Single and up to 16 fiber ribbon	
	Cladding dia.	Approx. 125μm	
Applicable coating	Fiber setting plate	AD-10-M24 : Max. 900μm coating diameter	
		AD-50 : Max. 3mm coating diameter	
		AD-16A : Max. 900μm coating diameter 1 fiber + Max. 250μm coating diameter 1 fiber	
	Fiber holder	Coating shape. : Refer to splicer options	
Cleave length	Fiber setting plate	AD-10-M24 : 5 to 20mm *1	
		AD-50 *C.D. : coating diameter C.D. = 250μm or less : 5 to 20mm *1 250μm < C.D. < =900μm : 10 to 20mm 900μm < C.D. < =3mm : 14 to 20mm	
		AD-16A : 5~20mm *1	
		Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees	
	Fiber ribbon	Avg. 0.3 to 1.2 degrees	
Blade life *3		Approx. 60000 fiber cleaves	
Physical description	Dimensions W	Approx. 117mm without projection *4	
	Dimensions D	Approx. 94mm without projection *4	
	Dimensions H	Approx. 59mm without projection *4	
	Weight	Approx. 306g including battery and AD-10-M24	
Environmental condition	Temperature	Operate : -10 to 50°C	
		Storage : -40 to 80°C	
	Humidity	Operate : 0 to 95%RH non-condensing	
Storage : 0 to 95%RH non-condensing			
Battery		2 pieces of LR03, AAA dry battery	
Wireless interface *5		Bluetooth 4.1 LE	
Screw hole for tripod		1/4-20UNC	
Holding mechanism for the fiber holder		Equipped	
Other features	Blade rotation	Motorized rotation / Manual rotation dial	
	Replaceable parts	Blade / Clamp arm	

RS03 Specifications

Item		Specification	
Applicable fiber	Fiber type	Single mode optical fiber Multi mode optical fiber	
	Fiber count	Single and up to 16 fiber ribbon	
	Cladding dia.	Approx. 125μm	
	Coating dia.	200 to 400μm	
Stripping length		Max. 35mm	
Heat time *1		Approx. 3sec Approx. 5sec with Eco-mode	
Heat temperature		85 to 140 °C	
Physical description	Dimensions W	Approx.156mm without projection	
	Dimensions D	Approx.49mm without projection	
	Dimensions H	Approx.37mm without projection	
	Weight	Approx. 265g including battery	
Environmental condition	Temperature	Operate : -10 to 50°C Storage : -40 to 80°C	
		Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing	
	Humidity		
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 0.58A	
DC input		DC10 to 17V, Approx. 1A	
Battery pack	Type	Rechargeable Lithium Ion	
	Output	Approx. DC7.2V, 1840mAh	
	Capacity *2	Approx. 600 times with Eco-mode	
	Temperature	Operate : -10 to 50°C Recharge : 0 to 40°C Long Term Storage : -20 to 30°C	
Battery life *3		Approx. 500 recharge cycles	
Wireless interface *4		Bluetooth 4.1 LE	
Other features	Stripping force	Lower stripping force design	
	Automatic heat setting	Controlled from splicer or smartphone	



CT50 Options

Item	Model	Remark
Fiber Setting Plate	AD-50	Optional fiber setting plate
	AD-16A	Optional fiber setting plate
Blade	CB-08	Blade for replacement
Clamp Arm	ARM-CT50-01	Clamp arm with anvil for replacement
Fiber Scrap Collector	FDB-05	Spare scrap collector
Side cover	SC-CT50-01	Side cover instead of scrap collector
Spacer	SPA-CT08-10	Cleave length 10mm
	SPA-CT08-09	Cleave length 9mm
	SPA-CT08-08	Cleave length 8mm

Notes

- *1 When the cleave length is less than 10mm, the coating diameter should be 250μm or less. Also, a blade height adjustment is required before cleaving. The average cleave angle is worse than the specification when the cleave length is less than 10mm.
- *2 Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and ribbon fibers. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
- *3 The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.
- *4 Measured in a condition when closing the lever.
- *5 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

RS03 Options

Item	Model	Remark
Spacer	SPA-RS02-08	Coating length 8mm
DC power cord	DCC-11	Splicer to ribbon fiber stripper

Notes

- *1 Measured at room temperature. The heat time changes depending on the environmental conditions and fiber coating type.
- *2 Tested at room temperature with a not degraded battery and Eco-mode. The number of cycles changes depending on the environmental conditions, stripper settings and battery degrading condition.
- *3 The battery capacity decreases to a half after approx. 500 discharge and recharge cycles, The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.
- *4 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

Replaceable V-groove
System

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quality

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Specialty Fiber Stripper

SS110

Automatic stripping with high quality



Applicable to various size of fibers



Optional blade enables to strip various size of fibers, such as cladding 125 μ m/coating 900 μ m

Wireless communication by RFID



RFID tag equipped to the fiber holder communicate with SS110 and choose proper stripping program.

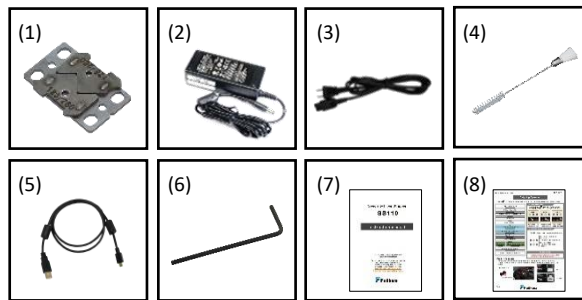
Automatic stripping operation



Automatic stripping mechanism provides both easy operation and stable stripping quality.

Standard Package

Item	Model	Qty
Specialty Fiber Stripper	SS110	1 pc
(1) Blade	SB-SS110-125-250	Equipped 1 pair
(2) AC Adapter	ADC-21	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(4) Blade Cleaning Brush	BRS-03	1 pc
(5) USB Cable	USB-01	1 pc
(6) Hexagonal Wrench	HEX-01	1 pc
(7) Instruction Manual	-	PDF file stored in Stripper
(8) Quick Reference Guide	QRG-10-E or J	1 pc



Specification

Item	Specification
Applicable fiber	Fiber type
	Silica fiber
	Fiber count
Cladding/Coating dia.	125/250 μm
	Below optical fiber is applicable with optional dedicated blade.
	80/160, 125/900, 250/400, 400/550 μm
Stripping length	Max. 35mm
Heating time	1 to 60 sec.
Heating temperature	60 to 200 °C
Stripping speed	Approx.5 to 15 mm/sec.
Physical	Dimensions W
	Approx.140mm without projection
	Dimensions D
	Approx.106mm without projection
Environmental	Dimensions H
	Approx.103mm without projection
	Weight
	Approx.900g
AC adapter	Temperature
	Operate : 0 to 40 °C Storage : -40 to 80 °C
Humidity	Operate : 0 to 95%RH non-condensing
	Storage : 0 to 95%RH non-condensing
AC adapter	Input
	AC100 to 240V, 50/60Hz, Max. 1.5A
Output	Approx. DC 19V, Max.2.1A
Connection terminals	PC
	USB2.0 Mini B type
Ground point	Applicable by M3 size truss screw.
Wireless communication	RFID
Compliant with ISO 15693	
Other features	Heating temperature, Heating time, Stripping length, Stripping speed are controllable *
	Heater height adjustable mechanism achieves high quality stripping
	Optional blades enable stripping various diameter optical fiber
	Auto select of stripping mode by fiber holder with RFID tag
Software for PC	Firmware update via internet
	Stripping parameter setting, upload and download

Options

Item	Model	Remark
Blade	SB-SS110-80-160	Blade for 80μm Cladding Diameter /160μm Coating Diameter
	SB-SS110-125-250	Blade for 125μm Cladding Diameter/250μm Coating Diameter
	SB-SS110-125-900	Blade for 125μm Cladding Diameter/900μm Coating Diameter
	SB-SS110-250-400	Blade for 250μm Cladding Diameter/400μm Coating Diameter
	SB-SS110-400-550	Blade for 400μm Cladding Diameter/550μm Coating Diameter
Holder Adapter Plate	AD-SS110-FH70	Fiber Holder Adapter for FH-70
Fiber Holder	FH110-60	60μm Coating Diameter
	FH110-100	100μm Coating Diameter
	FH110-125	125μm Coating Diameter
	FH110-150	150μm Coating Diameter
	FH110-180	180μm Coating Diameter
	FH110-210	210μm Coating Diameter
	FH110-250	250μm Coating Diameter
	FH110-300	300μm Coating Diameter
	FH110-350	350μm Coating Diameter
	FH110-400	400μm Coating Diameter
	FH110-500	500μm Coating Diameter
	FH110-600	600μm Coating Diameter
	FH110-700	700μm Coating Diameter
	FH110-800	800μm Coating Diameter
	FH110-900	900μm Coating Diameter
	FH110-1000	1000μm Coating Diameter
	FH110-1100	1100μm Coating Diameter
	FH110-1200	1200μm Coating Diameter
	FH110-1300	1300μm Coating Diameter
	FH110-1400	1400μm Coating Diameter
	FH110-1500	1500μm Coating Diameter
	FH110-1600	1600μm Coating Diameter
	FH110-1700	1700μm Coating Diameter
	FH110-1800	1800μm Coating Diameter
	FH110-1900	1900μm Coating Diameter
	FH110-2000	2000μm Coating Diameter

Note

* Each stripping parameters can be set by PC software



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Advanced Optical Fiber Cleaver

CT110/111

Automatic cleaving with high quality



CT110

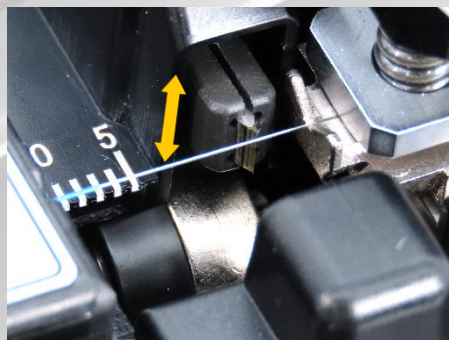
CT111
(with Angled-Cleaving Function)

Cleaving tension automatic setting



Automatic cleaving tension function can tension and can save your optimization.

**Blade position
automatic changing**



A new blade mechanism controls blade height automatically. It keeps good blade condition to obtain stable cleaving quality.

Wireless communication By RFID

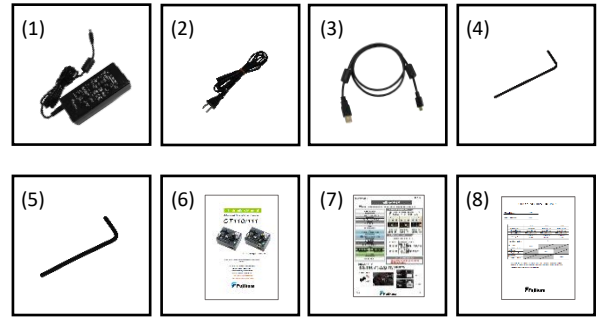


***RFID tag equipped to the fiber holder
communicate with CT110/CT111 and
choose proper cleaving program(*1)***

(*1) It is necessary to set the fiber holder to be used and the cleaving program to the in advance using the attached PC software.

Standard Package

Item	Model	Qty
Advanced Optical Fiber Cleaver	CT110 , CT111	1 pc
(1) AC Adapter	ADC-21	1 pc
(2) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(3) USB Cable	USB-01	1 pc
(4) Hexagonal Wrench	HEX-01	1 pc
(5) Hexagonal Wrench	HEX-02	1 pc
(6) Instruction Manual	-	PDF file stored in Cleaver
(7) Quick Reference Guide	QRG-11-E or J	1 pc
(8) Cleave test report	CR-CT110	1 pc



Specifications

Item	Specification	
Model	CT110	CT111
Applicable fiber	Fiber type	Silica fiber
	Fiber count	Single fiber
	Cladding dia.	80 to 250µm
	Coating dia.	81 to 2,000µm
Applicable fiber holder	FH-100 series / FH110 series / FH-70 series *1	
Capability of setting range for tension*2	0 to 900gf	
Total fiber length*3	Approx.11~44mm	
Cleave angle *4	Avg 0.3°, Cladding dia. 125µm	
Fiber twister	-	Equipped
Angled Cleaving	-	Approx. 0° to 15° *5
Blade life	Approx.200,000 fiber Cleaves at Cladding dia. 250µm *6	
Physical description	Dimensions W	Approx. 140mm without projection
	Dimensions D	Approx. 106mm without projection
	Dimensions H	Approx. 103.5mm without projection
	Weight	Approx. 810g without battery / Approx. 850g without battery
Power supply	AC adaptor	Input : AC100 to 240V, 50/60Hz, Max. 1.5A Output : Approx. DC 19V, Max. 2.1A
	Battery	4 pieces of dry battery (ANSI AA / IEC LR6) Number of cleaving with battery: Approx. 500 fiber cleaves with standard 125µm at 25°C.
Interface	PC	USB2.0 Mini B type *7
	Ground point	Applicable by M3 size truss screw.
Wireless communication	RFID	Compliant with ISO 15693 *7
Firmware	Cleave mode	10 Cleave modes can be saved in the device.
		3 Cleave mode can be selected by the switch in the device.
Environmental condition	Temperature	Operate : 0 to 40 °C Storage : -40 to 80 °C
	Humidity	Operate : 0 to 95%RH non-condensing
		Storage : 0 to 95%RH non-condensing
Other Features	Automatic functions	Auto cleave mode select by RFID tag
		Motorized blade position change
		Motorized auto tension setting
	Coating adjuster	Coating position adjustment mechanism after cleaving *8
	Software for PC	Firmware update via internet
		Cleaving parameter upload and download

Options

Item	Model	Remark
Blade for Replacement	CB-06A	Blade for Replacement
Holder Adapter Plate	AD-CT110-FH70	Fiber Holder Adapter for FH-70
Fiber Holder	FH110-60	60µm Coating Diameter
	FH110-100	100µm Coating Diameter
	FH110-125	125µm Coating Diameter
	FH110-150	150µm Coating Diameter
	FH110-180	180µm Coating Diameter
	FH110-210	210µm Coating Diameter
	FH110-250	250µm Coating Diameter
	FH110-300	300µm Coating Diameter
	FH110-350	350µm Coating Diameter
	FH110-400	400µm Coating Diameter
	FH110-500	500µm Coating Diameter
	FH110-600	600µm Coating Diameter
	FH110-700	700µm Coating Diameter
	FH110-800	800µm Coating Diameter
	FH110-900	900µm Coating Diameter
	FH110-1000	1000µm Coating Diameter
	FH110-1100	1100µm Coating Diameter
	FH110-1200	1200µm Coating Diameter
	FH110-1300	1300µm Coating Diameter
	FH110-1400	1400µm Coating Diameter
	FH110-1500	1500µm Coating Diameter
	FH110-1600	1600µm Coating Diameter
	FH110-1700	1700µm Coating Diameter
	FH110-1800	1800µm Coating Diameter
	FH110-1900	1900µm Coating Diameter
	FH110-2000	2000µm Coating Diameter

Note

- *1 Holder Adapter Plate (AD-CT110-FH70) is necessary to use FH-70 series.
- *2 There are some cases that the set tension is different from the actual tension.
- *3 Cleave length means distance between end surface of the fiber holder edge and end surface of the cleaved fiber.
- *4 Measured with an interferometer at room temperature, not with a splicer.
The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
- *5 Maximum cleaved angle changes depending on the fiber type cleaved and clamp position.
- *6 Support 10,000 cleaves per position at cladding dia. 250µm.
20pos. X 10,000 cleaves = 200,000 cleaves
The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.
- *7 Unavailable with battery.
- *8 Supported Cladding dia.is 81 to 900µm.



Please visit our web site!

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Large Diameter Optical Fiber Cleaver

CT114 / CT115 / CT116

***Better Cleaving Quality
And Better Usability***



CT115

Automated clamp force optimization



CT116

Angled cleaving capability

Automated clamp force optimization



CT114

Manual clamping system

Features

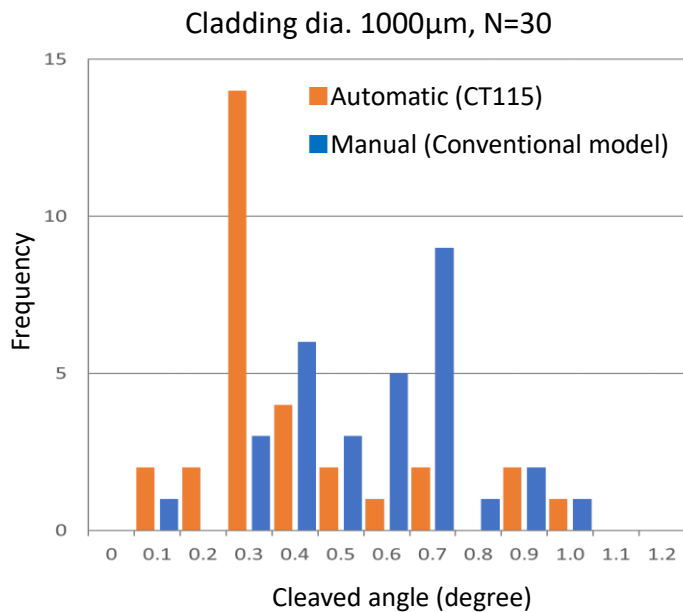
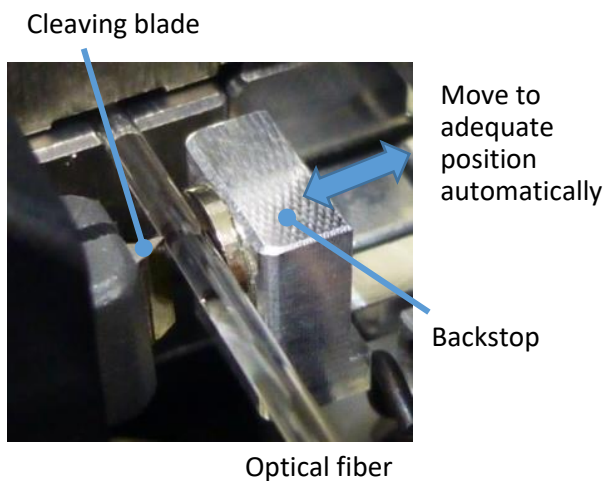
Auto Backstop (for CT115/CT116)

The Backstop helps to provides better cleave quality especially for large-diameter fibers and for sub-critical tension fibers.

Micron order positioning is necessary to obtain stable cleaving. The previous model positioned the micrometer by hand, usually with the aid of a microscope.

The CT115 and CT116 are equipped with the auto backstop function. It detects the backstop position and moves to the correct position automatically.

It provides both stable cleaving and shortened the cleaving operation time.



Blade Management

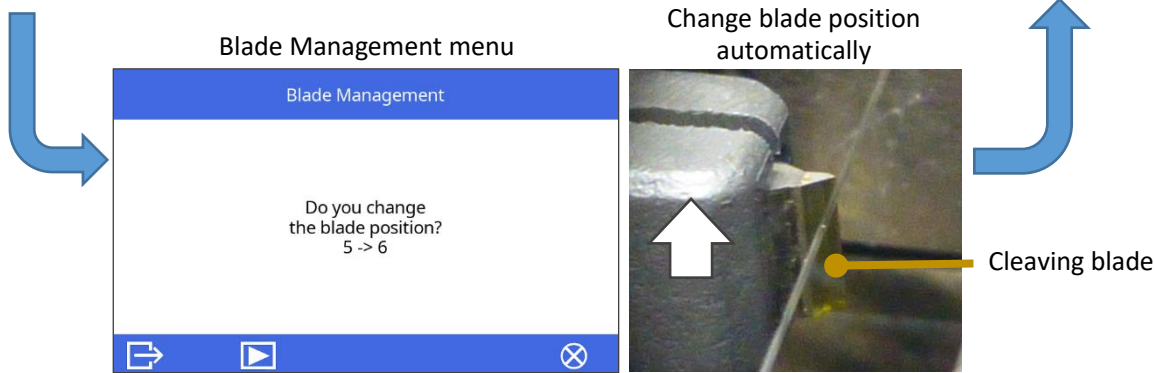
The automatic cleaving blade position always keep using good quality blade and it provides stable cleaving quality. Since you do not need to worry about blade condition anymore.

It's time to rotate blade

Blade Management										
Blade Position										
No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	
9723	11054	9480	9538	12376	0	0	0	0	0	
No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	
0	0	0	0	0	0	0	0	0	0	
Cleave Count Of Blade : 52171					Cleave Count Of Machine : 52171					

Next blade position

Blade Management										
Blade Position										
No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	
9723	11054	9480	9538	12376	0	0	0	0	0	
No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	
0	0	0	0	0	0	0	0	0	0	
Cleave Count Of Blade : 52171					Cleave Count Of Machine : 52171					

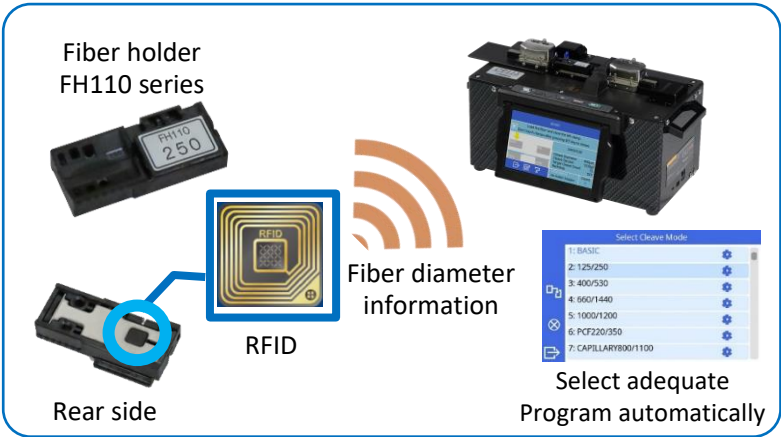


Wireless communication function

CT115 series is equipped with an RFID wireless communication function to newly designed FH110 series fiber holders.

The FH110 RFID includes the holder size information. The CT115 series reads it and selects a pre-assigned program.

It prevents selecting the wrong cleaving program.



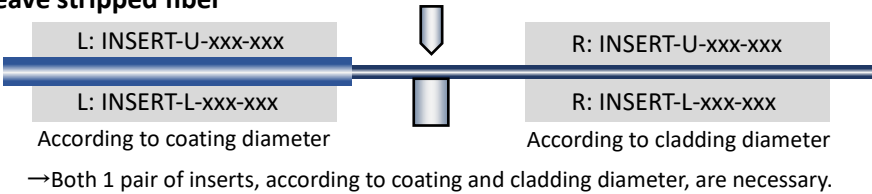
INSERT

Inserts are selected according to fiber coating diameter and cladding diameter. Therefore, the standard configuration does not include inserts. Please refer to the below table and purchase inserts separately.

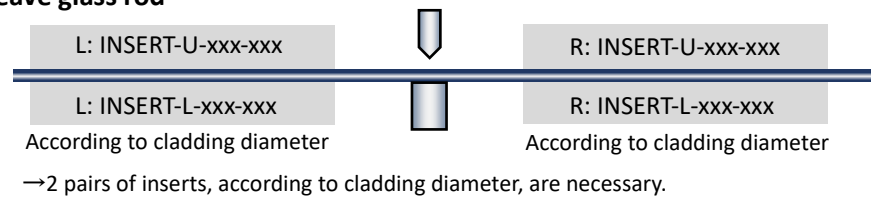
UPPER INSERT		INSERT-U-80-400		INSERT-U-500-750 *1		INSERT-U-1000-1250 *1		INSERT-U-1500-1750 *1		INSERT-U-2000-2250 *1		INSERT-U-2500-3000 *1	
LOWER INSERT		Size 500	Size 750	Size 1000	Size 1250	Size 1500	Size 1750	Size 2000	Size 2250	Size 2500	Size 3000		
INSERT-L-80		54-107											
INSERT-L-125		84-167											
INSERT-L-160		105-213											
INSERT-L-250		167-333											
INSERT-L-400		267-533	400-533										
INSERT-L-500-750 *1	Size 500	334-667	467-667	550-667									
	Size 750		634-868	717-1000	787-1000								
INSERT-L-1000-1250 *1	Size 1000			884-1118	954-1188	1037-1272							
	Size 1250				1120-1355	1204-1438	1287-1522						
INSERT-L-1500-1750 *1	Size 1500					1370-1605	1454-1688	1537-1772					
	Size 1750						1620-1855	1704-1938	1780-2015				
INSERT-L-2000-2250 *1	Size 2000							1870-2105	1947-2288	2030-2265			
	Size 2250								2114-2348	2197-2432	2280-2515		
INSERT-L-2500-3000 *1	Size 2500									2364-2598	2447-2682	2614-2848	
	Size 3000										2780-3015	2947-3182	

*1: Each side of this insert is equipped with a groove that is marked with the size of the fiber diameter on the table.

Case 1: To cleave stripped fiber



Case 2: To cleave glass rod



Below URL and right QR shows the detail how to select insert.

https://www.fusionsplicer.fujikura.com/wp-content/uploads/2023/05/SP_CT115_E_0027.jpg



Standard Package

Item	Model	Qty
Large Diameter Optical Fiber Cleaver	CT114, CT115, CT116	1 pc
(1) AC Adapter	ADC-21	1 pc
(2) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(3) USB Cable	USB-01	1 pc
(4) Instruction Manual	—	PDF file stored in Cleaver
(5) Technical Reference	TR-CT115-E	1 pc
(6) Fiber Holder Adapter	FHA-CT115	1 pc
(7) Fiber Height Checking Mirror	CM-CT115	1 pc
(8) Hexagonal Wrench	HEX-01	1 pc
(9) Height Adjusting Spacer 30μm	SPA-CT105-30	3 pcs
(10) Height Adjusting Spacer 50μm	SPA-CT105-50	3 pcs
(11) Height Adjusting Spacer 100μm	SPA-CT105-100	3 pcs
(12) Screw for Insert	SCREW-CT-01	1 set (15 pcs)
(13) Cleave test report	CR-CT115	1 pc

Specifications

Item		CT114		CT115	CT116
Applicable fiber	Fiber type	Silica fiber			
	Fiber count	Single fiber			
	Cladding dia.	80 to 660μm		80 to 1250μm	
	Coating dia.	81 to 3182μm			
Clamping force adjustment		Under cladding dia 400μm : Adjustment with magnet cladding dia. 400μm to 660μm : Adjustment with magnet and screw *1		Auto adjustment with motor	
Backstop adjustment		Manual		Auto adjustment with motor	
Capability of setting range for tension *2		0 to 3,000gf		0 to 10,000gf	
Capability of setting range for cleave length *3		30 to 75 mm			
Cleave angle *4	Cladding dia. 125μm	Avg. 0.2°			
	Cladding dia. 400μm	Avg. 0.3°			
Cleave angle *5	Cladding dia. 660μm	Avg. 0.4°		—	
	Cladding dia. 1000μm	—		Avg. 1.0°	
Fiber twister		None			Equipped
Angled Cleave angle		None			Approx. 0° to 15° *6
Capability of setting range for rotation angle		None			0° to 360°
Blade life		Approx. 200,000 fiber cleaves at cladding dia. 250μm and 400μm *7			
Physical description	Dimensions W	Approx. 240mm without projection	Approx. 240mm without projection	Approx. 240mm without projection	
	Dimensions D	Approx. 133mm without projection	Approx. 133mm without projection	Approx. 133mm without projection	
	Dimensions H	Approx. 142mm without projection	Approx. 142mm without projection	Approx. 151mm without projection	
	Weight	Approx. 3.6kg without inserts and with fiber holder adapter	Approx. 3.9kg without inserts and with fiber holder adapter	Approx. 4.2kg without inserts and with fiber holder adapter	
Environmental condition	Temperature	Operate: 0 to 40 °C, Storage: -40 to 80 °C			
	Humidity	Operate: 0 to 95%RH non-condensing, Storage: 0 to 95%RH non-condensing			
AC adapter	Input	AC100 to 240V, 50/60Hz, Max 1.5A			
	Output	Approx. DC19V, Max 2.1A			
Display	LCD monitor	TFT 4.95 inches with touch screen			
Interface	PC	USB2.0 Mini B type			
	Ground point	Applicable by M3 size truss screw.			
Wireless communication	RFID	Compliant with ISO 15693			
Data storage	Cleave mode	100 cleave modes			
	Cleave result	10000 cleaves			
Other features	Automatic functions	Auto cleave mode select by RFID tag			
		—		Auto backstop adjustment	
		Motorized blade position change			
		Auto tension select			
	Software for PC	—		Auto clamping force adjustment	
		Firmware update via internet			
		Cleaing parameter upload and download			

Note

*1 Clamp lid screw may be necessary depending on the fiber type when it cleaves < 400 μm.

*2 There are some cases that the set tension is different from the actual tension.

*3 Cleave length means distance between end surface of the left side clamp and end surface of the cleaved fiber.

*4 Measured with an interferometer at room temperature, not with a splicer. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.

*5 Measured with a splicer (FSM-100P+) at room temperature. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.

*6 Maximum cleaved angle changes depending on the fiber type cleaved and clamp position.

*7 Support 10,000 cleaves per position at cladding dia. 250μm and 400μm.

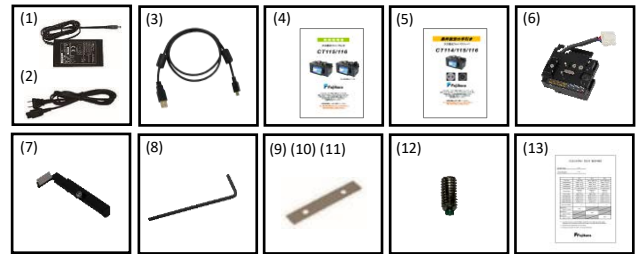
20pos. X 10,000 cleaves = 200,000 cleaves

The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.



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Options

Item	Model	Remark
Blade for Replacement	CB-06A	Blade for Replacement
Upper insert*1	INSERT-U-80-400	54 to 667μm
	INSERT-U-500-750	500 side: 400 to 868μm 750 side: 550 to 1118μm
	INSERT-U-1000-1250	1000 side: 787 to 1355μm 1250 side: 1037 to 1605μm
	INSERT-U-1500-1750	1500 side: 1287 to 1855μm 1750 side: 1537 to 2105μm
	INSERT-U-2000-2250	2000 side: 1780 to 2348μm 2250 side: 2030 to 2598μm
	INSERT-U-2500-3000	2500 side: 2280 to 3015μm 3000 side: 2614 to 3182μm
	INSERT-L-80	54 to 107μm
	INSERT-L-125	84 to 167μm
	INSERT-L-160	107 to 213μm
	INSERT-L-250	167 to 333μm
Lower Insert*1	INSERT-L-400	267 to 533μm
	INSERT-L-500-750	500 side: 334 to 667μm 750 side: 634 to 1000μm
	INSERT-L-1000-1250	1000 side: 884 to 1272μm 1250 side: 1120 to 1522μm
	INSERT-L-1500-1750	1500 side: 1370 to 1772μm 1750 side: 1620 to 2015μm
	INSERT-L-2000-2250	2000 side: 1870 to 2265μm 2250 side: 2114 to 2515μm
	INSERT-L-2500-3000	2500 side: 2364 to 2848μm 3000 side: 2780 to 3182μm
	INSERT-L-80 : 2 pcs	
	INSERT-L-125 : 2 pcs	
	INSERT-L-160 : 2 pcs	
	INSERT-L-250 : 2 pcs	
Insert Set 80-1750 μm*1	INSERT-SET-80-1750	INSERT-L-400 : 2 pcs INSERT-L-500-750 : 2 pcs INSERT-L-1000-1250 : 2 pcs INSERT-L-1500-1750 : 2 pcs INSERT-U-80-400 : 2 pcs INSERT-U-500-750 : 2 pcs INSERT-U-1000-1250 : 2 pcs INSERT-U-1500-1750 : 2 pcs
Height Adjusting Spacer, 10 pcs. Pack	SPA-CT-105-30-10SET	Height Adjusting 30μm
	SPA-CT-105-50-10SET	Height Adjusting 50μm
Fiber Holder	SPA-CT-105-100-10SET	Height Adjusting 100μm
	FH110-60	60μm Coating Diameter
	FH110-100	100μm Coating Diameter
	FH110-125	125μm Coating Diameter
	FH110-150	150μm Coating Diameter
	FH110-180	180μm Coating Diameter
	FH110-210	210μm Coating Diameter
	FH110-250	250μm Coating Diameter
	FH110-300	300μm Coating Diameter
	FH110-350	350μm Coating Diameter
	FH110-400	400μm Coating Diameter
	FH110-500	500μm Coating Diameter
	FH110-600	600μm Coating Diameter
	FH110-700	700μm Coating Diameter
	FH110-800	800μm Coating Diameter
	FH110-900	900μm Coating Diameter
	FH110-1000	1000μm Coating Diameter
	FH110-1100	1100μm Coating Diameter
	FH110-1200	1200μm Coating Diameter
	FH110-1300	1300μm Coating Diameter
	FH110-1400	1400μm Coating Diameter
	FH110-1500	1500μm Coating Diameter
	FH110-1600	1600μm Coating Diameter
	FH110-1700	1700μm Coating Diameter
	FH110-1800	1800μm Coating Diameter
	FH110-1900	1900μm Coating Diameter
	FH110-2000	2000μm Coating Diameter

Note

*1 Depending on the coating material and coating structure, inserts other than the recommended inserts may be required.

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91310-2309-0130-03

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Optical Fiber Recoater

FSR115 / FSR116 / FSR117

**Faster, More Accurately,
More user-friendly.**



FSR116

- Recoating
- Proof test function up to 2kgf



FSR117

- Recoating
- Proof test function up to 10kgf



FSR115

- Recoating
- without Proof test function

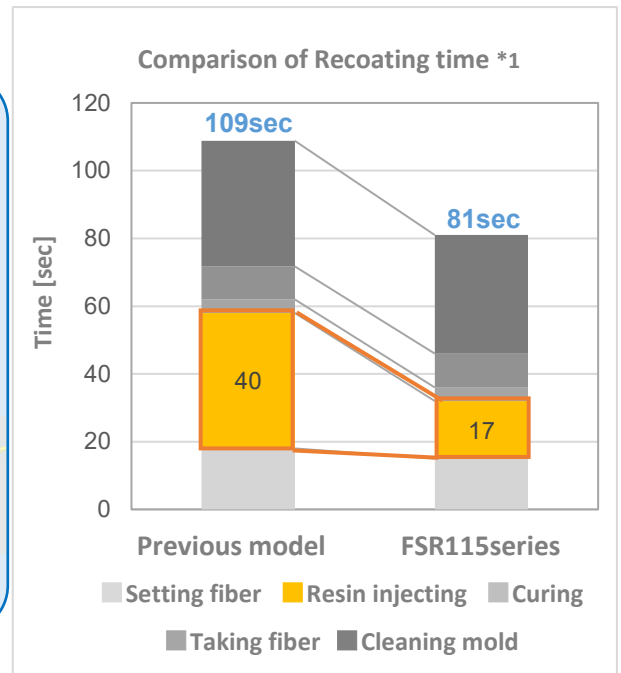
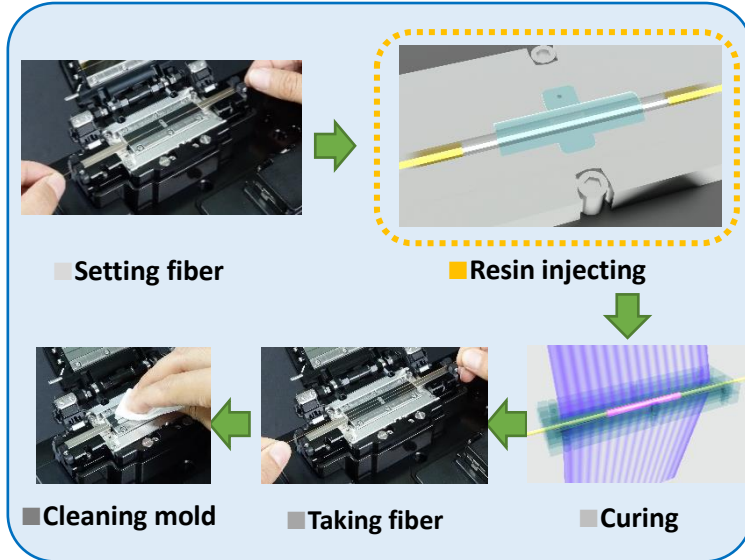
Features

Faster

Shortened UV curing resin injection time

New designed pump provides shorter UV resin injection time. It also provides 25% shorter total recoating time than previous model.

How to recoat

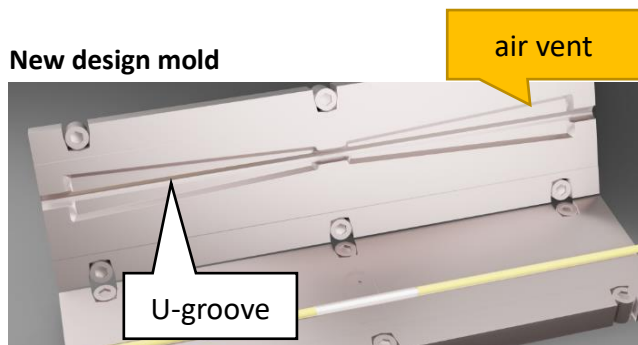


More accurate

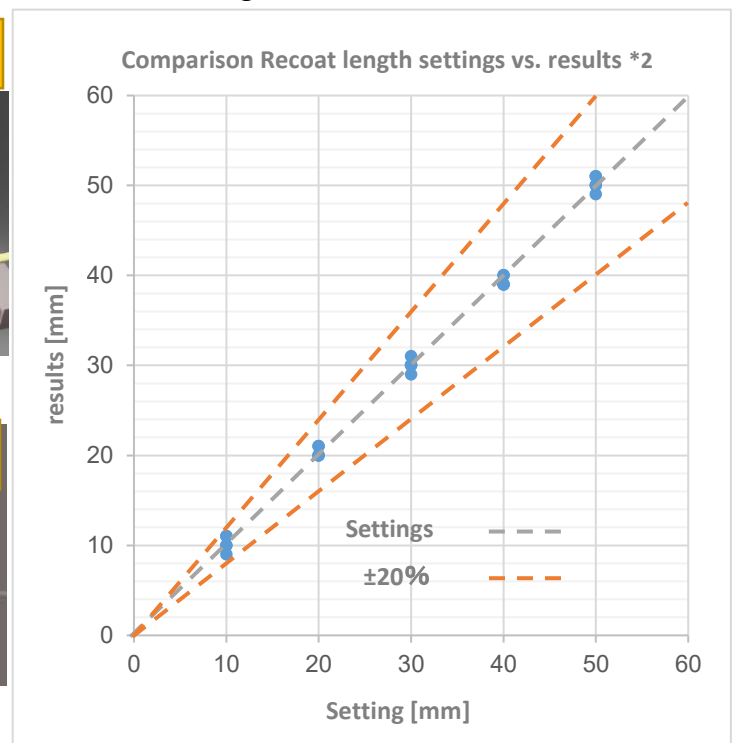
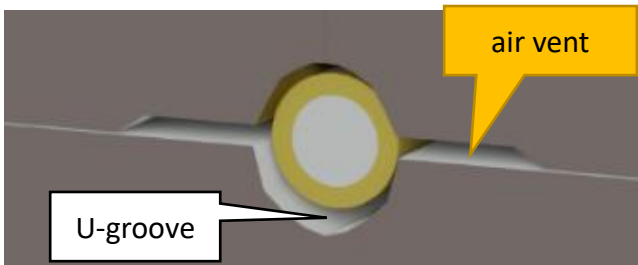
Improved recoating length repeatability

The recoat mold has slight steps on the U-groove to provide an air vent. It helps to improve the recoating length repeatability, as well as the ability to reach a max. 50mm length.

New design mold



Cross section



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

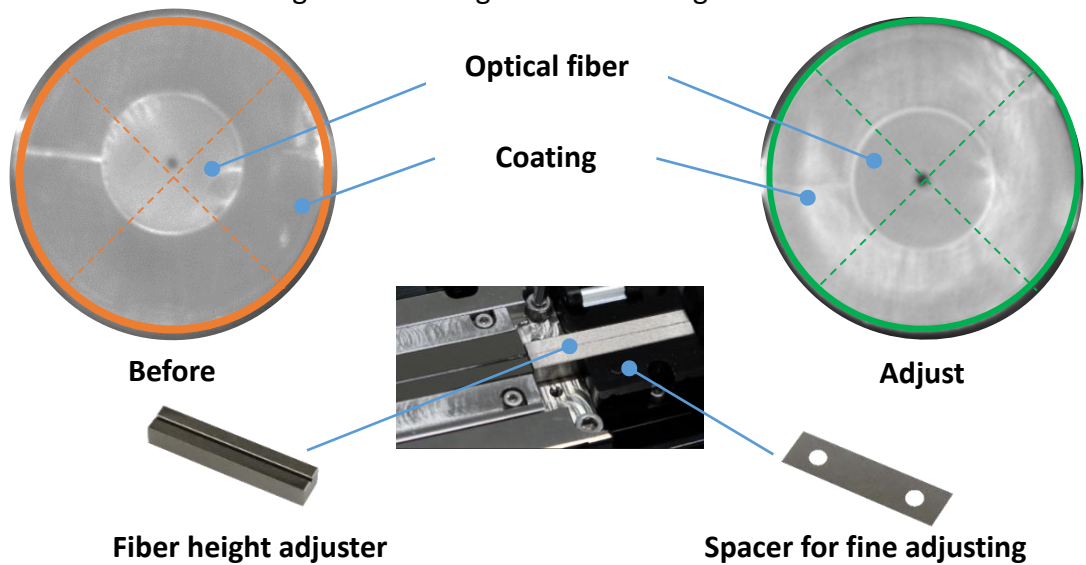
*2: The table does not guarantee the recoat length accuracy.
Test condition: (1) UV recoat Resin: Japan Fine Coatings Co., Ltd. 950Y200 (2) Recoat diameter: 280μm (3) Recoat Length: 10-50mm (4) Fiber: Clad Diameter 125μm/Transparent UV 250μm Coating Diameter, Coating Stripping length 60mm (5) Environmental Condition: 25°C

More user friendly

Fiber and recoating centering adjustment is now possible by the user

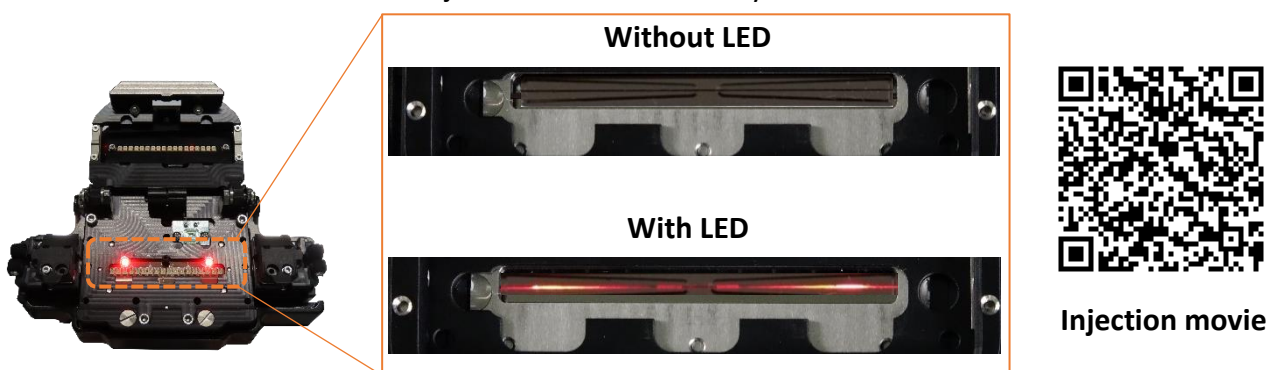
The Fiber height adjuster enables the adjustment of fiber diameter centering by setting the fiber to be centered in the mold.

The spacers allow for fine tuning based on original fiber coating variations.



Clear observation of resin injection

LEDs under the mold shows the injected resin more clearly.



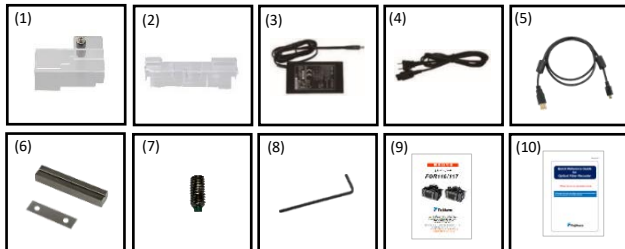
Recoat mode suggestion function

The new molds are equipped with RFID tags on the bottom of the mold. The FSR115 series scan the RFID and suggest suitable programs according to the RFID data. This improves our customers efficiency when changing molds.



Standard Package

Description	Model No.	Qty
Optical Fiber Recoater	FSR115 FSR116 FSR117	1 pc
(1) Fiber Protection Cover	PC-02	1 pc
(2) Fiber Protection Cover	PC-03	1 pc
(3) AC Adapter	ADC-21	1 pc
(4) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(5) USB Cable	USB-01	1 pc
(6) Fiber Height adjust spacer set	SPA-FSR115-SET	1 set
(7) Setscrew for Fiber Height Adjuster	—	1 set (5 pcs)
(8) Hexagonal Wrench	HEX-04	1 pc
(9) Instruction Manual	—	PDF file stored in Recoater
(10) Quick Reference Guide	QRG-09-E	1 pc



Options

Item	Model	Remark
Recoat Mold for 195μm	FSR115-MOLD-195	Approx. φ195 μm, 50 mm *1
Recoat Mold for 255μm	FSR115-MOLD-255	Approx. φ255 μm, 50 mm *1
Recoat Mold for 280μm	FSR115-MOLD-280	Approx. φ280 μm, 50 mm *1
Recoat Mold for 320μm	FSR115-MOLD-320	Approx. φ320 μm, 50 mm *1
Recoat Mold for 450μm	FSR115-MOLD-450	Approx. φ450 μm, 50 mm *1
Recoat Mold for 600μm	FSR115-MOLD-600	Approx. φ600 μm, 50 mm *1
Recoat Mold for 670μm	FSR115-MOLD-670	Approx. φ670 μm, 50 mm *1
Recoat Mold for 850μm	FSR115-MOLD-850	Approx. φ850 μm, 50 mm *1
Recoat Mold for 1000μm	FSR115-MOLD-1000	Approx. φ1000 μm, 50 mm *1
Fiber Height Adjuster	FSR115-HADJ-100	φ90μm to φ110μm *2
	FSR115-HADJ-125	φ110μm to φ140μm *2
	FSR115-HADJ-160	φ140μm to φ180μm *2
	FSR115-HADJ-200	φ180μm to φ225μm *2
	FSR115-HADJ-250	φ225μm to φ275μm *2
	FSR115-HADJ-300	φ250μm to φ350μm *2
	FSR115-HADJ-400	φ350μm to φ450μm *2
	FSR115-HADJ-500	φ450μm to φ550μm *2
	FSR115-HADJ-600	φ540μm to φ660μm *2
	FSR115-HADJ-750	φ660μm to φ810μm *2
	FSR115-HADJ-900	φ810μm to φ970μm *2
Force Gauge Adapter	FGA-02	For proof force calibration. Please purchase the Force Gauge that manufactured by Nidec-Shimpo Ltd., FGP-20.
Bottle	FSR-05-BTL-01	Bottle for UV curing resin
Setscrew for Fiber Height Adjuster	SCREW-CT-01	1 set (15pcs)
Fiber Height adjust spacer set	SPA-FSR115-SET	1 set

Notes

*1 Recoat diameter, maximum recoat length

*2 Coating diameter

Specifications

Item		FSR115	FSR116	FSR117
Applicable Optical fiber		Single fiber		
Applicable Fiber Coating Diameter		90μm to 970μm		
Recoat Mold		Quartz glass mold		
Recoat Diameter		Approx.195μm, Approx.255μm, Approx.280μm, Approx.320μm, Approx.450μm, Approx.600μm, Approx.670μm, Approx.850μm and Approx.1,000μm		
Recoat Length		4mm to 50mm *1 Recoat Length accuracy±20% *2		
Applicable UV curing resin		Japan Fine Coatings Co., Ltd. 950Y200 and Luvantix AMD Ltd. PC-373LD *3		
UV curing resin supply system		A built-in pump supplies UV curing resin to the recoat mold from a replaceable built-in bottle. *4		
UV curing resin injection time		950Y200 : Approx. 17seconds *2 PC-373LD : Approx. 20seconds *2		
Lamps for UV curing resin		UV light sources are placed on top and bottom. Individual control of light emitting position, intensity and time is possible.		
UV Curing time		950Y200 : Approx. 4seconds *2 PC-373LD: Approx. 10seconds *2		
Proof Test	Proof mechanism	None	Equipped	Equipped
	Fiber Clamp method	—	Flat clamp type	Mandrel clamp type
	Settable Proof Force range	—	0.2 to 2.0kgf	0.2 to 10.0kgf
Physical description	Dimensions W	Approx. 252mm without projection	Approx. 252mm without projection	Approx. 252mm without projection
	Dimensions D	Approx. 135mm without projection	Approx. 175mm without projection	Approx. 175mm without projection
	Dimensions H	Approx. 169mm without projection	Approx. 169mm without projection	Approx. 169mm without projection
	Weight	Approx. 3.3Kg including recoat Mold and Fiber Height Adjuster	Approx. 4.8Kg including recoat Mold and Fiber Height Adjuster	Approx. 5.0Kg including recoat Mold and Fiber Height Adjuster
Environmental condition	Temperature	Operate : 10 to 30 °C, Storage : -40 to 80 °C		
	Humidity	Operate : 0 to 95%RH non-condensing,		

Notes

*1 The recoat length may not achieve to the setting value, depending on the combination of recoat diameter and fiber 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: 280μm

(3) Recoat Length: 20mm

(4) Fiber : Clad Diameter
125μm/Transparent UV 250μm Coating Diameter, Coating Stripping length 16mm

(5) Environmental 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 that manufactured by Nidec-Shimpo Co., Ltd. are necessary



Please visit our web site!

<https://www.optic-product.fujikura.com/>

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