#### Industrial Ultrafast Lasers

# **PicoBlade**<sup>™</sup>

### **Picosecond Micromachining Laser**

precision and flexibility for optimized processes full-featured, machine-ready system

#### **Features**

- Industrial rugged unibody design
- Simplified system integration
- Horizontal or vertical mounting
- Fully detachable umbilical
- Cost-effective, on-site maintenance
- High productivity: Widest range of repetition rates Fast A/D modulation capabilities FlexBurst<sup>™</sup> technology

#### Options

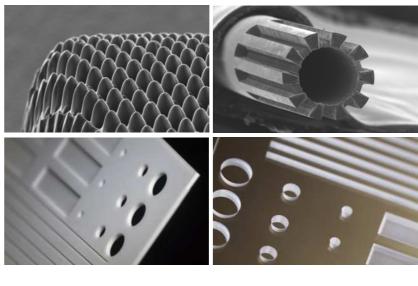
- Green 532 nm, UV 355 nm, auto-switching or fixed
- Lower power, lower cost configurations
- High pulse energy
- Super-sync for high speed linescanners
- Safety shutter
- Customized umbilical length

#### **Applications**

- High speed precision micromachining
- Glass cutting, welding, scribing
- Hard material processing diamond, sapphire, carbide, CVD
- Semiconductor processing
- Drilling
- Selective thin film ablation
- And much more please inquire



up to 50 W single shot to 8 MHz up to 200 µJ 10 ps 20 MW 1064 nm < 1.3 output power repetition rate pulse energy pulse width peak power wavelength M<sup>2</sup> (TEM<sub>00</sub>)







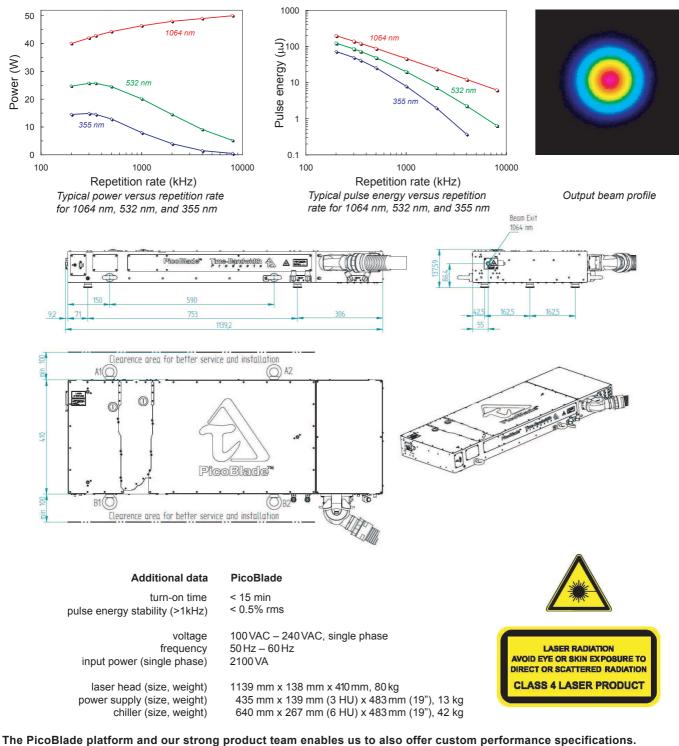
Made in Switzerland

## PicoBlade<sup>™</sup>

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Designed for maximum process speed, the PicoBlade provides a versatile tool to process virtually any material with highest precision and reliability. Most other picosecond lasers have fixed pulse energies that are too high for most applications and are only adjustable by reducing the average power. This results in poor production throughput, even for high power laser systems.

In contrast, the PicoBlade allows adjusting the pulse energy to the value required by *your* specific application, at full average power and therefore maximum process speed. Don't let the laser limit your process - use the most flexible picosecond laser available today!



Please discuss your application requirements and we will work with you to provide an optimized solution.

All specifications are subject to change without notice. All numbers given in this datasheet are typical values and may depend on the specific laser configuration. This product is protected by one or several of the following patents: US7,386,019, US6,466,604, EP1,905,140

Application pictures courtesy of Lightmotif (www.lightmotif.nl)

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