

# Core Alignment All in one Fusion Splicer

Single Optical Fiber Fusion Splicer

PCT/KR2008/003533

## Swift-S5

### The revolution of a splicer



### Features

- Integrated to all-in-one
- Ruggedizing designed against shock, dust, rain
- Long battery life more than 320times full-cycling
- Dual sleeve heater
- No crack on bare fiber by heating stripping
- Navigational touch screen with 4.3 color monitor
- Attached sleeve loader
- Compatible for SOC connector

# Swift-S5

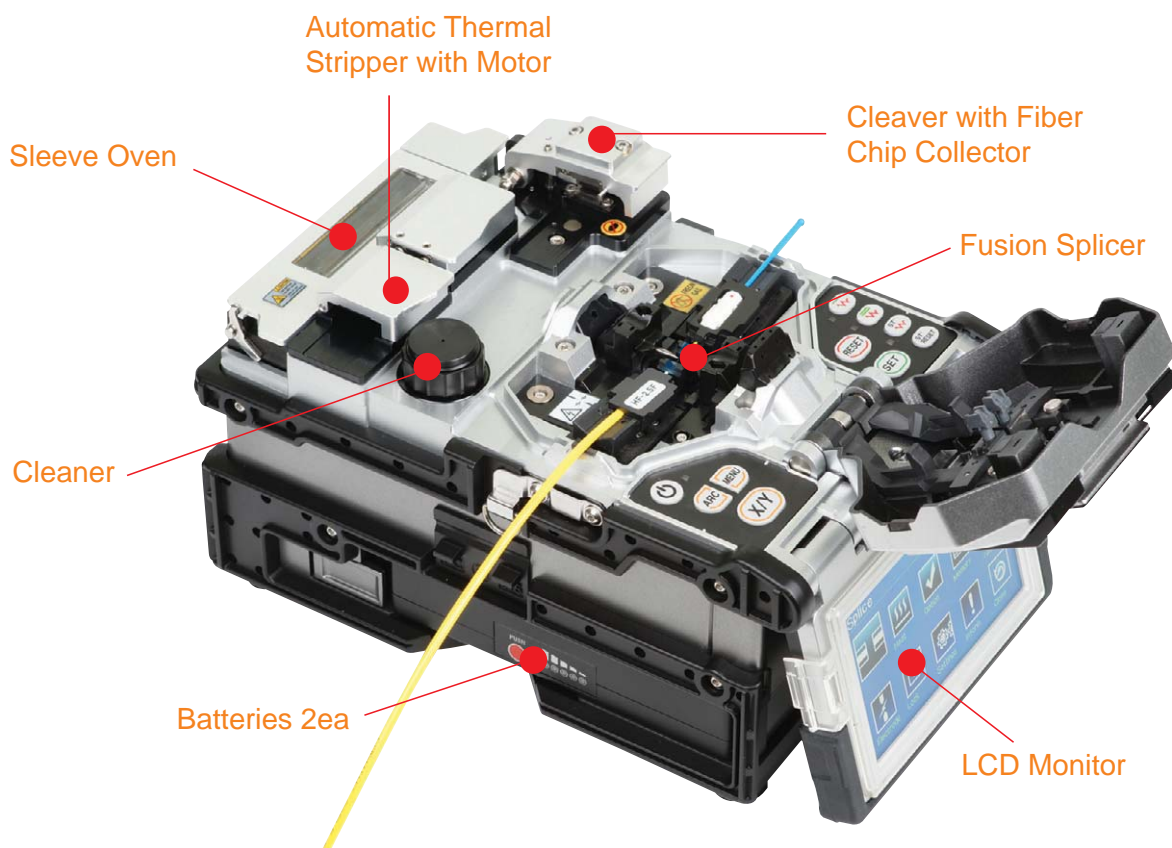
Do you know frustrated are the installers when they carry all prep-tools such as stripper, cleaver, cleaner, fusion splicer separately for serial working?

Do you know where it is most weak point in fiber optic cable networks?

Needless say, it is splicing point due to crack accrued from mechanical stripping, it becomes slowly weak and finally cut off, once cracked on bare fiber, due to environmental shaking, stretching and shrinking repeatedly resulted in different coefficient of thermal expansion of iron rod, sleeve, fiber optic cable by radical change of temperature even complementarily shrinked.

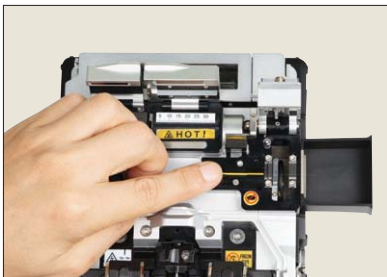
The Ilsintech has developed all-in-one to solve this problem with perfectly designed blade making no crack on bare fiber, automatic heating stripper, cleaver and splicing.

It is called like " Fantastic ART"



## Benefits and Features

# Swift-S5



### Over 5kg/f Tensile strength of fiber after stripping

- No crack 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
- Easy to refill cleaving alcohol
- Fiber chip collector is attached

### Resistance to the Environment with Dust, Shock 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

- Working more than 320 times for full cycling of splicing and sleeving when full-charged once.

### Automatic Arranging ARC.

- Detecting the temperature, the humidity, the pressure for themselves 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 the water from flowing the complementary sleeve downward in manhole working and also prevent falling the sleeve when working in air pole.

### Built-in Dual Sleeve Heaters

- Users can work continually without interruption to increase the efficiency up to 20%

### Compatible for SOC Connector meeting up to the grade of **Telcordia-gr-326**



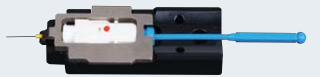
SC Connector-APC, UPC

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 $\mu\text{m}$ ~ 150 $\mu\text{m}$ , coating : 100 $\mu\text{m}$ ~ 1000 $\mu\text{m}$ (single)
Fiber cleave length	250 $\mu\text{m}$ (Coat) : 8 ~ 16mm, 900 $\mu\text{m}$ : 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 $\text{m/s}$ , shock proof, water proof, dust proof
SIZE, Weight	140W $\times$ 225L $\times$ 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
Sleeve Loader	S312	2
Spare Electrodes	EI-21	1
Battery Pack	S513	1
Carrying Case		1
User Manual		1

## OPTION

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

## BASIC ITEMS

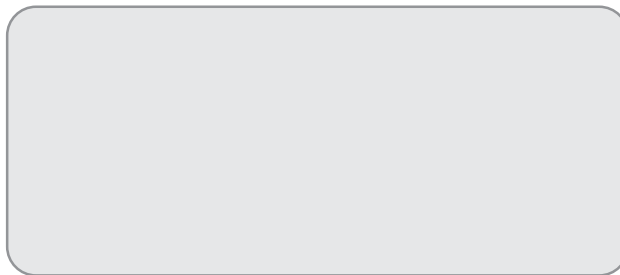


## OPTIONAL ITEMS





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