R&D, Factory uses

Splicers	Core Alignment Fusion Splicer 90S+ 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

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan

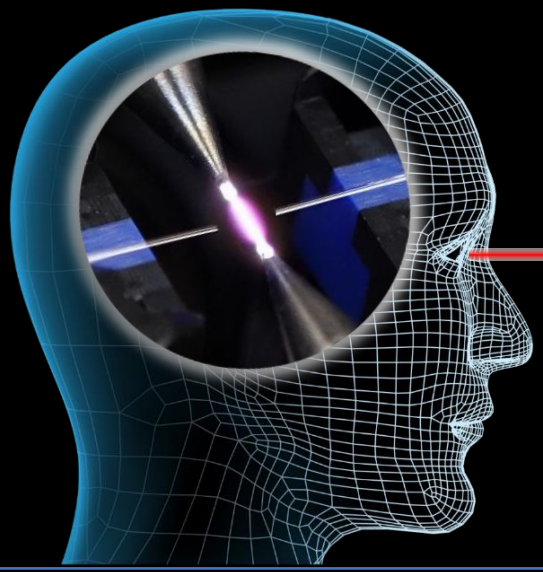
Core Alignment Fusion splicer 90S+ kit

ACTIVE FUSION

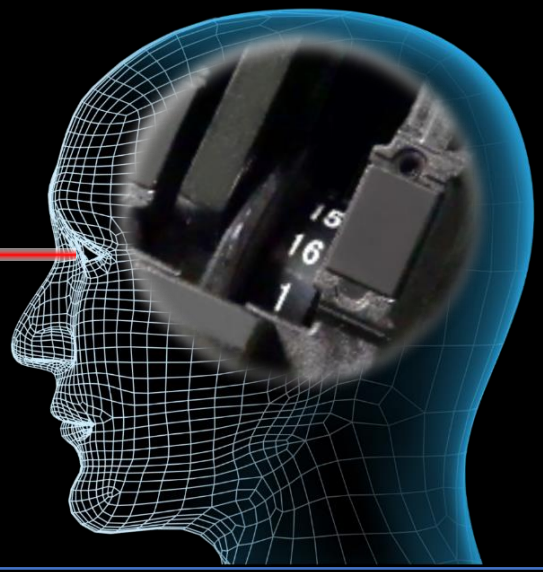
CONTROL TECHNOLOGY

ACTIVE BLADE

MANAGEMENT TECHNOLOGY



Enhanced Splice Quality



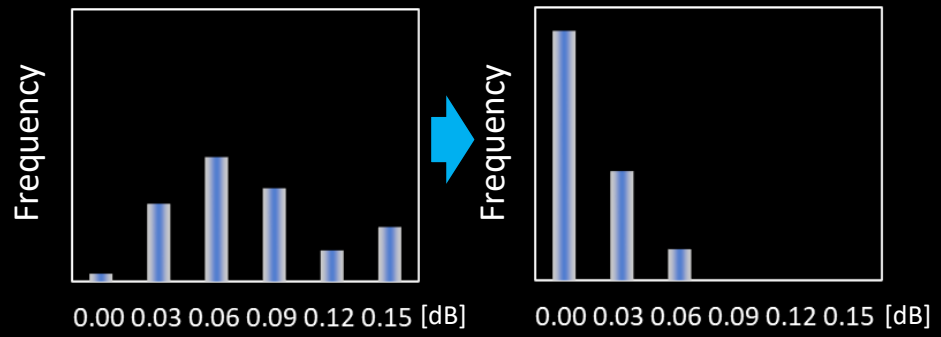
Fujikura

Active Fusion Control Technology

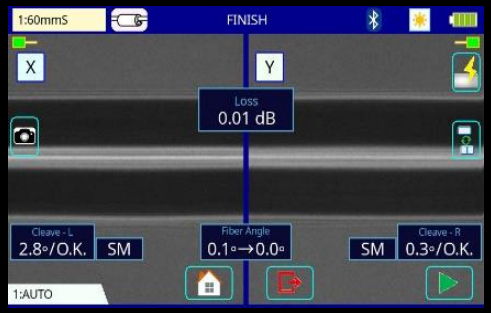
ACTIVE FUSION
CONTROL TECHNOLOGY

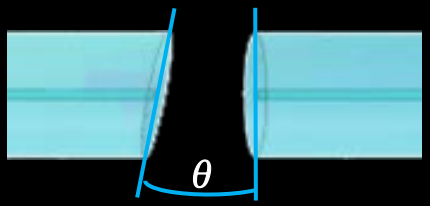
1. Active Fusion control by cleave condition

One of main causes of high splice loss is bad cleave end face. The 90S+ analyzes the condition of both L and R cleave end faces and performs optimal fusion control. This advanced technology improves splice loss significantly and reduces the risk of re-installation.



Splice loss with large cleave angle : 3 < θ < 5 degree

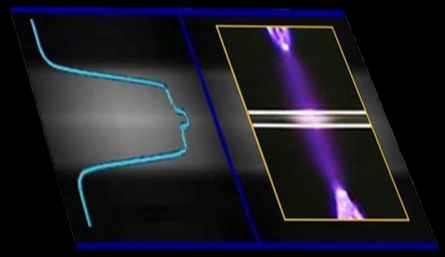


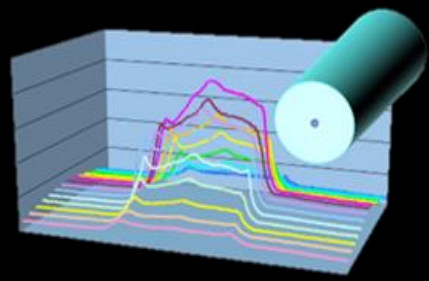


*G.652 splicing result measured with a cut-back method. The splicing result changes depending on the fiber type and fiber characteristics.

2. Active Fusion control by fiber brightness

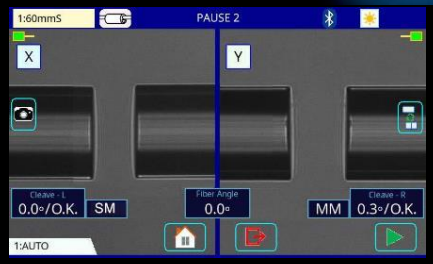
Fusion is easily affected by changes in the environment. The 90S+ uses real-time fusion parameter control by analyzing the fiber's brightness intensity during fusion. It contributes to stable, reduced splice loss.



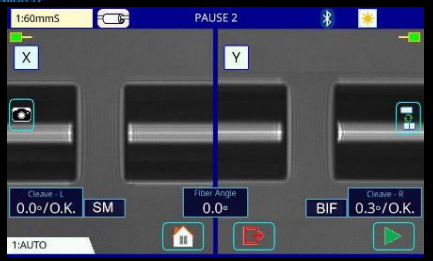


3. Active Fusion control by fiber discrimination

Adequate splice parameters may differ depending on fiber type. The 90S+ automatically applies the optimum splice parameters depending on the fiber type.



Left:G.652-Right:G.651



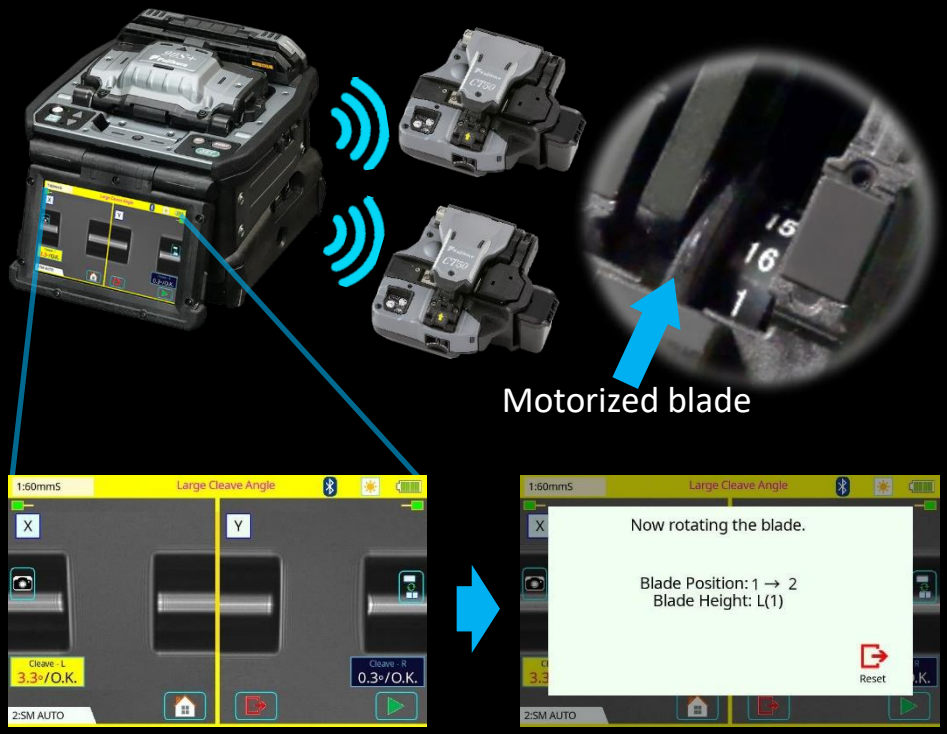
Left:G.652-Right:G.657

Active Blade Management Technology

ACTIVE BLADE
MANAGEMENT TECHNOLOGY

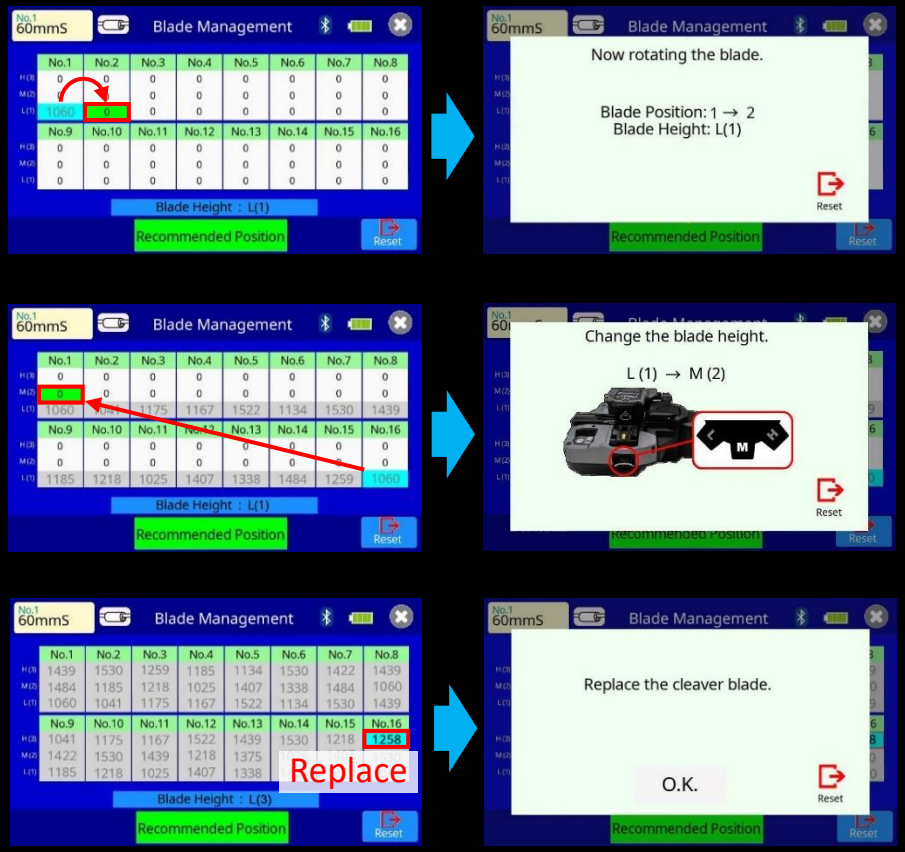
1. Active Blade rotation by motor

The 90S+ and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver blade rotation when the 90S+ judges the blade is worn. The 90S+ can connect to two CT50s simultaneously.



2. Active Blade life management

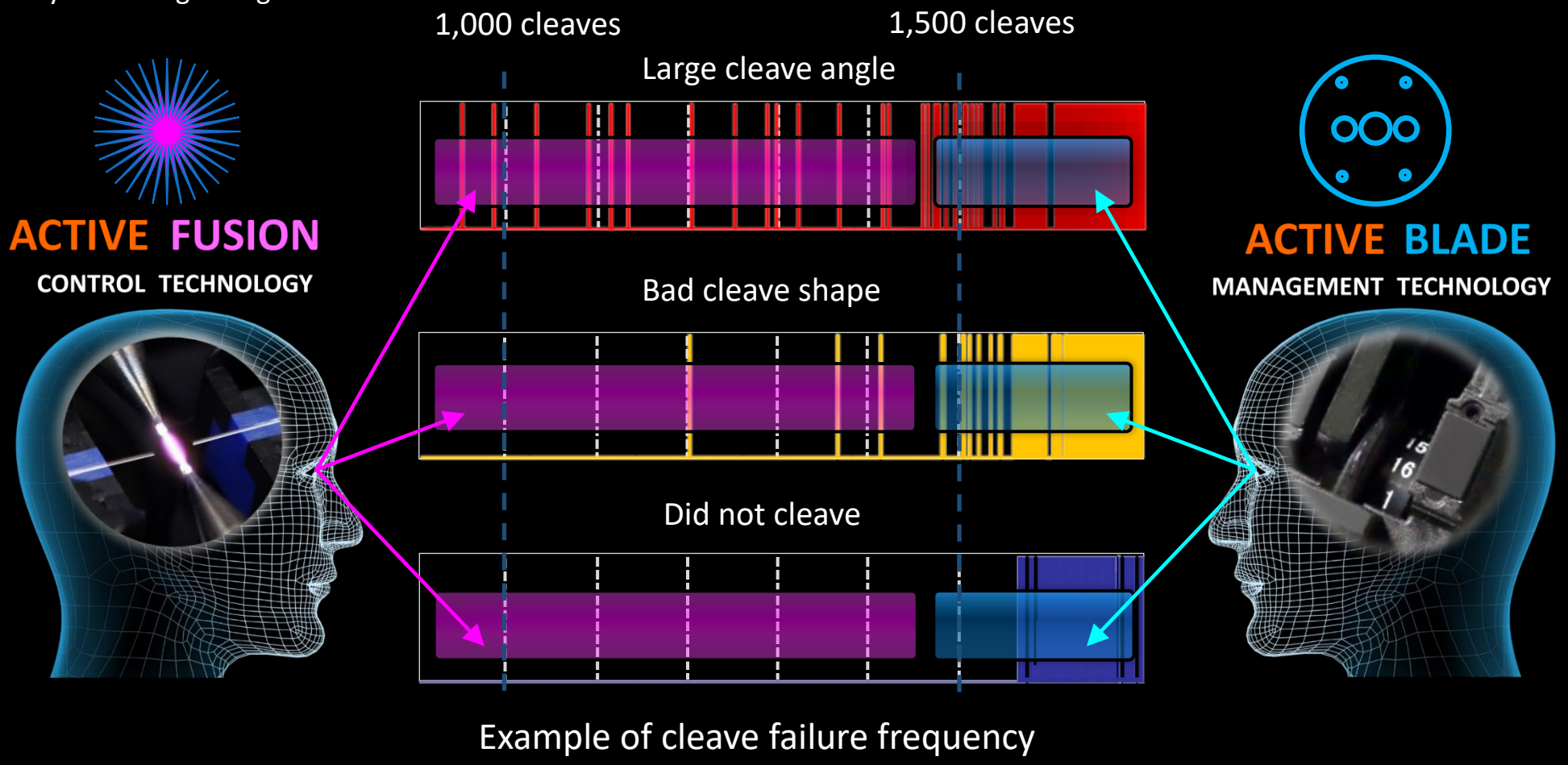
The 90S+ displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.



Enhanced Splice Quality

The below graphs show the number of cleaves on the horizontal line with frequency of large cleave angle, bad cleave shape and no cleave at all. When the frequency of large cleave angle increases, **Active Blade** Management Technology can detect this increasing ratio point and rotate the blade position automatically. **Active Blade** Management Technology significantly reduces frequency of large cleave angles occurring but even when it does occur **Active Fusion** Control Technology can reduce high splice loss by precise fusion control.

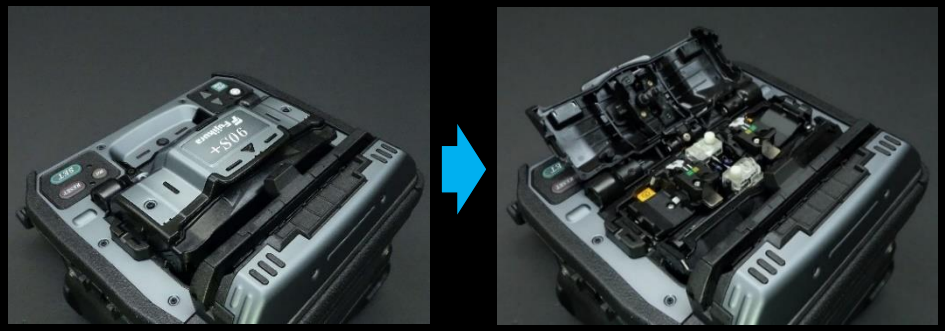
The 90S+ can minimize the occurrence of high splice loss and contribute to reduce the risk of re-Installation by using these 2 key technologies together.



Operation Time Reduction

1. Automatic Open-Close Wind protectors

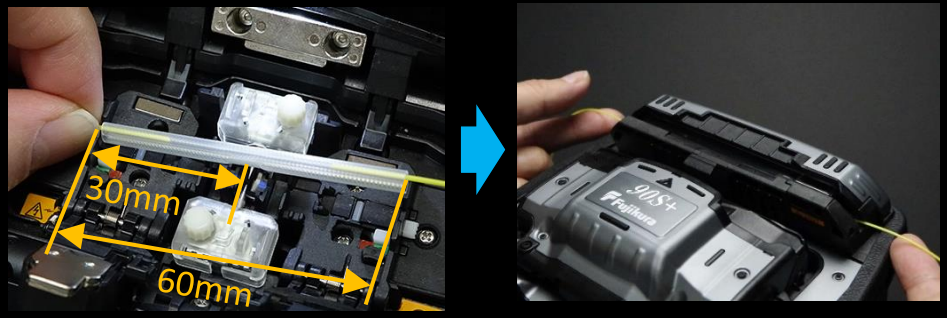
The faster automated features of the 90S+ reduce installation times. With this splicer, an operator can complete the entire splice process from splicing to heating without touching the 90S+ and only moving the fiber.



Automatic Open-Close wind protectors

2. Operation time reduction

The shape of the sheath clamp is optimized for 60mm length protection sleeves. The length from splice point to the edge of the sheath clamp is 30mm. Therefore, it is easy to center the protection sleeve over the splice by using your fingers to reference the splice point.

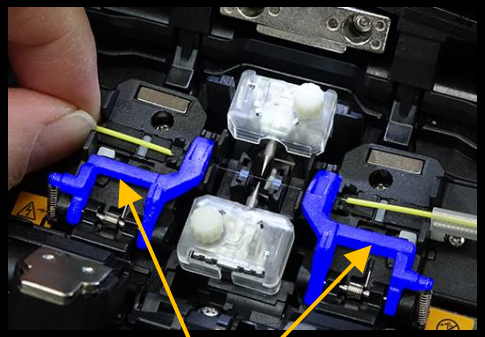


Easy centering

Automatic heater clamp

3. Fiber retention clamp

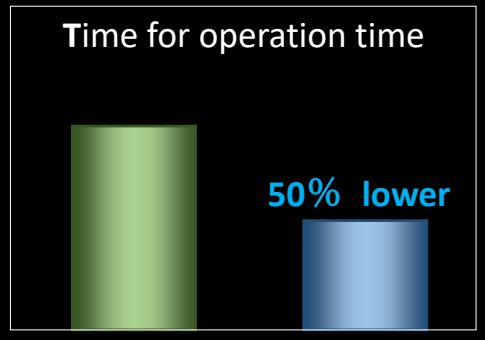
The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.



Fiber retention clamps

4. Operation time reduction

These functions enable the 90S+ to reduce operation time by 50% over the previous model.



User Friendly

1. Carrying Case

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

Ready to use

Open

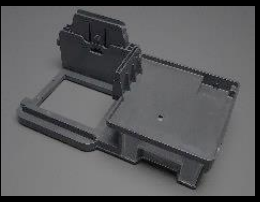
Lid of carrying case becomes a work tray

Large storage space under 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

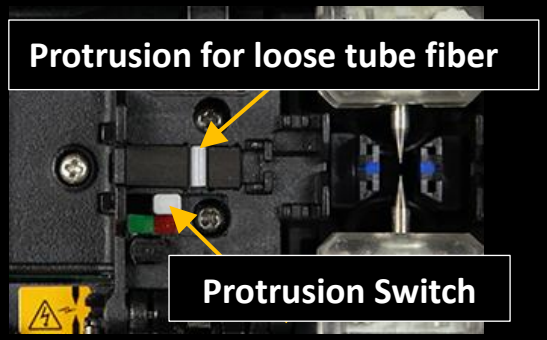
Plenty of space in work tray

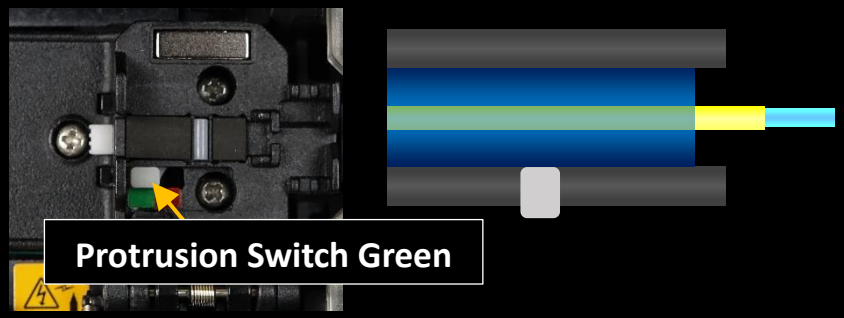
Battery packs

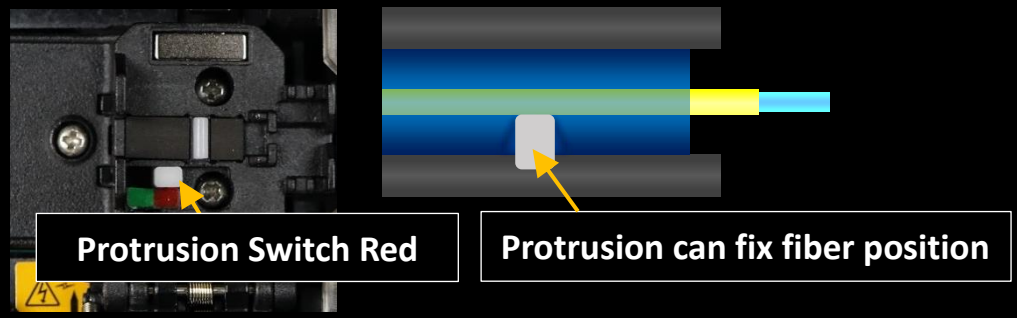
User Friendly

3. Loose tube Compatibility

The sheath clamp of the 90S+ is compatible with loose tube fiber. The Protrusion part on of the sheath clamp for loose tube fiber engages or retracts by simply changing the switch position with your finger.

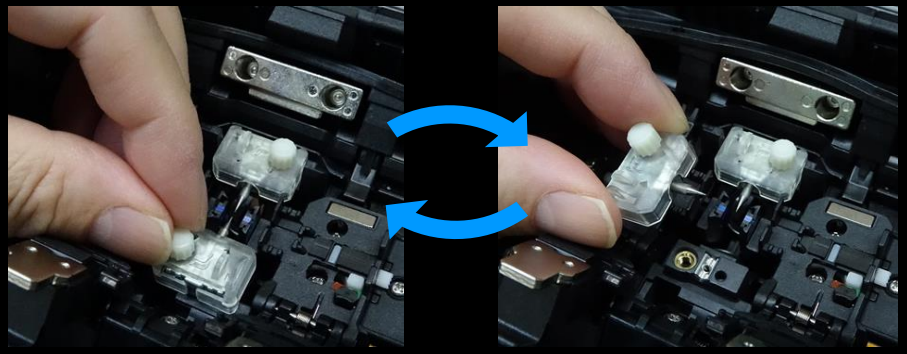






4. Tool-less Electrodes and illumination

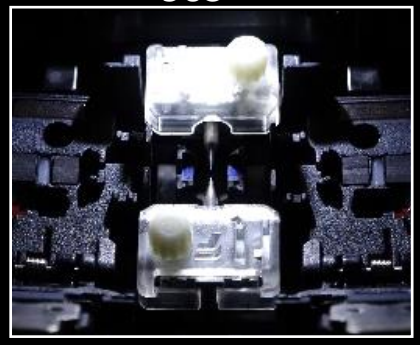
The 90S+ electrodes come as an “assy” including the fixing screw. You can rotate the screw by hand without tools, enabling easy electrode replacement.



The transparent electrode covers support wider illumination of the v-groove. As the sheath clamp opens on the opposite side of the illumination lamp, the sheath clamp area is illuminated without shadow.

70S+

90S+



Wider Illumination range

Standard Package

90S+ Standard Package

(1)


(2)


(3)


(4)


(5)


(6)


(7)


(8)


(9) (10) (11)


(12)


(13)


(14)


(15)


(16)


Description	Model No.	Qty
Core Alignment Fusion Splicer	90S+	1pc
(1) Battery Pack*	BTR-15	1pc
(2) AC Adapter	ADC-20	1pc
(3) AC Power Cord	ACC-14, 15, 16, 17 or 18	1pc
(4) USB Cable	USB-01	1pc
(5) Fusion Splicer Strap	ST-02	1pc
(6) Electrodes, for spare	ELCT2-16B	1pair
(7) Fiber Holder Set Plate	SP-03	1pair
(8) Carrying Case	CC-39	1pc
(9) Work Tray Left	WT-09L	1pc
(10) Work Tray Right	WT-09R	1pc
(11) Work Tray J-Plate	JP-09	1pc
(12) Tripod Screw	TS-03	2pcs
(13) Carrying Case Strap	ST-03	1pc
(14) Alcohol Dispenser	AP-02	1pc
(15) Quick Reference Guide	QRG-02-E	1pc
(16) Instruction Manual	PDF file stored in Splicer	
Single Fiber Stripper	SS03	1pc
Optical Fiber Cleaver	CT50	1pc
(1) Fiber Scrap Collector	FDB-05	1pc
(2) Fiber Setting Plate	AD-10-M24	1pc
(3) Case, for cleaver	CC-37	1pc
(4) Hexagonal Wrench	HEX-01	1pc

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

(1)


(2)


(3)


(4)


Specifications

90S+ Specifications

Item		Specification
Fiber alignment method		Active core alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber
		Multi mode optical fiber
	Cladding dia.	80 to 150μm *1
Applicable coating	Sheath clamp	Coating dia. : Max. 3000μm
		Cleave length : 5 to 16mm *1
Fiber splice performance	Splice loss *2	ITU-T G.652 : Avg. 0.02dB
		ITU-T G.651 : Avg. 0.01dB
		ITU-T G.653 : Avg. 0.04dB
		ITU-T G.654 : Avg. 0.04dB
		ITU-T G.655 : Avg. 0.04dB
		ITU-T G.657 : Avg. 0.02dB
	Splice time *3	SM FAST mode : Avg. 7 to 9sec.
		AUTO mode : Avg. 14 to 16sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat performance	Heat time *4	60mm slim mode : Avg. 9 to 10sec.
		60mm mode : Avg. 13 to 15sec.
Fiber tensile test force		Approx. 2.0N
Electrode life *5		Approx. 5000 splices
Physical description	Dimensions W	Approx. 170mm without projection
	Dimensions D	Approx. 173mm without projection
	Dimensions H	Approx. 150mm without projection
	Weight	Approx. 2.8kg 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. 5000m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 6380mAh
	Capacity *6	Approx. 300 splice and heat cycles
	Temperature	Recharge : 0 to 40°C
		Long Term Storage : -20 to 30°C
	Battery life *7	Approx. 500 recharge cycles
Display	LCD monitor	TFT 4.9 inches with touch screen
	Magnification	Approx. 200 to 320x
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 *8	Bluetooth 4.1 LE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20000 splices
	Splice image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Splice mode select by fiber type analysis
		Fusion control
		Wind protector : open and close
		Sheath clamp : open
		Heater lid : open and close
		Heater clamp : open and close
	Reference guide	Video and PDF file stored in splicer
	Sheath clamp	Easy sleeve positioning clamp
	Electrode	Replaceable without tool

90S+ Options

Item	Model	Remark
Fiber holder	FH-70-200	200μm coating diameter
	FH-70-250	250μm coating diameter
	FH-70-900	900μm coating diameter
	FH-FC-20	900μm in 2mm diameter cable
	FH-FC-30	900μm in 3mm diameter 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
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-03	60mm, Max. 900μm coating diameter
	FP-03(L=40)	40mm, Max. 900μm coating diameter
	FP-03M	FP-03 with magnetic material

Notes

*1 Use CT58 and FH-70-160 for splicing 80μm cladding dia. and 160μm coating dia. fiber.

length range depending on fiber type
5 to 16mm : 125μm cladding dia. and 250μm coating dia.
10 to 16mm : 125μm cladding dia. and 400 or 900μm coating dia.
5 to 10mm : 80μm cladding dia. and 160μm coating dia.
5 to 16mm : 150μm cladding dia. and 250μm coating dia.

*2 Measured with a cut-back method after splicing the same type of fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.

*3 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.

*4 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.

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

*6 Test condition
(1) Splice and heat time : 1 minute cycle
(2) Using the splicer power save settings, subject to our testing condition.
(3) Using a not degraded battery
(4) At room temperature
The battery capacity changes when testing with different conditions from the above.

*7 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.

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

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 to 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

CT50 Options

Item	Model	Remark
Fiber Setting Plate	AD-50	Max. 3mm coating diameter
	AD-16A	Max. 900µm coating diameter 1 fiber + Max. 250µm coating diameter 1 fiber
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 than10mm.

*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.

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

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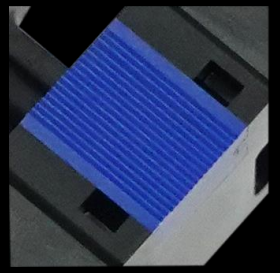
ACTIVE FUSION
CONTROL TECHNOLOGY

ACTIVE BLADE
MANAGEMENT TECHNOLOGY

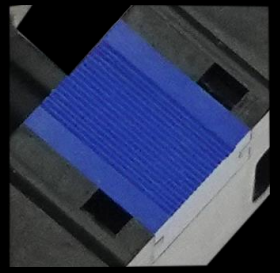
Mass Fusion Splicer 90R kit series

Replaceable V-groove

Up to 16F



250µm fiber spacing



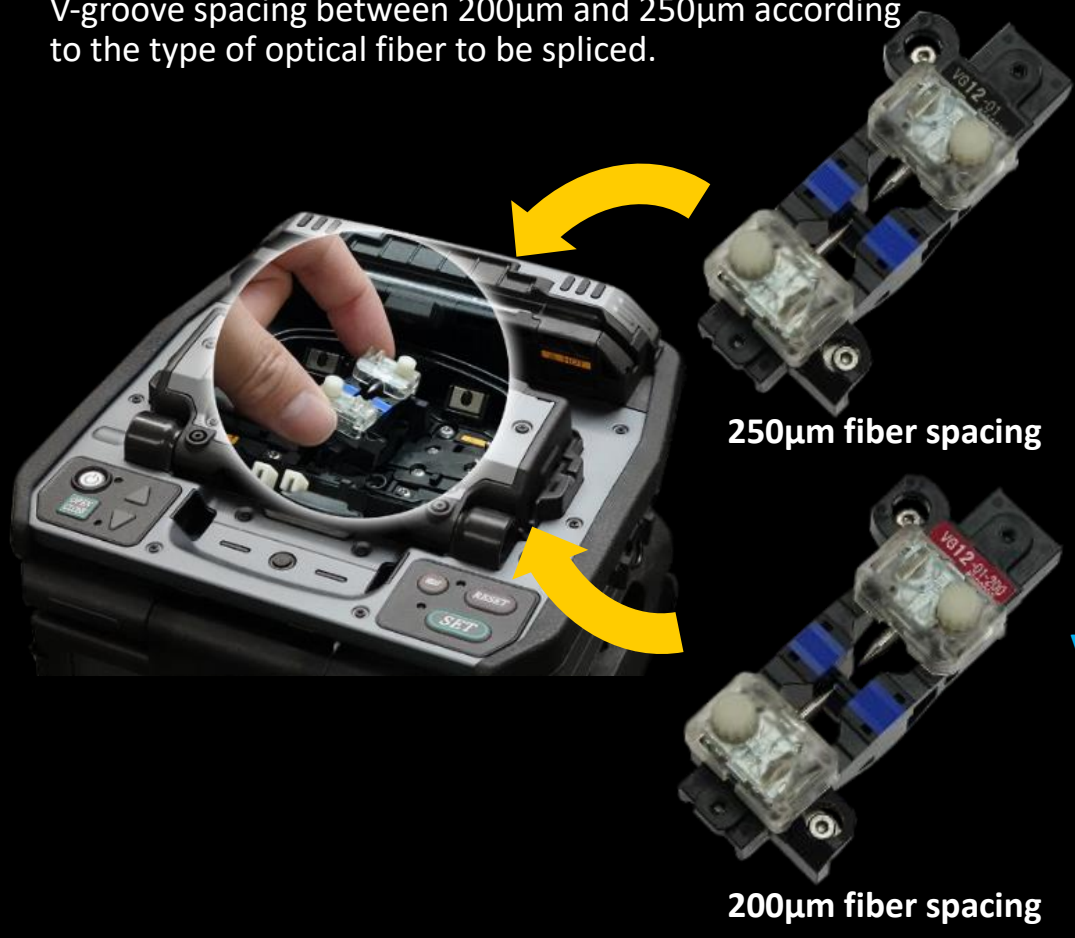
200µm fiber spacing

Fujikura

Cutting-edge Feature

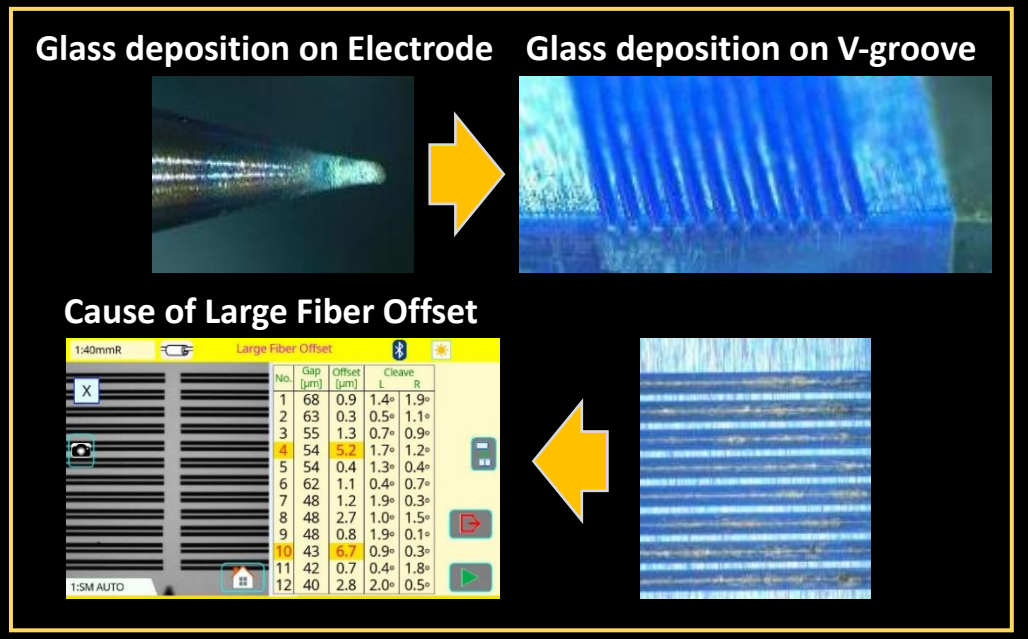
1. Replaceable 200µm/250µm spacing V-groove

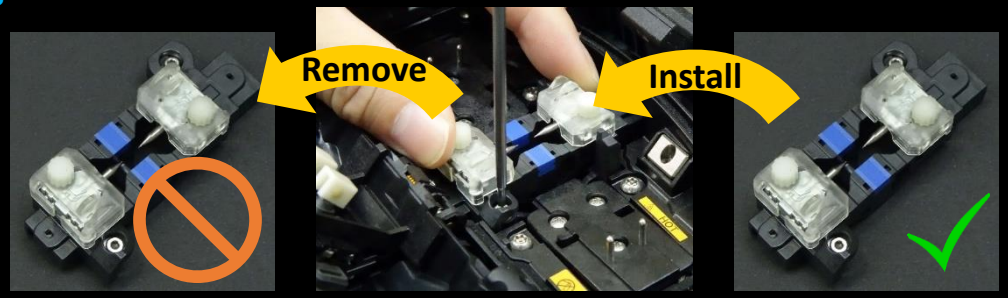
The 90R features an easily replaceable V-groove system, which allows customers to install and remove the V-groove very quickly. Almost all ribbon cables that have already been installed contain ribbons with fibers that have 250µm coating and therefore a 250µm fiber-to-fiber spacing. But with increasing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

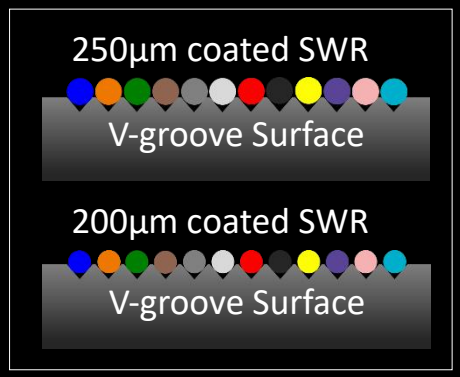




3. Universal Fiber Holder

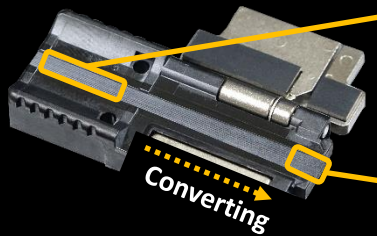
The FH-70-12 fiber holder is compatible with many types of 12 fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200µm or 250µm coated Spider Web Ribbon (SWR). The 250µm spacing V-grooves in the FH-70-12 fiber holder simplify SWR loading and ribbon preparation.

FH-70-12

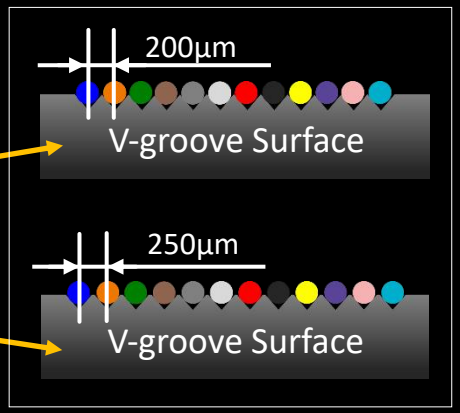


4. Pitch Conversion Fiber Holder

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.

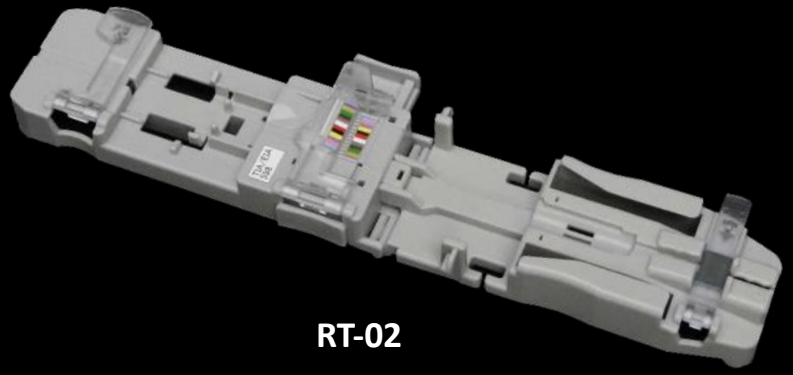


FH-70-12PC

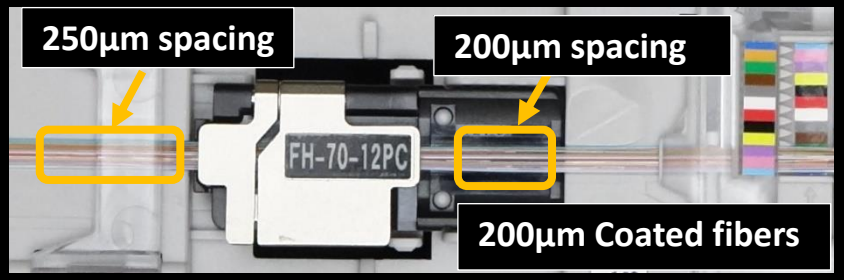


5. Ribbonizing Tool

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.

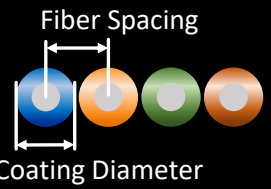


RT-02



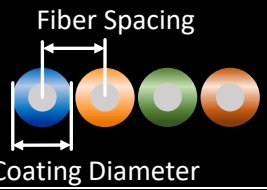
Ribbonizing 200µm coated fiber at a 250µm pitch

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		 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  250µm	 FH-70-12
	250µm	Encapsulated ribbon  Flexible Ribbon		
200µm				
200µm	—	Single fibers		 FH-70-12PC
	200µm ↓ 250µm	Encapsulated ribbon → Single fibers		
		Flexible Ribbon → Single fibers		
200µm	—	Single fibers	 VG12-01-200  200µm	 FH-70-12-200
	200µm	Encapsulated ribbon		
		 Flexible Ribbon		

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

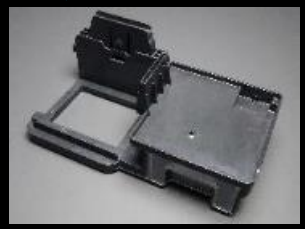
Large storage space under work tray

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

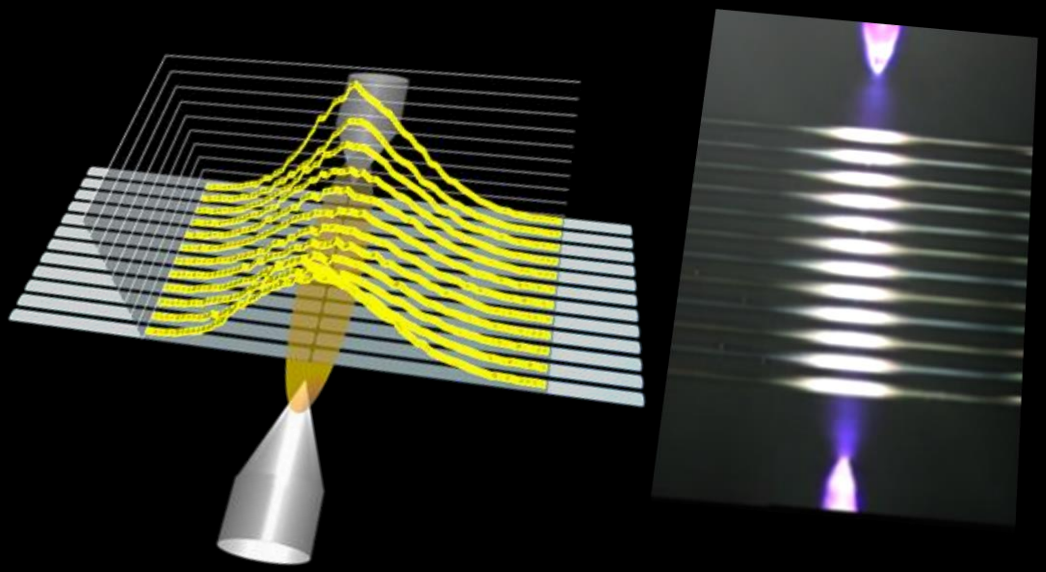
Active Fusion Control Technology

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.

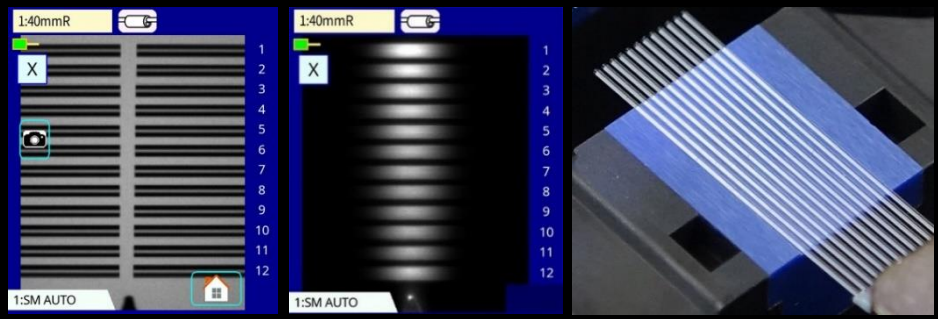
1. Active Fusion control by Real-time

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.

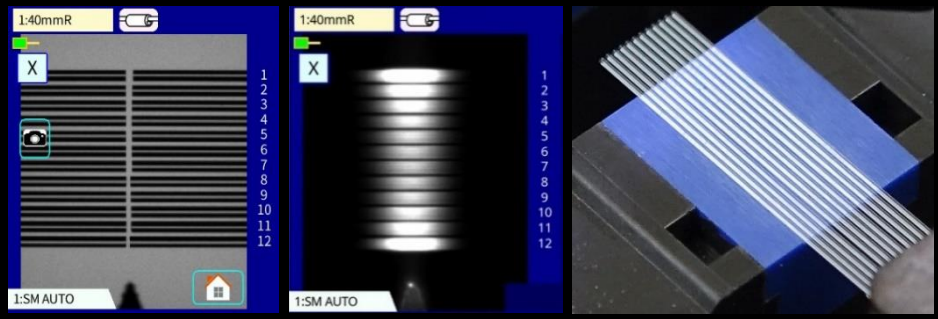


2. Active Fusion control by V-groove and fiber count

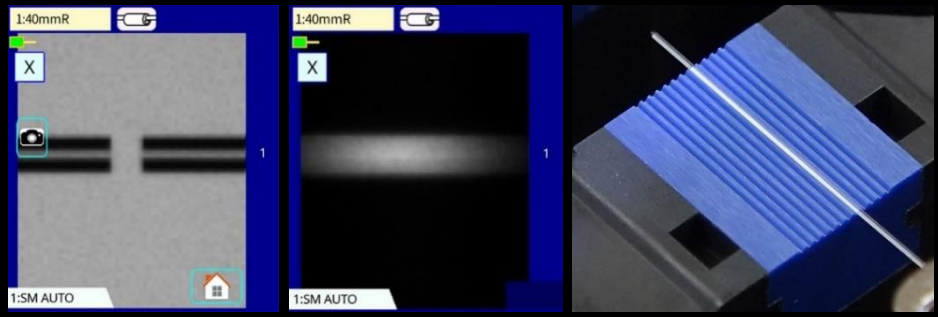
The 90R automatically determines the appropriate fusion splicing parameters according to the ribbon fiber count and the installed V-groove spacing.



250µm fiber spacing / 12-fiber ribbon



200µm fiber spacing / 12-fiber ribbon



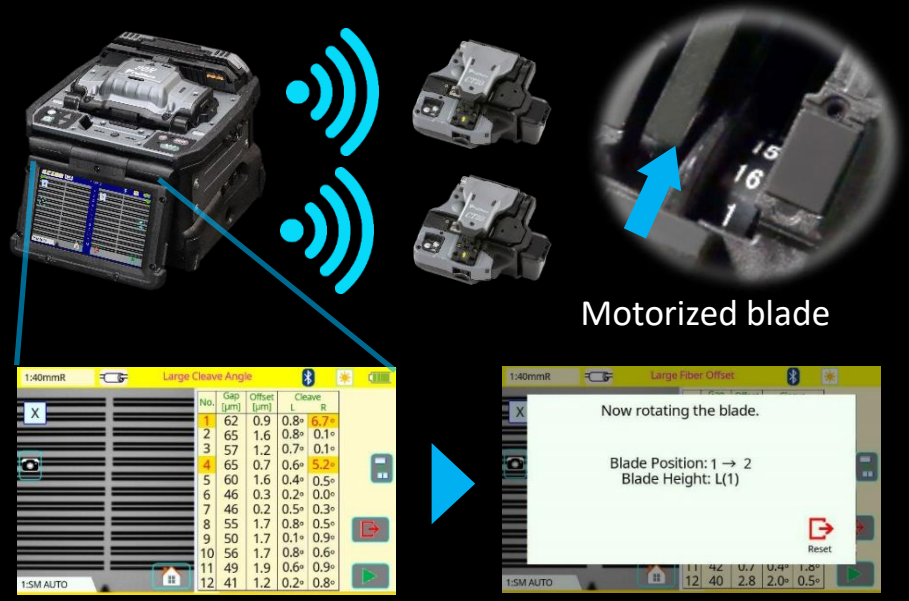
Single fiber

Active Blade Management Technology

ACTIVE BLADE
MANAGEMENT TECHNOLOGY

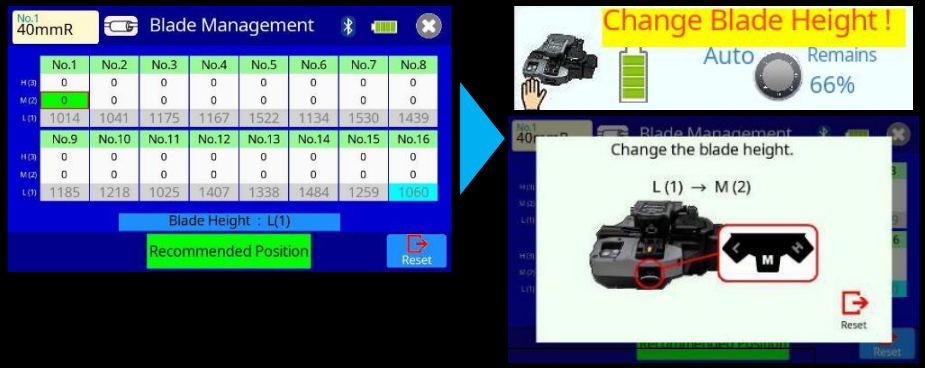
1. Active Blade rotation by motor

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.



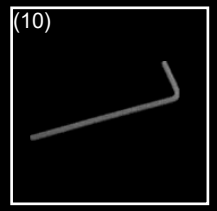
3. Stripping Condition Control

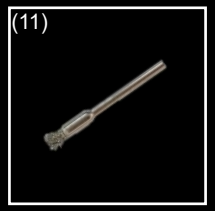
When the user changes the splice mode, e.g. from 12 fiber ribbon splice mode to SWR fiber splice mode, a wireless command from the splicer automatically changes the ribbon stripper RS03 heating temperature and time.

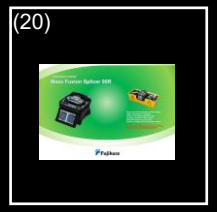
Standard Package

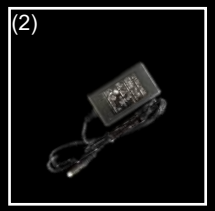
Item	Model	90R16	90R12
Mass Fusion Splicer	90R16	1 pc	—
	90R12	—	1 pc
(1) Battery Pack *	BTR-15	1 pc	
(2) AC Adapter	ADC-20	1 pc	
(3) AC Power Cord	ACC-14, 15, 16, 17 or 18	1 pc	
(4) USB Cable	USB-01	1 pc	
(5) Fusion Splicer Strap	ST-02	1 pc	
(6) Electrodes, on spare V-groove	ELCT2-16B	2 pair	1pair
(7) 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	

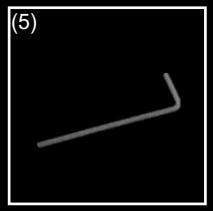
* Please follow IATA regulation when shipping the battery by air.

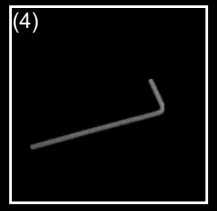










Specifications

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
		Multi mode optical fiber
	Cladding dia.	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
	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
	Altitude	Max. 2000m
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. 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
Data storage	Splice mode	100 splice modes
	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
	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 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
		Multi mode optical fiber
	Cladding dia.	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
	Splice time *2	SM FAST mode : Avg. 16 to 17sec.
		SM AUTO mode : Avg. 19 to 20sec.
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. 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
	Magnification	Approx. 20X : 12 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
Data storage	Splice mode	100 splice modes
	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

90R12 Options

Item	Model	Remark
V-groove	VG12-01-200	12 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-70-12PC	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
	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.

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

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

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 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
	Humidity	Operate : 0 to 95%RH non-condensing
		Storage : 0 to 95%RH non-condensing
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

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.

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Replaceable V-groove System

Enhanced splice quality

Smart & Secure management

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91330-2411-0098-14

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 125µm/coating 900µm

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.

Fujikura

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	Single fiber
	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
	Dimensions H	Approx.103mm without projection
	Weight	Approx.900g
Environmental	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	Stripping	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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91310-2312-0138-04

Advanced Optical Fiber Cleaver

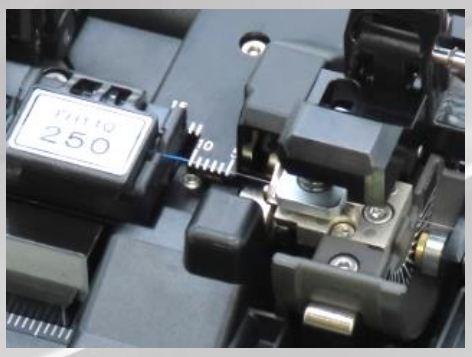
CT110/111

Automatic cleaving with high quality

CT111
(with Angled-Cleaving Function)

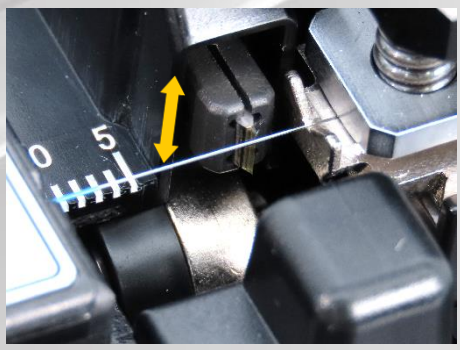
CT110

Cleaving tension automatic setting



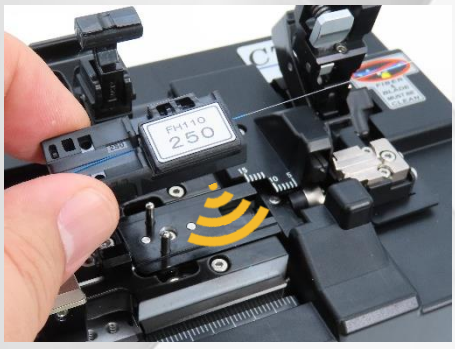
Automatic cleaving tension function can tension and can save your optimization.

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



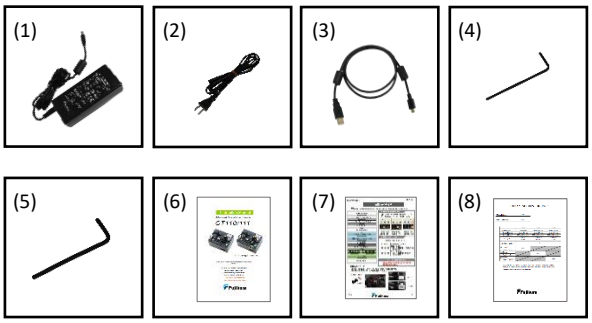
*RFID tag equipped to the fiber holder communicate with CT110/CT111 and choose proper cleaving program(*1)*

*(*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.*

Fujikura

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. 250um *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℃.	
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 ℃	
		Storage : -40 to 80 ℃	
	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 form 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.

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91310-2309-0146-03

Large Diameter Optical Fiber Cleaver

CT114 / CT115 / CT116

Better Cleaving Quality
And Better Usability

CT116

Angled cleaving capability

Automated clamp force optimization

CT115

Automated clamp force optimization

CT114

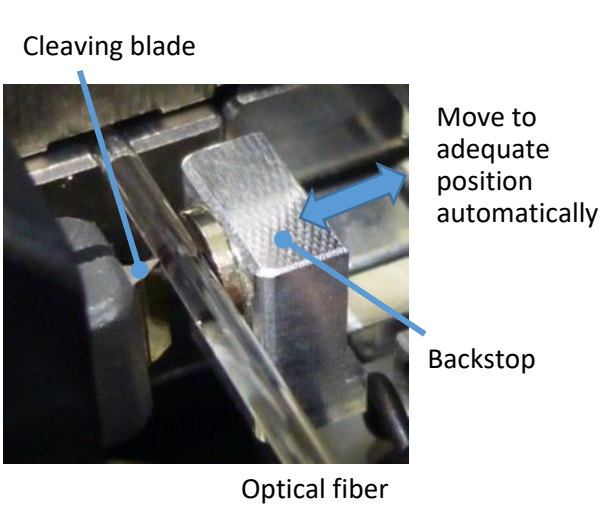
Manual clamping system

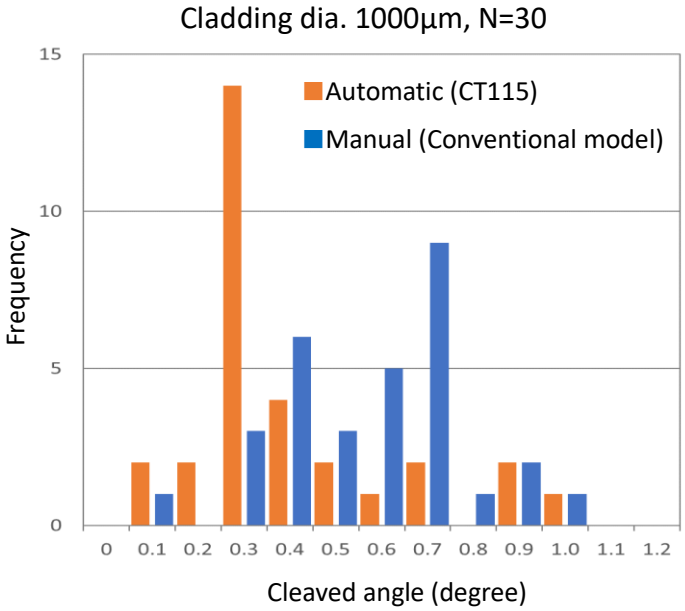
Fujikura

Features

Auto Backstop （for CT115/CT116）

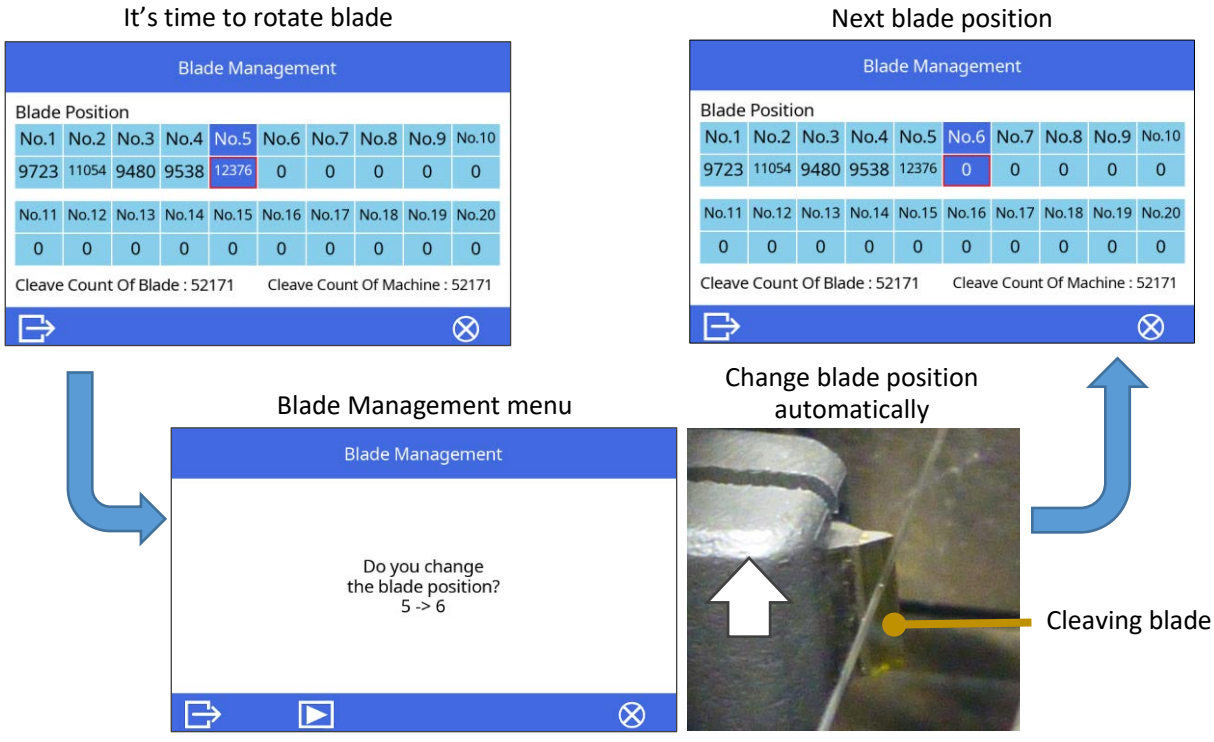
The Backstop helps to provides better cleave quality especially for large-diameter fibers and for sub-critical tension fibers.
Micron order positioning is necessary to obtain stable cleaving. The previous model positioned the micrometer by hand, usually with the aid of a microscope.
The CT115 and CT116 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.





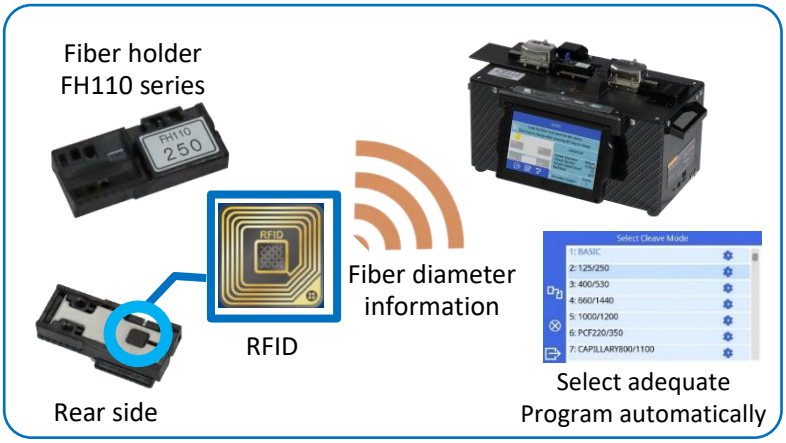
Blade Management

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.



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.



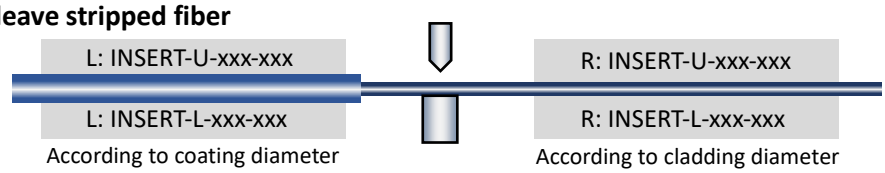
INSERT

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 / LOWER 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	
			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

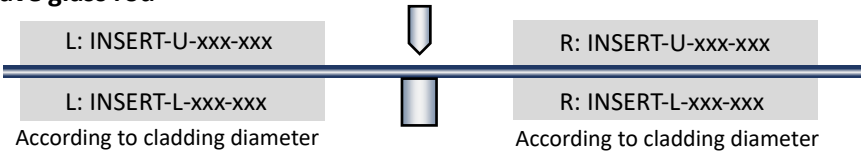
*1: Each side of this insert is equipped with a groove that is marked with the size of the fiber diameter on the table.

Case 1: To cleave stripped fiber



→Both 1 pair of inserts, according to coating and cladding diameter, are necessary.

Case 2: To cleave glass rod



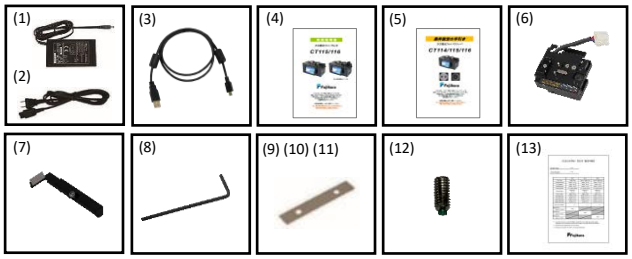
→2 pairs of inserts, according to cladding diameter, are necessary.

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		
		—	Auto clamping force adjustment	
	Software for PC	Firmware update via internet		
		Cleaving 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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https://www.optic-product.fujikura.com

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
	NSERT-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
Lower Insert*1	INSERT-L-80	54 to 107μm
	INSERT-L-125	84 to 167μm
	INSERT-L-160	107 to 213μm
	INSERT-L-250	167 to 333μm
	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 Set 80-1750 μm*1	INSERT-SET-80-1750	INSERT-L-80 : 2 pcs
		INSERT-L-125 : 2 pcs
		INSERT-L-160 : 2 pcs
		INSERT-L-250 : 2 pcs
		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
	SPA-CT-105-100-10SET	Height Adjusting 100μm
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 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

Optical Fiber Recoater

FSR115 / FSR116 / FSR117

Faster, More Accurately,

More user-friendly.

FSR117

- Recoating
- Proof test function up to 10kgf

FSR116

- Recoating
- Proof test function up to 2kgf

FSR115

- Recoating
- without Proof test function

Fujikura

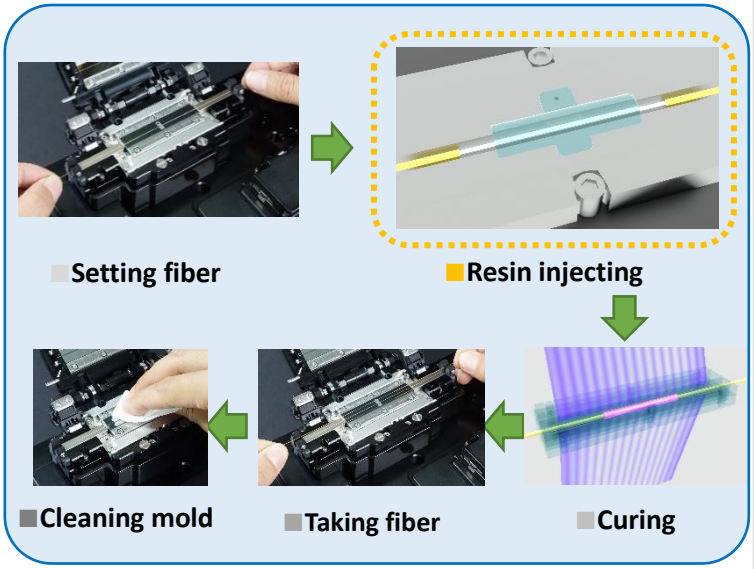
Features

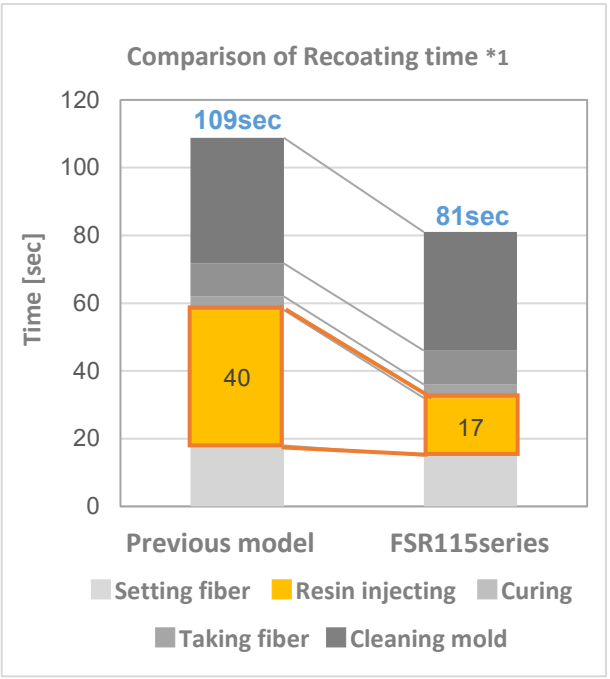
Faster

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



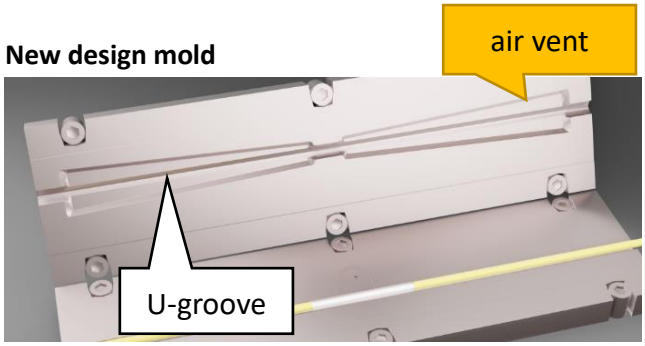


More accurate

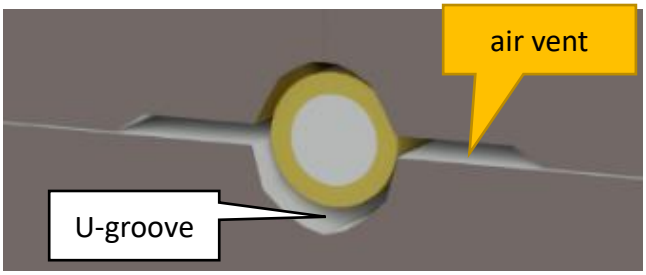
Improved recoating length repeatability

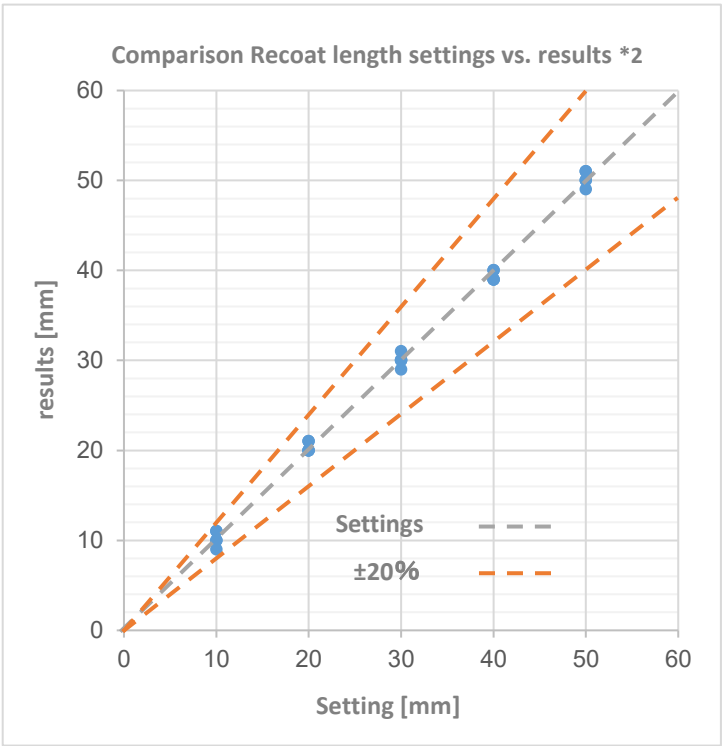
The recoat mold has slight steps on the U-groove to provide an air vent. It helps to improve the recoating length repeatability, as well as the ability to reach a max. 50mm length.

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

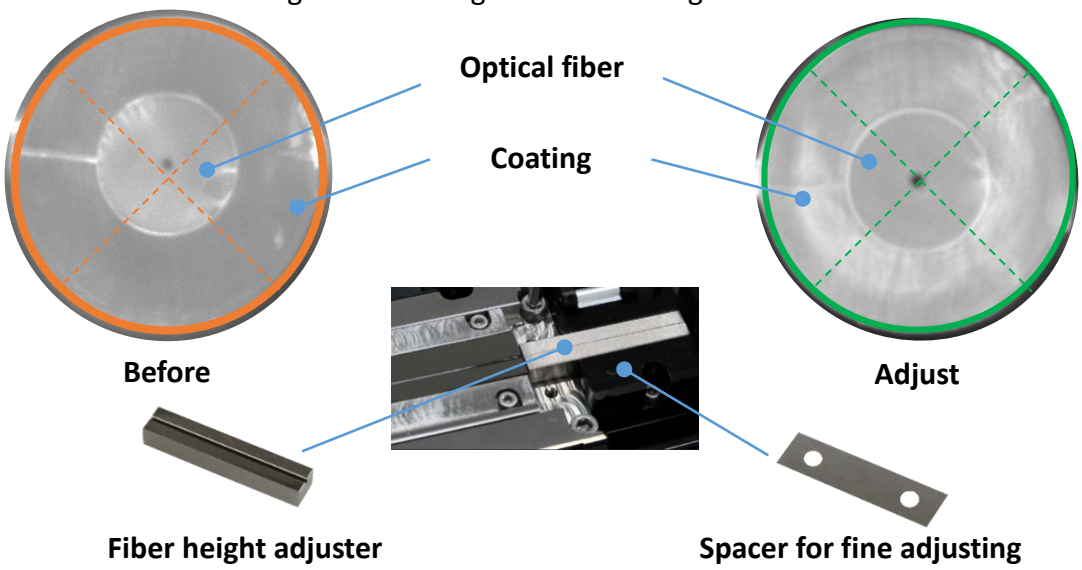
*2: The table does not guarantee the recoat length accuracy.
Test condition: (1) UV recoat Resin : Japan Fine Coatings Co., Ltd. 950Y200 (2) Recoat diameter : 280µm (3) Recoat Length : 10-50mm (4) Fiber : Clad Diameter 125µm/Transparent UV 250µm Coating Diameter, Coating Stripping length 60mm (5) Environmental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

More user friendly

Fiber and recoating centering adjustment is now possible by the user

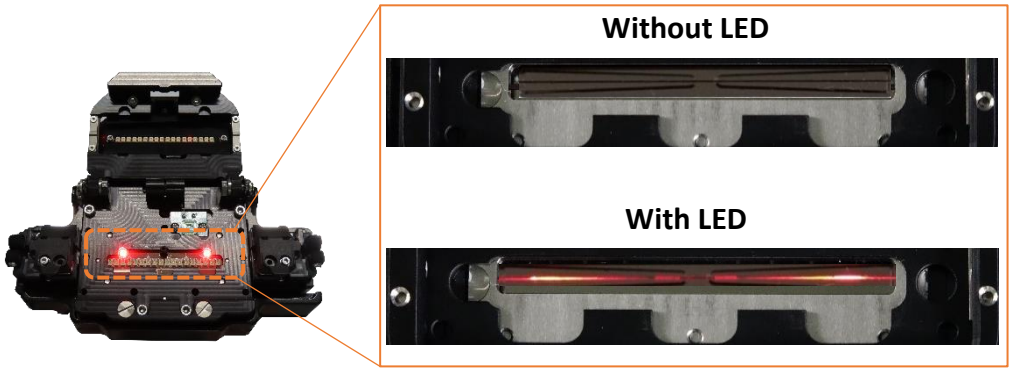
The Fiber height adjuster enables the adjustment of fiber diameter centering by setting the fiber to be centered in the mold.

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



Clear observation of resin injection

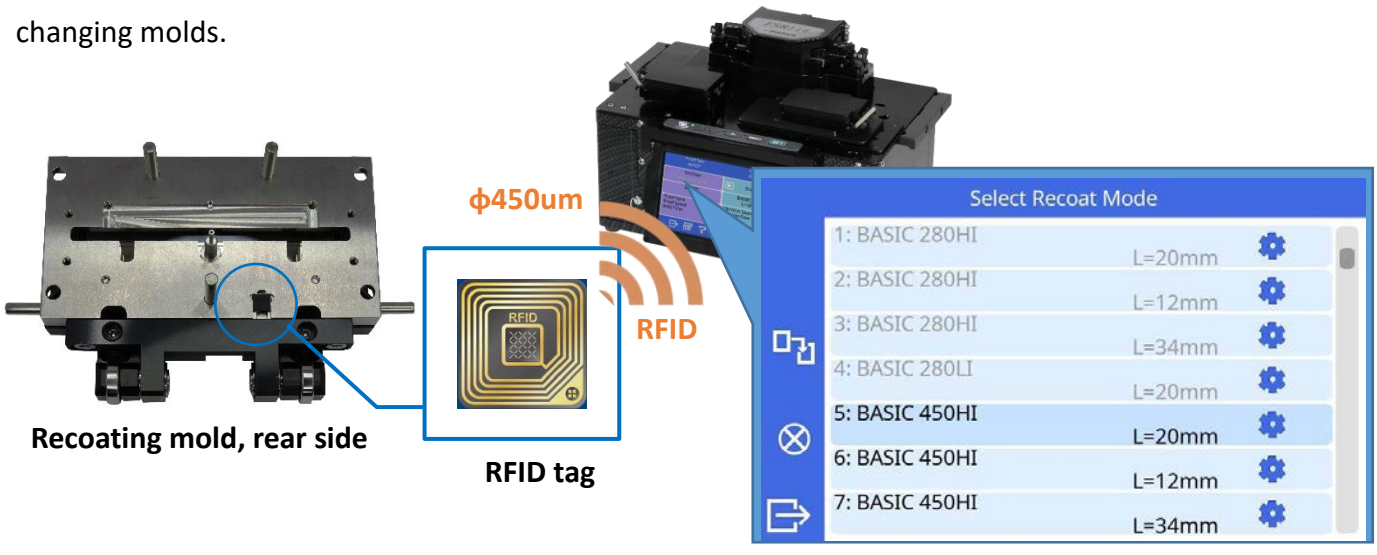
LEDs under the mold shows the injected resin more clearly.



Injection movie

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.



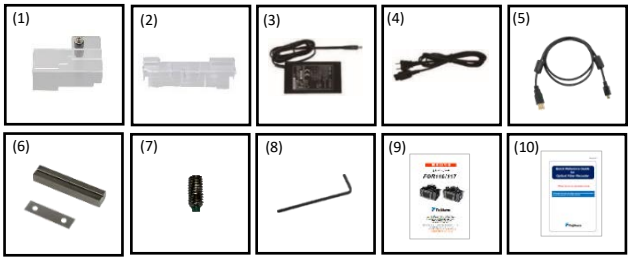
Recoating mold, rear side

RFID tag

Suggesting suitable programs

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, 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		
Display	LCD monitor	TFT 4.95 inches with touch screen		
Interface	PC	USB2.0 Mini B type		
	Earth Terminal	Applicable by M3 size truss screw.		
Wireless communication	RFID	Compliant with ISO 15693		
Data storage	Recoat Mode	100 Recoat modes		
	Proof Test Mode	—	30 Proof modes	
	Recoat Result	5,000 Recoat		
	Proof Test Result	—	5,000 Proof	
Other features	Mold	Recoat length stabilizing mechanism		
		Align able clamp position according to fiber eccentricity between coating center and clad center.		
		Replaceable by user.		
		Illuminates the flowing UV curing resin on the groove to advance resin visibility.		
		RFID tab identifies the type of Recoat mold		
	Software for PC	Recoater firmware update via internet		
		Parameter upload and download		
	Proof force Calibration	—	Enable *5	

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

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