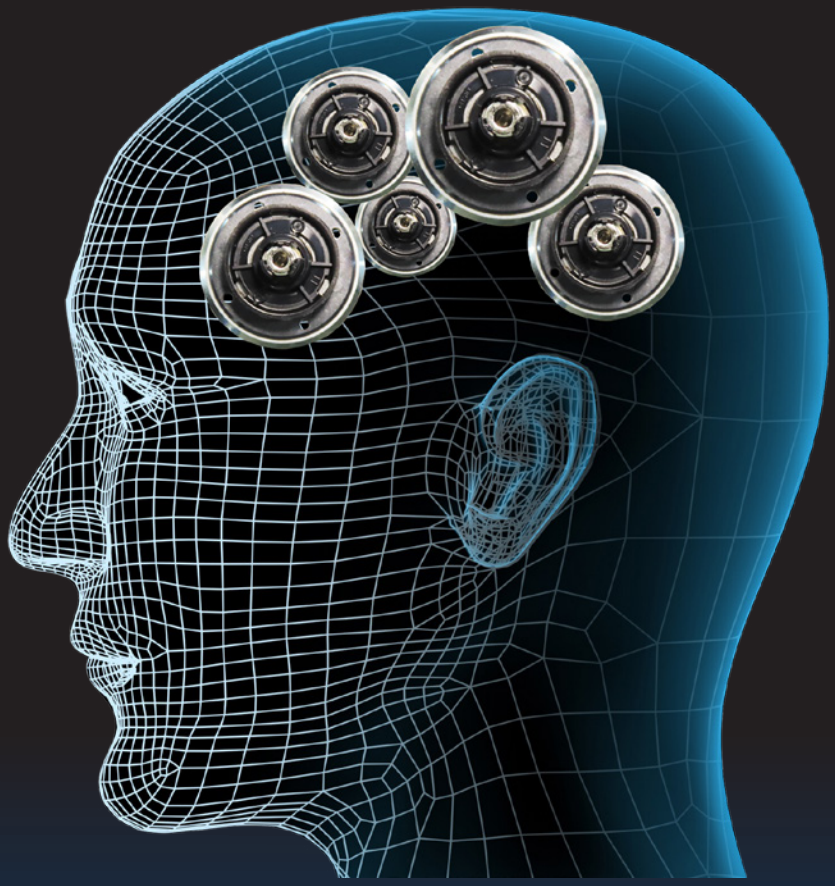
Active Blade Management Technology



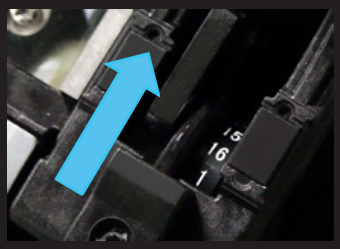
Cladding Alignment Splicer Kit
41S and CT50

Fujikura

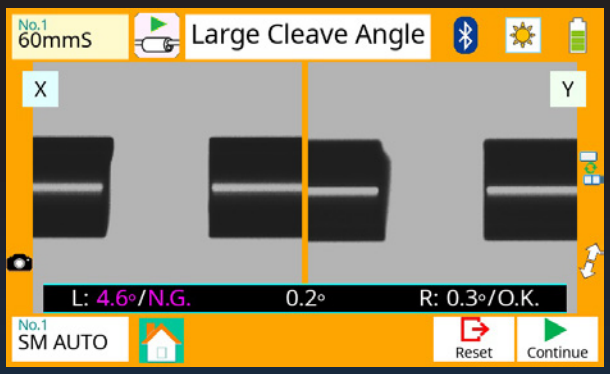
Active Blade Management Technology

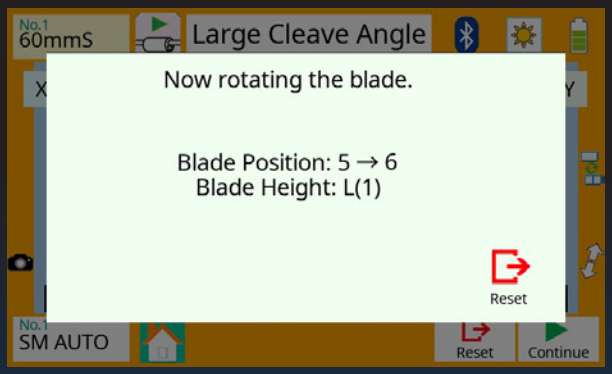
1. Automatic Blade Rotation

The 41S fusion splicer and CT50 fiber cleaver have wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



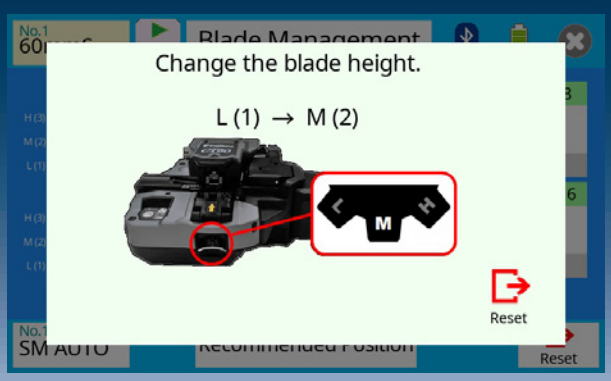
Motorized blade





2. Blade Life Management

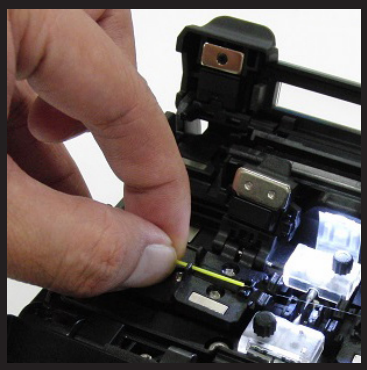
The 41S fusion splicer indicates the remaining blade life and also informs the user when a blade height change is required.

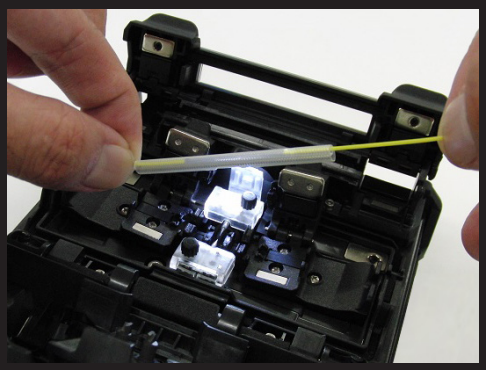


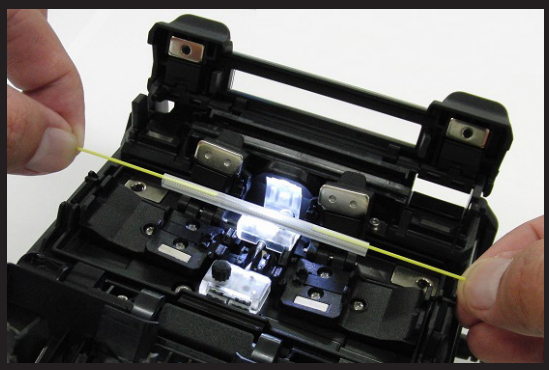
Other Features

1. Easy Sleeve Positioning

The 41S fusion splicer has an easy position design for fiber protection sleeves. The sheath clamp outer edge is 30mm away from the splicing point. Gripping the fiber at the sheath clamp edge ensures the splice point is automatically centered when using 60mm sleeve.

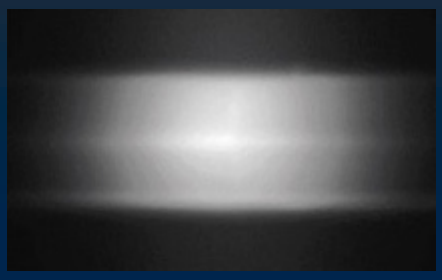


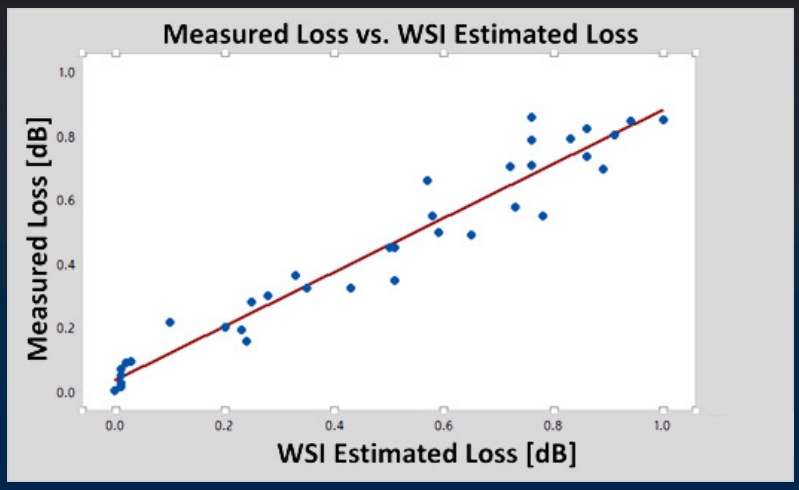




2. Core Loss Estimate

The 41S fusion splicer analyzes the core dopant position when it's illuminated by the heating energy during a fusion splice.





3. 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.

User replaceable cleaver blade

User replaceable rubber clamps

Standard Package

Description	Model No.	Qty
(1) Fusion splicer	41S	1pc
(2) Battery pack*	BTR-11A	1pc
(3) AC adapter	ADC-19A	1pc
(4) AC power cord	ACC-XX	1pc
(5) Spare electrodes	ELCT2-16B	1pair
(6) Set plate	SP-01	1pc
(7) Quick reference guide	Q-41S-E	1pc
(8) Carrying case	CC-30	1pc
(9) Work tray		1pc
(10) Strap		1pc
(11) Screw hole for tripod	1/4-20UNC	1pc
(12) USB cable	USB-01	1pc
(13) Alcohol pot	AP-02	1pc
(14) Single fiber stripper	SS03	1pc
(15) Fiber cleaver	CT50	1pc
(16) Fiber plate	AD-10-M24	1pc
(17) Fiber cleaver carrying case	CC-37	1pc

*Installed inside main body

(1)

(2)

(3)

(4)

(5)

(6)

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(17)

Specifications

41S Specifications

Item		Specifications
Fiber alignment method		Active cladding alignment
Fiber count can be spliced		Single fiber
Applicable optical fiber	Fiber type	Single mode optical fiber
		Multi mode optical fiber
	Cladding dia.	Approx.125um
Applicable coating	Sheath clamp	Coating dia. : Max. 3000um
		Cleave length : 5 to 16mm
Fiber splice performance	Splice loss*1	ITU-T G.652 : Avg. 0.03dB
		ITU-T G.651 : Avg. 0.01dB
		ITU-T G.653 : Avg. 0.05dB
		ITU-T G.655 : Avg. 0.05dB
		ITU-T G.657 : Avg. 0.03dB
	Splicing time*2	SM FAST mode : Avg. 6sec.
		AUTO mode : Avg. 9sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6mm before shrinking
Sleeve heat performance	Heat time*3	60mm mode : Avg. 26sec.
Fiber tensile test force		Approx. 2.0N
Electrode life*4		Approx. 5,000 splices
Physical description	Dimensions W	Approx.131mm without projection
	Dimensions D	Approx.201mm without projection
	Dimensions H	Approx.79mm without projection
	Weight	Approx. 1.3 kg including battery
Environmental condition	Temperature	Operate : -10 to 50 degreeC
		Storage : -40 to 80 degreeC
	Humidity	Operate : 0 to 95% non-condensing
		Storage : 0 to 95% non-condensing
	Altitude	Max. 5,000m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V, 3360mA
	Capacity *5	Approx. 200 splice and heat cycles
	Temperature	Recharge : 0 to 40 degreeC
		Storage : -20 to 30 degreeC
	Battery life *6	200 to 500 recharge cycles
Display	LCD monitor	TFT 5.0 inches with touch screen
	Magnification	132 to 300x
Illumination	V-grooves	LED lamp
Interface	PC	USB2.0 MINI B type
	Wireless *7	Bluetooth® 4.1 LE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	10,000 results
	Fiber image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Fiber heat calibration
	Sheath clamp	Easy sleeve positioning
	Loss Estimate	Warm splice image estimation
	Electrode	Tool less replaceable electrode

41S Options

Item	Model Name	Remark
Fiber holder	FH-70-250	250um coating dia.
	FH-70-900	900um coating dia.
	FH-60-DC250	250um in drop wire cable
	FH-FC-20	900um in 2mm cable
	FH-FC-30	900um in 3mm cable
	FH-60-LT900	900um loose buffer cable
Sheath clamp	CLAMP-S31A	Normal clamp attached to 41S in standard package
	CLAMP-S31B	900um loose buffer cable
Battery pack*8	BTR-11A	Spare battery pack
Electrodes	ELCT2-16B	Spare electrodes

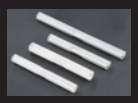
Notes
*1: Measured with a cut-back method relevant to ITU-T standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
*2: Measured at the room temperature. The average splice time changes depending on the environmental condition, fiber type and fiber characteristics.
*3: Measured at the room temperature with the AC adapter. The average time changes depending on the environmental condition, sleeve type and battery pack condition.
*4: The electrode life changes depending on the environmental condition, fiber type and splice modes.
*5: The test condition was
(1) Splice and heat time : 2 minutes cycle
(2) Using the splicer power save settings
(3) Using a not degraded battery pack
(4) At the room temperature
The number of cycles changes when the above conditions changes.
*6: The battery capacity decreases to a half after 200 to 500 recharge cycles, The battery life was shortened more by the out of storage temperature range, out of operating temperature range or complete discharge by storing a long time without recharge.
*7: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.
*8: Please be ware the IATA regulation in case of shipping by air.

Specifications

SS01/03 specifications

Item	SS01	SS03
1) Stripping coating dia.	250um	250um
Fiber dia. after stripping	125um cladding	125um cladding
2) Stripping coating dia.	None	900um
Fiber dia. after stripping	None	250um coating
3) Stripping coating dia.	None	2000 to 3000um
Fiber dia. after stripping	None	900um coating
Dimension	Approx. 164 x 45 x 5mm	
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
Heat shrink operation	Temperature: -10 to 50 degreeC	
	Humidity: 0 to 95% non-condensing	
Storage	Temperature: -40 to 60 degreeC	
	Humidity: 0 to 95% non-condensing	

CT50 Specifications

Item		Specifications
Applicable fiber	Fiber type	Single mode optical fiber
		Multi mode optical fiber
	Fiber count	Up to 12 fibers
	Cladding dia.	Approx. 125um
	Coating dia.	160 to 900um
Cleave length	Fiber plate	AD-10-M24: 5 to 24mm
		AD-50: 10 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle	Single fiber *1	Avg. 0.3 to 0.9 degrees
	Fiber ribbon *1	Avg. 0.3 to 1.2 degrees
Blade life *2		Approx. 60,000 fibers
Physical description	Dimension	Approx. W120 x D95 x H58mm when closing the lever
	Weight	Approx. 305g including battery and AD-10-M24
Environmental condition	Temperature	Operate : -10 to 50 degreeC
		Storage : -40 to 80 degreeC
	Humidity	Operate : 0 to 95% non-condensing
		Storage : 0 to 95% non-condensing
Battery		2 pieces of LR03/AAA dry battery
Wireless interface *3		Bluetooth® 4.1 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation
		Manual rotation dial
	Consumable items	User blade replacement
		User clamp and anvil replacement

CT50 Options

Item	Model Name	Remark
Blade	CB-08	Spare blade
Clamp and Anvil	ARM-CT50-01	Spare clamp and anvil
Dust box	FDB-05	Spare dust box
Side cover	SC-CT50-01	
Fiber plate	AD-10-M24	Coating 160 to 900um
	AD-50	Coating 160 to 3000um
Fiber holder	FH-50 series	
	FH-60 series	
	FH-70 series	

Notes
*1: The average cleave angle was measured with an interferometer, not with the splicer. And, a new blade was used to cleave both the single fiber and 12 fiber ribbon. The average cleave angle changes depending on the environmental condition, blade condition, operating method and cleanness.
*2: The blade life changes depending on the environmental condition, operating method and the fiber type to be cleaved.
*3: Bluetooth® word mark and logos are the registered trademarks of Bluetooth SIG, Inc.

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https://www.fusionsplicer.fujikura.com

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