

OPTICAL FIBER FUSION SPLICER

S122M12 Series Mass Fusion Splicer



FEATURES

SUPERB MOBILITY AND WORKABILITY

Super compact design, the S122M12 provides a stable working environment both on the work bench and palmtop. The unit can splice in locations that are impossible for traditional ribbon fusion splicers.

RUGGED BODY

The top body and windshield are made of magnesium die-cast. The bottom body is protected with rubber corner pads. With its simple and flat shape, the S122M12 can withstand harsh conditions.

REAL TIME ARC CONTROL

Patented process which increases consistency and reduces splice loss. Also, virtually eliminates the need for traditional arc checks by actively calibrating the arc during each splicing cycle.



DESCRIPTION

FITEL's S122M12 represents the industry's first hand-held ribbon fusion splicer. The ultra compact unit allows for easy usage in even the most restricted locations where ribbon splicing has previously not been possible. The unit incorporates several new technologies which allow for skill-free operation whether splicing single fiber or up to 12-ribbon fiber. New technologies include the patented Real Time Arc Control System which greatly improves the splice consistency and reduces splice loss. In addition, this feature virtually eliminates the need for traditional arc checks. Another innovation is FITEL's Fiber Clamp Vibration System. This feature automatically positions each fiber in the correct v-groove channel for easy operation.

The unit is ideal for aerial splicing, nodes and pedestals, as well as traditional large count trunk splicing. The unit can be operated via traditional work bench, worktable, tripod, hand-held, or around the operator's neck. The S122M12 represents the best-in-industry for field ruggedness, manufactured with die-cast metal and incorporating corner pad protection.

FIBER CLAMP VIBRATION SYSTEM

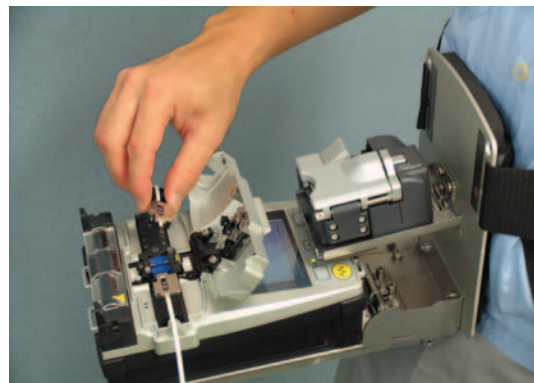
New fiber clamp vibration system allows for easy fiber placement. System inspects axis offset before each splice and makes necessary adjustment for ideal splicing.

AUTOMATIC FIBER COUNT IDENTIFICATION

Unit automatically identifies fiber ribbon count and selects the proper program for splicing. There is no need to manually change the program when operators want to splice different fiber counts.

NEW GUI & LCD SCREEN

Featuring a new GUI (graphical user interface) and transreflective LCD screen technology, the S122M12 operation is a snap! Function keys are simple and information displays are crisp and clear even in direct sunlight.



MULTI-WINDOW FIBER DISPLAY

The LCD display shows the splicing process with simultaneous X and Y camera views, as well as status icons monitoring the machine conditions.

BUILT-IN MAINTENANCE GUIDE

Unit has built-in guides for common maintenance procedures. Instructions are customizable per customer request.

IMAGE CAPTURE

Unit stores all relevant splicing data after splice and has ability to store actual fiber image for evaluation.



SPECIFICATIONS

| | | |
|------------------------------|--|--|
| Fiber Type (1) | SMF | Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 6F, 8F, 10F, 12F) |
| | MMF | Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 6F, 8F, 10F, 12F) |
| | DSF | Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 6F, 8F, 10F, 12F) |
| | NZDSF | Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 6F, 8F, 10F, 12F) |
| Cladding Diameter | 125µm | |
| Coating Diameter | Single Fiber: 250µm, 900µm; Ribbon Fiber: 280µm to 400µm | |
| Average Splice Loss (2), (3) | SMF: 0.05dB, MMF: 0.02db, DSF: 0.08, NZDSF: 0.08 | |
| Average Splice Time | 15 sec. splicing , 45 sec. heating | |
| Cleave Length | 10mm | |
| Data Memory | 1000 splices | |
| Applicable Protection Sleeve | 40mm/60mm | |
| Dimensions | 140W x 189D x 86H (mm) / 5.5"W x 7.4"D x 3.4"H | |
| Weight | 960 g (2.1 lbs) | |
| AC/DC Input | AC: 85~264V (50/60Hz), DC: 13-18V | |
| Battery Life | Standard : 40 splice cycles, High Capacity: 200 splices cycles | |
| Operating Temperature | -10°C to +50°C | |
| Storage Temperature | -40°C to +60°C | |

PACKAGES

| P/N | DESCRIPTION | S122M12 | S122M12-KIT-1 |
|---------------|--------------------------------|---------|---------------|
| S122M12 | M12 Splicer Body | • | • |
| S122-X-A-0006 | Cooling Tray | • | • |
| S122-X-A-0008 | Fiber Reformer (pair) | • | • |
| S122-X-A-0009 | Hard Carrying Case | • | • |
| S218R | Thermal Stripper | • | • |
| S325A | One-Action Precision Cleaver | • | • |
| S709A-012 | 12-ribbon fiber holders (pair) | • | • |
| S943 | Battery | • | • |
| S958B | Battery Charger | • | • |
| S967 | Electrode | • | • |
| S971 | AC adapter & cord | • | • |
| S959U | DC adapter | • | • |
| D5111 | Electrode Cleaning Disk | • | • |
| FPF-01 | Fiber Preparation Fluid | • | • |
| FW-01 | Fiber Wipes | • | • |
| FTS-B302 | User's Manual | • | • |



OPTIONAL ACCESSORIES

| P/N | DESCRIPTION |
|-----------|---|
| S220A | Ribbon Separator (De-Ribbonizer) |
| S233 | Ribbon Splitter |
| S612 | Ribbonizer |
| S709X-XXX | Fiber Holder [single (250um, 900um), 2-, 4-, 6-, 8-, 10-, 12- ribbon] |