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Data Sheet

August 12, 2026

YORK / PK TECHNOLOGY

York / PK Technology FK11 Cleaver CALIBRATED

York / PK Technology FK11 Ultrasonic Fiber Cleaver The FK11 is a high-precision ultrasonic fiber optic cleaver (York Technology / PK Technology heritage; now Photon Kinetics product line) that produces flat, mirror-quality, low end-angle cleaves for fusion splicing and fiber testing. An ultrasonically driven diamond blade on a resonant acoustic horn cleaves tensioned fiber without conventional compressive anvil damage. Preparation of single-mode and multimode telecom fibers for fusion splicing; laboratory and field cleaving; measurement systems requiring consistent low end-angle cleaves; optional variants for large/small diameter fibers and coated-fiber cleaving. The FK11 is a high-precision ultrasonic fiber optic cleaver (York Technology / PK Technology heritage; now Photon Kinetics product line) that produces flat, mirror-quality, low end-angle cleaves for fusion splicing and fiber testing. An ultrasonically driven diamond blade on a resonant acoustic horn cleaves tensioned fiber without conventional compressive anvil damage. Preparation of single-mode and multimode telecom fibers for fusion splicing; laboratory and field cleaving; measurement systems requiring consistent low end-angle cleaves; optional variants for large/small diameter fibers and coated-fiber cleaving.



MODEL York / PK Technology FK11	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FK11	LISTING https://aumictechlabs.com/products/fk11-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The York / PK Technology FK11 Cleaver CALIBRATED is an ultrasonic fiber cleaving tool that delivers consistently clean, flat cleaves with minimal end-angle deviation. It employs a patented

anvil-less ultrasonic cleaving action using an ultrasonically vibrating diamond blade to sever fiber without compressive stress, producing mirror-quality end faces free of hackle and contamination. The instrument is calibrated for high-precision fusion splicing, termination, and fiber testing applications across telecommunications, data networking, and research environments.

Technical Specifications

Applicable Fiber Types: Multi-mode and single-mode

Fiber Diameter Range: 80 μm to 200 μm

Maximum Buffer Diameter: 900 μm

Minimum Cleave Length: 6 mm (0.23 inches)

Cleave Angle Repeatability: Typically less than 0.6° (95% of cleaves)

End Angle Consistency: Less than 1°

Blade Type: Diamond, adjustable to new positions as wear occurs

Estimated Blade Life: Over 20,000 cleaves

Blade Life (Battery-Limited): Over 10,000 cleaves per 9V alkaline battery

Power Source: 9V alkaline battery (MN 1604)

Weight: 1.2 kg (2.6 lb)

Dimensions: 150 mm $\times$ 150 mm $\times$ 68 mm (6" $\times$ 6" $\times$ 2 $\frac{2}{3}$ ")

Operating Temperature: 0°C to 45°C (32°F to 113°F)

Storage Temperature: -20°C to 60°C (-4°F to 140°F)

Key Features

- Ultrasonically vibrating diamond blade mounted on resonant acoustic-stepped horn
- Integrated tensioner applies axial fiber tension prior to cleaving
- Specially designed low-torsion clamps minimize fiber distortion
- Stictionless damped bearings for reliable, repeatable operation
- Blade release lever for simple manual actuation
- Replaceable, adjustable diamond blade accommodates progressive wear
- Integrated instruction panel for field operation
- Portable compact housing; often supplied with protective case

Typical Applications

- Fiber preparation for fusion splicing
- Termination and connector installation
- Precision fiber testing and measurement
- Laboratory and field deployment in telecom and data center environments

Compatibility & Integration

Supports multi-mode and single-mode fibers from 80 μm to 200 μm core diameter with buffered jackets up to 900 μm .

Features & description

From manufacturer datasheet

Features

- Ultrasonic diamond-blade cleaving (anvil-less) for low hackle/misting
- Standard fiber cladding diameter: 80–200 μm
- Cleave angle: $<0.6^\circ$ typical (standard FK11); end angle consistently $<1^\circ$ class in some PK literature
- Minimum cleave length: approx. 6 mm
- Maximum fiber buffer diameter class: 250 μm nominal coating; variants to 900 μm (e.g. FK11-4)
- Diamond blade estimated life: $>20,000$ cleaves (adjustable/replaceable)
- Power: 9 V alkaline (MN1604); battery life estimates $>1,000$ to $>10,000$ cleaves depending on published sheet
- Weight: approx. 1.1–1.2 kg
- Dimensions examples: 75 $\times$ 153 $\times$ 150 mm (H $\times$ W $\times$ D) or $\sim 150 \times 150 \times 68\text{--}75$ mm class
- Operating temperature: 0°C to 45°C (FiTeL/PK spec sheet class)
- Variants: FK11-LDF (180–400 μm , $<1.5^\circ$ typ); FK11-SDF (50–100 μm); FK11-USDF (20–30 μm); FK11-C coating cleave; FK11-PK for PK holders

FK11 Characteristics / Specifications

PARAMETER	VALUE
Model	FK11
Manufacturer	York / PK Technology (Photon Kinetics)
Instrument Type	Ultrasonic Fiber Cleaver
Alias	FK11; York FK11; PK FK11; Photon Kinetics FK11 Cleaving
Fiber diameters (standard FK11)	80–200 µm
Cleave angle (standard)	<0.6° typical
Minimum cleave length	approx. 6 mm
Blade	diamond; estimated life >20,000 cleaves Power / Mechanical
Battery	9 V alkaline (MN1604)
Weight	approx. 1.1–1.2 kg
Dimensions	75 × 153 × 150 mm (H×W×D) per FiTeL/PK sheet; alternate PK sheet ~150 × 150 × 68 mm
Operating temperature	0 to 45 °C Notes Specs from Photon Kinetics FK11 product page and FiTeL/PK FK11 specification sheets. Listing marked CALIBRATED–confirm cal certificate on unit. Do not assume LDF/SDF/USDF ranges unless the variant is labeled on the cleaver.
Standard fiber cladding diameter	80–200 µm
Cleave angle	<0.6° typical (standard FK11); end angle consistently <1° class in some PK literature
Maximum fiber buffer diameter class	250 µm nominal coating; variants to 900 µm (e.g. FK11-4)
Diamond blade estimated life	>20,000 cleaves (adjustable/replaceable)
Power	9 V alkaline (MN1604); battery life estimates >1,000 to >10,000 cleaves depending on published sheet
Dimensions examples	75 × 153 × 150 mm (H×W×D) or ~150 × 150 × 68–75 mm class
Variants	FK11-LDF (180–400 µm, <1.5° typ); FK11-SDF (50–100 µm); FK11-USDF (20–30 µm); FK11-C coating cleave; FK11-PK for PK holders

FK11 Specifications

PARAMETER	VALUE
York / PK Technology FK11 Ultrasonic Fiber Cleaver	Overview
Key Features	- Ultrasonic diamond-blade cleaving (anvil-less) for low hackle/misting
Technical Specifications	Model: FK11
Cleaving	Fiber diameters (standard FK11): 80–200 μm
Power / Mechanical	Battery: 9 V alkaline (MN1604)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0°C to 45°C (FiTeL/PK spec sheet class) - Variants: FK11-LDF (180–400 µm, <1.5° typ); FK11-SDF (50–100 µm); FK11-USDF (20–30 µm); FK11-C coating cleave; FK11-PK for PK holders
Operating Temperature	0°C to 45°C (FiTeL/PK spec sheet class) - Variants: FK11-LDF (180–400 µm, <1.5° typ); FK11-SDF (50–100 µm); FK11-USDF (20–30 µm); FK11-C coating cleave; FK11-PK for PK holders
Model	FK11
Manufacturer	York / PK Technology (Photon Kinetics)
Instrument Type	Ultrasonic Fiber Cleaver
Alias	FK11; York FK11; PK FK11; Photon Kinetics FK11 Cleaving
Fiber diameters (standard FK11)	80–200 µm
Cleave angle (standard)	<0.6° typical
Minimum cleave length	~6 mm
Blade	diamond; estimated life >20,000 cleaves Power / Mechanical
Battery	9 V alkaline (MN1604)
Weight	1.1–1.2 kg
Dimensions	75 × 153 × 150 mm (H×W×D) per FiTeL/PK sheet; alternate PK sheet ~150 × 150 × 68 mm

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	FK11
Manufacturer	York / PK Technology (Photon Kinetics)
Instrument Type	Ultrasonic Fiber Cleaver
Alias	FK11; York FK11; PK FK11; Photon Kinetics FK11
Cleaving	
Specifications	
PARAMETER	VALUE
Fiber diameters (standard FK11)	80–200 μm
Cleave angle (standard)	<0.6° typical
Minimum cleave length	~6 mm
Blade	diamond; estimated life >20,000 cleaves
Power / Mechanical	
Power / Mechanical	
PARAMETER	VALUE
Battery	9 V alkaline (MN1604)
Weight	1.1–1.2 kg
Dimensions	75 × 153 × 150 mm (H×W×D) per FiTeL/PK sheet; alternate PK sheet ~150 × 150 × 68 mm
Operating temperature	0 to 45 °C
Notes	
Specs from Photon Kinetics FK11 product page and FiTeL/PK FK11 specification sheets. Listing marked CALIBRATED—confirm cal certificate on unit. Do not assume LDF/SDF/USDF ranges unless the variant is labeled on the cleaver.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.