

Laser Cutting & Engraving

Fully enclosed 60W CO₂ Laser

Introduction

Laser cutters and engravers are valuable tools in modern manufacturing and fabrication.

They are often used to support research projects by quickly and accurately producing custom fixtures, mounts and sample holders for specific purposes and use cases.

Applications

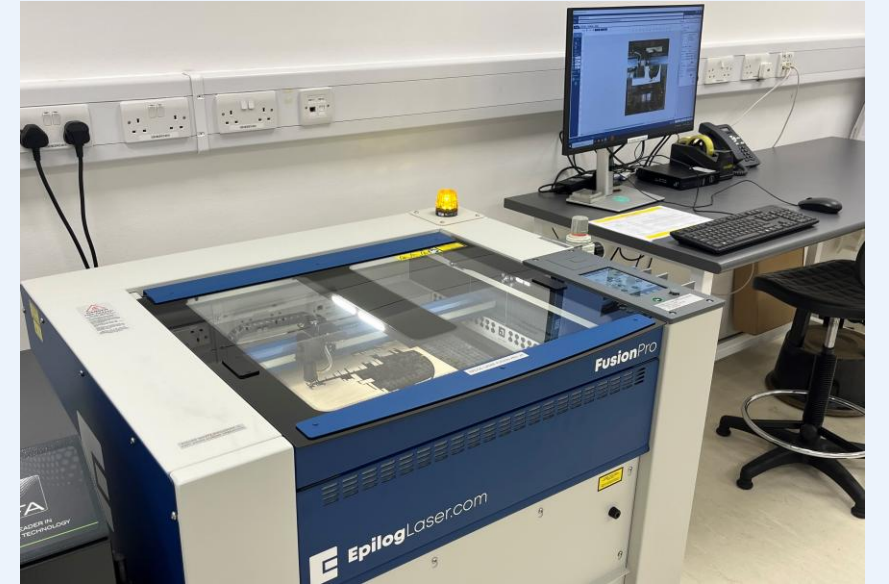
- High-precision cutting of various materials, including card, wood, acrylics.
- Engraving and Marking: Engraving intricate designs, toolpaths, and text on materials.
- Prototyping: Rapid prototyping of parts and fixturing.
- Customisation/Identification: Laser mark QR codes or ID tags.

How Does it Work?

Laser cutters and engravers function by directing a high-powered laser beam onto the material's surface. The intense heat from the laser vaporizes or ablates the material, resulting in precise cutting or engraving. The system's precision is achieved through computer-controlled movements.

Technical Specifications

- 60W CO₂ laser source
- 600×600 mm processing size
- Co-axial assist gas (air)
- Fume extractor
- 1200 DPI greyscale engraving
- Cut up to 12mm wood/acrylic
- Rotary fixture for cutting/engraving cylindrical parts



EpilogPro Laser Cutter and Engraver

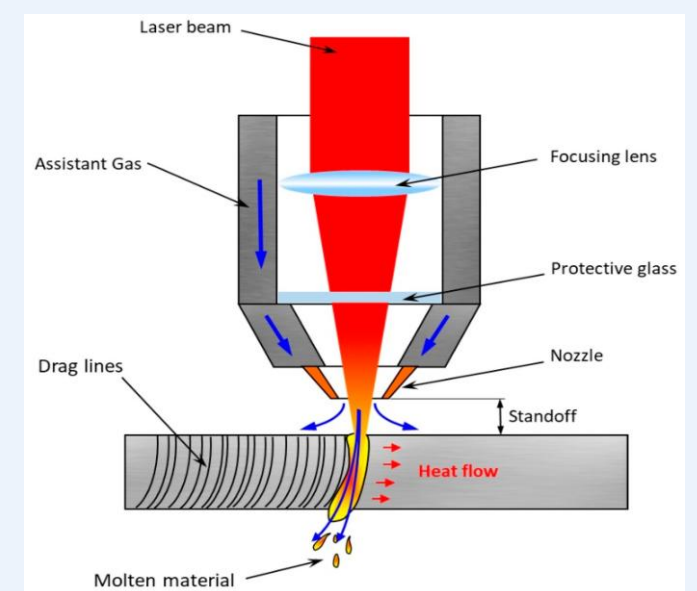
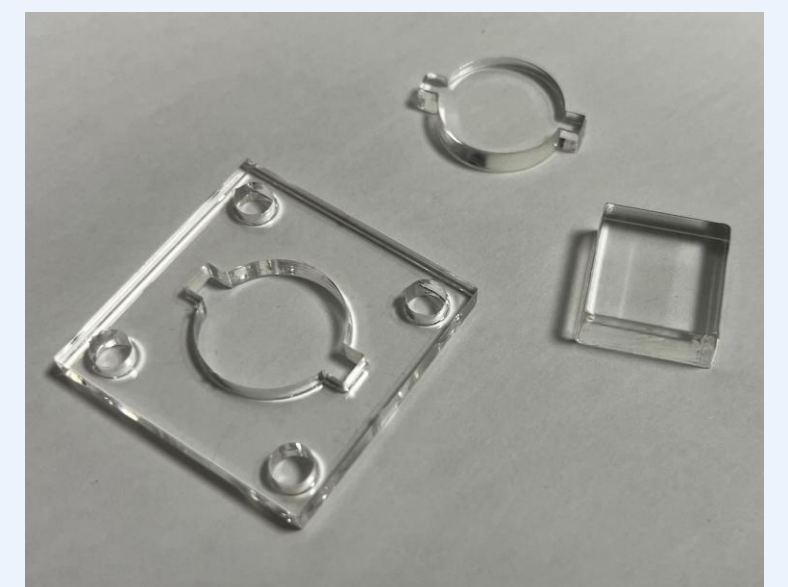


Diagram of Laser Cutting Process



Engraving Graphics onto Wood Surface



Laser Cut PMMA Components