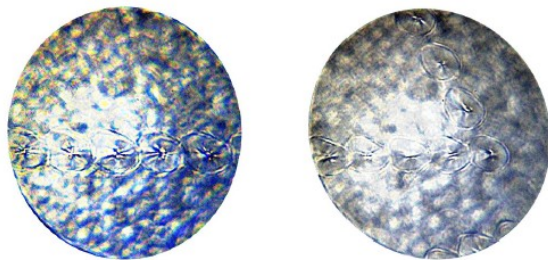
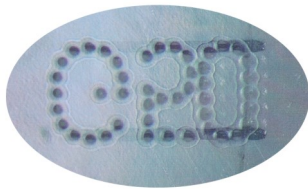


Excimer Laser

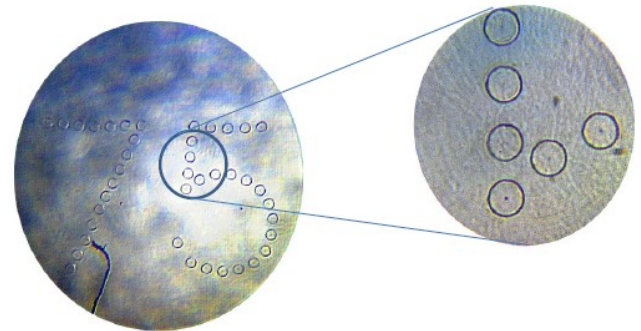
Excimer Lasers have become invaluable in ophthalmic lens marking thanks to their high engraving qualities. The laser system emits ultrashort pulses of light (laser shots) that immediately evaporates the lens material and leaves very precise marking dots which size is even adjustable in diameter. The material removal (cold ablation) doesn't expose the lens to any thermal stress nor causes micro cracks. This ensures a **smooth lens surface** which will have no issues with coating or tinting.

CO₂ Laser engraving for visible markings



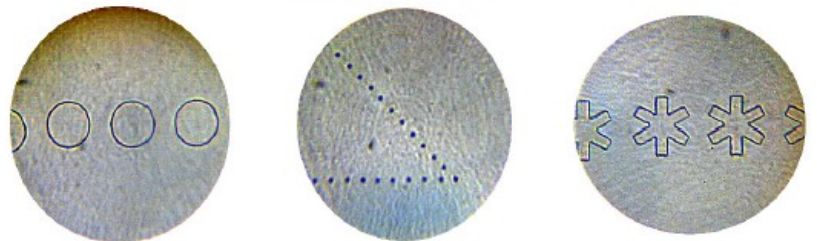
All detail magnified by 50x

Excimer Laser engraving for semi-visible markings & logos



Detail magnified by 50x

Detail magnified by 200x



All detail magnified by 200x

Tips to extend the lifetime of your Laser Source

Schedule maintenance with our service team

Parts of your engraving unit can wear differently. That's why it's important that we arrange an maintenance interval for you according to your production requirements.

Use Hybrid Laser Concept

Engrave visible marking with a CO₂ Laser for an optimal utilization of the laser source.

Regulate Shots per Lens

Keep the shot count per lens and the number of engraved details in a reasonable range.

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Hybrid Laser Concept

To make engravings more visible, the Excimer Laser has to emit several thousand laser shots for just one lens. This intense usage of the laser source adds up very quickly to the wear of the laser system and immensely shortens the lifetime of the Excimer.

That is why OptoTech has designed the first ever **Hybrid Laser**. The **OTL 100 CNC-A** now comes with the option to have both CO₂ and Excimer laser sources together in a single unit. Combining these technologies results in the **most flexible and efficient marking machine** in the world.

The **CO₂** laser engraves all visible details (e.g. job number or frame shape marking) on the lens so that the **Excimer** can be optimally used for semi-visible and logo engravings. This Hybrid combination of lasers is not only efficient but also very **economic** since it allows **lowest consumable** costs and also **prolongs the lifetime of each laser source**.

Flexible

Excimer laser for semi-visible and logo engravings, CO₂ laser for all visible engravings (e.g. job number or frame shape marking)

Fast

Highest throughput rates (average of 220 lenses per hour)

Efficient

Even if one source is empty, the machine has an internal laser backup system available

Economic

Hybrid combination of lasers allows lowest consumable costs



Further information can be found on our website:

<https://www.optotech.de/en/ophthalmic/otl-100-cnca> or by contacting your local sales representative. We look forward to hearing from you!

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