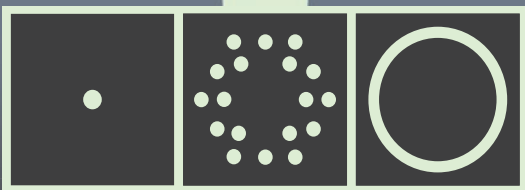




# FLEXIBLE BEAM SHAPER

## FBS - G3



Photonic Tool Change

DYNAMIC  
BEAM  
SHAPING  
ON  
DEMAND

TESTED WITH  
AVERAGE  
LASER  
POWERS  
OF UP TO  
100 W

FULL  
INTEGRATED  
TOOL FOR  
EASY  
MACHINE  
INTEGRATION

## DIGITAL PHOTONIC TOOLING SYSTEM FOR LASER MICROMACHINING

**PULSAR**  
PHOTONICS

## FLEXIBLEBEAMSHAPER

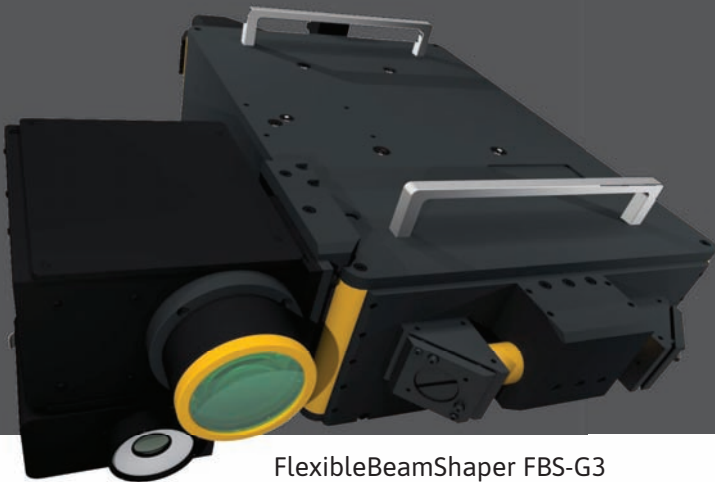
### Beam shape on demand

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
- SLM addressable field size @f=100mm: ~ 4mm x 4mm
- SLM Resolution: 1280x1024
- Wavelength: IR / VIS / UV on request
- Software package for calculation of holograms (CGH) and alignment of system



FlexibleBeamShaper FBS-G3

**PULSAR**  
PHOTONICS

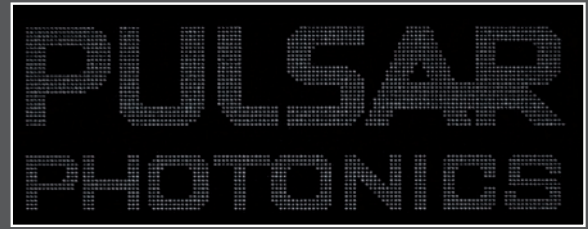
### CONTACT

Pulsar Photonics GmbH  
Kaiserstraße 100  
52134 Herzogenrath  
GERMANY

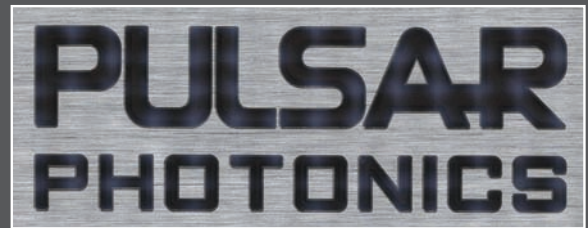
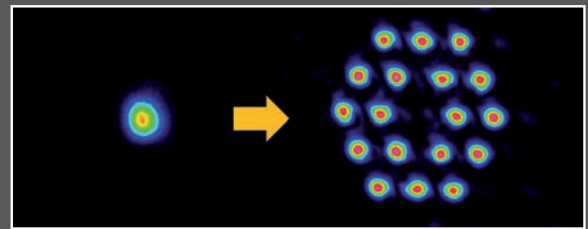
☎ +49 (0) 2407 55 555 – 0  
info@pulsar-photonics.de  
www.pulsar-photonics.de

## APPLICATIONS

### DYNAMIC BEAM SPLITTING



### LASER PROCESSING WITH DIFFERENT TOOLS



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

Distributed by



AYIN Technology Corporation  
#502, Seongshin Technopark  
38, Yeongtong-ro 323beon-gil, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, Republic of Korea, 16676

Tel: 82-70-7805-7790  
E-Mail: kcho@ayincorp.com