

# I•Cleave

Optical fibers need end faces preparation to obtain proper optical interface. These optical faces have to be flat, free of scratches with a mirror aspect and perpendicular to the fiber axis.

## Description:

This new machine **I•Cleave** results from three generations of tools (Infocut). This new equipment is designed to obtain cleaved end with excellent perpendicularity on a variety of large core fibers up to 1500µm.

The principle is to create a crack on the fiber surface with a diamond blade and then pull the fiber along the axis. The design of the tool has been optimized to obtain minimum unwanted stress on the fiber which is the real key to a perfect cleave. The fiber is positioned in a deep V groove and held by a polyurethane pad. The distance between the clamp and the diamond blade has been calculated to limit the twisting of the fiber during the process. The tension on the fiber is applied very progressively.

This equipment is designed to cleave fibers from 200µm to 1500µm.

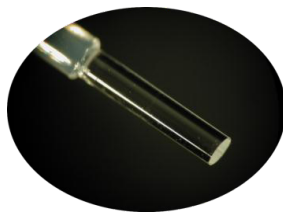
Polyimide fibers can be cleaved directly through the coating with the standard machine but with slightly modified procedure. If the user is cleaving only polyimide fibers a modified clamping kit will be proposed.

## Specifications:

Each kit includes: one **I•Cleave**, a magnifier, a tweezer

Fibers	Coating	Version	Reference of the Kit
200 to 600µm	ETFE, Nylon, Polyimide	Set of cams n°1 + special handling	<b>U2-ICLEAVE200-600</b>
600 to 1000µm	ETFE, Nylon, Polyimide	Set of cams n°2 + special handling	<b>U2-ICLEAVE600-1000</b>
1500µm	ETFE, Nylon	Set of cams n°3	<b>U2-ICLEAVE1500</b>
All Fibers	ETFE, Nylon, Polyimide	Set of cams n°1, n°2 & n°3	<b>U2-ICLEAVE</b>

Perpendicularity <1°



Options	
<b>Option 1</b>	Special Clamping kit for polyimide fibers
<b>Option 2</b>	Fiber end face angle checking tool

**Warning:** stripping tools are not included in the kit, they are to be ordered separately.

