

MAUNT

M10000630 **Cleaver CT-116, Fujikura**



Description

The Fujikura CT-116 is widely used in fibre preparation for the fusion splicing of standard data communication fibres, large-diameter octagonal or round fibres (LDF), polarisation-preserving fibres, photonic crystal fibres and even for the production of components with capillary tubes, bulb lenses, end caps and more. The CT-116 is designed for cleaving glass fibres with cladding diameters between 80 and 1250 µm. The CT-116 features automatic fibre clamping, backstop adjustment and blade position change. The CT-116 has an angle cleave function, allowing it to cleave up to 15 degrees. The CT-116 also has an RFID tag attached to the fibre holder. This RFID tag allows the user to link a fibre holder to a cleave mode. In this menu, each fibre holder has a unique RFID and user-defined name for easy setting of combinations of fibre holder and cleave mode. The CT-116 uses the links in this menu to automatically change the cleave mode based on the fibre holder recognised by the cleave machine's RFID sensor. This can be used as process control or to help with optimising cleaving.

Brand

Fujikura

Technical specifications

Fibre type	Silica optical fibres and capillary tubes
Fibre number	Single mode
Cladding diameter	80-1250 µm
Coating diameter	81-3.182 µm
Fibre clips	Automatic via motor
Backstop adjustment	Automatic via motor
Voltage range ²	0 to 10,000 gf (98.1 N)
Cleaver length ³	30 - 75 mm
Cleaving angle	Average 0.2° (Cladding diameter 125 µm) Average 0.3° (Cladding diameter 400 µm) Average 1.0° (Cladding diameter 1,000 µm) ⁵
Corner-cleave function	0-15° (0 to 180° on Cleaver rotator) ⁶
Blade life ⁷	200,000 fibres (10,000 fibres x 20 positions for 250 µm cladding fibres)
Dimensions (WxDxH)	240 x 133 x 151 mm without projections
Weight	4.2 kg without inserts and with fibre holder adapter
Humidity	0 to 95% RH, non-condensing (operation and storage)
Temperature	0°C to 40°C (operation) -40°C to 80°C (storage)
Number of cleave modes	Maximum 100
Cleaver results	10,000 cleave data
AC adaptor	Input: AC 100 V to 240 V (50 or 60 Hz) (max. 1.5 A) Output: DC 19 V, Max. 2.1 A
Display	TFT 4.95" touch screen LCD monitor



Interface	PC: USB 2.0 (Mini-B type) for PC communication Grounding point: Applicable with M3 size truss screw
Wireless communication	RFID complies with ISO 15693
Automatic functions	Automatic selection of cleave mode via RFID tag Motorised knife position change Automatic voltage adjustment
PC Software	Firmware update via internet Cleaver mode and parameter upload and download

***1** For cladding diameters smaller than 400 µm, use magnets. For cladding diameters of 400-660 µm, use both magnets and clamping screw. The clamping screw may be required depending on the fibre type when it is also falls below 400 µm.

***2** There are cases where the set voltage differs from the actual voltage.

***3** The detachment length is defined as the distance between the clip on the left side of the fibre and the end of the split-off fibre.

***4** Measured with an interferometer at room temperature. For each fibre, a new blade was used for splitting off. The average splitting angle changes depending on operational conditions such as blade condition, working method and Purity.

***5** Measured with an FSM-100P+ splitting device at room temperature. For each fibre, a new blade was used for splitting off. The average splitting angle changes depending on operational conditions such as the state of the blade, the working method and cleanliness.

***6** The maximum bevel splitting changes depending on the fibre type being split off and the clamping position.

***7** The life of the blade changes depending on operational conditions such as the condition of the blade, the working method, cleanliness and fibre type being separated.