

# Core Alignment All In One Fusion Splicer

*Single Optical Fiber Fusion Splicer*

US Patent 11/9 12,109

## *Swift-S5* The Revolution of a Splicer

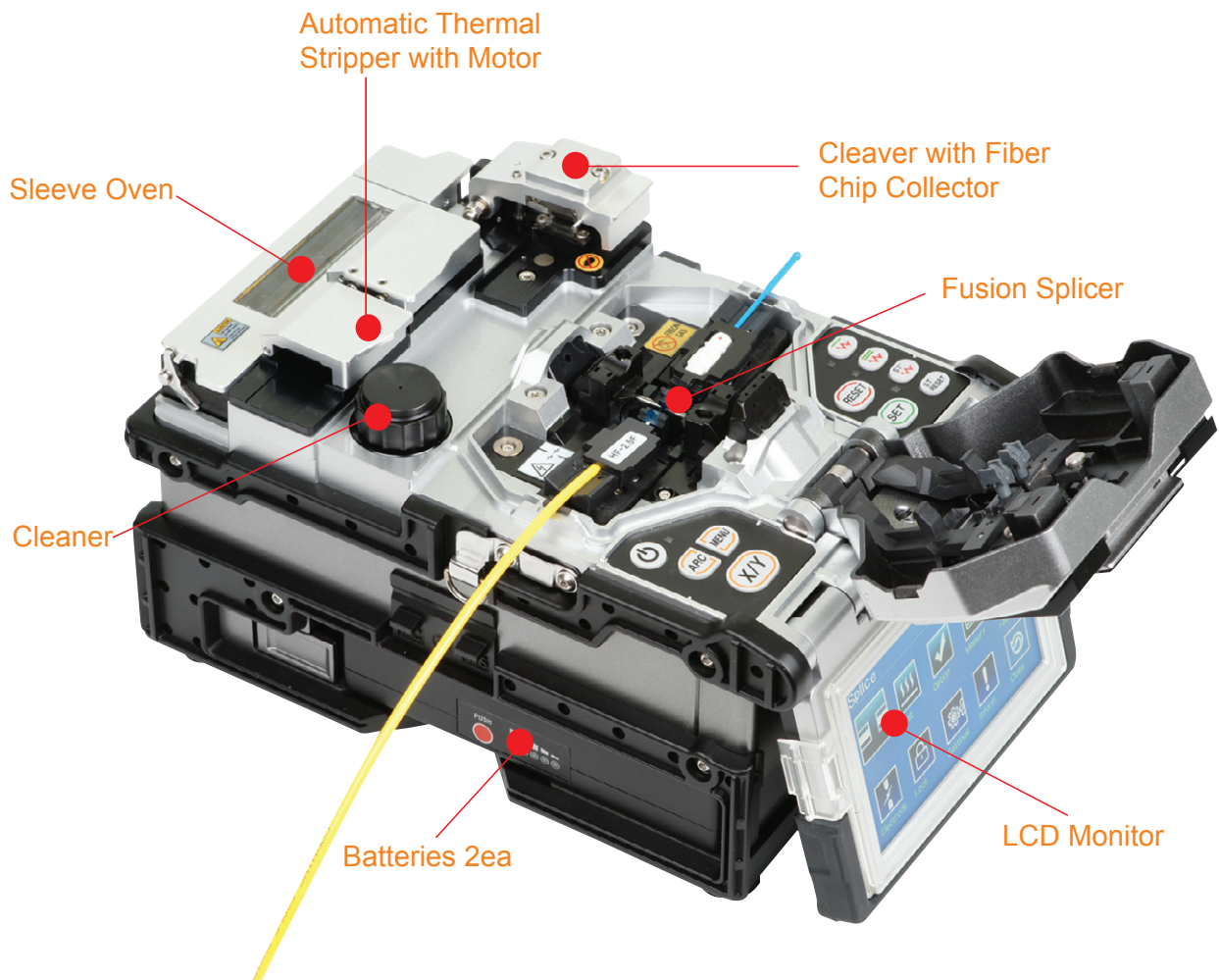


### Features

- ◉ Integrated to All-In-One
- ◉ Ruggedized Design Against Shock, Dust, Rain
- ◉ Long Battery Life more than 320times Full-Cycles
- ◉ Dual Sleeve Heater
- ◉ No Scratches on Bare Fiber by Heating Stripping
- ◉ Navigational Touch Screen with 4.3 Color Monitor
- ◉ Attached Sleeve Loader
- ◉ Compatible for SOC Connector (Option)

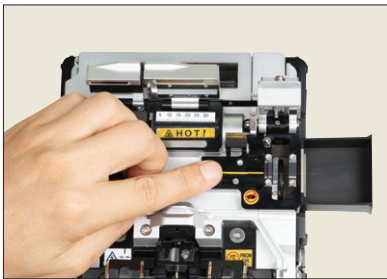
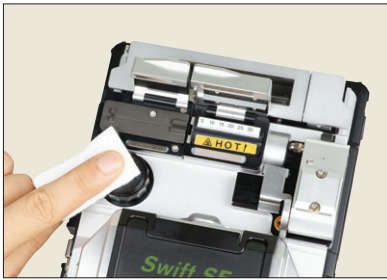
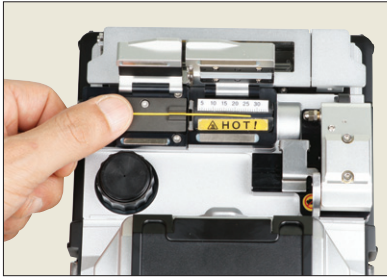
# Swift-S5

The Swift S5's ergonomic design enables the user to complete all five processes of optical fiber splicing (stripping, cleaning, cleaving, splicing and sleeving) quickly and conveniently. The All-In-One design eliminates the need for a large work space of a traditional fusion splicer design that uses all of the prep tools (manual stripper, cleaver, alcohol bottle) separately. Also, the automatic thermal stripper conveniently strips 250um and 900um without scratching the fiber that is typical when using hand held mechanical fiber strippers. This, in turn, reduces the chances of failure that may be caused by the scratches introduced when using mechanical strippers.



## Benefits and Features

# Swift-S5



### Over 5kg/f Tensile Strength of Fiber after Stripping

- No scratches with heating stripping
- Over one-million cycle motorized
- Strip time : 1.5sec

### Cleaning

- One-touch pump type
- Easy to refill cleaning alcohol

### Cleaving

- Single-action cleaving
- Fiber chip collector is attached

### Resistant Shock, Dust and Rain

- Most reliable and most stable fusion splicer against hard environmental conditions such dust, shock, rain
- Shock - Free Fall : 76cm from 5 sides
- Waterproof : IPx2
- Dustproof : IPx5

### Powerful Lithium Polymer Battery with Large Capacity

- More than 320 times for full cycling of splicing and sleeving when fully charged.

### Automatic Arranging ARC.

- Detects the temperature, the humidity, the pressure for automatically to calibrate the ARC discharge properly.



# Swift-S5

## Benefits and Features

### 4.3 inch color monitor with touch panel.

- Magnification : 300X, 170X
- User-friendly and ergonomically designed by navigational touch screen.

### Bi-directional operational system

- The monitor can be viewed bi-directionally for user's preference.

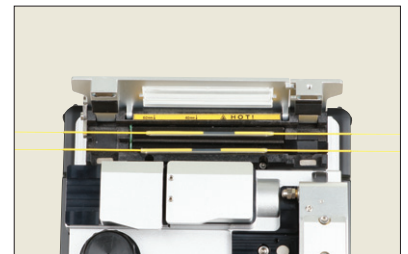
### Equipped with Sleeve Loader to Prevent Contamination and Provide Convenience

- Prevents contaminating sleeve in manhole and also prevents sleeve from falling when splicing in the air.

### Built-in Dual Sleeve Heaters

- Users can work continually without interruption to increase the efficiency up to 30%

### Compatible for SOC Connector Telcordia-GR-326 Compatible



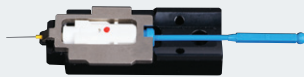
SC Connector-APC, UPC

LC Connector-APC, UPC

FC Connector-APC, UPC

ST Connector-APC, UPC

Refer to Swift SOC Catalog



SC Connector



LC Connector



FC Connector



ST Connector



## SPECIFICATIONS

| Subject                           | Description   |
|-----------------------------------|---|
| Alignment                         | IPAS Core to Core Alignment (Image Pattern Analysis Alignment System)   |
| Applicable fibers                 | SMF(ITU-T G.652), MMF(ITU-T G.651), DSF(ITU-T G.653), NZDSF(ITU-T G.655), EDFA, EI980, Splicing available with different type fiber(SM/MM), ITU-T G.657 |
| Fiber Diameter                    | cladding : 80 $\mu$ m ~ 150 $\mu$ m, coating : 100 $\mu$ m ~ 1000 $\mu$ m (single)  |
| Fiber cleave length               | 250 $\mu$ m (Coat) : 8 ~ 16mm, 900 $\mu$ m : 16mm   |
| Typical splice loss               | SMF : 0.02dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB  |
| Return loss                       | Less then -60dB   |
| SPLICE Time                       | SPLICE : Typical 9sec, Tube Heat : Typical 20 ~ 26sec with S-160(60mm) Tube   |
| Program                           | SPLICE Mode : 100, Heat Mode : 50   |
| Storage of splice result          | the last 2,000 results (Image 100 results)  |
| Operating altitude                | 0 ~ 5000m above sea level   |
| Operating condition               | -10℃ to 50℃, humidity : 95%, non-Condensing   |
| Storage condition                 | -40℃ to 80℃, 0 to 95% RH  |
| Protection                        | Wind 15 $\frac{m}{s}$ , shock proof, water proof, dust proof  |
| SIZE, Weight                      | 140W × 225L × 125H (include Monitor & Rubber), 2.95Kg (include Battery)   |
| Terminal                          | USB, RCA, External Power  |
| Power                             | DC 14.8V Battery (7700mAh), 100 ~ 240V AC Adapter   |
| Additional power                  | DC 12V automobile cigar jack available  |
| No of splice/Heating with Battery | 320 cycle, lithium polymer batteries  |
| Electrode                         | more than 2,000 times splicing without exchange   |
| Mechanical proof test             | 2N / 4.4N (OPTION)  |
| Display                           | Two CMOS cameras and 4.3"color LCD monitor, with touch panel  |
| Fiber view and magnification      | X/Y 300X, 170X  |

## STANDARD PACKAGE

| Description  | Model | Q'ty |
|--|-------|------|
| Fusion Splicer with Auto Stripper, Cleaner unit, and Cleaver | S5    | 1set |
| AC Adapter   | S311  | 1    |
| Battery Pack   | S513  | 2    |
| Spare Electrodes   | EI-21 | 1    |
| Sleeve Loader  | S312  | 1    |
| Carrying Case  |       | 1    |
| User Manual  |       | 1    |

## OPTION

| Description        | Model   |
|--------------------|---|
| Connector Holder   | HS - SC, LC, FC, ST<br>Refer to All in one Swift F1 catalog |
| Electrode          | EI-21   |
| Cleaver Blade      | BI-05   |
| Spare Cleaver      | CS-03B, CI-01, CI-03B                                       |
| Spare Battery      | S513  |
| Protection Sleeves | S-160(60mm), S-140(40mm)                                    |
| SOC Connector      | SC, LC, FC, ST, CH Refer to SOC catalog                     |

## BASIC ITEMS

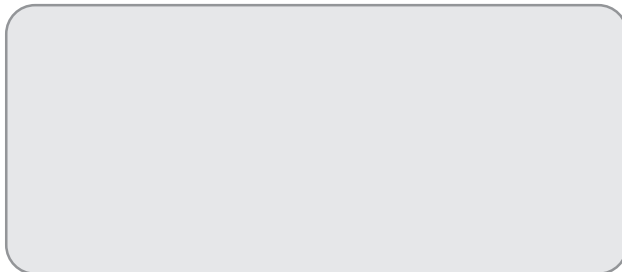


## OPTIONAL ITEMS





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