

deng-30

OEM Laser engraver for metal and plastics



deng-30 - a high performance OEM laser engraving building block based on the innovative fiber laser technology.

The concept of the **deng-30** is to provide maximum flexibility in system design. A single mechanical platform supports laser power from 10W to 50W with tailored beam geometry set according to the requirements of the application.

Dependent on system configuration, the field size of the marking area covers a range from 3cm² to 256cm².

One of main parameters, regarding marking quality, is the focus diameter. The focus is built by optical components designed for the application. Adaption of the system to new requirements is accomplished by trained personnel within a short period of time.

The nanoRay software includes the laser control module as well as the capability for layout generation, optimization of laser parameters and the integration of the **deng-30** into a production process. The programming interface of the software enables minimum effort system integration into complex production processes. For small applications, the laser control module is able to operate in "stand alone" mode, without any external PC support.

class 4 laser system

data sheet

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reliable • flexible • economical

System Components:

- Fiber laser based beam generator
- X/Y scan head configurable for
- field sizes from 60mm x 60mm to 160mm x 160mm
- Beam aperture from 4 - 6 mm

Technical data

Mechanical ratings:

- Laser Generator:
Dimensions (WxHxD): 483 mm x 177mm x 470 mm
Weight: 20 kg

Scanhead:

- Dimensions (WxHxD): 520 mm x 200 mm x 140 mm
Weight: 8.5 kg

Electrical ratings:

- Voltage supply: 100V - 240V AC
- Power draw: < 300 W
- Interfaces: USB 2.0

Operating conditions:

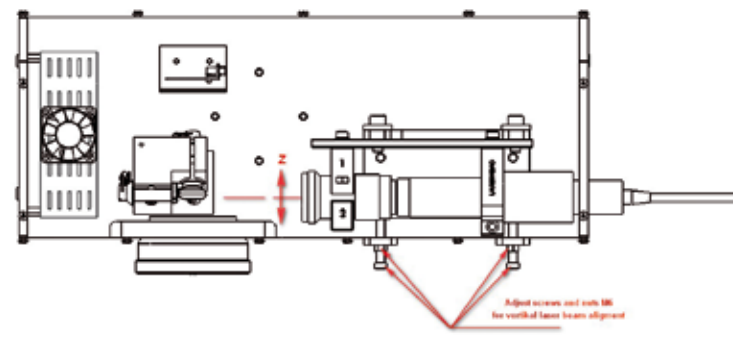
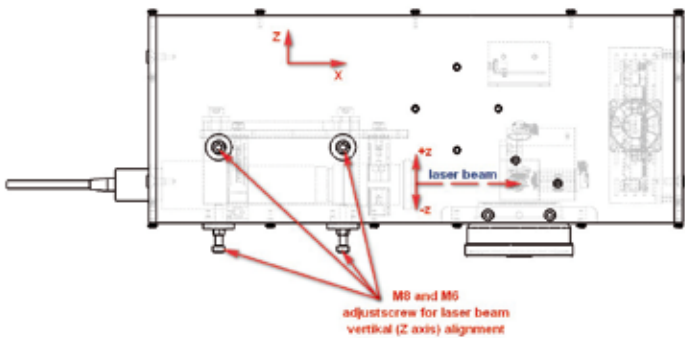
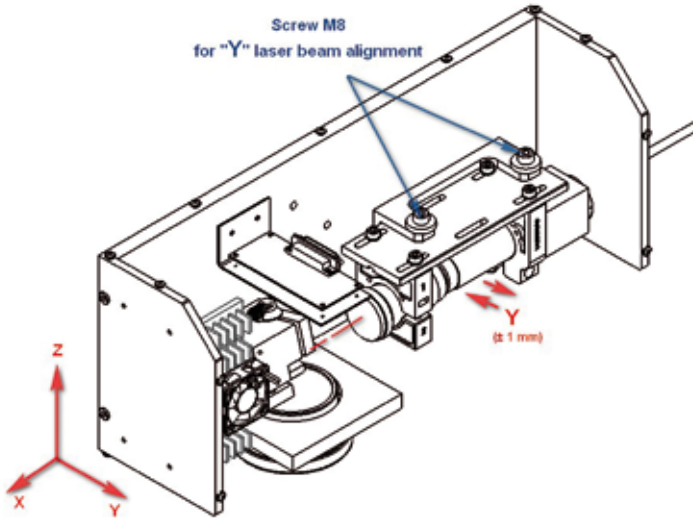
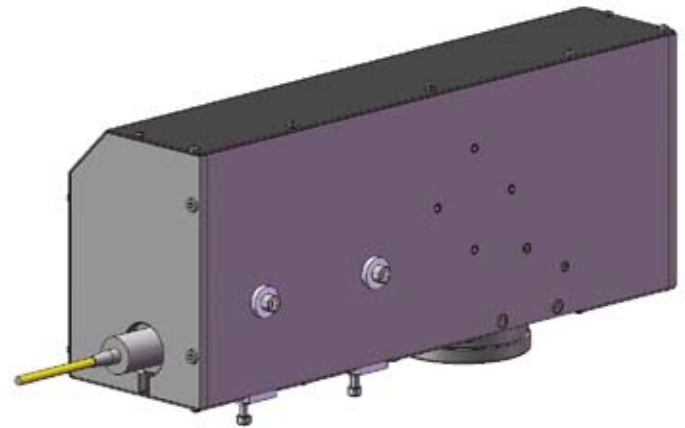
- Ambient temperature: 15°C - 35°C
- Humidity: 35% - 75% relative humidity, non-condensing
- Height: < 2.500 m

Laser module:

- Laser output: 10 - 50W Fiber laser
- Wave length: 1055 nm - 1075 nm.
- Laser Class: 4

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Designed in Germany by Nanosec GmbH.
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