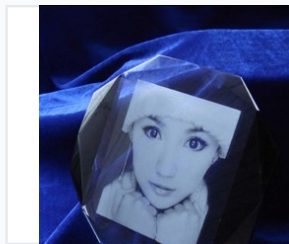


# 3D Laser Subsurface Engraving Machine for Crystal and Glass

This 3D laser subsurface engraving machine is designed for creating intricate designs within crystal and glass. It utilizes advanced laser technology to produce high-resolution, three-dimensional engravings without affecting the surface of the material.



## ADDITIONAL IMAGES



## Product Overview

### Advanced 3D Subsurface Engraving

This laser processing equipment integrates advanced optics, precision mechanics, and computer-controlled systems to engrave intricate 3D patterns inside transparent crystal and glass. Utilizing a non-touch laser process, it ensures the material surface remains perfectly intact while creating high-resolution, crystal-clear imagery. Designed for high reliability and continuous operation, this machine is ideal for producing personalized gifts, decorative items, and high-precision glass art.

## Performance Metrics

### Engraving Speed

**6000 dots/min**  
Max Speed

**4000 dots/min**  
Min Speed

### Laser Specifications

Parameter	Value
Laser Medium	Xe lamp pumped
Laser Power	3 W
Pulse Width	12 ns
Beam Quality (M2)	< 15

## Operational Capabilities

### Precision & Accuracy

- Positioning Accuracy: 0.005 mm
- Focus Diameter: 0.06 mm

Effective Engraving Area	250 x 250 x 80 mm
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Supported Graphic Formats	DXF, BMP
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## System Requirements

Working Power	AC380V±10%/50-60Hz or AC220V±10%/50-60Hz
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Operating Temperature	35 °C
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## Physical Dimensions

Outline Dimensions	900 x 770 x 1400 mm
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Weight	330 kg
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