

DAUSINGER+  
GIESEN GMBH

## VaryDisk ENERGY

ENERGY

The VaryDisk ENERGY is a fully functional laser system with chirped pulse amplification (CPA) for laboratory investigations and/or industrial use. The output specifications of the VaryDisk ENERGY can be adjusted according to our customers needs. Depending on the individual choice of parameters, the VaryDisk ENERGY qualifies as industrial / scientific or prototype laser system.

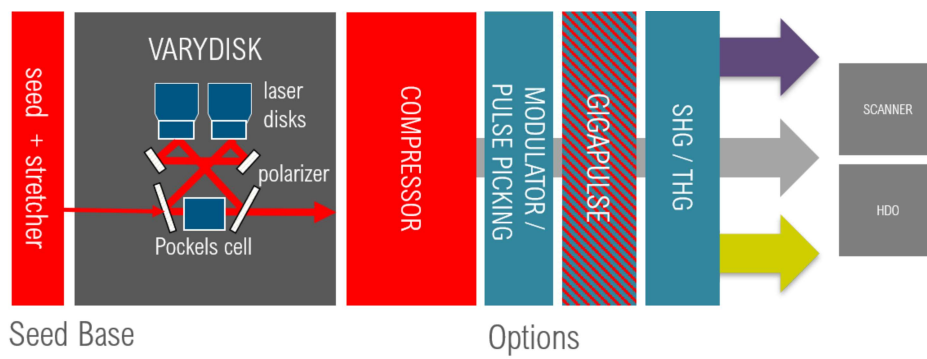


VaryDisk (2018 version)

## FEATURES

- output power: up to 10 W and 150 W with power upgrade
- pulse energy: up to 10 mJ or 150 mJ with energy upgrade
- minimum pulse duration: 2 ps ... 3 ps
- repetition rate: 1 kHz ... 20 kHz
- wavelength: 1030 nm
- beam quality: < 1.3

## SCHEMATIC DESIGN



Schematic setup of the VaryDisk energy laser system

## OPTIONS

We offer different options along with the base versions of the VaryDisk ENERGY in order to increase the output power and/or to allow additional operating modes along with the realization of different pulse characteristics, e.g. different choices of pulse durations, wavelengths, or even the simultaneous generation of pulses with different pulse characteristics in one operation mode. Some of the available options are listed below. Please consult our team for possible combination choices and further information.

## APPLICATIONS

Application examples, showing the capabilities of the VaryDisk laser system, were demonstrated in our application lab. Please consult D+G for further information.

[D+G Brochure for VaryDisk ENERGY laser system](#)

### [Gigapulse Addon](#)

For a further increase of pulse energy and/or output power towards the kW regime, we offer a [Gigapulse linear amplifier](#). Additional information can be found on the corresponding product page. For further information, please consult our team.

### [Femto+ Option](#)

By use of different gain materials, the amplification bandwidth of our VaryDisk system can be increased. This way, even shorter pulse durations are available for the VaryDisk femto, pico, and/or energy.

### [Twin Option](#)

Different base systems of the VaryDisk can be combined in order to increase the flexibility and cost effectiveness of this laser system. One possible combination is the use of the femto and pico system simultaneously by adding another ps-seed to the femto version.

