S122M12 Series Mass Fusion Splicer

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.

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, virutally eliminates the need for traditional arc checks by actively calibrating the arc during each splicing cycle.
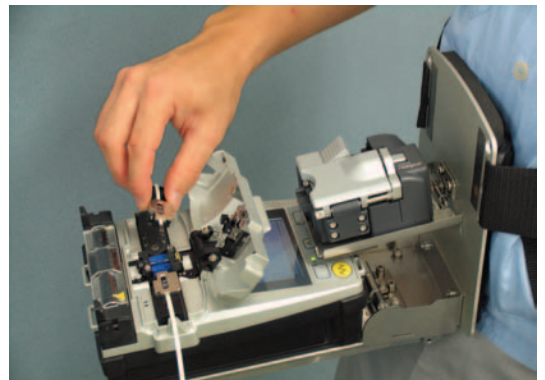
FIBER CLAMP VIBRATION SYSTEM
New fiber clamp vibration system allows for easy fiber placement. System inspects axis offset before each splice and makes necessary adjustment for ideal splicing.

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		-10ºC to +50ºC
Storage Temperature		-40ºC to +60ºC

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 Seperator (De-Ribbonizer)
S233	Ribbon Splitter
S612	Ribbonizer
S709X-XXX	Fiber Holder [single (250um, 900um), 2-, 4-, 6-, 8-, 10-, 12- ribbon]