

# Fusion splicer & Equipment

Compact single core fusion splicer

## SUMIOFCAS Type-45S

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As this has been developed  
to achieve optimum operating efficiency,  
it gives you high speed  
splicing/heating operation.

### Standard package

Item	Quantity	Type
●TYPE-45S main unit	1pc	
●Power supply unit (AC adapter recharger)	1pc	PS-65
●Battery (#1)	1pc	BU-65
●AC cord	1pc	PC-AC4
●Charge cord	1pc	
●Tray for protection sleeve	1pc	
●V-groove brush	1pc	
●Spare electrodes	1 pair	ER-7
●Operation manual	1pc	
●Carrying case	1pc	

\* 1. Additional units may be purchased.

### Features

- Both power sources, AC adapter and battery, are available.
- The portable capability of the T-45S has been improved using the slot-in AC adapter/battery.
- Fiber loading without fiber holder.
- Newly developed FFES optical system provides high speed splicing and clear fiber image, which allows visual check. (FFES-Full fiber in Focus in Equal Size)
- Newly developed heater is capable of high speed heating operation.
- 40 consecutive splicing/heating operation with one fully charge battery.
- The mounting of a large wind protector enables splicing operation in 15m/s strong wind.
- 5.6 inch large TFT color monitor provides clear fiber image even in direct sunlight.
- Protection glass attached to mirror gives you much easier cleaning and maintenance.
- White LED illumination enables identification of a ribbon color and fiber loading even at dark places.
- Automatic arc test insures an optimum arc is achieved for various environmental conditions, as well as splicing different manufactures fiber.

### Specifications

#### Applicable fiber

Material	/ Silica glass
Fiber type	/ Single mode (SMF) Multi-mode (MMF) Dispersion shifted (DSF) Non-zero dispersion shifted (NZ-DSF)
Fiber diameter	/ 125 $\mu$ m
Cleave length	/ 10mm
Number of fibers	/ Single fiber ( $\phi$ 0.25, $\phi$ 0.9mm)

#### Standard performance (Typical)

Splice loss (Identical fibers)	/ SMF fiber..... 0.05dB
	MMF fiber..... 0.03dB
	DSF fiber..... 0.07dB
	NZ-DSF fiber..... 0.05dB

Splice cycle time / 25 seconds

Heater cycle time / Approx. 75 seconds

Splice cycle per full charge of battery / 40 cycles (including heater, using JR-5)

#### Splice programs / 48 (max.)

#### Heating programs / 10 (max.)

#### Functions

- Splice loss estimation
- Splice data storage (250 splicing)
- Fiber condition data storage
- Screening of spliced portion (Tension 1.96N(200gf))
- Built-in high speed heater for thermal protection (Applicable for 40, 60mm sleeve)
- Arc test (With environmental effect compensation function)
- V-groove guide

#### Dimensions

Size	/ 150(W) x 150(D) x 150(H) mm
Weight	/ Approx. 3kg
Monitor display	/ 5.6-inch large TFT color monitor

#### Power supply

/ AC 100-240V, (50/60Hz)
DC 12V