FLEXIBLE BEAM SHAPER
FBS - G3

DIGITAL PHOTONIC TOOLING SYSTEM FOR LASER MIRCOMACHINING
FLEXIBLE BEAM SHAPER
cell shape on demand

With the FlexibleBeamShaper (FBS) Pulsar Photonics
GmbH offers a machine integrable beam shaping system
for laser micromachining, that can generate freely
oriented 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
  Galvoscanner for individual beam shaping and scanning
- Max. laser power: 100W (IR)
- SLM addressable field size @f=100mm: ~ 4mm x 4mm
- Galvoscanner: 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

Pulsar Photonics GmbH
Kaiserstraße 100
52134 Herzogenrath
GERMANY

+49 2407 555-55-0

info@pulsar-photonics.de
www.pulsar-photonics.de

distributed by

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

+82-70-7805-7790
kcho@ayincorp.com