

The logo for Cailabs features the word "cailabs" in a bold, lowercase, sans-serif font. The text is white and is set against a dark background. Behind the text is a large, glowing light effect that transitions from a bright cyan at the top to a deep purple at the bottom, creating a soft, ethereal glow around the letters.

cailabs

SHAPING THE LIGHT

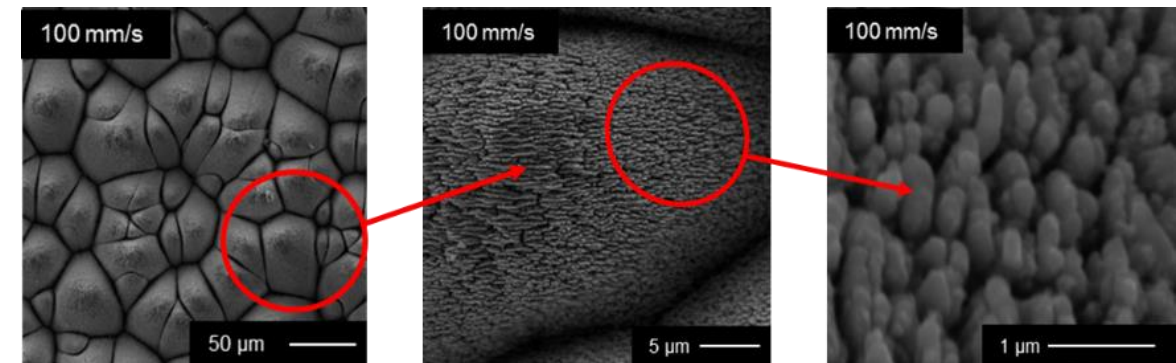
Beam shaping for surface texturing

EPIC online technology meeting on surface texturing

27th April 2020

Gwenn PALLIER – Product Line Manager

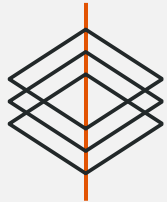
Gwenn@cailabs.com



A few words about Cailabs

We develop, manufacture & sell innovative optical components

cailabs



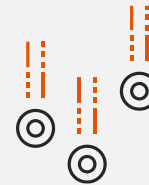
Unique technology (MPLC)
and **expertise** in beam shaping



20 +
patent families



50 + employees
(**18** PhDs)



16.6 M€
raised

Stories:



What do we do for Surface Texturing?

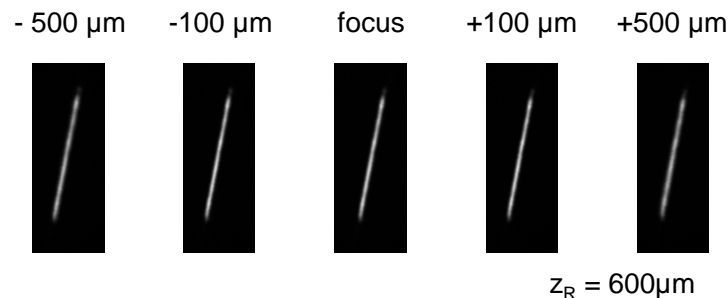
MPLC provides high quality, high yield and robust processes



Cailabs **Canunda** product line for material processing development has focused on **3 main aspects**:

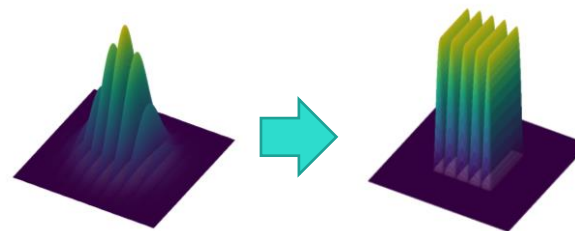
SHAPING QUALITY

- **Free form** shaping
- **Diffraction limited** shaping
- **Depth of field** preservation



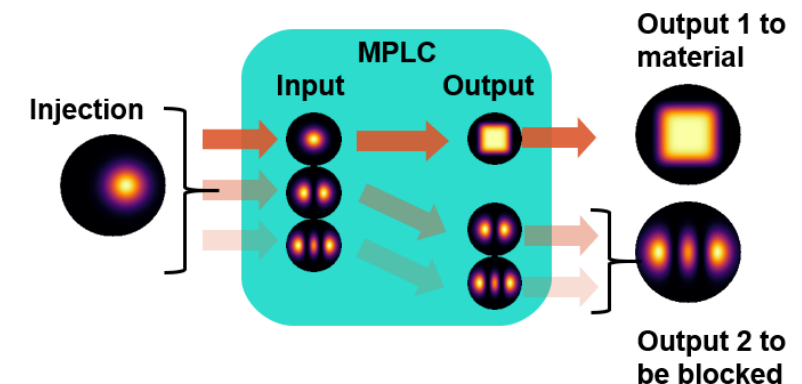
YIELD IMPROVEMENT

- **Optimal** shaping
- Beam **splitting**
- **Pulse duration** preservation



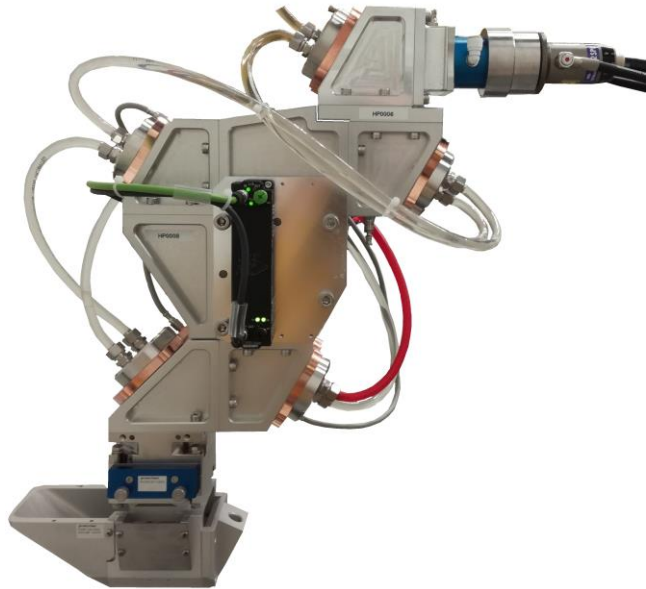
ROBUST PROCESSES

- **Industry set-ups** compatibility
- Reduced **focus shift**
- Mode cleaning for **beam stabilization**



What do we offer for Surface Texturing?

CANUNDA offers high-power and femtosecond beam shapers



Catalog references and custom development available

What are we looking for?

Cailabs looks for new challenges, new partners and news suppliers



We are looking for **challenges to take on:**

- **End users** who need new shapes or new features
- **Main actors** of the field who want to collaborate and innovate within large projects

We are looking for **partners:**

- **Application labs** who wish to look for novel applications
- **System integrators** who need to improve processes quality or yield
- **Laser manufacturers** who wish to improve the laser performance

We are looking for **new suppliers:**

- Manufacturers of **custom wedge or prisms** with IBS coating
- Providers of **wavefront analyzer** for monomode beams



Thank you for your attention!

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