

CUTTING

Femtosecond technology enables through **cutting** of different materials (thickness ≤ 1 mm) at high speed (**1 m/s** in a straight line and ≥ 0.2 m/s for more complex geometries). It is crucial for cutting applications in **glass, metals, and plastics**.

Did you know ?

Laser cutting can be applied to all materials (from the hardest to the most fragile) with control of **thermal** effects and **clean, burr-free cutting edges**.



Bipolar plate

Certess Elec HEF PVD coating

Modifications of electrical properties

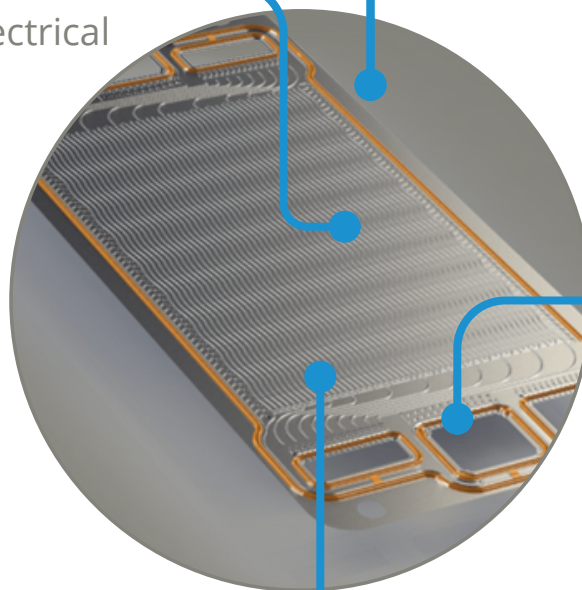
Bipolar plate

graphite
titanium
stainless steel
nickel

Benefits

Athermal
Fine cutting

Cutting can be used to work with biological tissues, polymers, thin metals and certain types of glass.



Microchannel etching

Business sectors :

Energy



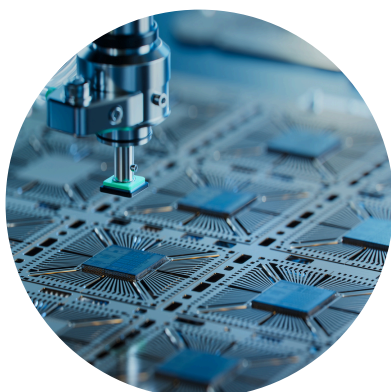
Aerospace



Optics



Electronics



Medical



Mechanics



Our other applications :

- Selective ablation of thin films
- Surface texturing
- Etching

