PHOTON KINETICS

FK Series Single Fiber Cleavers

Ultrasonic, “tension-first” method for flat, defect-free fiber end faces

Features

High quality cleaves for fusion splicing, fiber termination and testing

- Defect-free flat fiber end faces ensure low loss fusion splices, mechanical splices and more precise optical fiber measurements.
- Flat, angled end faces for low reflectance terminations.

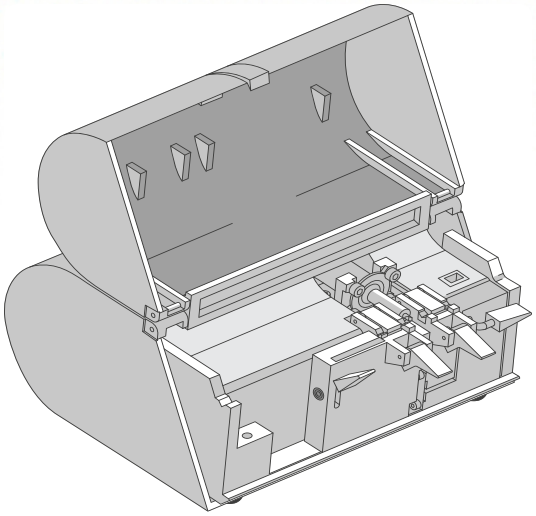
Tension-first method with ultrasonic blade

- Method employed by all FK cleavers
- Precisely tensioned fiiber cleaves immediately after ultrasonically vibrating diamond blade makes contact.
- Method superior to “score and break” cleavers that require creation of a larger initial flaw before fiber can be broken by pushing laterally on cladding.
- FK cleavers cleave with minimal cladding contact which is optimal for producing defect-free end faces and high tensile strength fusion splices.

Family of specialized configurations

- Flat, normal and angled cleaves
- Standard, small and large cladding diameter fibers
- Range of bare fiber lengths
- Range of coating diameters
- Cleavers for both bare and coated fibers

For more information contact
sales@pkinetics.com



Single Fiber Cleaving

Specifications

Performance								
Family	**FK11**						**FK12**	
Configuration	Standard	-4	-C	-LDF	-LDF-C	-SDF	Std.	-SDF
Fiber Types	Silica			HCS/PCS Silica	Silica			
Cladding Diameter (µm)	80-200		80-250	180-400		40-80	125	80
Max. Coating Diameter (µm)	900		250	900				
Min. Bare Fiber Length (mm)	15	2	0	15		6	6	
Cleave Angle Range							0-15°	
Cleave Angle Repeatability							< 1°	
Blade Life (# of cleaves)	> 20,000			> 5000			>20,000	

Configurations	
FK11 Standard	Fibers having nominal clad dia. from 80 to 200 µm w/standard bare fiber length.
FK11-4	Fibers having nominal clad dia. from 80 to 200 µm w/longer bare fiber length.
FK11-C	Fibers with nominal coating diameters to 900 µm, dependent on coating material.
FK11-LDF	Large diameter fibers to 400 µm.
FK11-LDF-C	Large dia. fibers to 400 µm w/coating dia. up to 900 µm, dependent on coating material.
FK11-SDF	Small cladding diameter fibers from 40 to 80 µm.
FK12 Standard	Angled end faces for standard diameter fibers.
FK12-SDF	Angled end faces for small diameter fibers.
1100-YCL	Cleaver for 1100 Single Fiber Aligner
2XXX-YCL	Cleaver for most standard PK measurement systems
2XXX-YCL-LDF	Cleaver for some specialty PK measurement systems
2XXX-YCL-SDF	Cleaver for some specialty PK measurement systems
2XXX-YCL-C	Cleaver for some specialty PK measurement systems
2300-SCL	Cleaver for some 2300G/AG Fiber Analysis Systems
2300-SCL-LDF	Cleaver for some specialty 2300 Fiber Analysis Systems
2300-SCL-SDF	Cleaver for some specialty 2300 Fiber Analysis Systems

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