

# CEPHEUS 1050



## Data sheet

The CEPHEUS is a versatile tool for industrial, scientific and medical **applications**.

It is ideal for precision micromachining or processing of any kind of material:

- cutting, drilling, scribing
- surface structuring
- marking
- corrosion-free marking
- engraving
- material modification

The CEPHEUS is a picosecond laser source with **extraordinary qualities** and features:

- water-cooled
- compact
- reliable
- ease of integration
- low cost of ownership
- burst mode
- high pulse energy
- pulse-on-demand



laser type	modelocked, pulse picked Nd: YVO <sub>4</sub>
max. average power (with burst mode)	50W @ 1MHz
pulse energy (single pulse)	300µJ @ 100kHz
pulse duration	< 15ps
frequency range (internal control)	50kHz, . . . , 4MHz
frequency range (external control)	single shot - 1MHz
beam quality	TEM <sub>00</sub> (M <sup>2</sup> < 1,5) *1
cooling	water-cooled
dimensions laser head (L x W x H)	700mm x 362mm x 220mm

- high single pulse energy up to 300µJ ≤ 100 kHz

optional:

- high burst energy up to 600µJ
- frequency range up to 4MHz
- SHG, THG
- safety shutter

All data are typical values.

\*1 typically M<sup>2</sup> < 1.3

Version 1.1

Specifications are subject to change without notice