Fusion Splicing





CT-104+



CT-105+



CT-106+

CT-104+, CT-105+ and CT-106+ Fiber Cleavers

When exceptional cleave quality is required for fibers up to 1,250 μ m, the new large diameter CT-104+/CT-105+/CT-106+ cleaver family provides a variety of options depending on your needs. The color LCD shows cleaving progress and recommended insert size depending on fiber coating and cladding diameter. Saving and storing cleaving programs to a PC or tablet is accomplished using a USB port. The LDF cleaver's extensive programming features allow for optimal results.

Excess clamping force may deform the coating or worsen the cleave angle due to rotational stress by the clamps. Therefore, to get good cleaving quality, the clamping force should be the minimum force that does not slip while the cleaver applies fiber tension. The optimum clamping force depends on the optical fibers structure and coating material. The CT105+/CT-106+ cleavers feature a new technology that finds the optimum clamping force automatically and accurately.

Specifications

PARAMETER	CT-104+	CT-105+	CT-106+						
Applicable optical fiber	Glass optical fibers, capillary								
Number of fibers	Single								
Cladding diameter	80 - 600 μm 80 - 1,250 μm								
Coating diameter	160 - 3,000 μm								
Fiber clamping	Manual clamping Automatic clamping								
Cleaving length	5 - 40 mm								
Cleaving angle ¹	Average 0.2 degrees or less (Cladding diameter 125 µm) ²								
	Average 0.3 degrees or less (Cladding diameter 400 µm) ²								
	Average 0.4 degrees or less (Cladding diameter 600 μ m) ³								
Angled cleaving	_	_	0 - 15° (up to 800 µm cladding fiber)						
Blade life ⁴	200,000 fibers (Cladding diameter 250 µm)								
Dimensions (WxDxH)	240x134	240x134x163mm							
Weight	3.4 kg	3.5 kg	3.8 kg						
Humidity		0 to 95% RH, non-conden	sing						
Temperature	0°C to +50°C (operation) -40°C to +80°C (storage)								
Number of	Maximum 100								
cleaving modes									
Cleave result	1,000 cleave data								
Power supply	AC adapter : ADC-19A Input : AC100 to 240 V (50 to 60 Hz) (max. 20 W)								
Monitor	TFT 4.7 inches color LCD								
PC interface	USB 2.0 (Mini-B type) for PC communication								

Notes:

- 1. A new blade was used to cleave the special fibers. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
- 2. Measured with an interferometer at room temperature.
- 3. Measured with the splicer, FSM-100P+.
- 4. The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.

Cleavers

Fusion Splicing



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CT-104+ Features

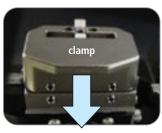
- 80 600 µm cladding diameter
- Manual clamping system
- Up to 100 stored program modes
- 200,000 cleaves per blade for 250 µm fiber
- Optional adapter for use with FH-100 series fiber holders
- Communication to a PC via USB

CT-105+ Features

- 80 1,250 µm cladding diameter
- Automatic clamping system
- Up to 100 stored program modes
- 200,000 cleaves per blade for 250 μm fiber
- Optional adapter for use with FH-100 series fiber holders
- Fiber backstop standard
- Communication to a PC via USB



Angled Cleaving Angled cleaving from up to 15° is possible for fibers up to 800 µm (only for CT-106+)



Automatic Clamp Function

Clamp optical fiber with programmable force automatically (CT-105+ and CT-106+ only). No compressed air or torque wrenches required.

CT-106+ Features

- 80 1,250 µm cladding diameter
- Automatic clamping system
- Up to 100 stored program modes
- Angled cleaving function (up to 15° on fibers up to 800 µm cladding diameter)
- 200,000 cleaves per blade for 250 µm fiber
- Optional adapter for use with FH-100 series fiber holders
- Communication to a PC via USB



Backstop

Improves cleave quality especially for large-diameter fibers as well as lower tension fiber cleaving and is standard on CT-105+ cleavers.

Ordering Information

DESCRIPTION	AFL NO.				
CT-104+ Large Diameter Optical Fiber Cleaver includes: ADC-19A AC adapter, ACC-09 AC power cord, HEX-01 hex wrench, USB-01 USB Cable and M-CT104+ instruction manual					
CT-105+ Large Diameter Optical Fiber Cleaver includes: ADC-19A AC adapter, ACC-09 AC power cord, HEX-01 hex wrench, USB-01 USB Cable and M-CT105+ instruction manual					
CT-106+ Angled Large Diameter Optical Fiber Cleaver includes: ADC-19A AC adapter, ACC-09 AC power cord, HEX-01 hex wrench, USB-01 USB Cable and M-CT106+ instruction manual	S016077				

Accessories

DESCRIPTION	AFL NO.
CB-06A Replacement Blade	S016078
AC adapter ADC-19A	S015523
AC power cord ACC-09	S014390
Fiber Holder Inserts	
Master fiber holder insert kit (includes all available inserts listed below)	S016098
INSERT-L-80	S016085
INSERT-L-125	S016086
INSERT-L-160	S016087
INSERT-L-250	S016088
INSERT-L-400	S016089
INSERT-L-500-750	S016090

DESCRIPTION	AFL NO.							
Fiber Holder Inserts (continued)								
INSERT-L-1000-1250	S016091							
INSERT-L-1500-1750	S016092							
INSERT-L-2000-2250	S016093							
INSERT-L-2500-3000	S016094							
INSERT-U-80-400	S016079							
INSERT-U-500-750	S016080							
INSERT-U-1000-1250	S016081							
INSERT-U-1500-1750	S016082							
INSERT-U-2000-2250	S016083							
INSERT-U-2500-3000	S016084							

DESCRIPTION	AFL NO.							
Height adjusting spacer (10 piece pack)								
SPA-CT105-30-10SET (30 μm)	S016095							
SPA-CT105-50-10SET (50 μm)	S016096							
SPA-CT105-100-10SET (100 µm)	S016097							
Optional Items								
AD-CT105-FH100	\$016450							
Fiber Holder Adapter	3010430							
TD-01 Torque Driver	S016738							



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Insert Selection Guide

UPPER INSERT												
LOWER INSERT		INSERT- U-80-400	INSERT-U-500-7501		INSERT-U-1000-12501		INSERT-U-1500-17501		INSERT-U-2000-22501		INSERT-U-2500-30001	
			500	750	1000	1250	1500	1750	2000	2250	2500	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-500-7501	500	334-667	467-667	550-667								
	750		634-868	717-1000	787-1000							
INSERT-L-1000-12501	1000			884-1118	954-1188	1037-1272						
INSERI-L-1000-1250	1250				1120-1355	1204-1438	1287-1522					
INSERT-L-1500-17501	1500					1370-1605	1454-1688	1537-1772				
	1750						1620-1855	1704-1938	1780-2015			
INSERT-L-2000-22501	2000							1870-2105	1947-2288	2030-2265		
	2250								2114-2348	2197-2432	2280-2515	
INSERT-L-2500-30001	2500									2364-2598	2447-2682	2614-2848
	3000										2780-3015	2947-3182

Note:

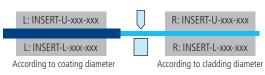
1. Each side of this insert is equipped with a groove that is marked with the size of the fiber diameter on the table.

Upper and lower inserts can be changed up or down depending on required fiber fit into the V-groove.

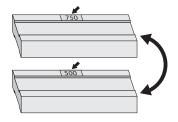
Inserts 500 μ m and above are double-sided. Therefore, the visible label when inserted indicates the size of the insert you are using.

Upper and lower inserts are necessary for both left and right side clamps.

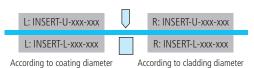
Case 1: Cleaving coating-stripped fiber



Inserts according to both coating diameter and cladding diameter are necessary.



Case 2: Cleaving glass rod



Two insert pairs of the same size according to rod diameter are necessary.