

Company Profile

Pulsar Photonics GmbH

Online Tech Meeting - EPIC 1.2021 - Pulsar Photonics GmbH

- Focus on ultrafast laser micromachining
- Founded 2013, 40 employees
- Located in Herzogenrath / Aachen with Distribution in China & Korea
- ISO 9001 Certified



Pulsar Photonics GmbH
Kaiserstraße 100
52134 Herzogenrath
GERMANY

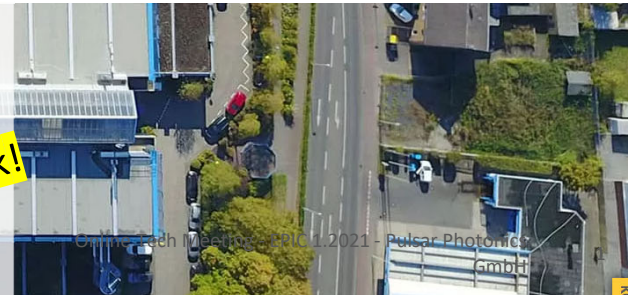
Tel: +49 (0)2407-55555-0

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www.pulsar-photonics.de

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Relaunch this week!



AYIN Technology Corporation
#502, Seongshin Technopark
Gyeonggi-do, Republic of Korea

ACunity Tianjin Co.Ltd
No. 4 Plant, Fenghua Industry Park,
Tianjin, China

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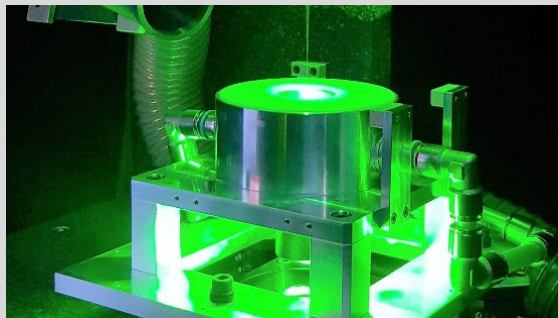


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Business Units

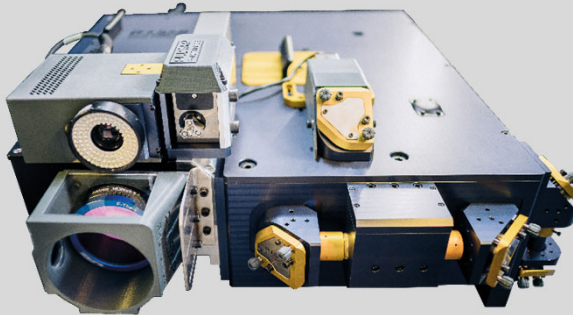
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Laser Processing



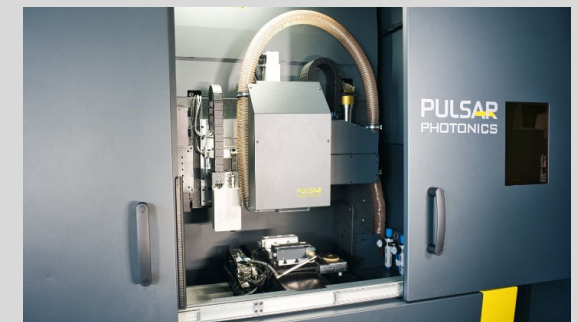
- Application Center
- Process Development
- Contract Manufacturing

Advanced Optical Systems



- Industrial Beam Shaping
- Customized Light Engines
- Integrated metrology

Laser Machines

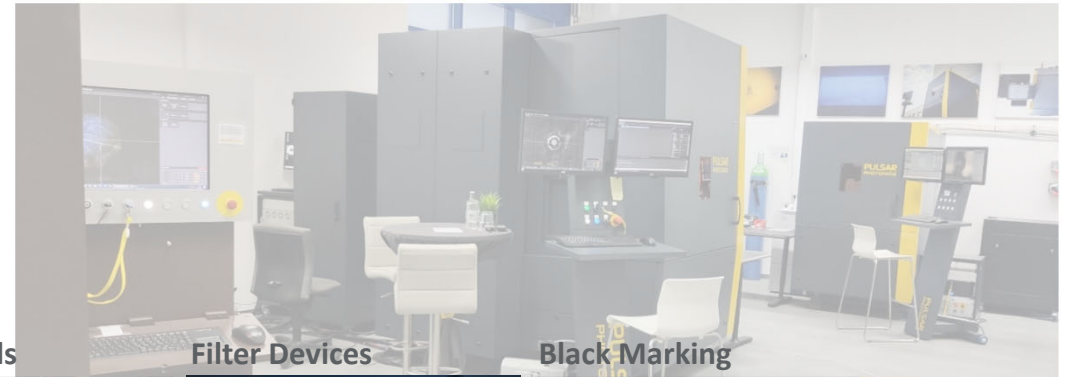


- Machine Design & Automation
- Software Solutions

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Exemplary fields of application

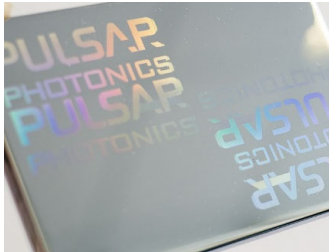
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Tooling



Security



Brittle materials



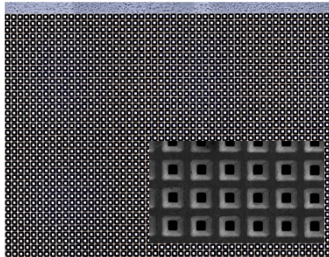
Filter Devices



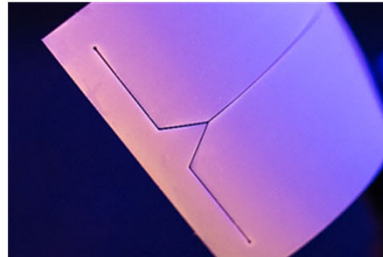
Black-Marking



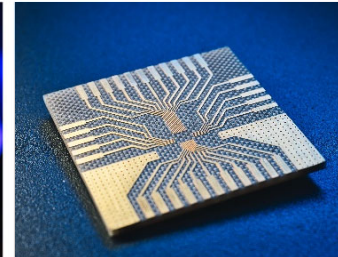
Friction Reduction



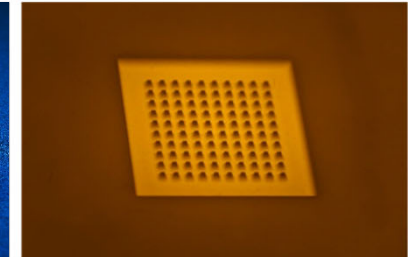
Fine Metal Masks



Thin Film



Electronics



Ceramics

Scaling throughput and work piece dimensions

High Power Ultrafast Laser Technologies

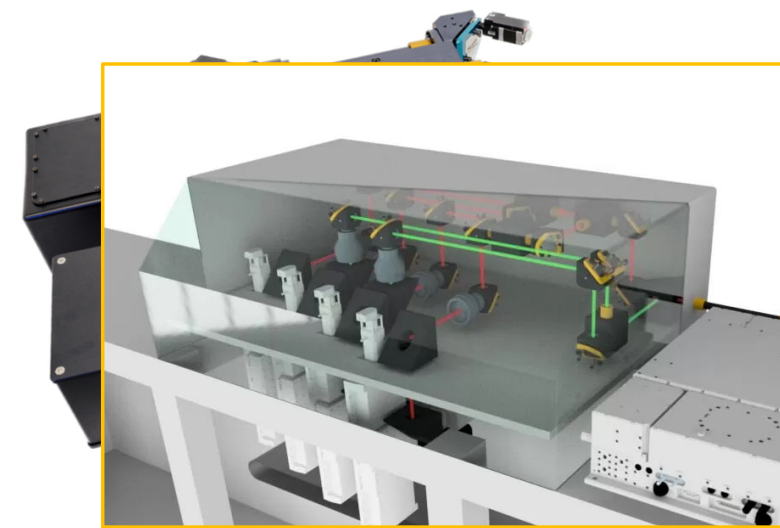
1 Beam Shaping is key technology to solve the conflict of achieving high quality at high productivity, e.g. parallel processing, digital & enlarged tools

2 Macro Applications R2R applications, parallel processing, light engines for digital & enlarged laser tools, high aspect ratios, high speed motion asking for higher pulse energies and / or higher pulse repetition rates

Already today high power ultrafast laser applications require appropriate **3 Safety Technologies** against X-ray, nano-particle emissions, optical thresholds and cleanliness.

4 the Fiber-guided beam delivery will enable long travel / large area applications and robust robotic operations also for ultrafast laser applications

Site effects: price dropping and technology maturity of the conventional mid-power regime enlarge the market share, due to (int.) competition of laser source suppliers.



dynamic beam shaping for multi-KW laser based on deformable mirrors

Multi-beam helical drilling for parallel cutting

Parallelization of 4 Galvo-heads for processing large can fields

Beam splitting with dynamic correction for processing large can fields

