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» CAC-400 » LDC-400 » CFC-400-SMA » LFS-4100 » FFS-2000 » GPX-3000 SERIES » PTR-200 SERIES

## LDC-400 Large Diameter Fiber Cleaver

LDC-400 is a fully automated fiber cleaver that produces flat and angled cleaves on fibers ranging from 80 microns to 1.25 mm in diameter. This tension-and-scribe system marries the tensioning capabilities of our linear proof testers with precision diamond blade scribing technology to produce consistent low-angle cleaves with mirror-quality end-face finishes.

LDC-400 features programmable cleave tension, rotation angle and scribe conditions for cleaving circular fibers, polarization maintaining (PM) fibers and capillary tubes, and includes specialty processes for cleaving photonic crystal fiber (PCF). In addition, the system can be configured for cleaving non-circular fibers typically used in fiber laser systems. LDC-400 is an ideal companion to our GPX-3000 Series glass processing systems and our LFS-4000 large diameter fiber splicing system.

### Key Markets

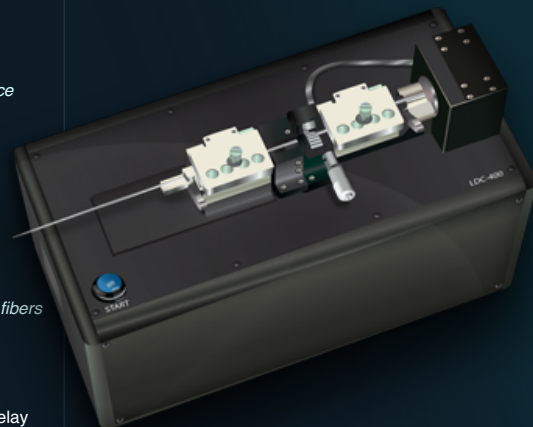
- Telecommunications
- Fiber Laser
- Sensing
- Medical
- Aerospace and Defense
- Research

### Related Products

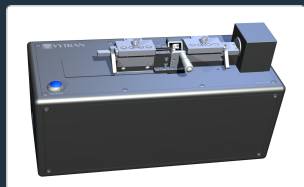
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### Features & Benefits

- Tension-and-scribe method  
*Low-angle and flat cleaves -- critical for high performance splicing*
- Programmable cleave parameters  
*Accommodates a wide range of fiber sizes (80µm to 1.25mm in diameter) and different types of conventional and specialty fibers, including circular, PM, non-circular fibers, PCF and capillary tubes*
- Unique "sub-critical" cleave process  
*Optimal technique for cleaving PCF and large diameter fibers*
- Precision controlled scribing process  
*Repeatable, consistent and accurate cleaves*
- Remote controlled tension, velocity, oscillation, scribe delay  
*Handset controller gives user full control over the cleave process*
- Fiber holding blocks for accurate fiber positioning and clamping  
*Results in highest fiber quality and process repeatability*
- Internal Vacuum  
*Ease of fiber loading and consistent fiber positioning*
- Common fiber holding blocks with other Vytran tools  
*For ease of use and maintaining fiber position registration during the cleaving and splicing processes*
- Adjustable mechanical slide  
*Enables precise control of cleave position*
- Angle cleave option  
*Precise and consistent angle cleaves*
- Micrometer backstop option  
*Allows low-tension PCF cleaves and large diameter fiber cleaves*



### FEATURED VIDEO



#### LDC Video

LDC-400 description, capabilities and benefits

### PUBLICATIONS

■ [Trends In Fused Components For Fiber Lasers](#) ▶  
 Courtesy of Nasa Tech Brief

■ [Fiber Probes Hold Promise For Medical Imaging Applications](#) ▶  
 Courtesy of Photonics Spectra

### DOWNLOADS

■ [LDC-400 data sheet](#) ▶  
 Download product overview and key specifications



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