

OptoTech

idi™  
*Creativity Through Laser*

# excimer LASER

PROCESSING STATION  
FOR **BIOCOMPATIBLE MATERIALS**

## Functionality

- Ablation
- Surface processing
- Cutting
- Drilling

## Materials

- Silicone
- Biocompatible composites

## Capabilities and Performance

- Fully automated operation
- Software for pattern recognition
- Five axis motion control system
- 2D/3D visual inspection system
- Helium and/or Nitrogen flushing and purging
- Compatible with clean room environments
- Customisable configuration for meeting defined sets of specifications



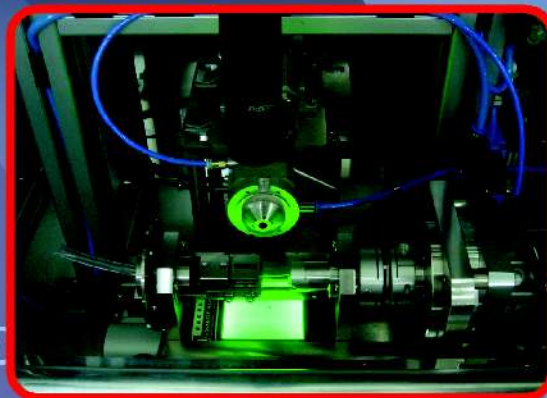
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## Excimer Laser System

- Operating wavelengths – 173nm and 193nm
- Laser performance specifications:
  - energy per pulse – 1mJ to 10mJ
  - pulse length – less than 6ns
  - pulse repetition rate – up to 500Hz
- Compact design with built-in gas cylinder



## Customisable Beam Shaping Optics



## Motion Control System Accuracy

- Accuracy of translation - 7 microns
- Repeatability of translation - 5 microns
- Accuracy of rotation - better than 5"

## 2D/3D Visual Inspection System

- 3D - 360° inspection capability
- Magnification range - 2.65X ~245X
- Field of view - Ø3.5 ~ Ø25

## OptoTech

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