

## The World's Fastest and Easiest Core-Aligning Fusion Splicer, Stable, Reliable, Affordable

# Fusion Splicer TCW-605S



The **TCW-605S Series** adopt high-speed image processing technology and special precision- positioning technology, automatically finish the whole process of fiber fusion in 8 seconds typically, TFT LCD monitor displays all steps of fiber fusion clear at a glance.

Widely used for SM and MM Quartz Fiber with diameter 80-150 $\mu$ m, coating layer diameter 0.1-1.0mm and bare fiber length 16mm more or less.

Ideal tools for construction and maintenance of fiber and cable in both field and laboratory applications.

Support Chinese, Japanese, Germany, Spanish, Russian, Korea, Portuguese, French, Italian, Turkish, English etc.

### Features

- Anyone anytime anywhere can use easily
- Not only a Fusion Splicer, but also your partner who make your job easy and happy
- The rugged construction plus improved reliability by resisting shock, dust, and rain
- 5.6 inch TFT color LCD monitor with anti-reflective coating
- The advanced core to core fiber profile alignment system(PAS)
- ARC Calibration FREE system  
ARC Calibration sub-menu included in the Menu too, can do the ARC Calibration by Manual when necessary
- X/Y axes was displayed or both X and Y were displayed simultaneously, Magnification up to 300 times
- 8 seconds splicing time, 28 seconds Heat-Shrinking
- Battery capacity was display in real time, precisely
- Built-in high capacity battery, support 220 cycles(splicing /tube heating), to meet one days' work
- Long Electrode Lifetime, up to 4000 times
- The new wind-cover design, enhance the ability to prevent the dust & wind, Max. wind velocity of 15m/s
- Two Splicing modes: auto, manual
- Built-in super high-brightness LED supply convenience for night work
- Auto calculate splicing loss based dual camera cladding axis alignment data
- Small bulk and light weight, only 2.8kg include battery
- 4000 results Storage
- 2.0 USB data interface &VGA
- Carrying Case can act as work table to splice the fiber
- One button operation to finish results download or software update
- Close shield splice automatically, Close heater lid heat automatically
- One year warranty( TWO years or THREE years warranty is available for special order)

**Technical Specifications**

<b>Optical Specifications</b>	<b>TCW-605S</b>
Fiber Types	Single mode (ITU-T G.652), multimode (ITU-T G.651), dispersion shifted (ITU-T G.653), non-zero dispersion shifted (ITU-T G.655) and other SMF including ITU-T G657 fibers
Average Splicing Loss	0.02dB with G.652 and G.657, 0.01dB with G.651 and 0.04dB with G.653 and G.655
Splicing Time	Typical splicing time:8s
Heating Time	Typical heating time:28s
Return Loss	60dB or greater
Fiber Coating	100µm to 1000µm
Fiber Cladding	80µm to 150µm
Fiber Cleave Length	8~16mm(coating diameter<250µm), 16mm (coating diameter 250~1000µm)
Program	10 units factory setting SM program, 10 units factory setting MM program, and 30 units user setting SM program,30 units user setting MM program
Align Mode	Advanced profile alignment system(PAS)
Storage	4000 results
Data Transmission	USB port &VGA
Heater	Built-in tube heater, AUTO Heat Mode.
Heat-Shrinkable Tube	40mm, 60mm and a series of micro Heat-Shrinkable Tubing
Screen Display	Two CMOS cameras,5.6 inch 640*480 TFT LCD, core of the fiber is clearly visible
Lighting for Construction	Built-in super High-brightness LED supply convenience for night work
Magnifications	300X for single X or Y view, 300X for X and Y view(left/right),150X for X and Y view(up/down)
Work mode	Automatic, Manual
<b>General Specifications</b>	
Power Supply	Alternating Current:100-240 50Hz/60Hz 30W, Direct current:13.5V/4.5A Built in 11.1V Li-ion battery charger and AC adaptor
Battery Life	Support 220 cycles( splicing and tube heating)on one charge(3.5hours) at least
Battery Lifetime	Cycle life up to 300~500 times, replaceable
Tension Test	2N
Electrode Lifetime	>4000 times, replaceable
Operating Temperature	-25℃ ~ 50℃
Storage Temperature	-40℃ ~ 80℃
Relative Humidity	0 to 95% (non-condensing)
Work Altitude	0~5000 meters above sea level
Instrument Weight	2.3kg (no battery) with AC/DC adapter, 2.8kg(including battery),
Dimensions(L x W x H)	160mm×150mm×145mm
Package G.W/N.W	10.0/9.0kg
Package (L x W x H)	620mm×420mm×360mm



**Note:** Specifications subject to change without notice.

**STANDARD PACKAGE:**

ARC Fusion Splicer, Carrying Case, High Precision Fiber Cleaver, Tri-hole Fiber Coat Stripper, AC Adapter/Battery Charger, Battery Charger Cord, Battery Pack, Spare Electrodes(one pair), Blower Brush, V-groove Cleaning, Quick Reference Guide, Video Instruction Manual, Cooling Tray, Alcohol Dispenser, Monitor Coating, Monitor Cover, USB Flash Disk.

Description	Model	Qty	Photo	Description	Model	Qty	Photo
ARC Fusion Splicer	TCW-605S	1pc		Carrying Case (Yellow Color)	CCA-605S	1pc	
High Precision Fiber Cleaver with Trash Bin	FC-305	1pc		Tri-hole Fiber Coat Stripper	TFS-03	1pc	
AC Adapter/Battery Charger	ADC-13S	1pc		Battery Charger Cord	BCC-14	1pc	
Battery Pack	BTR-08S	1pc		Spare Electrodes	ELC-02S	1pair	
Blower Brush	BBR-09	1pc		V-groove Cleaning	VGC-06	1pc	
Quick Reference Guide	USM-605S	1pc		Video Instruction Manual	VOM-605S	1pc	
Cooling Tray,	CLT-05	1pc		Alcohol Dispenser	ALD-04	1pc	
Monitor Coating	MCT-11	1pc		Monitor Cover	MCV-12S	1pc	
USB Flash Disk	USB-01	1pc					

**OPTIONAL ITEMS**

Description	Model	Photo	Description	Model	Photo
Cigar-Socket Cord	CSC-15		Protection Sleeve	PTS-16	
Blade of Cleaver	BOC-18	