

## 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:

- air-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	16W @ 500kHz
max. pulse energy (single pulse)	300µJ @ 20kHz
pulse duration	< 15ps
frequency range (internal control)	20kHz, . . . , 500kHz
frequency range (external control)	single shot – 500kHz
beam quality	TEM <sub>00</sub> (M <sup>2</sup> < 1,5) *1
cooling	air-cooled
dimensions laser head (L x W x H)	480mm x 302mm x 200mm

- high single pulse energy  
up to 300µJ ≤ 20 kHz

optional:

- high burst energy  
up to 450µJ
- frequency range  
up to 2000kHz
- SHG, THG
- safety shutter, attenuator

**All data are typical values.**

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