ACTIVE BLADE MANAGEMENT technology

Mass Fusion Splicer Kit 41R

Smart Management

USE

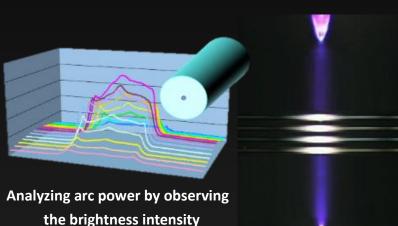
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FFujikura

Fruittura RSD3

Mass Fusion Technology

The 41R mass fusion splicer has a wide heating area for up to 4 fibers. The wide electrode gap melts the fibers uniformly and has real-time arc discharge control by analyzing the arc's brightness intensity. The 41R does not have active core alignment mechanisms, however, during the discharge, the effects of fiber surface tension minimize preexisting offsets.



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0.2

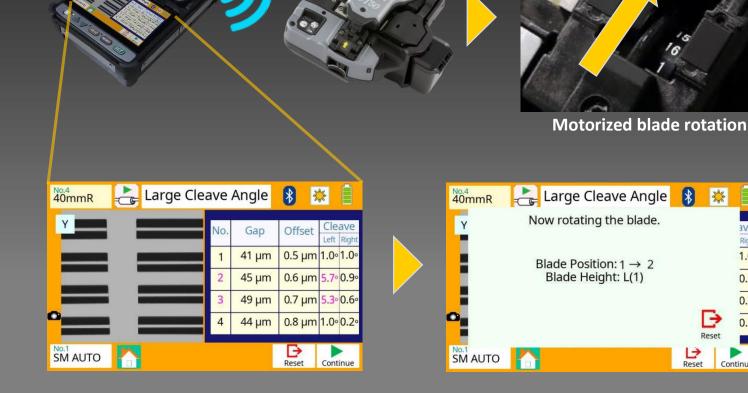
Continue

Reset

Active Blade Management Technology

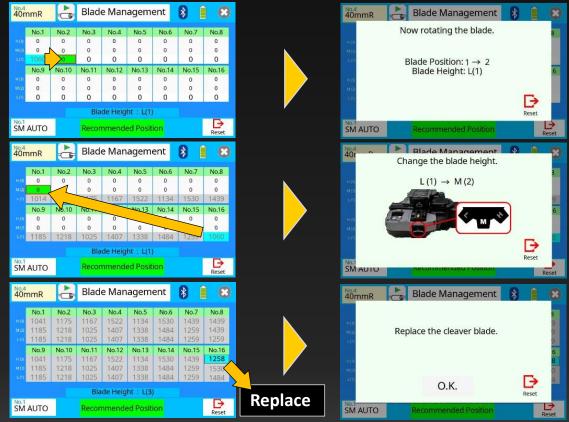
1. Automatic Blade Rotation

The 41R fusion splicer and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



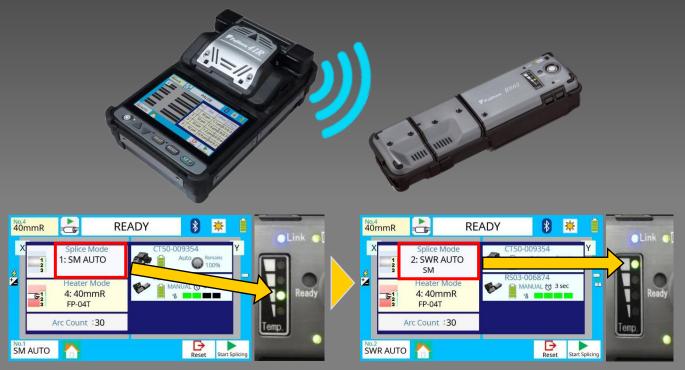
2. Blade Life Management

The 41R fusion splicer 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 4 fiber ribbon splice mode to SWR fiber splice mode, the ribbon stripper RS03 automatically changes its heating temperature and time with a wireless command from the splicer.



Heat temperature changes in accordance with Splice mode

Universal Features

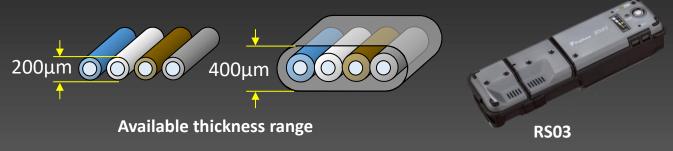
1. Universal Fiber Holder

The FH-70-4 fiber holder is compatible with many types of fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200 μ m or 250 μ m coated Spider Web Ribbon (SWR). The 250 μ m pitch V-grooves in the FH-70-4 fiber holder simplify SWR loading and ribbon preparation.



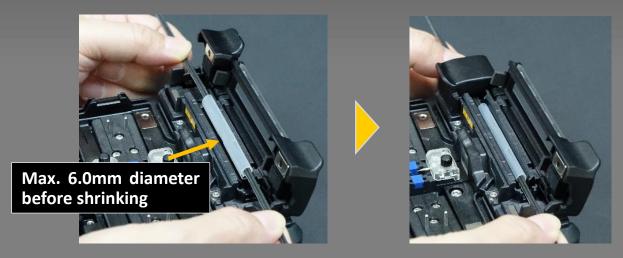
2. Universal Ribbon Stripper

The RS series ribbon strippers are compatible with 200 μ m to 400 μ m coated fibers without replacing the stripper blades.



3. Universal Tube Heater

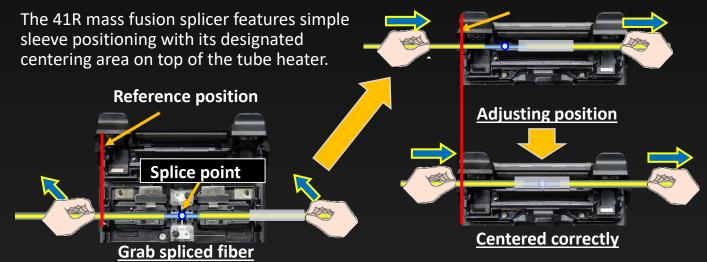
The 41R mass fusion splicer can accommodate a max 6.0mm diameter heat sleeve before shrinking. As a result, it supports a wide range of protection sleeve sizes.



User Friendly

1. Simple sleeve centering

Reference position



2. Easy Maintenance

The CT50 fiber cleaver has a user replaceable blade and rubber clamps - there's no need to send the device to a service center for blade or clamp replacement.



3. Lower Stripping Force

The RS series ribbon stripper has an ergonomic design and requires lower stripping force than the previous stripper.



Ergonomic Design

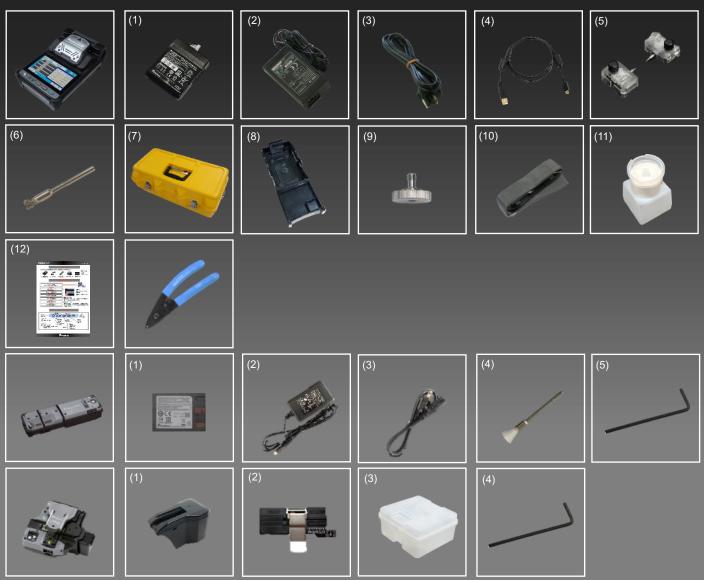


Standard Package 41R Standard package

Item	Model	Qty
Mass Fusion Splicer	41R	1 pc
(1) Battery Pack *	BTR-11A	1 pc
(2) AC Adapter	ADC-19A	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(4) USB Cable	USB-01	1 pc
(5) Electrodes, for spare	ELCT2-16B	1 pair
(6) V-groove Cleaning Brush	VCB-01	1 pc
(7) Carrying Case	CC-36	1 pc
(8) Work tray	WT-08	1 pc
(9) Tripod Screw	TS-03	2 pcs
(10) Carrying Case Strap	ST-03	1 pc
(11) Alcohol Dispenser	AP-02	1 pc
(12) Quick Reference Guide	QRG-04-E or J	1 pc
Single Fiber Stripper	SS03	1 pc
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
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	CC-37	1 pc
(4) Hexagonal Wrench	HEX-01	1 pc
* Places follow IATA regulation when shipping the battery by air		



Please follow IATA regulation when shipping the battery by air.



Specifications



41R Specifications

Item		Specification
Fiber alignment method		Self cladding alignment
		with melting surface tension
Fiber count can be spliced		Up to 4 fiber ribbon
Applicable	Fiber type	Single mode optical fiber
fiber	riber type	Multi mode optical fiber
11001	Cladding dia.	Approx.125µm
Applicable coating	Fiber holder	Coating shape. : Refer to options
ripplicable coulling		Cleave length : 10mm
		ITU-T G.652 : Avg. 0.05dB
		ITU-T G.651 : Avg. 0.02dB
	Splice loss *1	ITU-T G.653 : Avg. 0.08dB
Fiber splice		ITU-T G.655 : Avg. 0.08dB
performance		ITU-T G.657 : Avg. 0.05dB
	Splice time *2	SM FAST mode : Avg. 10 to 12sec.
		SM AUTO mode : Avg. 15 to 18sec.
Applicable	Sleeve type	Heat shrinkable sleeve
protection	Sleeve length	Max. 66mm
sleeve	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat	Heat time *3	40mm FP-04T mode : Avg. 29 to 30sec.
performance	-	Single 60mm mode: Avg. 25 to 27sec.
Fiber tensile test forc	e	Approx. 2.0N
Electrode life *4		Approx. 2,000 splices
	Dimensions W	Approx.131mm without projection
Physical	Dimensions D	Approx.201mm without projection
description	Dimensions H	Approx.79mm without projection
	Weight	Approx. 1.2kg including battery
_ · · · ·	Temperature	Operate : -10 to 50 degreeC
Environmental	•	Storage : -40 to 80 degreeC
condition	Humidity	Operate : 0 to 95%RH non-condensing
		Storage : 0 to 95%RH non-condensing
	Altitude	Max. 3,700m
AC adaptor	Input Tomo	AC100 to 240V, 50/60Hz, Max. 1.35A
	Туре	Rechargeable Lithium Ion
Battery pack	Output Capacity *5	Approx. DC14.4V / 3,360mAh Approx. 140 splice and heat cycles
Dattery pack		Recharge : 0 to 40 degreeC
	Temperature	Storage : -20 to 30 degreeC
	LCD monitor	TFT 5 inches with touch screen
Display	Magnification	Approx. 44 to 66X
Illumination	V-grooves	LED lamp
	PC	USB2.0 Mini B type
Interface	External	USB2.0 A type
	LED lamp	Approx. DC5V, 500mA
	Wireless *6	Bluetooth 4.1 LE
	Splice mode	100 splice modes
Data storage	Heat mode	30 heat modes
	Splice result	10,000 splices
	Splice image	100 images
Screw hole for tripod		1/4-20UNC
	Automatic	Splice mode select
Other	functions	by fiber count analysis
features		Discharge power calibration
	Reference guide	PDF file stored in splicer
	Electrode	Replaceable without tool

41R Options

Item	Model	Remark
	FH-70-250	250µm coating diameter
	FH-70-900	900µm coating diameter
	FH-70-2	2 fiber ribbon
Fiber holder	FH-70-4	4 fiber ribbon
	FH-FC-20	900µm in 2mm diameter jacket
	FH-FC-30	900µm in 3mm diameter jacket
	FH-60-LT900	900µm loose buffer fiber
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on
Hansier Clamp	0L/111-D0-12	work tray
Protection sleeve	FP-04(T)	40mm up to 8 fiber ribbon

Notes

- *1: Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
- *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) Splice and heat time: 2 minutes cycle(2) Using the splicer power save settings(3) Using a not degraded battery
- (4) At room temperature
- The battery capacity changes when testing with different conditions from the above.
- *6: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG. Inc.

SS01/03 Specifications



ltem	SS01	SS03	Item
1) Stripping coating dia.	250um	250um	Outer tube m
Fiber dia. after stripping	125um cladding	125um cladding	Inner tube ma
2) Stripping coating dia.	None	900um	Strength men
Fiber dia. after stripping	None	250um coating	
3) Stripping coating dia.	None	2000 to 3000um	Heat shrink o
Fiber dia. after stripping	None	900um coating	
Dimension	Approx. 164 x 45 x 5mm		Storage
Weight	Approx. 100g		

Fiber Protection Sleeve Specifications



Item	FP-03/FPS series	FP-04/05 series
Outer tube material	Polyethylene	
Inner tube material	Ethylene-Vinyl Acetate	
Strength member	Stainless Quartz glass	
	Temperature: -10 to 50 degreeC	
Heat shrink operation	Humidity: 0 to 95% non-condensing	
04	Temperature: -40 to 60 degreeC	
Storage	Humidity: 0 to 95% non-condensing	

Specifications

CT50 Specifications



RS03 Specifications



Item		Specifications
	Fiber type	Single mode optical fiber
		Multi mode optical fiber
Applicable fiber	Fiber count	Up to 16 fiber ribbon
	Cladding dia.	Approx. 125um
Applicable	Fiber plate	AD-10-M24 : Max. 900µm coating diameter
coating		AD-50 : Max. 3mm coating diameter
oouung	Fiber holder	Coating shape. : Refer to splicer options
		AD-10-M24 : 5 to 20mm *1
		AD-50 [CD : coating diameter]
.	Fiber setting	CD= 250µm or less : 5 to 20mm *1
Cleave length	plate	250μm < CD < 1000μm : 10 to 20mm
		1000µm < CD < 3mm : 14 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees
Ŭ	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade life *3		Approx. 60,000 fiber cleaves
	Dimensions W	Approx. 120mm without projection *4
Physical	Dimensions D	Approx. 95mm without projection *4
description	Dimensions H	Approx. 58mm without projection *4
	Weight	Approx. 305g
		including battery and AD-10-M24
	Temperature	Operate : -10 to 50 degreeC
Environmental		Storage : -40 to 80 degreeC
condition	Humidity	Operate : 0 to 95% non-condensing
		Storage : 0 to 95% non-condensing
Battery		2 pieces of LR03/AAA dry battery
Wireless interface *5		Bluetooth 4.1 LE
Screw hole for tripod		1/4-20UNC
	Blade rotation	Motorized rotation
Other		Manual rotation dial
features	Replaceable	Blade
	parts	Clamp arm

CT50 Options

Item	Model Name	Remark
Fiber Setting Plate	AD-50	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
	SPA-CT08-10	Cleave length 10mm
Spacer	SPA-CT08-09	Cleave length 9mm
	SPA-CT08-08	Cleave length 8mm

Notes

*2: Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and 12 fiber ribbons. The cleave length is set from 10 to 16mm. 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.

Item		Specifications
Applicable	Fiber type	Single mode optical fiber
		Multi mode optical fiber
fiber	Fiber count	Up to 16 fiber ribbon
	Cladding dia.	Approx. 125um
	Coating dia.	200 to 400um
Strip length		Max. 35mm
Heat time *1		Approx. 3sec
		Approx. 5sec with Eco-mode
Heat temperature		85 to 140 degree C
	Dimensions W	Approx.156mm without projection
Physical	Dimensions D	Approx.49mm without projection
description	Dimensions H	Approx.37mm without projection
	Weight	Approx. 265g including battery
	Temperature	Operate : -10 to 50 degreeC
Environmental		Storage : -40 to 80 degreeC
condition	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 adaptor	Input	DC10 to 17V, Approx. 1A
	Туре	Rechargeable Lithium Ion
	Output	Approx. DC7.2V / 1,840mAh
Battery	Capacity *2	Approx. 600 times with Eco-mode
	Temperature	Recharge : 0 to 40 degreeC
		Storage : -20 to 30 degreeC
	Battery life *3	Approx. 500 recharge cycles
Wireless interface *4		Bluetooth 4.1 LE
Other	Strip operation	Lower stripping force design
features	Setting change	Controlled from splicer or smartphone

RS03 Options

Item	Model Name	Remark
Spacer	SPA-RS02-08	Coating length 8mm
DC power cord	DCC-11	Splicer to ribbon 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 condition.
- *3: The battery capacity halves after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage temperature range, operating temperature range, or if completely discharged by storing for a long time without recharging.
- *4: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.





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^{*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.