### **Specialty Fiber Fusion Splicers**



# ARCMaster

FSNI-100 series

- Patented "Split V-groove" clamping system
- "Plasma Zone" fiber positioning
- Short cleave length capability
- Special arc calibration
- Dual splice loss estimation
- Enhanced sweep arc
- Internet firmware update & interface
- Production environment friendly design
- Zero degree fiber holder position
- Fiber profile learning function
- Dual PM alignment method (FSM-100P Only)



PM fiber splicing capability

# ARCMaster. product line

Fujikura's new "**ARCMaster**." splicers are engineered with a robust set of features that offer customers technology and reliability not available elsewhere. The need for Accurate, Reliable, and Consistent splicing is expanding to new applications beyond telecommunications. These entirely new "**ARCMaster**." fusion splicers from Fujikura have been developed to provide the ultimate in performance and flexibility for a variety of customers and markets.

Additional information can be found at <u>www.StateoftheARC.com</u> website which is the central repository of information for all of Fujikura's state of the art fusion splicer products. Stay tuned to <u>www.StateoftheARC.com</u> for forthcoming additions to the "**ARCMaster**." family of specialty fusion splicers where incremental capabilities will be revealed.



#### **Specialty Fiber Fusion Splicer**

Polarization Maintaining Fiber Fusion Splicer



Fujikura's new specialty splicers FSM-100M and FSM-100P offer a host of innovative technology to address the rapidly expanding splicing needs for factory, manufacturing, laboratory and R&D applications. These models are introduced as "ARCMaster" splicers due to their unique capabilities to control the plasma zone of the fusion arc. These capabilities will revolutionize the way users will splice various types of specialty fibers; LDF, low contrast PM, holey structured, etc.

#### Patented "Split V-groove" clamping system

- The FSM-100 series has the revolutionary design clamp system.
- No need to change V-groove or clamp part
- Programmable for any fiber or coating size
- Reliably "captures" fiber for good alignment





#### "Plasma Zone" fiber positioning

The FSM-100 series has two electrode positioning techniques in order to provide unprecedented versatility for each specialty fiber.



#### Short cleave length capability

For minimizing the length of stripped fiber at splice point, FSM-100 series can splice a short cleave length fiber.



Combining the best features of both cold and warm splice imaging, FSM-100

SM-SMI

Image of WSI

Dual splice loss estimation

How to operate

Image of PAS

series offer unprecedented accuracy for splice loss estimation.

#### Special arc calibration

This calibration technology facilitates an easy transfer of high end splicing applications from R&D to production by ensuring consistent performance and takes full advantage of "Plasma Zone" capabilities.



## Enhanced sweep arc

Increased travel range for "sweep arc" provides improved MFD matching capability and the ability for reshaping non-circular fibers in preparation for splicing.



#### Internet firmware update & interface

An industry first! Customers can now upgrade firmware as new capabilities become available from Fujikura. Upgrading is as simple as connecting a USB cable to your splicer.



#### Production enviroment friendly design

A low profile design that eliminates fiber catch points, the dimensions of both splicers are consistent with the most popular production splicing work-benches in use today.



Zero degree fiber holder position – For splicing LDF fibers with minimal core angle, the fiber holders are horizontally positioned relative to the v-grooves.

#### Fiber profile learning function

The splicer learns the fiber profile with the best focusing position in order to observe the core position accurately. After learning, the focusing time during a splice will be short.

#### Dual PM alignment (FSM-100P Only)

To properly align and splice the ever increasing and technically challenging variety of PM fibers, Fujikura developed IPA which is a new alignment technology. The FSM-100P includes both traditional PAS alignment as well as the new IPA technology, and it provides users with the most comprehensive capabilities on the market for splicing PM fiber. IPA also enables accurate PER estimation for all PM fiber types.







#### SPECIFICATION

Description     FSM-100M     FSM-100P       Applicable type of fibers     For Telecommunication     SMF(ITU-T G652), MZDS(ITU-T G653), MMF(ITU-T G651), EDF, DCF and other specialty fibers.       Arge Diameter Fiber     Conventional silica LDF       PM fiber     PMF       Clad diameter     \$0 to 500 µm       Coating diameter     \$0 to 500 µm       Coating diameter     \$0 to 500 µm       Cleave length     Glass clamp: 8 to 10 nm (standard 9 mm) Coating clamp: 3 to 5 m (standard 4 mm)       Cleave length     SMF       NZDSF/LDF     0.03 dB       MMF     0.02 dB       PMF     0.05 dB       MMF     0.02 dB       PMF (PANDA)     90 to 300 sec       PMF (PANDA)     90 to 300 sec       PMF (PANDA)     -40 dB / 0.6 degree       Polarization crosstalk     FP-03 40 mm     30 sec       Tube heat time     FP-03 40 mm     30 sec       FPS01 series (micro sleeve)     "Heat time change with depended on typ of micro sleeve       Flber clamp     1 to ta3.0 m (adjustable)     2500 ard discharges. (at the SMF (ITU-T G6.52) splicing with 1mm electrode gap)       Electrode life     -0.3 to					
Applicable type of fibers     For Telecommunication     SMF(ITU-T G652), NZDSF(ITU-T G655), MMF(ITU-T G651), EDF, DCF and other specialty fibers.       Applicable type of fiber     PM fiber     Conventional silica LDF       PM fiber     PM fiber     PMF       Clad diameter     \$ 00 to 500 µm       Coating diameter     \$ 010 to 2000 µm       Clad other special y fibers     Single       Cleave length     Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       NZDSF/LDF     0.03 dB       NZDSF/LDF     0.05 dB       PMF     0.06 dB       PMF     0.02 dB       PMF     0.03 dB       PMF     0.06 dB       PMF	Description		FSM-100M	FSM-100P	
Applicable type of fibers     Telecommunication     DCF and other specialty fibers.       Large Diameter Fiber     Conventional sillica LDF       PM fiber     PMF       Clad diameter     \$\$0 60 to 500 µm       Coating diameter     \$\$0 100 to 2000 µm       Fiber count     Single       Cleave length     Coating diameter       Vision     Coating clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       Typically splice loss     SMF     0.03 dB       MMF     0.02 dB       PMFF     0.06 dB       PMF     0.06 dB       PMF (PANDA)     90 to 300 sec       PM AUTO     90 to 300 sec       PMAUTO     90 to 300 sec       PM AUTO     -32 dB / 1.4 degree       Class clamp = 35 sec	Applicable	For	SMF(ITU-T G652), NZDSF(ITU-T G655), MMF(ITU-T G651), EDF,		
Applicable type of fibers     Large Diameter Fiber     Conventional silica LDF       PM fiber     PMF       Clad diameter     \$\$00 to 500 µm       Coating diameter     \$\$00 to 2000 µm       Fiber count     Single       Cleave length     Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       Typically splice loss     SMF     0.03 dB       MAF     0.02 dB       PMF     0.06 dB       MMF     0.02 dB       PMF     0.06 dB       PMF     0.06 dB       PMF     0.06 dB       PMF     25 sec       PMF (PANDA)     35 to 50 sec       PM AUTO     90 to 300 sec       Typically POlarization crosstalk     PM AUTO     -40 dB / 0.6 degree       Polarization crosstalk     FP-03 40 mm     30 sec       FPS01 series (micro sleeve)     "Heat time change with depended on typo f micro sleeve       Fiber clamp     It chages according to clading diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (at the SMF (ITU-T 6.652) splicing with 1mm electrode gap)		Telecommunication	DCF and other specialty fibers.		
PM fiber     PMF       Clad diameter     \$\u03c6\$ 60 to 500 µm       Coating diameter     \$\u03c6\$ 100 to 2000 µm       Fiber count     Single       Cleave length     Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       Typically splice loss     SMF     0.03 dB       MMF     0.02 dB       PMF     0.06 dB       Splice time     SMF/MMF     15 sec       NZDSF/LDF     0.06 dB       PMF     0.02 dB       PMF     0.06 dB       PMF     0.06 dB       Splice time     SMF/MMF     15 sec       NZDSF/LDF     0.05 dB     0.06 dB       PMF     0.02 dB     90 to 300 sec       PMF (PANDA)     -40 dB / 0.6 degree     -32 dB / 1.4 degree       Polarization crosstalk     PM AUTO     >> 60 dB       Tube heat time     FP-03 40 mm     30 sec       FPS01 series (micro sleeve)     "Heat time change with depended on typ of micro sleeve       Fiber clamp     It chages according to clading diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is		Large Diameter Fiber	Conventional sillica LDF		
Clad diameter Coating diameter     Φ 60 to 500 μm       Fiber count     Ø 100 to 2000 μm       Fiber count     Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       Cleave length     Glass clamp: 3 to 5 mm (standard 4 mm)       Typically splice loss     NMF     0.03 dB       MMF     0.02 dB       PMF     0.06 dB       PMF     0.06 dB       PMF     0.06 dB       PMF (PANDA)     35 to 50 sec       PMF (PANDA)     90 to 300 sec       PMF (PANDA)     -40 dB / 0.6 degree       Polarization crosstalk     FP-03 40 mm     30 sec       Tube heat time     FP-03 60 mm     35 sec       FS01 series (micro sleeve)     'Heat time change with depended on typ of micro sleeve       I' L chages according to cladding diameter and coating diameter automatically.     250 ac discharges.       Sweep range     ± 5 mm (the arc center is 0mm.)     250 ac discharges.       Electrode gap     (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)     1.0 to 3.0 mm (adjustable)	type of fibers	PM fiber		PMF	
Coating diameter     φ 100 to 2000 μm       Fiber count     Single       Cleave length     Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       Typically splice loss     SMF     0.03 dB       MMF     0.02 dB       PMF     0.06 dB       MZDSF/LDF     0.06 dB       MMF     0.02 dB       PMF     0.06 dB       PMF     0.06 dB       PMF (PANDA)     35 to 50 sec       PMF (PANDA)     90 to 300 sec       PVpically POlarization crosstalk     PMF (PANDA)       PMA UTO     90 to 300 sec       PMA UTO     -40 dB / 0.6 degree       Polarization crosstalk     FP-03 40 mm       Tube heat time     FP-03 40 mm       FS01 series (micro sleeve)     *Heat time change with depended on typo f micro sleeve       FIber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (2500 arc discharges. ((at the SMF (ITU-T 6.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)		Clad diameter	φ 60 to 500 μm		
Fiber count   Single     Cleave length   Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)     Typically splice loss   SMF   0.03 dB     MMF   0.05 dB     PMF   0.02 dB     PMF   0.06 dB     MMF   0.06 dB     MMF   0.06 dB     PMF (PANDA)   35 to 50 sec     PMF (PANDA)   90 to 300 sec     Polarization crosstalk   PMF (PANDA)     Return loss   -40 dB / 0.6 degree     Tube heat time   FP-03 40 mm   30 sec     FPS01 series (micro sleeve)   "Heat time change with depended on tyep of micro sleeve     Flber clamp   It chages according to cladding diameter and coating diameter automatically.     Sweep range   ± 5 mm (the arc center is 0mm.)     Electrode life   (at the SMF (TU-T 6.652) splicing with thum electrode gap)     Electrode gap   1.0 to 3.0 mm (adjustable)     Electrode offset   -0.3 to +0.1 mm (adjustable)		Coating diameter	φ 100 to 2000 μm		
Glass clamp: 8 to 10 mm (standard 9 mm) Coating clamp: 3 to 5 mm (standard 4 mm)       Coating clamp: 3 to 5 mm (standard 4 mm)       Typically splice loss       SMF     0.03 dB       MZDSF/LDF     0.05 dB       MFF     0.06 dB       PMF     0.06 dB       Splice time     SMF/MMF     15 sec       NZDSF/LDF     25 sec       PMF (PANDA)     35 to 50 sec       PM AUTO     90 to 300 sec       PMA UTO     - 40 dB / 0.6 degree       Polarization crosstalk     PMF (PANDA)       PA AUTO     - 32 dB / 1.4 degree       Tube heat time     FP-03 40 mm     30 sec       FP3 of onm     35 sec       FP3 of onm <th co<="" th=""><th>Fiber count</th><th></th><th colspan="2">Single</th></th>	<th>Fiber count</th> <th></th> <th colspan="2">Single</th>	Fiber count		Single	
SMF     0.03 dB       Typically splice loss     NZDSF/LDF     0.05 dB       MMF     0.02 dB       PMF     0.06 dB       SMF/MMF     15 sec       NZDSF/LDF     25 sec       PMF     35 to 50 sec       PMF (PANDA)     90 to 300 sec       PMAUTO     90 to 300 sec       PMF (PANDA)     -40 dB / 0.6 degree       Polarization crosstalk     PM AUTO     -32 dB / 1.4 degree       Return loss     >> 60 dB       Tube heat time     FP-03 40 mm     30 sec       FP-03 60 mm     35 sec       FS01 series (micro sleeve)     *Heat time change with depended on typp of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (at the SMF (ITU-T G 6.62) splicing wes. (at the SMF (ITU-T G 6.62) splicing wes. (a	Cleave length		Glass clamp: 8 to 10 mm (standard 9 mm) Coatimo clamp: 3 to 5 mm (standard 4 mm)		
Typically splice loss     NZDSF/LDF     0.05 dB       MMF     0.02 dB       PMF     0.06 dB       Splice time     SMF/MMF     15 sec       PMF (PANDA)     25 sec       PMF (PANDA)     35 to 50 sec       PMF (PANDA)     90 to 300 sec       PV autro     90 to 300 sec       Typically Polarization crosstalk     PMF (PANDA)       PMA UTO     -40 dB / 0.6 degree       PMA UTO     -32 dB / 1.4 degree       Return loss     >> 60 dB       FP-03 40 mm     30 sec       FP-03 60 mm     35 sec       FP501 series (micro sleeve)     "Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)		SMF	0.03 dB		
Splice loss     MMF     0.02 dB       PMF     0.06 dB       Splice time     SMF/MMF       NZDSF/LDF     25 sec       PMF (PANDA)     35 to 50 sec       PM AUTO     90 to 300 sec       PV AUTO     90 to 300 sec       PV AUTO     -40 dB / 0.6 degree       POlarization crosstalk     PM AUTO       Ptube heat time     FP-03 40 mm       FP-03 60 mm     35 sec       FPS01 series (micro sleeve)     "Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (at the SMF (TUL-T G.652) splicing with timm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Typically	NZDSF/LDF	0.05 dB		
PMF     0.06 dB       Splice time     SMF/MMF     15 sec       NZDSF/LDF     25 sec       PMF (PANDA)     35 to 50 sec       PM AUTO     90 to 300 sec       PM AUTO     90 to 300 sec       PMAUTO     90 to 300 sec       PMAUTO     -40 dB / 0.6 degree       Polarization crosstalk     PM AUTO       PMAUTO     -32 dB / 1.4 degree       Return loss     >> 60 dB       Tube heat time     FP-03 40 mm       FPS01 series (micro sleeve)     "Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	splice loss	MMF	0.02 dB		
Splice time     SMF/MMF     15 sec       NZDSF/LDF     25 sec       PMF (PANDA)     35 to 50 sec       PM AUTO     90 to 300 sec       Polarization crosstalk     PM AUTO     -40 dB / 0.6 degree       PM AUTO     -32 dB / 1.4 degree     -32 dB / 1.4 degree       Return loss     >> 60 dB     -35 sec       Tube heat time     FP-03 40 mm     30 sec       FPS01 series (micro sleeve)     *Heat time change with depended on typp of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)		PMF		0.06 dB	
Splice time     NZDSF/LDF     25 sec       PMF (PANDA)     35 to 50 sec.     90 to 300 sec       PM AUTO     90 to 300 sec     90 to 300 sec       Polarization crosstalk     PM AUTO     -40 dB / 0.6 degree       PM AUTO     -32 dB / 1.4 degree     -32 dB / 1.4 degree       Return loss     >> 60 dB     -30 sec       Tube heat time     FP-03 40 mm     30 sec       FS01 series (micro sleeve)     *Heat time change with depended on typp of micro sleeve       Flber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)		SMF/MMF	15 sec		
Splice unite     PMF (PANDA) PM AUTO     35 to 50 sec       Typically Polarization crosstalk     9MF (PANDA)     90 to 300 sec       PMF (PANDA)     -40 dB / 0.6 degree       Polarization crosstalk     PM AUTO     -32 dB / 1.4 degree       Return loss     >> 60 dB       Tube heat time     FP-03 40 mm     30 sec       FP-03 60 mm     35 sec       FP501 series (micro sleeve)     *Heat time change with depended on type of micro sleeve       Fiber clamp     It chages according to cladding diameter aut coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (at the SMF (ITU-T G 652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)	Calico timo	NZDSF/LDF	25 sec		
PM AUTO     90 to 300 sec       Typically Polarization crosstalk     PMF (PANDA)     -40 dB / 0.6 degree       PM AUTO     -32 dB / 1.4 degree       Return loss     >> 60 dB       Tube heat time     FP-03 40 mm     30 sec       FP-03 60 mm     35 sec       FPS01 series (micro sleeve)     55 sec       *Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     (at the SMF (ITU-T G.652) splicing with Imm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Splice time	PMF (PANDA)		35 to 50 sec	
Typically Polarization crosstalk PMF (PANDA) PM AUTO -40 dB / 0.6 degree -32 dB / 1.4 degree   Return loss >> 60 dB   Return loss >> 60 dB   FP-03 40 mm 30 sec   FP-03 60 mm 35 sec   FP501 series (micro sleeve) *Heat time charge with depended on type of micro sleeve   Fiber clamp It chages according to cladding diameter and coating diameter automatically.   Sweep range ± 5 mm (the arc center is 0mm.)   Electrode life 2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)   Electrode offset -0.3 to +0.1 mm (adjustable)		PM AUTO		90 to 300 sec	
Polarization crosstalk     PM AUTO     -32 dB / 1.4 degree       Return loss     >> 60 dB       Tube heat time     FP-03 40 mm     30 sec       FP03 60 mm     35 sec       FP501 series (micro sleeve)     *Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with Imm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Typically	PMF (PANDA)		-40 dB / 0.6 degree	
Return loss     >> 60 dB       Tube heat time     FP-03 40 mm     30 sec       FP-03 60 mm     35 sec       FPS01 series (micro sleeve)     55 sec       *Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Polarization crosstalk	PM AUTO		-32 dB / 1.4 degree	
FP-03 40 mm     30 sec       Tube heat time     FP-03 60 mm     35 sec       FPS01 series (micro sleeve)     55 sec     *Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ≤     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T 6.652) splicing with 1mm electrode gap)       Electrode offset     1.0 to 3.0 mm (adjustable)	Return loss		>> 60 dB		
Fube heat time     FP-03 60 mm     35 sec       FPS01 series (micro sleeve)     55 sec     *Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)		FP-03 40 mm	30 sec		
time     FPS01 series (micro sleeve)     55 sec "Heat time change with depended on tyep of micro sleeve       Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T 6.652) splicing with Immelectrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Tube heat time	FP-03 60 mm	35 sec		
Fiber clamp     It chages according to cladding diameter and coating diameter automatically.       Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)		FPS01 series (micro sleeve)	55 sec *Heat time change with depended on tyep of micro sleeve		
Sweep range     ± 5 mm (the arc center is 0mm.)       Electrode life     2500 arc discharges.       (at the SMF (ITU-T 6.652) splicing with 1mm electrode gap)     Electrode gap       Electrode offset     -0.3 to +0.1 mm (adjustable)	Fiber clamp		It chages according to cladding diameter and coating diameter automatically.		
Electrode life     2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)       Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Sweep range		$\pm$ 5 mm (the arc center is 0mm.)		
Electrode gap     1.0 to 3.0 mm (adjustable)       Electrode offset     -0.3 to +0.1 mm (adjustable)	Electrode life		2500 arc discharges. (at the SMF (ITU-T G.652) splicing with 1mm electrode gap)		
Electrode offset -0.3 to +0.1 mm (adjustable)	Electrode gap		1.0 to 3.0 mm (adjustable)		
	Electrode offset		-0.3 to +0.1 mm (adjustable)		

SPECIFICAT	ION		
Description		FSM-100M	FSM-100P
Proof test		1.96 to 2.45 N	
Magnification		58 to 300 (	changeable)
Auto start function	n	Avai	able
	Number of splice mode	Total 300 modes	
Spliceing	Standard Mode	Available	
mode	Manual mode	Available	
	Power meter mode	Available	
	Attenuation mode	Available	
Number of tube heating mode		100 heating mode installed	
Strage of splicing result		The last 2000 results to be stored in the internal memory.	
Lahguage		English / Japanese / Chinese	
Arc power calibration		3 methods installed	
Arc positon calibration		2 methods installed	
Fiber learning function		Available	
	Software upgrade	Capable via internet.	
	Display image data	Capable	
PC	Splice conditions	Capable	
communication	Splice results	Capable	
	PC control	Capable Sample software and command list is available.	
Display		Dual 4.1" inches color LCD monitor.	
Dimensions		311 (W) × 232 (D) × 160	(H) mm excluding rubber foot
Weight		7.5 kg	7.9 kg
Power supply		external AC adapter: ADC-15 Input : AC100 to 240 V (50 to 60Hz) (max.100 W AC)	
Operating condition		0 to 95%RH and 0 to 40 degC respecitively	
Storage condition		0 to 95%RH and -40 to	0 80 degC respectively
Terminals		Power supply: DC19 V 4.5 A	
		USB2.0 (Mini-B type) for PC communication	
		IEEE-488 24 pin for power monitor feedback alignment	
		Two 6-pin Mini-DIN connector for external equipment (HJS-02)	

#### Standard Package

Nomo	Model	FSM-100M	FSM-100P
wanne		Qty.	Qty.
Splicer Main Body	FSM-100M	1pc	-
	FSM-100P	-	1pc
Carrying Case	CC-27	1pc	1pc
Fiber Holder for 250um	FH-100-250	1pair	1pair
Fiber Holder for 400um	FH-100-400	-	1pair
AC Adapter	ADC-15	1pc	1pc
AC Power Cord for AC adapter	ACC-**	1рс	1рс
Spare Electrodes	ELCT2-25	1pair	1pair
USB Cable	USB-01	1pc	1pc
Dust Cleaning Stick	DCS-01	1pc	1pc
Warnings and Cautions	W-100MP-E	1pc	1pc
Splicing Report	-	1pc	1pc
Instruction Manual	M-100MP-E	1pc	1pc

#### **OPTIONAL ITEMS**

Item	Description	Note	
Fiber Holder	FH-100-***	*** : Coating diameter FH-100-060, FH-100-100, FH-100-125, FH-100-150, FH-100-180, FH-100-210, FH-100-250, FH-100-300, FH-100-350, FH-100-400, FH-100-500, FH-100-600, FH-100-700, FH-100-800, FH-100-900	
	FH-100-****	Coating Dia. : 1000 to 2000 µm	
	FH-40-LT900	Coating Dia. : 900 µm for loose tube	
	CT-32	Cladding Dia. : 125 µm, Cleave length: 4 mm / 9 mm	
Closurer	CT-38	Cladding Dia. : 80 µm, Cleave length: 4 mm / 9 mm	
Gleaver	CT-10	Cladding Dia. : 125 µm, Cleave length: 5 mm /10 mm	
	CT-30	Cladding Dia. : 125 µm, Cleave length: 5 mm /10 mm	
Angle Cleaver	CT-11	Cladding Dia. : 125 µm	
lookat Stringar	JS-02-900	Coating Dia. : 900 µm (applicable for fiber holder 900 µm)	
Jacket Stripper	JS-01	Coating Dia. : 900 µm	
Hot Jacket Stripper HJS-02 Coating Dia. : 250 to 400 µm		Coating Dia. : 250 to 400 µm	
Ultrasonic Cleaner	USC-02	-	
Recoter & Proof tester	FSR-02	-	
Clasura	FP-03	60 mm	
SIEEVE	FP-04S	40 mm	
Miero elegue	FPS01-400-**	12,15,20,25,34,45 mm / coating dia. 400 µm	
WILLO SIEEVE	FPS01-900-**	15,20,25,34,45 mm / coating dia. 900 µm	

# $\begin{array}{c} & & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\$

Standard Package

#### Specifications and descriptions are subject to change without prior notice.

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