

# FUJIKURA 80S FUSION SPLICER

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Explosion of data traffic by smartphone, renewal of back-bone network in accordance with the spread of FTTH (Fiber To The Home) network, and a series of new submarine cable projects in emerging countries build for basic telecom infrastructure drives the demand of fusion splicers.

 **Fujikura**



Fujikura 80S is the latest single fiber core alignment fusion splicer covering various splicing needs in those fields with a series of innovative features, such as automated wind protector / tube heaters, 7-second splicing and 14-second tube heating, ruggedized body, improved carrying case and etc. They are all for great splicing efficiency.

## Features:

- Fully automatic operation - **Splicing time < 7s, Heating time < 14s.**
- Extended electrode life - > 3000 times.
- Automated wind-protector / tube heater for quick operation - World's quickest splicing / heating times by reducing splicing steps.
- Shock / dust / resistance features - **World's first 6-direction 30 inch drop proof test,** tough in harsh conditions.
- Wide color LCD monitor - High resolution 4.7 inch monitor with better visibility under the sun.
- Powerful Li-ion battery - 200 splice / heating per full battery charge.
- Pre-installed user guidance manual - From basic operation guidance to trouble shooting procedure.
- Innovative carrying case design with detachable working table.



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## Specifications:

ITEM	SPECIFICATIONS
Applicable type of fibers	SM(ITU-T G.652), MM(ITU-T G.651), DS(ITU-T G.653), NZDS(ITU-T G.655) and other single mode fibers including ITU-T G.657 fibers.
Fiber count	Single
Applicable fiber dimensions	Cladding diameter : 80 to 150 $\mu$ m Coating diameter : 100 to 3000 $\mu$ m
Fiber setting and cleaved length	Sheath clamp C (Standard) : For coating dia. 100 $\mu$ m-3000 $\mu$ m (5 to 16mm cleave) Sheath clamp D (option) : For coating dia. 900 $\mu$ m loose tube (5 to 16mm cleave) Fiber holder (option) : FH-60-250, FH-60-900 (5-13mm cleave)
Splicing modes	Total 100 modes
Typical splice loss	0.02dB with SM, 0.01dB with MM, 0.04dB with DS and 0.04dB with NZDS.
Return loss	>60dB
Splicing time	Typical 7s with SM FAST, 10s with SM AUTO and 15s with AUTO modes with standard SM(ITU-T G.652).
Splice loss estimate	Available
Attenuation splice function	Intentional high splice loss of 0.1dB to 15dB (0.1dB step) can be made for an in-line fixed attenuator.
Tube heater / heating time	Built-in tube heater with 30 heating modes. / Typical 14s with Fujikura FP-03.
Applicable protection sleeve	60mm, 40mm and Fujikura FPS01 series.
Storage of splice result	splice data : 2000, image data : 100
Tension test	1.96 to 2.25N
Operating condition	0 to 5,000m above sea level, 0 to 95%RH and -10 to 50 °C and up to 15m/s wind velocity, respectively.
Storage condition	0 to 95%RH and -40 to 80 °C respectively. Battery : -20 to 30 °C for long term.
Dimensions	146W x159Dx150H (mm) excluding rubber foot.
Weight	2.5kg with AC adaptor ADC-18, 2.7kg with battery BTR-09.
Viewing method and display	Two CMOS cameras and 4.73" color LCD monitor.
Fiber view and magnification	X / Y (320X magnification), or both X and Y simultaneously (200X magnification).
Power supply	100 to 240V AC or 10 to 15V DC with ADC-18. 14.8V DC with BTR-09.
Number of splice cycles with battery	Typical 200 cycles (splice / tube heat) with BTR-09.
Electrode life	3000 arc-discharges
Terminals	USB 2.0(Mini-B) connector for PC communication. 6-pin Mini-DIN connector for HJS power supply.

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## Splicer Comparison:

Model No.	80S	FSM-60S	Result
Dimension (mm)	146W x 159D x 150H	136W x 161D x 143H	Size almost the same.
Weight	2.7kg (Battery included)		Same weight.
LCD Monitor	4.73inch	4.1inch	Larger Screen.
Splicing Time	7s	9s	Faster splicing time.
Heating Time	14s	30s	Faster heating time.
Splice Length (Single Side)	5mm-16mm	8mm-16mm	Shorter splice length.
Automatic Steps	4 steps	9 steps	Faster operation.
Electrode Life	3000 times	2500 times	Cost saving on electrode.
Reflective Mirror	No	2 mirrors	Easier for cleaning & maintenance.
Number of Splice Cycles with Battery	200 times	160 times	More cycles for longer operation.

## Ordering Information:

FSM-80S-GO4KIT Standard Package		
Description	Model No.	Qty
Main Body	80S (English and Simplified Chinese Language)	1 pc
AC Adapter	ADC-18	1 pc
Power Cord	ACC-16 (UK)	1 pc
Carrying Case	CC-30	1 pc
Electrode	ELCT2-20A	1 pair
Manual and software	M-80 (Instruction manual and PC software)	1 pc
Quick Start Guide	Q-80S/19S-E (English)	1 pc
Warning and Caution	W-80-E	1 pc
USB Cable	USB-01	1 pc
Sleeve Loader	SL-01	1 pc
Alcohol Pot	AP-01	1 pc
Screw Driver	SD-01	1 pc
Cleaver	CT-30A	1 pc
Battery Pack	BTR-09	1 pc
Battery Charge Cord	DCC-18	1 pc



Carrying Case

(Working Platform included)

