



# FLEXIBLE BEAM SHAPER

FBS - G3



Photonic Tool Change

DIGITAL PHOTONIC  
TOOLING SYSTEM FOR  
LASER MICRO-MACHINING

**PULSAR**  
PHOTONICS

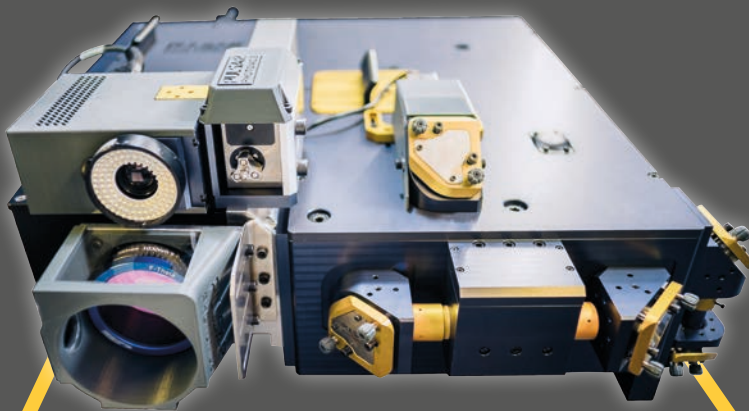
## FLEXIBLE BEAM SHAPER beam shape on demand

With the FlexibleBeamShaper (FBS) Pulsar Photonics GmbH offers a machine integrable beam shaping system for laser micromachining, that can generate freely designed beam distributions.

To achieve this, the FBS is equipped with an electronically controllable optical phase modulator. It allows to utilize the FBS as a photonic tool magazine with predefined beam shapes on demand. In addition, the FBS is equipped with a classic galvanometer scanner, so the generated intensity distribution can be scanned over the workpiece. These combined tools in a single system open up new ways in laser micromachining: faster, more flexible and more efficient.

## TECHNICAL DATA

- Combination of Spatial light modulator and Galvoscaner for individual beam shaping and scanning
- Max. laser power: 100W (IR)
- SLM addressable field size @f=100mm: ~ 4mm x 4mm
- Galvoscaner: Scanlab or comparable
- Wavelength: IR / VIS / UV on request
- Software package for calculation of holograms (CGH) and alignment of system

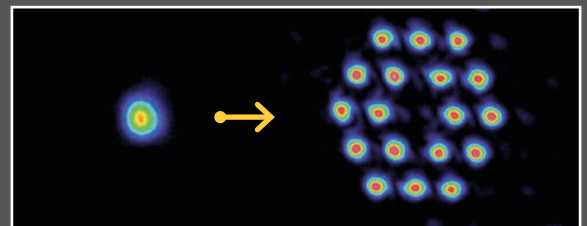


## APPLICATION

### DYNAMIC BEAM SPLITTING



### LASER PROCESSING WITH PHOTONIC TOOLS



Laser machined tool part in steel using different beam shapes in a roughing and finishing approach.

## CONTACT

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