

Large Diameter Optical Fiber Cleaver

CT114 / CT115 / CT116

***Better Cleaving Quality
And Better Usability***



CT115

Automated clamp force optimization



CT116

Angled cleaving capability

Automated clamp force optimization



CT114

Manual clamping system

Features

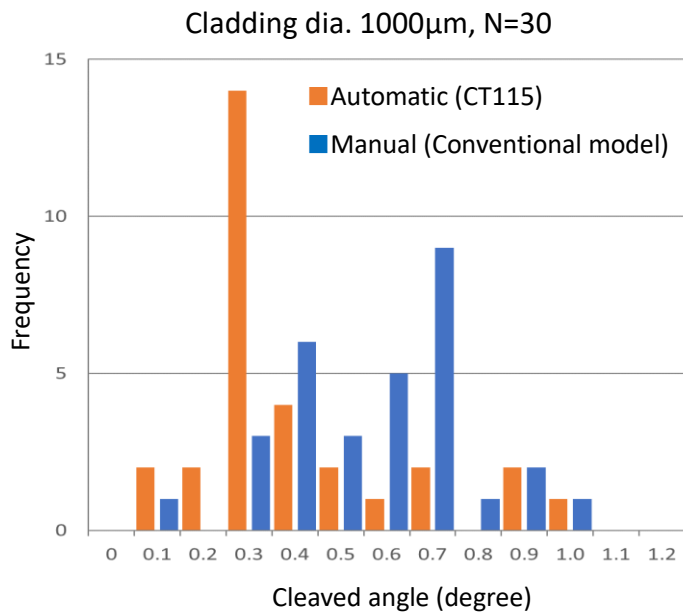
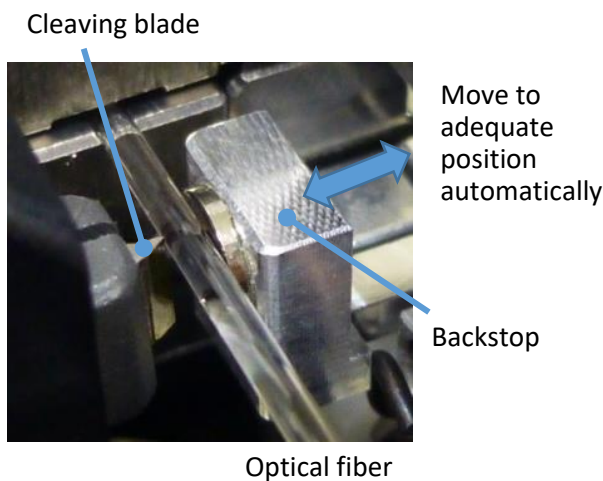
Auto Backstop (for CT115/CT116)

The Backstop helps to provides better cleave quality especially for large-diameter fibers and for sub-critical tension fibers.

Micron order positioning is necessary to obtain stable cleaving. The previous model positioned the micrometer by hand, usually with the aid of a microscope.

The CT115 and CT116 are equipped with the auto backstop function. It detects the backstop position and moves to the correct position automatically.

It provides both stable cleaving and shortenes the cleaving operation time.



Blade Management

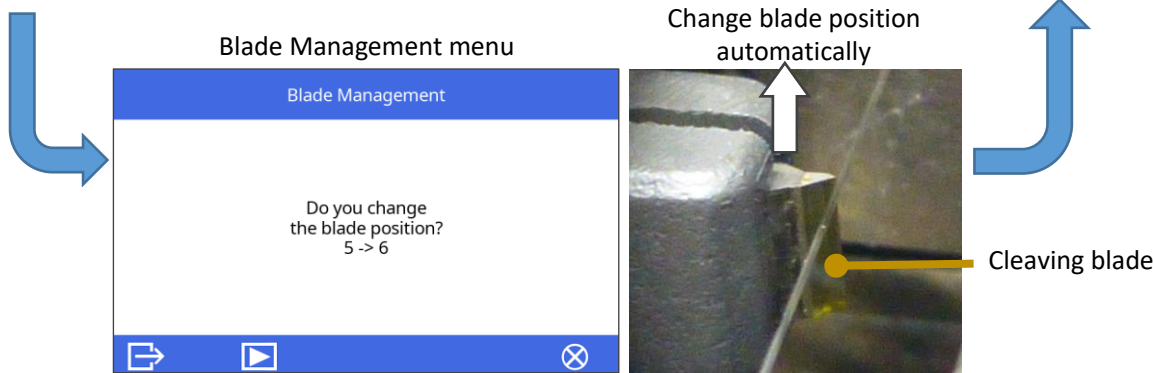
The automatic cleaving blade position always keep using good quality blade and it provides stable cleaving quality. Since you do not need to worry about blade condition anymore.

It's time to rotate blade

Blade Management										
Blade Position										
No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	
9723	11054	9480	9538	12376	0	0	0	0	0	
No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	
0	0	0	0	0	0	0	0	0	0	
Cleave Count Of Blade : 52171					Cleave Count Of Machine : 52171					

Next blade position

Blade Management										
Blade Position										
No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	
9723	11054	9480	9538	12376	0	0	0	0	0	
No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	
0	0	0	0	0	0	0	0	0	0	
Cleave Count Of Blade : 52171					Cleave Count Of Machine : 52171					

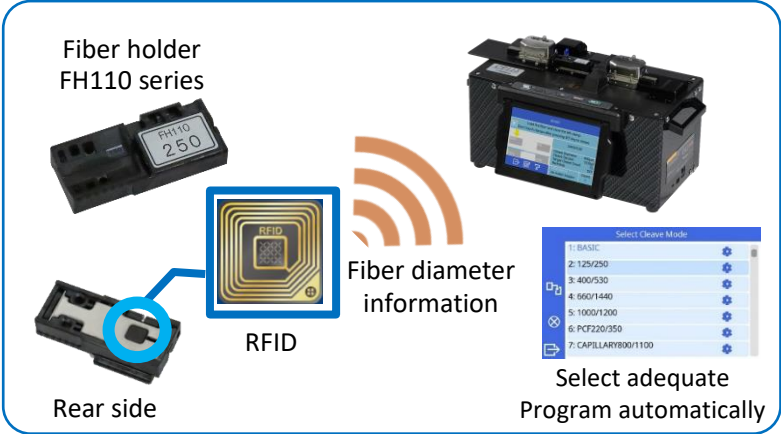


Wireless communication function

CT115 series is equipped with an RFID wireless communication function to newly designed FH110 series fiber holders.

The FH110 RFID includes the holder size information. The CT115 series reads it and selects a pre-assigned program.

It prevents selecting the wrong cleaving program.



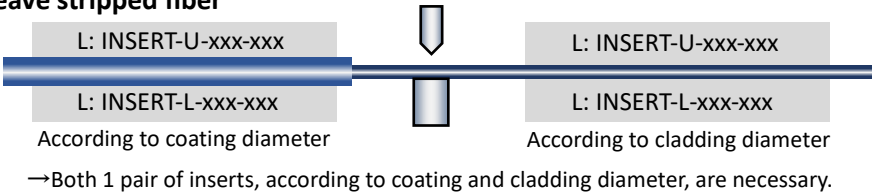
INSERT

Inserts are selected according to fiber coating diameter and cladding diameter. Therefore, the standard configuration does not include inserts. Please refer to the below table and purchase inserts separately.

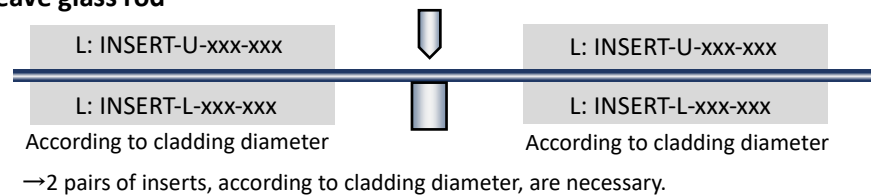
UPPER INSERT		INSERT-U-80-400		INSERT-U-500-750 *1		INSERT-U-1000-1250 *1		INSERT-U-1500-1750 *1		INSERT-U-2000-2250 *1		INSERT-U-2500-3000 *1	
LOWER INSERT		Size 500	Size 750	Size 1000	Size 1250	Size 1500	Size 1750	Size 2000	Size 2250	Size 2500	Size 3000		
INSERT-L-80		54-107											
INSERT-L-125		84-167											
INSERT-L-160		105-213											
INSERT-L-250		167-333											
INSERT-L-400		267-533	400-533										
INSERT-L-500-750 *1	Size 500	334-667	467-667	550-667									
	Size 750		634-868	717-1000	787-1000								
INSERT-L-1000-1250 *1	Size 1000			884-1118	954-1188	1037-1272							
	Size 1250				1120-1355	1204-1438	1287-1522						
INSERT-L-1500-1750 *1	Size 1500					1370-1605	1454-1688	1537-1772					
	Size 1750						1620-1855	1704-1938	1780-2015				
INSERT-L-2000-2250 *1	Size 2000							1870-2105	1947-2288	2030-2265			
	Size 2250								2114-2348	2197-2432	2280-2515		
INSERT-L-2500-3000 *1	Size 2500									2364-2598	2447-2682	2614-2848	
	Size 3000										2780-3015	2947-3182	

*1: Each side of this insert is equipped with a groove that is marked with the size of the fiber diameter on the table.

Case 1: To cleave stripped fiber



Case 2: To cleave glass rod



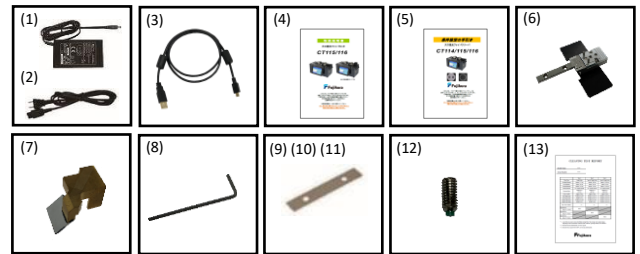
Below URL and right QR shows the detail how to select insert.

https://www.fusionsplicer.fujikura.com/wp-content/uploads/2023/02/SP_CT115_E_0004.jpg



Standard Package

Item	Model	Qty
Large Diameter Optical Fiber Cleaver	CT114, CT115, CT116	1 pc
(1) AC Adapter	ADC-21	1 pc
(2) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(3) USB Cable	USB-01	1 pc
(4) Instruction Manual	—	PDF file stored in Cleaver
(5) Technical Reference	TR-CT115+-E	1 pc
(6) Fiber Holder Adapter	FHA-CT115	1 pc
(7) Fiber Height Checking Mirror	CM-CT115	1 pc
(8) Hexagonal Wrench	HEX-01	1 pc
(9) Height Adjusting Spacer 30μm	SPA-CT105-30	3 pcs
(10) Height Adjusting Spacer 50μm	SPA-CT105-50	3 pcs
(11) Height Adjusting Spacer 100μm	SPA-CT105-100	3 pcs
(12) Screw for Insert	SCREW-CT-01	1 set (15 pcs)
(13) Cleave test report	CR-CT115	1 pc



Specifications

Item	CT114	CT115	CT116
Applicable fiber	Fiber type	Silica fiber	
	Fiber count	Single fiber	
	Cladding dia.	80 to 660μm	80 to 1250μm
	Coating dia.	81 to 3182μm	
Clamping force adjustment		Under cladding dia 400μm : Adjustment with magnet cladding dia. 400μm to 660μm : Adjustment with magnet and screw *1	Auto adjustment with motor
Backstop adjustment		Manual	Auto adjustment with motor
Capability of setting range for tension *2		0 to 3,000gf	0 to 10,000gf
Capability of setting range for cleave length *3		30 to 75 mm	
Cleave angle *4	Cladding dia. 125μm	Avg. 0.2°	
	Cladding dia. 400μm	Avg. 0.3°	
Cleave angle *5	Cladding dia. 660μm	Avg. 0.4°	
	Cladding dia. 1000μm	—	
Fiber twister		None	Equipped
Angled Cleave angle		None	Approx. 0° to 15° *6
Capability of setting range for rotation angle		None	0° to 360°
Blade life		Approx. 200,000 fiber cleaves at cladding dia. 250μm and 400μm *7	
Physical description	Dimensions W	Approx. 240mm without projection	Approx. 240mm without projection
	Dimensions D	Approx. 133mm without projection	Approx. 133mm without projection
	Dimensions H	Approx. 142mm without projection	Approx. 151mm without projection
	Weight	Approx. 3.6kg without inserts and with fiber holder adapter	Approx. 3.9kg without inserts and with fiber holder adapter
Environmental condition	Temperature	Operate: 0 to 40 °C, Storage: -40 to 80 °C	
	Humidity	Operate: 0 to 95%RH non-condensing, Storage: 0 to 95%RH non-condensing	
AC adapter	Input	AC100 to 240V, 50/60Hz, Max 1.5A	
	Output	Approx. DC19V, Max 2.1A	
Display	LCD monitor	TFT 4.95 inches with touch screen	
Interface	PC	USB2.0 Mini B type	
	Ground point	Applicable by M3 size truss screw.	
Wireless communication	RFID	Compliant with ISO 15693	
Data storage	Cleave mode	100 cleave modes	
	Cleave result	10000 cleaves	
Other features	Automatic functions	Auto cleave mode select by RFID tag	
		Auto backstop adjustment	
		Motorized blade position change	
		Auto tension select	
Software for PC	Automatic functions	Auto clamping force adjustment	
		Firmware update via internet	
		Cleave parameter upload and download	

Note

*1 Clamp lid screw may be necessary depending on the fiber type when it cleaves < 400 μm.

*2 There are some cases that the set tension is different from the actual tension.

*3 Cleave length means distance between end surface of the left side clamp and end surface of the cleaved fiber.

*4 Measured with an interferometer at room temperature, not with a splicer. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.

*5 Measured with a splicer (FSM-100P+) at room temperature. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.

*6 Maximum cleaved angle changes depending on the fiber type cleaved and clamp position.

*7 Support 10,000 cleaves per position at cladding dia. 250μm and 400μm.

20pos. X 10,000 cleaves = 200,000 cleaves

The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.

Options

Item	Model	Remark
Blade for Replacement	CB-06A	Blade for Replacement
Upper insert*1	INSERT-U-80-400	54 to 667μm
	INSERT-U-500-750	500 side: 400 to 868μm 750 side: 550 to 1118μm
	INSERT-U-1000-1250	1000 side: 787 to 1355μm 1250 side: 1037 to 1605μm
	INSERT-U-1500-1750	1500 side: 1287 to 1855μm 1750 side: 1537 to 2105μm
	INSERT-U-2000-2250	2000 side: 1780 to 2348μm 2250 side: 2030 to 2598μm
	INSERT-U-2500-3000	2250 side: 2030 to 2598μm 3000 side: 2614 to 3182μm
	INSERT-L-80	54 to 107μm
	INSERT-L-125	84 to 167μm
Lower Insert*1	INSERT-L-160	107 to 213μm
	INSERT-L-250	167 to 333μm
	INSERT-L-400	267 to 533μm
	INSERT-L-500750	500 side: 334 to 667μm 750 side: 634 to 1000μm
	INSERT-L-1000-1250	1000 side: 884 to 1272μm 1250 side: 1120 to 1522μm
	INSERT-L-1500-1750	1500 side: 1370 to 1772μm 1750 side: 1620 to 2015μm
	INSERT-L-2000-2250	2000 side: 1870 to 2265μm 2250 side: 2114 to 2515μm
	INSERT-L-2500-3000	2500 side: 2364 to 2848μm 3000 side: 2780 to 3182μm
Insert Set 80-1750 μm*1	INSERT-L-80 : 2 pcs	INSERT-L-80 : 2 pcs
	INSERT-L-125 : 2 pcs	INSERT-L-125 : 2 pcs
	INSERT-L-160 : 2 pcs	INSERT-L-160 : 2 pcs
	INSERT-L-250 : 2 pcs	INSERT-L-250 : 2 pcs
	INSERT-L-400 : 2 pcs	INSERT-L-400 : 2 pcs
	INSERT-L-500-750 : 2 pcs	INSERT-L-500-750 : 2 pcs
	INSERT-L-1000-1250 : 2 pcs	INSERT-L-1000-1250 : 2 pcs
	INSERT-L-1500-1750 : 2 pcs	INSERT-L-1500-1750 : 2 pcs
Height Adjusting Spacer, 10 pcs. Pack	SPA-CT-105-30-10SET	Height Adjusting 30μm
	SPA-CT-105-50-10SET	Height Adjusting 50μm
	SPA-CT-105-100-10SET	Height Adjusting 100μm
	FH110-60	60μm Coating Diameter
	FH110-100	100μm Coating Diameter
	FH110-125	125μm Coating Diameter
	FH110-150	150μm Coating Diameter
	FH110-180	180μm Coating Diameter
Fiber Holder	FH110-210	210μm Coating Diameter
	FH110-250	250μm Coating Diameter
	FH110-300	300μm Coating Diameter
	FH110-350	350μm Coating Diameter
	FH110-400	400μm Coating Diameter
	FH110-500	500μm Coating Diameter
	FH110-600	600μm Coating Diameter
	FH110-700	700μm Coating Diameter
	FH110-800	800μm Coating Diameter
	FH110-900	900μm Coating Diameter
	FH110-1000	1000μm Coating Diameter
	FH110-1100	1100μm Coating Diameter
	FH110-1200	1200μm Coating Diameter
	FH110-1300	1300μm Coating Diameter
	FH110-1400	1400μm Coating Diameter
	FH110-1500	1500μm Coating Diameter
	FH110-1600	1600μm Coating Diameter
	FH110-1700	1700μm Coating Diameter
	FH110-1800	1800μm Coating Diameter
	FH110-1900	1900μm Coating Diameter
	FH110-2000	2000μm Coating Diameter

Note

*1 Depending on the coating material and coating structure, inserts other than the recommended inserts may be required.



Please visit our web site!

<https://www.fusionsplicer.fujikura.com>

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