



## LuK12wDiamond Laser Source



### Laser Head

Nd:Yag-Solid-State with fibre-coupled Pump-Diode.

Fully mounted on temperature stable Granite Base with adjustable mirror holders and optional beam expander. Fully dustprotected by cleaned air-flow inside.

Laser Power: 12 watt cw, 1064 nm

Pump Diode : 45 watt cw, 808 nm,

End-pump bonded Laser Rod 3 x 65 mm, with ion-plated coating for extra long life time

Diode Life Time: 20.000 hour

Q-Switch Frequency: 0-10 kHz

Pulse length ( 1 kHz ): 50 ns / 1 mirror resonator; ( 100 ns / 3 mirror resonator - optional )

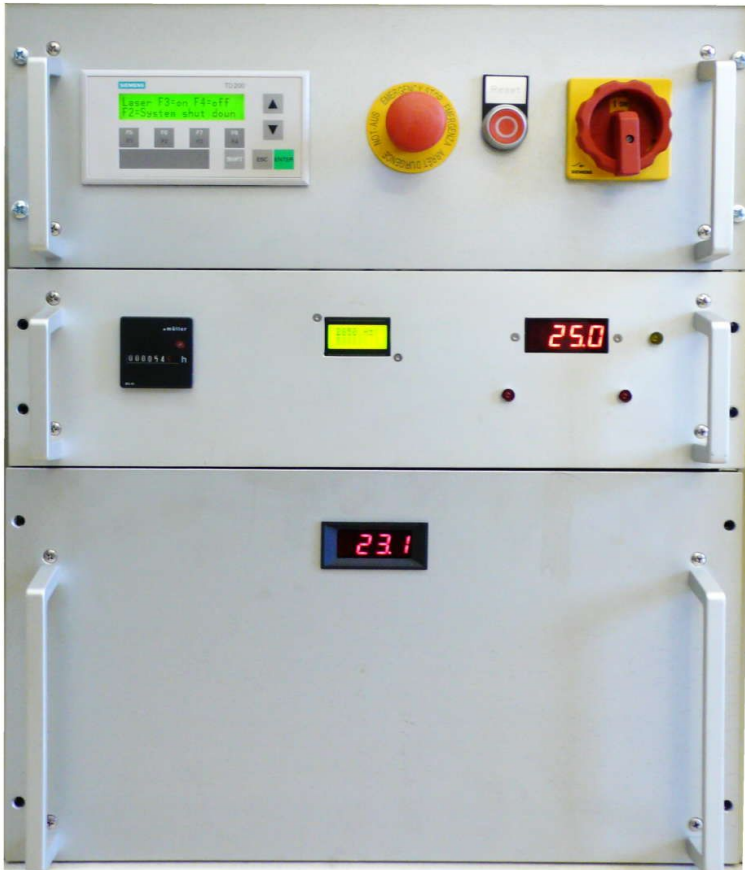
Pulse Energy: 2 mJ (1 kHz)

Beam Expander ( optional ): 5x with Monochromatic 4 Lens Systems for beam spot diameter < 10  $\mu$ m

Dimensions: 900 x 200 x 220 mm ( L x W x H )

Weight: 40 kg

Fully Made in Germany



## Laser Power Unit

3 pcs. 19-inch racks as follows:

top rack: CPC-Controller,

medium rack:

Diode Driver 0-50 A, Q-Switch Driver 27 Mhz water cooled, 0-50 kHz, 70 watts,  
diode hour counter

bottom rack: 5 Liter Cooling Liquide Tank, temparture controller,  
Heat Exchanger against water ( external cooling water required )

Voltage: 220-240 V AC 50-60 Hz

Power Consumption: 1.2 kW

Dimensions: 490 x 580 x 600 mm ( W x H x D )

Weight: 55 kg