# Specialty Product Portfolio
## Laser World of Photonics 2023

Munich – Germany

# Specialty Products

## Fujikura Splicers - 1



**FSM-100M**

Key Features:
- Splice 80-500um Clad Fibre
- Up to 13mm cleave length
- +/- 5mm Sweep Length
- FPS Compatibility



**FSM-100P**

Key Features:
- Splice 80-500um Clad Fibre
- PMF Splicing Capability
- Up to 13mm cleave length
- +/- 5mm Sweep Length
- FPS Compatibility

# Specialty Products

## Fujikura Splicers - 2



**FSM-100M+**

**Key Features:**
- Splice 80-1200um Clad Fibre
- Up to 26mm cleave length
- +/- 18mm Sweep Length
- Endview Observation System
- FPS Compatibility



**FSM-100P+**

**Key Features:**
- Splice 80-1200um Clad Fibre
- Up to 26mm cleave length
- +/- 18mm Sweep Length
- Endview Observation System
- PMF Splicing Capability
- FPS Compatibility

# Specialty Products

## Fujikura Cleavers-1



### CT-104+

**Key Features:**
- Cleave up to 600um Clad Fibre
- Manual Clamping System
- Cleaving Length 5-40mm
- Enhanced Blade Life
- Fibre Holder Adapter Option (FH-100-xxx)

### CT-105+

**Key Features:**
- Cleave up to 1250um Clad Fibre
- Auto Clamping System
- Cleaving Length 5-40mm
- Enhanced Blade Life
- Fibre Holder Adapter Option (FH-100-xxx)

### CT-106+

**Key Features:**
- Cleave up to 1250um Clad Fibre
- Auto Clamping System
- Cleaving Length 5-40mm
- Enhanced Blade Life
- Angled Cleaving (up to 15 deg)
- Fibre Holder Adapter Option (FH-100-xxx)

# Specialty Products

## Fujikura Cleavers-2



### CT-101/102

**Key Features:**

- Cleave 80-250um Clad Fibre
- Cleave Length 3-40mm
- Enhanced Blade Life
- Angled Cleaving (0-15 deg)
- FH-100 Holders – CT-101
- FH-70 Holders – CT-102



### CT52

**Key Features:**

- 125um Clad Fibre
- Coating up to 900um
- SMF/MMF up to 12 Fibres
- Cleaving Length 3-20mm
- Fibre Plate or FH-100, FH-70 Holders
- Auto Blade Rotation & Bluetooth
- Blade Height Adjustment Dial



### CT58

**Key Features:**

- 80um Clad Fibre
- Coating up to 400um
- SMF/MMF Single Fibre
- Cleaving Length 3-20mm
- Fibre Plate or FH-100, FH-70 Holders
- Auto Blade Rotation & Bluetooth
- Blade Height Adjustment Dial

# Specialty Products

## Fujikura Recoaters



### FSR-115

Key Features:
- Automatic High Quality Operation
- Coloured & Non-coloured Recoat Capability
- Recoat Diameter up to 1000um
- New Improved Pump and Air Vent Technology
- Touch Screen and LED Resin Inspection.
- Bubble Separator Technology
- RFID Glass Mold Recognition
- Recoating Length: 4-50mm

### FSR-116

Key Features:
- Automatic High Quality Operation
- Coloured & Non-coloured Recoat Capability
- Recoat Diameter up to 1000um
- New Improved Pump and Air Vent Technology
- Touch Screen and LED Resin Inspection
- Bubble Separator Technology
- RFID Glass Mold Recognition
- Recoating Length: 4-50mm
- Linear Tension Clamp (0.5 – 2.0 kgf)

### FSR-117

Key Features:
- Automatic High Quality Operation
- Coloured & Non-coloured Recoat Capability
- Recoat Diameter up to 1000um
- New Improved Pump and Air Vent Technology
- Touch Screen and LED Resin Inspection
- Bubble Separator Technology
- RFID Glass Mold Recognition
- Recoating Length: 4-50mm
- Mandrel Tension Clamp (0.5 – 10 kgf)

# Specialty Products

## Fujikura Strippers



### HTS-12

**Key Features:**
- Single Count 125um or 80um Cladding Fibre
- 250um UV Cured Coating or Optional Blade
- 35mm Maximum Strip Length
- Heating Time: 3 sec
- FH-100, FH-40 series applicable holders



### PCS-100

**Key Features:**
- Conventional Silica Optical Fibre Stripping (Polyimide & Carbon Coated)
- Cladding Diameter: 60 – 1200um
- Coating Diameter: 60 – 1500um
- Stripping Length: 1 – 35mm (Window Stripping 1 – 33mm)
- FH-100 series applicable holder

# Specialty Products

## Fujikura Cleaner & Preparation Machine



### USC-03

**Key Features:**

- High Intensity Vibratory Single Fibre Cleaning Action
- ≥99% IPA or Ethanol
- 49mm Max (Adjustable) Fibre Cleaning Length
- FH-40, 50, 70,100 Series Applicable Holders
- 1-99 Seconds Adjustable Timer.



### APM-101/102

**Key Features:**

- Automatic Stripping/Cleaning/Cleaving Operation
- 125um Cladding/250um Coating
- Approx 23 Seconds Operation Times
- 3-10mm Cleave Length
- FH-100 Holders – APM-101
- FH-70 Holders – APM-102

# Specialty Products

## LZM Products - 1



**LZM-125 Series**

**Key Features:**
- CO2 Laser Heat Source for Splicing & Glass Shaping
- Auto Align Fibre Clad Size 80-2000um (2.3mm Camera Field View)
- Clamp Fibre Glass or Coating Capability
- FH-100, 40, 45 Fibre Holder Compatibility (Custom Fixtures Available)
- FPS Compatibility

**3 Model Versions:**

**LZM-125M+ (Without PMF Rotation & With Endview)**
**LZM-125P+ (With PMF Rotation & Endview)**
- Left & Right Z Travel 18mm (Sweep Length up to 36mm)
- Maximum Taper Length 32mm

**LZM-125A+ (With PMF Rotation, Endview & Cladding Ablation)**
- Left & Right Z Travel 18mm (Sweep Length up to 36mm)
- Maximum Taper Length 32mm
- Secondary Beam, Cladding Mode Stripper & Fibre Polishing Capability

# Specialty Products

## LZM Products - 2



**LZM-100**

**Key Features:**
- CO2 Laser Heat Source for Splicing & Glass Shaping
- Auto Align Fibre Clad Size 80-2300um (2.7mm Camera Field View)
- 150mm Left & Right Z Travel (150mm Max Taper Length)
- Clamp Fibre Glass or Coating Capability
- FH-100, 40, 45 Fibre Holder Compatibility (Custom Fixtures Available)
- PMF Splicing Capability (Optional)
- Endview Observation System (Optional)
- FPS Compatibility

- **Compatible Applications for all LZM Models:**
  - Low Melting Point Fibre Splicing
  - Shaped Fibers (E.g. Ball Lens, Axicon Lens)
  - End-caps
  - Capillaries & Over-Clad
  - TCE – Thermal Core Expansion
  - MFA – Mode Field Adapters
  - PCF – Photonic Crystal Fibres
  - Combiners
  - Tapers

# ETSC Services - 1

## FSM/LZM Fibre Optimisation Services

- Fujikura Europe provides custom engineering services to optimise splicing, glass processing applications and fibre operation processes.

- Optimisation Services:

  - **Fibre Combination Splice**

  - **Low Melting Point Fibre Splicing**

  - **Shaped Fibers (E.g. Ball Lens, Axicon Lens)**

  - **End-caps**

  - **Capillaries & Over-Clad**

  - **TCE – Thermal Core Expansion**

  - **MFA – Mode Field Adapters**

  - **PCF – Photonic Crystal Fibres**

  - **Combiners**

  - **Tapers**



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# ETSC Services - 2

## Specialty Product Training

- Fujikura Europe provides on site engineering services for consumers on site if required.

- Specialty Training Services on customer site:

  - Specialty Product Set-up

  - Basic Operational Use – FSM Products

  - Basic Operational Use – LZM Products

  - On-site Fibre Splicing Training

  - Advanced Fibre Splicer Training – FPS Fibre Applications

  - On-site Fibre Optimisation

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