

# THE ULTIMATE SOLUTION FOR FAST AND PRECISE FUSION SPLICING

NEW



## FiberMASTER Fusion Splicer Series



### Experience Fast and Precise Fusion Splicing with Reliable Support, Backed by a 3-Year Warranty.

FiberMASTER S60 and S40 Fusion Splicers offer superior splice performance in as little as 6 seconds. With industry-leading repeatability, your last splice will be as accurate as your first. Safeguarding your investment has never been easier with unmatched customer support and a 3-year warranty as standard. The Sapphire Care Plan is also available to minimize downtime and avoid unexpected service or repair costs.

For more information please call **973-957-7700** or email [contactus@trend-networks.com](mailto:contactus@trend-networks.com)



**TREND NETWORKS**

Depend On Us

# INTRODUCING FiberMASTER

The FiberMASTER Fusion Splicer is user-friendly with fully automatic modes that detect the fiber type and set optimal splicing parameters for minimum splice loss in real-time.

**Robust and Reliable.**  
Built for field use in a variety of real-world conditions.

**Dependable Performance.**  
Industry-leading with splice loss as low as 0.01dB.

**Consistent Repeatability**  
FiberMASTER achieves maximum performance and industry-leading repeatability over hundreds of splices.



## S60 - Active Core Alignment Splicer

S60 delivers superior low loss and repeatability when splicing dissimilar fiber types using automated detection. Using 2 additional camera motors (6 motors total) to optimize core detection and provide precise alignment for ultimate repeatability with any type of fiber.

**Optimized for** - Trunk networks, telecom and high-volume splicing.

**Fast Splice Time** - 6 sec (Avg.)

**Magnification and Resolution** - 400x

**Touch Screen** - 5" Color LCD

**Heating Time** - Typical 18 sec

**Battery Capacity** - 280 splice/heat cycles

**Data storage** - 10,000 results + 100 images



## S40 - Adaptive Clad Alignment Splicer

S40 delivers superior speed and splice performance in fiber optic installations where fibers of similar types are spliced. Using 4 motors for precision cladding alignment of any type of fiber providing fast splicing and dependable performance.

**Optimized for** - Fiber to the home (FTTH), access networks, enterprise, and campus networks.

**Fast Splice Time** - 7 sec (Avg.)

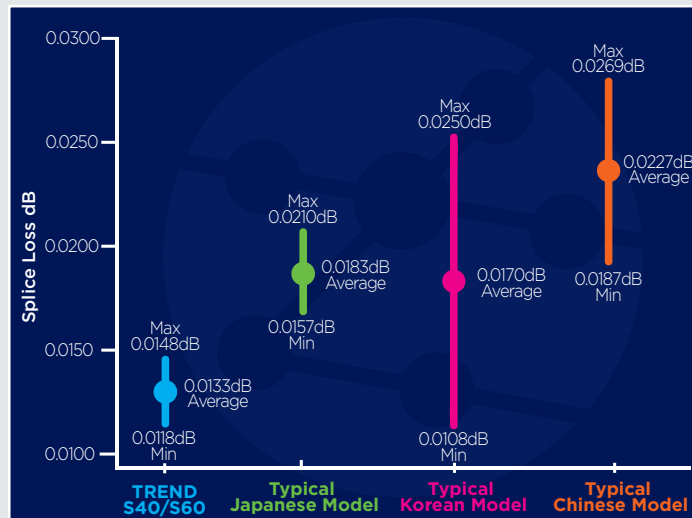
**Magnification and Resolution** - 320x

**Touch Screen** - 4.3" Color LCD

**Heating Time** - Typical 20 sec

**Battery Capacity** - 240 splice/heat cycles

**Data storage** - 8,000 results



Maximum allowed splice loss for installations that comply with ISO/EN/TIA standards is 0.30dB. FiberMASTER splice loss exceeds these standards by more than 20x, reducing attenuation in your fiber links and increasing overall system margin. Data from 100 splices measured with laboratory test equipment. Not the loss displayed on the fusion splicer screen.

### Splice Protection Heater

Supports 25mm to 60mm shrink sleeves with SOC (splice on connector) support

### Protective Cover

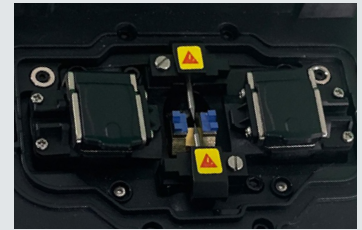
Protects the splicer in all conditions and bright LED lighting optimizes splicing productivity in dark environments

### Long-life Battery

Up to 280 splice/heating cycles per charge. Standalone charging (S60 only)

### Easy to Use Interface

Simple user interface for easy setup and operation with touchscreen or push-buttons



### Optional Magnetic Fiber Clamps

Use with the included universal 250/900µm and 2/3mm fiber holders or use with removable fiber clamps

### USB

Software updates, download splice results, connect included USB work light

### Rugged Design

Metal shell and soft rubber edge protectors for maximum durability

## Complete protection for your FiberMASTER Fusion Splicer

The Sapphire Care Plan is designed to help minimize downtime, reduce the cost of ownership, and protect against unforeseen repair bills.

**Free Repairs** - Protect Against Unforeseen Bills

**Free Loan Unit During Repairs and Servicing** - No Downtime

**Free Annual Service** - To Ensure Maximum Splicing Performance and Consistency

**Free Online Training and Technical Support** - Improve Efficiency

**Free Shipping** - Reduce Costs

**Free Replaceable Wear Parts** - Reduce Cost of Ownership

## Reliable Support

We have a deeply ingrained 'Depend On Us' philosophy focused on ensuring that, even in the most difficult circumstances, our customers know we will always provide the performance and support they need.

**Technical Support** - Depend on Local Technical Support to Ensure Rapid Resolution

**WhatsApp** - Get the Help That You Need, When You Need It

**Quick repairs** - Regional Service Centers to Expedite Repair and Maintenance

**Free Online Content** - Enjoy Free Webinars and Online Content



## Sapphire CARE PLAN





# Specifications

	Model S60	Model S40
Supported fiber types	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655), G.657, EDF	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655), G.657
Fiber cladding range	80 - 150µm	80 - 150µm
Fiber coating range	160 - 3000µm	160 - 3000µm
Typical splice loss	SM: 0.02dB, MM: 0.01dB, DS: 0.04dB, NZDS: 0.04dB	SM: 0.02dB, MM: 0.01dB, DS: 0.04dB, NZDS: 0.04dB
SM Mean splice loss 95.0% of splices	0.0121 dB 0.0102 - 0.0140	0.0133 dB 0.0118 - 0.0148 dB
Typical Return Loss	>60dB	>60dB
Fiber cleave length	250µm coated fiber: 5 - 16mm 250 - 3mm coated fiber: 16mm	250µm coated fiber: 5 - 16mm 250 - 3mm coated fiber: 16mm
Splicing programs	40 preset + 60 custom	40 preset + 60 custom
Operating modes	Automatic/Manual	Automatic/Manual
Heating modes	Automatic pre-heat/Manual	Automatic pre-heat/Manual
Typical splice time	6 seconds in fast mode	7 seconds in fast mode
Typical heating time	18s/40mm, 20s/60mm	20s/40mm, 26s/60mm
Camera magnification	400X (X or Y views separately) 200X (X & Y views together)	320X (X or Y views separately) 160X (X & Y views together)
Display	5 inch/127 mm color LCD, capacitive touch	4.3 inch/109 mm color LCD, capacitive touch
Record storage	10,000 loss results + 100 images	8,000 loss results
Splice loss estimation	Yes	Yes
Tension/pull test	1.8 - 2.2N	1.8 - 2.2N
User interface	Graphical touch screen and dedicated buttons for key functions	Graphical touch screen and dedicated buttons for key functions
Battery	Capacity: 56.16Wh, Li-Ion, removable Charge time: 8 hours Supports on-board and external charging	Capacity: 56.16Wh, Li-Ion, removable Charge time: 8 hours Supports on-board battery charging only
Operating time	Operating: 5 hours/Standby: 8 hours Splices per charge: 280 splice/heating	Operating: 5 hours/Standby: 8 hours Splices per charge: 240 splice/heating
Power supply	Input: 100-250VAC (50/60Hz) Output: 13.5VDC	Input: 100-250VAC (50/60Hz) Output: 13.5VDC
Electrode durability	>5,000 Arc discharges User replaceable	>4,000 Arc discharges User replaceable
Environmental	Altitude: 0 - 5000m / 0 - 16,400ft Temperature: -25°C to 50°C / -13°F to 122°F Humidity: 0 - 95%, non-condensing Wind: 15m/s, 54KPH, 33MPH max	Altitude: 0 - 5000m / 0 - 16,400ft Temperature: -10°C to 50°C / 14°F to 122°F Humidity: 0 - 95%, non-condensing Wind: 15m/s, 54KPH, 33MPH max
Splicer dimensions L x W x H	160 x 144 x155 x 155 mm 6.3 x 5.7 x 6.1 inches	160 x140 x 135 mm 6.3 x5.5x5.3 inches
Splicer weight with battery, excluding case and accessories	2.35kg 5.18 lbs	1.97kg 4.34 lbs
Connectivity	USB Type A to download splice results and update software	USB Type A to download splice results and update software

# FiberMASTER Fusion Splicer Series



## Ordering Information

FiberMASTER Fusion Splicer Series	
Part No.	Kit Contents
R301-S60K	<b>FiberMASTER S60 Active Core Alignment Fusion Splicer</b> Includes FiberMASTER 6-motor Fusion Splicer, Carry Case, Replacement Electrodes, Cooling Tray, Quick Reference Guide, Power Supply, Cleaver, Alcohol Dispenser, Cleaning Brush, Fiber Stripper, Drop Cable Stripper, Kevlar Shears, USB Work Light, Heat Shrink (60 mm 50 pcs + 40mm 50 pcs)
R301-S40K	<b>FiberMASTER S40 Cladding Alignment Fusion Splicer</b> Includes FiberMASTER 4-motor Fusion Splicer, Carry Case, Replacement Electrodes, Cooling Tray, Quick Reference Guide, Power Supply, Cleaver, Alcohol Dispenser, Cleaning Brush, Fiber Stripper, Drop Cable Stripper, Kevlar Shears, USB Work Light, Heat Shrink (60 mm 50 pcs + 40mm 50 pcs)

## Sapphire Care Plan

Part No.	Kit Contents
SCP-S40-1Y	<b>S40 Sapphire Care Plan - 1 Year</b>
SCP-S40-2Y	<b>S40 Sapphire Care Plan - 2 Year</b>
SCP-S40-3Y	<b>S40 Sapphire Care Plan - 3 Year</b>
SCP-S60-1Y	<b>S60 Sapphire Care Plan - 1 Year</b>
SCP-S60-2Y	<b>S60 Sapphire Care Plan - 2 Year</b>
SCP-S60-3Y	<b>S60 Sapphire Care Plan - 3 Year</b>

## Optional Accessories

Part No.	Kit Contents
R301-CASE	Robust Carry Case
R301-CLEAVE-STD	Cleaver (Standard 2-Step Cleaver)
R301-CLEAVE-PRO	Cleaver (Pro 1-Press Cleaver)
R301-BLADE-STD	Cleaver Blade (Standard)
R301-BLADE-PRO	Cleaver Blade (Pro)
R301-STRIP-3HOLE	Fiber Stripper (3 hole)
R301-SHEAR-KEVLAR	Kevlar Shears

Part No.	Kit Contents
R301-BATT-S40	FiberMASTER S40 Battery
R301-BATT-S60	FiberMASTER S60 Battery
R301-ELECT-S40	Splicer Electrodes for 4-motor
R301-ELECT-S60	Splicer Electrodes for 6-motor
R301-PSU	Splicer Power Adapter & Mains Cords
R301-STRIP-THERMAL	Thermal Stripper

Visit [www.trend-networks.com](http://www.trend-networks.com) for a full list of accessories.



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