# 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 offers 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. Sapphire Care Plan is also available to minimise downtime and avoid unexpected service or repair costs.

For more information please call **+44 (0)1925 428 380** or email **uksales@trend-networks.com**

**TREND** NETWORKS

**Depend On Us**

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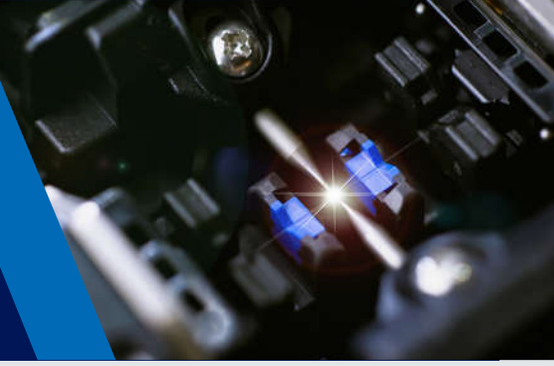
**www.trend-networks.com**

# INTRODUCING FiberMASTER

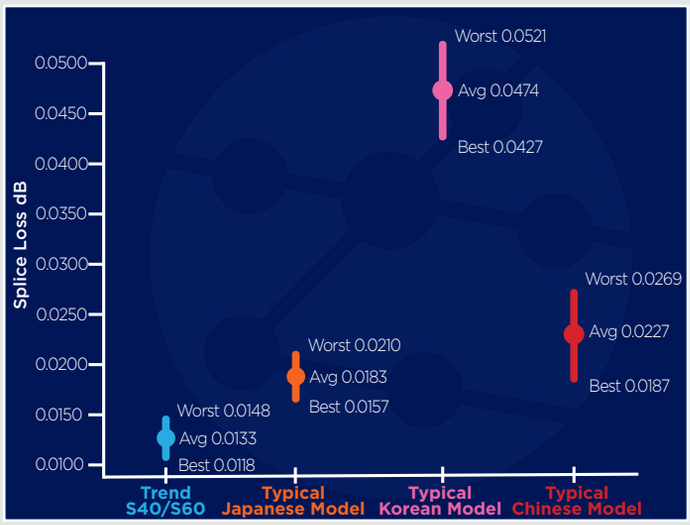
**The FiberMASTER Fusion Splicer is user-friendly with fully automatic modes that detect the fibre type and sets optimal splicing parameters for minimum splice loss in real-time.**



**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.**




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 fibre links and increasing overall system margin. *Data from 100 splices measured with laboratory test equipment. Not the loss displayed on the fusion splicer screen.*



## S60 - Active Core Alignment Splicer

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

**Optimised for** – Trunk networks, telecom and high volume splicing.
**Fast Splice Time -** 6 sec (Avg.)
**Magnification and Resolution -** 400x
**Touch Screen -** 5" Colour 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 fibre optic installations where fibres of similar types are spliced. Using 4 motors for precision cladding alignment of any type of fibre providing fast splicing and dependable performance.

**Optimised for** – Fibre to the home (FTTH), access networks, enterprise and campus networks.
**Fast Splice Time -** 7 sec (Avg.)
**Magnification and Resolution -** 320x
**Touch Screen -** 4.3" Colour LCD
**Heating Time:** Typical 20 sec
**Battery Capacity:** 240 splice/heat cycles
**Data storage:** 8,000 results

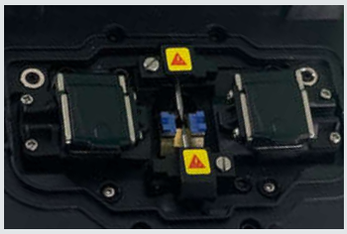
### Splice Protection Heater
Supports 25mm to 60mm shrink sleeves with SOC (splice on connector) support

### Protective Cover
Protects the splicer in all conditions and bright LED lighting optimises 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 Fibre Clamps
Use with the included universal 250/900µm and 2/3mm fibre holders or use with removable fibre 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

**Sapphire CARE PLAN**

The Sapphire Care Plan is designed to help minimise down time, 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 engrained '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 and Live Chat** – Get The Help That You Need, When You Need It

**Quick repairs** – Regional Service Centres to Expedite Repair and Maintenance

**Free Online Content** – Enjoy Free Webinars and Online Content

# Specifications

| | Model S60 | Model S40 |
|---|---|---|
| Supported fibre 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 |
| Fibre cladding range | 80 - 150µm | 80 - 150µm |
| Fibre 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<br>95.0% of splices | 0.0121 dB<br>0.0102 - 0.0140 | 0.0133 dB<br>0.0118 - 0.0148 dB |
| Typical Return Loss | >60dB | >60dB |
| Fibre cleave length | 250µm coated fibre: 5 - 16mm<br>250 - 3mm coated fibre: 16mm | 250µm coated fibre: 5 - 16mm<br>250 - 3mm coated fibre: 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)<br>200X (X & Y views together) | 320X (X or Y views separately)<br>160X (X & Y views together) |
| Display | 5 inch/127 mm colour LCD, capacitive touch | 4.3 inch/109 mm colour 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<br>Charge time: 8 hours<br>Supports on-board and external charging | Capacity: 56.16Wh, Li-Ion, removable<br>Charge time: 8 hours<br>Supports on-board battery charging only |
| Operating time | Operating: 5 hours/Standby: 8 hours<br>Splices per charge: 280 splice/heating | Operating: 5 hours/Standby: 8 hours<br>Splices per charge: 240 splice/heating |
| Power supply | Input: 100-250VAC (50/60Hz)<br>Output: 13.5VDC | Input: 100-250VAC (50/60Hz)<br>Output: 13.5VDC |
| Electrode durability | >5,000 Arc discharges<br>User replacable | >4,000 Arc discharges<br>User replacable |
| Environmental | Altitude: 0 - 5000m / 0 - 16,400ft<br>Temperature: -25°C to 50°C / -13°F to 122°F<br>Humidity: 0 - 95%, non-condensing<br>Wind: 15m/s, 54KPH, 33MPH max | Altitude: 0 - 5000m / 0 - 16,400ft<br>Temperature: -10°C to 50°C / 14°F to 122°F<br>Humidity: 0 - 95%, non-condensing<br>Wind: 15m/s, 54KPH, 33MPH max |
| Splicer dimensions L x W x H | 160 x 144 x155 mm<br>6.3 x 5.7 x 6.1 inches | 160 x140 x 135 mm<br>6.3 x5.5x5.3 inches |
| Splicer weight with battery, excluding case and accessories | 2.35kg<br>5.18 lbs | 1.97kg<br>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 | **FiberMASTER S60 Active Core Alignment Fusion Splicer** Includes FiberMASTER 6-motor Fusion Splicer, Carry Case, Replacement Electrodes, Cooling Tray, Quick Reference Guide, Power Supply, Cleaver, Alcohol Dispenser, Cleaning Brush, Fibre Stripper, Drop Cable Stripper, Kevlar Shears, USB Work Light, Heat Shrink 60 mm 50 pcs + 40mm 50 pcs |
| R301-S40K | **FiberMASTER S40 Cladding Alignment Fusion Splicer** Includes FiberMASTER 4-motor Fusion Splicer, Carry Case, Replacement Electrodes, Cooling Tray, Quick Reference Guide, Power Supply, Cleaver, Alcohol Dispenser, Cleaning Brush, Fibre 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 | **S40 Sapphire Care Plan** - 1 Year |
| SCP-S40-2Y | **S40 Sapphire Care Plan** - 2 Year |
| SCP-S40-3Y | **S40 Sapphire Care Plan** - 3 Year |
| SCP-S60-1Y | **S60 Sapphire Care Plan** - 1 Year |
| SCP-S60-2Y | **S60 Sapphire Care Plan** - 2 Year |
| SCP-S60-3Y | **S60 Sapphire Care Plan** - 3 Year |

## 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 | Fibre 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 for a full list of accessories.

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Publication no.: 301805. Rev 1.