

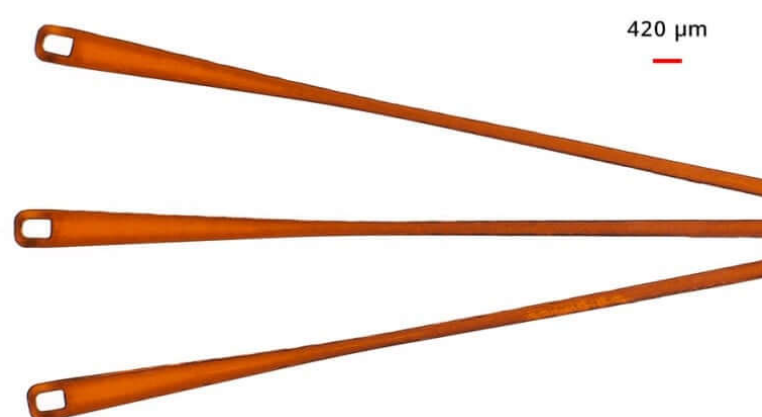


(<https://laserlight.com/>)

Polymers

Laser Light Technologies is an industry leader in processing polymer-based applications. With over 75 years of collective experience and world-class laser systems, we have the technology and experienced team to partner with you to reach your goals.

If your polymer application demands high precision and high throughput, then laser machining is the ideal solution. Our laser systems can perform both acrylic laser cutting and thin film polymer machining with micron-sized features, some companies even use laser cutting stainless steel (<https://gflaser.co.uk/service/stainless-steel-laser-cutting/>) with their own systems to create and shape their metals. With a vast array of laser systems and post-processing cleaning, we have the ability to process virtually any polymer to meet your most stringent specifications.



Laser cutting in Polyimide • 2nd Harmonics DPSS system

Our systems can create complex geometries, trenches, wells, arrays, or custom shaped holes allowing for an endless number of possible applications in all industries. We

commonly process clear polymers such as acrylic glass, for applications in the automotive, electronic, and outdoor equipment markets. Acrylic laser cutting is a well-established process that produces immaculate edges with virtually no burning or burrs. In an application that requires the material needs to be optically clear and mechanically robust, we often recommend laser cutting acrylic in comparison to other transparent polymers such as polycarbonate. Laser processing of polymers is also well suited for thin film formats, commonly used in the electronics industries, which are hard to process by conventional stamping techniques.

Typical biomedical applications include laser cutting polymer tubing for use in devices such as implantable catheters and biopsy lumens. Because our laser systems encompass the entire visible light spectrum, from UV to Infrared, we can fine tune our process to match the specific material properties of your application.

With our extensive experience in acrylic laser cutting and processing thin film polymer coatings, Laser Light Technologies, Inc. is your trusted partner for finding solutions to challenging problems. Whether you need one or one million holes drilled in your polymer material, our expert staff will develop a process for your application to meet both your technical specifications and business requirements.



Laser cutting in PTFE (Teflon) • Picosecond DPSS system

We have the expertise to micromachine the following:

- ABS (Lexan, Cyclooy)
- Acrylic (PMMA, PERSPLEX)
- COC/COP (TOPAS, Zeonex)
- Acetal (Derlin, POM)
- Fluoropolymers (Kalrez, Hylar, Kynar,

Teflon)

- Parylene
- PEBA (Pebax, Vestamid)
- PEEK (Vicatex)
- PEI (Ultem)
- PEN (Teijin)
- Polyethersulfone PES
- PET
- Polyamides (Zytel)
- Polycarbonate
- Polyester (Arnitel, Hytrel, Valox, Mylar)
- Polyethylene
- Polyimide (Kapton, Upilex, Cirlex)
- Polypropylene (Propylux, Noryl)
- Polyurethanes (Pellethane)
- Silicone

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