

**New Product**

# *FSM-40S*

## *Optical Fiber Fusion Splicer*



### *FEATURES*

- *Core-to-core fiber alignment system (PAS)*
- *Fast splicing & Full automatic operation*
- *Compact, lightweight and various power supply options*
- *2 CCD cameras, No up-down mirror*
- *High resolution 5 inch color LCD monitor*
- *Simultaneous X & Y axes observation*
- *Automatic Arc calibration function for stable arc discharge*
- *Automatic fiber type identifier and self diagnostic test function*



Top View of FSM-40S



Accessories

## SPECIFICATIONS

● Applicable fibers	SM(Singlemode), MM(Multimode) and DS(Dispersion shifted) fibers. NZ-DS (Non-zero dispersion shifted),CS(Cut-off shifted) and ED(Er doped) fibers are also applicable with special mode.
● No. of fibers to be spliced	Single to single fiber.
● Fiber cleaved length	8 to 16mm with 250µm outer coating diameter. 16mm (standard) or 8 to 16mm (option) with outer coating diameter of more than 250µm up to 1000µm (1.0mm).
● Actual average splice loss	0.02dB with SMF, 0.01dB with MMF and 0.04dB with DSF to ITU-T Recommendations G.652, G.651 and G.653 respectively, when measured by the cut-back method to relevant ITU-T and IEC standards.
● Splicing time	Typical 18 sec.
● Return loss	>> 60dB.
● Splicing modes	40 user programmable modes and up to 60 modes for reference (factory predetermined setting).
● Splice loss estimate	Core deformation and MFD mismatch as well as core axial offset can be taken into account for more accurate estimate.
● Attenuation splice function	Intentional high splice loss of 0.1dB to 15dB (0.1dB step) can be made for an in-line fixed attenuator.
● Storage of splice result	The last 2000 results to be stored in the internal memory.
● Fiber display	X/Y, or both X and Y simultaneously.
● Magnification of fiber	264X or 132X.
● Viewing method	CCD camera and 5" TFT color LCD monitor.
● Altitude, Humidity and Temperature compensation	0 to 3,500m above sea level. 0 to 95%RH and -10 to 50°C, respectively.
● Mechanical proof test	2N (standard) / 4.4N (option)
● Tube heater	Built-in tube heater with 30 heating modes.
● Applicable protection sleeve length	60mm, 40mm and a series of micro sleeves.
● No. of splices with detachable battery	Approx. 40 times (including heatings) per full charge with BTR-05.
● Power supply	Auto voltage selection from 100 to 240Va.c. with ADC-07, 10.5 to 14Vd.c. with DCA-01 and 12Vd.c. with BTR-05.
● Wind protection	Max. wind velocity of 15m/s.
● Dimensions	172W x 186D x 180H (mm)
● Weight	4.4kg (4.9kg including AC adapter ADC-07).

## ITEMS INCLUDED WITH THE FSM-40S SPLICER KIT

Item	Description	Model No.	Q'ty
(1)	Single fiber fusion splicer	FSM-40S	1pc.
(2)	Detachabele AC adapter / Battery charger	ADC-07	1pc.
(3)	AC power cord	ACC-XX	1pc.
(4)	Spare electrodes	ELCT1-25	1pair
(5)	Top cover	TC-03A	1pc.
(6)	Monitor cover	MC-01	1pc.
(7)	Rugged FRP case	CC-02	1pc.
(8)	Instruction manual	-	1pc.

## OPTIONAL ACCESSORIES

Description	Model No.
Detachabele battey pack	BTR-05
Battery charge cord	DCC-08
Detachabele DC adapter	DCA-01
DC power cord	DCC-01/04/05
Working table	WT-5
Workig table support	WTS-1
J-plate	JP-03A
High precision fiber cleaver	CT-03/04/07/103/104/ 107
Primary coat stripper	PS-02
Nylon Jacket stripper	JS-01
Alcohol dispenser	HR-1
Protection sleeves	FP-03/03(40mm),FPS01-250-20/25/34

Specifications and descriptions are subject to change without prior notice.

**Fujikura Ltd.**

**Fujikura Europe Ltd.**

**Alcoa Fujikura Ltd. Telecommunications Division**

**Fujikura Asia Ltd.**

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan  
Phone : 03-5606-1164 Fax : 03-5606-1534 <http://www.fujikura.co.jp>

C51 Barwell Business Park, Leatherhead Road, Chessington,Surrey KT9 2NY, UK  
Phone : 020-8240-2000 Fax : 020-8240-2010 <http://www.fujikura.co.uk>

150, Ridgeview Circle, Duncan, SC29334, USA  
Phone : 1-800-AFL-FIBER Fax : 864-433-5353 <http://www.afl-link.com>

460 Alexandra Road #22-01 PSA Bldg., Singapore 119963  
Tel : 2711311 Fax : 2736532 <http://www.fujikura.com.sg>