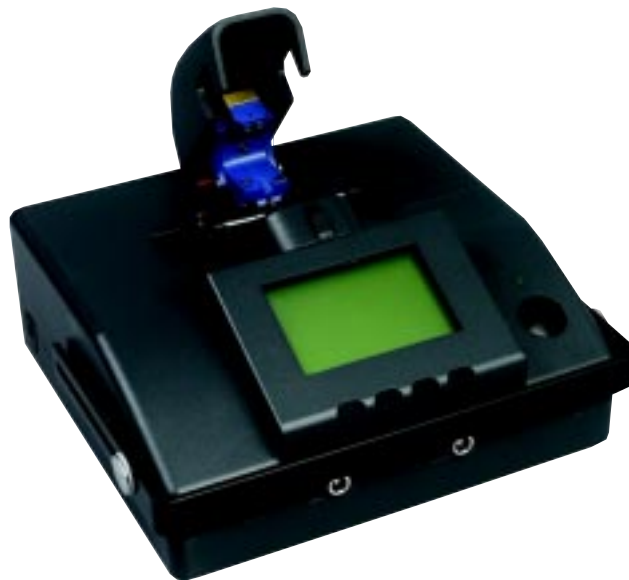


Fusion Splicing

made easy



Fiber Holder



Loose Fiber

- ▶ **Rugged Field Design**
- ▶ **Low Loss – SM 0.03 Typical**
- ▶ **Ultra Fast Splicing Cycle – 7s**
- ▶ **Ultra Light Weight – 1.8 kg**

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Future Instrument Fiber Optics AB is a Swedish company, founded in 1999. Future Instrument Fiber Optics actively contributes to the fiber optical communications technology by making high performance, cost efficient instruments for factory and field use. The product line consists of innovative tooling solutions, compact fusion splicers and hand held video tools for fiber connection inspection.



The EFS-1 Splicers from Future Instrument Fiber Optics are rugged, compact and intelligent arc fusion splicers for SM and MM fibers, with performance and portability well adapted to the field operator.

High precision fixed v-grooves ensure good fiber alignment and result in minimal sensitivity to dirt and dust.

Electric arcs give precise and fast control of the heating parameters.

All splicers are preprogrammed with 20 program slots, 10 slots preset from factory and 10 slots free for programming from PC.



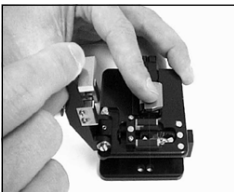
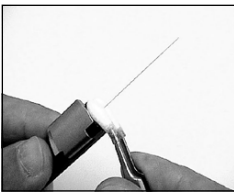
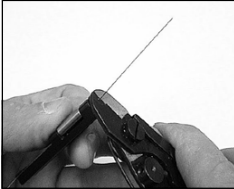
- **Simple operation**
- **Low weight**
- **Fast splice cycle – 7s**
- **Low loss – SM 0.03 typical**
- **Loss estimation**
- **Tension test**
- **Multiple languages**
- **Angle detection**
- **Offset detection**
- **Automatic fault detection**
- **Self diagnosis**
- **Electrode cleaning signal**
- **Splicing memory: 500 splices**
- **Metal housing**
- **Fiber holders, loose fiber**
- **250/400/900/2200/3500 μm ϕ fiber**
- **Fixed v-groove**
- **Monochrome monitor**
- **Handle**
- **Battery operation**
- **Line power operation**
- **Low power consumption**
- **Small footprint**
- **Rugged case**



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Easy Fusion Splicing Step by Step

**EFS-1
Fiber Holder**



**EFS-1F
Loose Fiber**



Strip

Place stripper close to edge of fiber holder, or at selected stripping distance. Close stripper and pull firmly to remove coating.

Clean

Use cotton bud or wipe soaked in alcohol. Pull along fiber while pressing. Repeat until squeaking sound.

Cleave

Put fiber or fiber holder into cleaver. Check that fiber is straight and close. Score and crack fiber. Remove cleaved fiber and fiber cut-off.

Place

Place fiber or fiber holder into splicer and close clamp.

Close

Close electrode house.

Select

Select splicing program

Start

Start splicer



Technical data EFS-1

Fiber types	SMF, DSF, MMF 50/100 μm , 250 μm primary coated fiber. 900 μm secondary coated fiber. 2200/3500 μm tight buffer or loose tube coated cables
Fiber handling	Fiber holders both sides
Splice programs	10 pre-defined and 10 user definable
Splice loss	Typical 0.03 dB SMF and typical 0.1 dB MMF
Remote control	TCP/IP or RS232 to PC
Monitor	LCD monochrome 71x49 mm, 320x200 pixel
Magnification	140x on internal monitor
Storage	-20° to +60°C, max 98% RH, non-condensing
Operating	-20° to +50°C, max 95% RH, non-condensing
Size	176x166x100 mm (WxDxH)
Weight	1.8 kg
Power source	50W power supply, 90-260VAC, 50-60Hz. NiMH battery unit, 9.8V, 1800 mA

Technical data EFS-1F

As for EFS-1 except

Fiber handling	Loose fibers both sides
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Accessories

- Case
- Power Supply 90-260VAC, 50-60Hz
- NiMH Battery 9.8V, 1800 mA (80 splicing cycles)
- Battery Charger
- Ethernet or RS232 Cable
- Heat Oven
- Clamping Tool
- Cleaver
- Stripper
- Toolkit



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