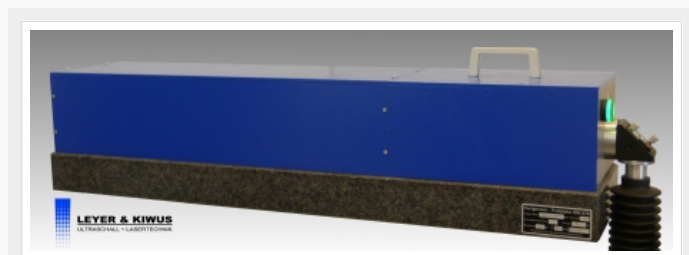




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Laser module

Laser head



— Laser head 12 Watt 1064nm

- Nd:Yag solid-state laser with fiber coupled pump diode
- Optimized for ablation of natural diamonds and polycrystalline diamonds
- Temperature-stable granite construction with adjustable mirror mounts and optional beam expansion
- Dust-proof due to filtered overflow air

Specifications

- Laser power 12 Watt cw, 1064 nm
- Pump diode: 45 Watt cw, 808 nm, normal lifespan: 20.000 hours
- End pumped resonator with bonded laser rod (3 mm x 65 mm); IP-coated for a long life
- Q-Switch frequency: 0 to 10-kHz
- Puls length: 50 ns (1-kHz, short resonator) alternatively: 100 ns (1-kHz, folded Resonator)
- Pulse energy: 2 mJ (1-kHz)
- Beam expansion optional 5 times with 4 lense monochromates for laser beam focus < 10 µm

Dimensions: (LxWxH) 900x200x220 mm weight: 40 kg

Laser supply



— Laser source

- 3 parts can be installed in a 19" cabinet
- Top case: SPC – Siemens
- Middle case: diode driver 0 – 50 A; Q-switch driver 27-MHz water-cooled, pulse rate 0 – 50-kHz, 70 Watt; working hour meter
- Lower case: 5 l collant tank, temperature control, heat exchanger against water, optional against air (external wter cooling necessary)
- Power supply: 220 – 240 VAC 50 – 60 Hz
- Power draw: 1.2 kW

Dimensions: (WxHxD) 490x580x600 mm weight: 55 kg Made in Germany

If we have aroused your interest or if you have any questions, please call us or use the [contact form](#).