

# *FSM-30S*

## *Optical Fiber Fusion Splicer*

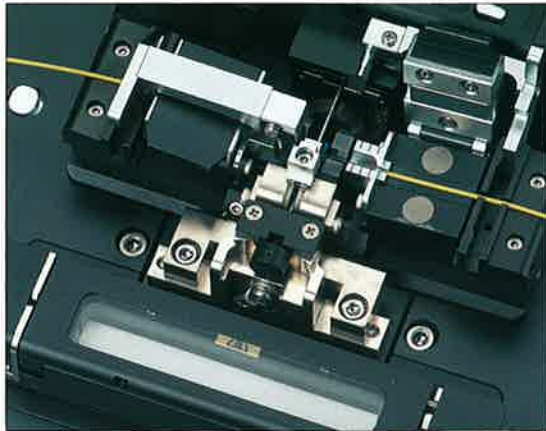


### *Features*

- *Core-to-Core Fiber Alignment System (PAS)*
- *Simultaneous X & Y axes observation*
- *Auto Power Control Function to automatically optimize arc condition*
- *Switchable tube heater program for 40 mm or 60 mm splice protectors*
- *Optional PCMCIA memory card to allow increased data storage*

 **Fujikura**

## The top panel of FSM-30S



## High Precision Fiber Cleaver (Option)



### SPECIFICATIONS

●Applicable Fibers	Silica based optical fibers : SMF, GIF, DSF, cut-off shifted, and Er doped fiber
●No. of Fibers to be spliced	Single to Single fiber
●Cleaved Fibers' Length	8 to 16mm each with 250 $\mu$ m outer coating diameter 16mm (as a standard) and 8mm (as an option) with 900 $\mu$ m coat fiber diameter
●Actual Average Splice Loss	0.02 dB with SMF, 0.01 dB with GIF and 0.05 dB with DSF to ITU-T Recommendations G.652, G.651 and G.653 respectively, when measured by the cut-back method to the relevant ITU-T and IEC standards.
●Return Loss	> > 60 dB
●Splicing Program	4 factory predetermined programs. One each for (SM, GI, DS and cut-off shifted fiber, respectively). 30 user definable programs (irrespective of SM, GI, DS, cut-off shifted and/or Er doped fiber)
●Splice Loss Estimation	To be made with SMF, GIF, DSF (1550nm) and cut-off shifted fiber (1550nm)
●Splice Loss Control Function	Intentional high splice loss range from 1 dB to 15 dB with 1 dB step for an in-line fixed attenuator.
●Storage of Splice Results	a. 100 splice results stored in the internal memory Additional data storage may be obtained using an optional commercially available memory card such as ; b-1. 1,600 splice results with a 64 kbytes memory card (PCMCIA Type I and II) b-2. 24,000 splice results with a 1 Mbytes memory card (PCMCIA Type I and II) The stored data in the PCMCIA memory card can be loaded into an IBM compatible PC with a PCMCIA Read Out Software, Model No. DCF-30S-11. The Software is attached to FSM-30S, in which the PCMCIA Memory Card Slot is installed. The PCMCIA (Type I and II) card slot is supplied by Fujikura as an optional item when so ordered, however the PCMCIA card shall be obtained commercially.
●Viewing Angle	Both X and Y axes simultaneously, but focused in one each axis sequentially.
●Viewing Method	CCD camera and 5" LCD monitor
●Altitude, Humidity and Temperature Compensation	0 to 3,500 meters above sea level, 0 to 95% RH and -10 to 50 $^{\circ}$ C, respectively.
●Mechanical Proof Test	2 N (1/2 $\mu$ or 23 KPSI) standard unless otherwise ordered or 4.6 N (1 $\mu$ or 50 KPSI) if so ordered.
●Built-in Heater	Both 60mm and 40mm long splice protectors are applicable.
●Power Supply	Auto voltage selection from 85 to 265 Va.c. and 10 to 15 Vd.c.
●Dimensions	210W $\times$ 187D $\times$ 173H mm
●Weight	8.0kg (Splicer)

### ITEMS INCLUDED WITH THE FSM-30S SPLICER KIT

Item	Description	Model No.	Q'ty
(1)	Single Fiber Fusion Splicer	FSM-30S	1 pc.
(2)	FRP Carrying Case	—	1 pc.
(3)	AC Power Cord	—	1 pc.
(4)	Instruction Manual	—	1 pc.
(5)	Spare Electrodes	—	1 pair.
(6)	Spare Fuses	—	1 set.
(7)	Spare Mirror	—	1 pc.
(8)	Tool Set*(4)	—	1 set.

### OPTIONAL ACCESSORIES

Description	Model No.
PCMCIA Memory Card Slot *(1) * (2)	MCS-01
PCMCIA Read Out Software * (4)	DCF-30S-II
Splice Protector	FP-3 and FP-3 (40mm)
High precision Fiber Cleaver	CT-03/04/07, CT-103/104/107
Primary Coat Stripper for 0.25mm O.D.	PS-02
Nylon Jacket Stripper for 0.9mm O.D.	JS-01
Alcohol Dispenser	HR-1

\* (1) The PCMCIA (Type I and II) card slot is supplied by Fujikura as an optional item when so stated in P.O., however the PCMCIA card shall be purchased on the market.

\* (2) Both MCS-01 and DCF-30S-II shall be ordered upon placing an order.

\* (3) Consists of an hexagonal wrench and a pair of tweezers.

\* (4) The Software is included in the Memory Card Slot, when ordered.

Specifications and descriptions are subject to change without prior notice.

## Fujikura Ltd.

5-1, Kiba 1-chome, Koto-ku, Tokyo 135-8512, Japan  
Phone: +81(3)5606-1164 Fax: +81(3)5606-1534 Telex: 246-6655 FIWCCS J

## Fujikura Europe Ltd.

C51 Barwell Business Park Leatherhead Road, Chessington Surrey, KT9 2NY, UK  
Phone: +44(181)240-2000 Fax: +44(181)240-2010

## Alcoa Fujikura Ltd. Telecommunications Division

150, Ridgeview Circle, Duncan, SC29334, USA  
Phone: 1-800-AFL-FIBER Fax: (864)433-5353

## Fujikura Asia Ltd.

460 Alexandra Road #22-01 PSA Bldg., Singapore 119963  
Phone: +65-2711311 Fax: +65-2736532