

APM-101 and APM-102 Automatic Preparation Machine

The APM-101 and APM-102 provide fiber optic preparation automation for assembly operations in a factory environment. Both perform all the operational steps required to strip, clean and cleave the fiber, automatically and with high repeatability. This includes stripping the fiber without degrading fiber quality, cleaning fiber with alcohol to remove coating residue, and cleaving consistently at a right angle to the fiber axis. The entire process is complete in as little as 21 seconds.

The APM-101 is designed to accept the FH-100-250 fiber holder that is a component of Fujikura's FSM-100 series and LZM-100 splicing platforms. It can also accept the FH-40/45-250 fiber holder used with the FSM-40/45F and FSM-40/45PM splicing platforms. The APM-102 is designed to accept the FH-70-250 fiber holder used with Fujikura models 70S, 19S and 12S.



Specifications

Parameter	Value
Applicable fiber	Single-mode and Multimode glass fiber
Applicable cladding diameter	125 µm
Applicable coating	UV curable resin coating
Applicable coating diameter	250 µm
Fiber clamping for APM-101	FH-100-250 series or FH-70-250 fiber holder
Fiber clamping for APM-102	FH-70-250
Cleave length	3 to 10 mm
Cleave angle	Typical 0.5°
Operating time	Typical 23 seconds (in the case of 125 µm diameter fiber with 250 µm coating)
Daily maintenance	Typically every 150 cycles
Operation action	1 step (Press start button only)
Air pressure	4 bar
Operating Condition	0 to 40°C at 0 to 95% RH (non-dew)
Storage condition	-40 to 80°C at 0 to 95% RH (non-dew)
Dimensions	170W x 370D x 120 H (MM)
Weight	5.1 kg

Ordering Information

Description	AFL No.
APM-101 Automatic Preparation Machine (requires FH-100-250 or FH-70-250 Fiber Holders) Includes: ADC-15 AC Adapter, ACC-02 Power Cord, ALC-01 Alcohol Container and REG-01 Air Pressure Regulator	S014974
APM-102 Automatic Preparation Machine (requires FH-70-250 Fiber Holder) Includes: ADC-15 AC Adapter, ACC-02 Power Cord, ALC-01 Alcohol Container and REG-01 Air Pressure Regulator	S015904

Optional Accessories

Description	AFL No.
ADC-15 AC Adapter	S014826
ACC-02 AC Cord	S001171
CSB-250 Coating Strip Blade	S017348
CB-04A Cleaver Blade	S015030
ALC-01 Alcohol Container	S015026
REG-01 Air Pressure Regulator	S015028

Features

- Automatic cleaning – main components in the machine are automatically cleaned allowing a continuous sequence of fiber preparation operations.
- Automatic residue collector – coating residue and glass scraps are collected in separate containers.
- Alcohol circulation system – alcohol for cleaning is circulated in a closed system enabling a lengthy refill-free operation.
- Diamond blade – a diamond blade is used for cleaving in the tension method cleaving process and provides consistent cleave quality.
- Reliable stripping method – contact of the stripping blade to the fiber is prevented using guides in conjunction with the blade, minimizing damage to fiber during the stripping process.
- Production-friendly design – provides ergonomic, smooth and simple operation.