

# FEMTO by fibercryst

## Femtosecond Laser Series

### FEMTO-25

**FEMTO by Fibercryst** is a series of powerful industrial femtosecond pulse width lasers offering output powers up to 25W for high throughput, high quality micromachining. The FEMTO series provides high pulse energies up to 100  $\mu$ J of pulses below 1ps width at repetition rates selectable between 100 kHz and 2 MHz. The FEMTO series is the only ultra-fast lasers available utilizing the revolutionary Taranis Single Crystal Fiber (SCF) amplifier construction which enables higher energy per pulse, more widely variable repetition rates without the need to lower energy, improved beam quality, more effective smaller packaging.

#### FEMTO SNAP SHOT

- Pulse width less than 1 ps
- Tunable repetition rate from 100 kHz to 2 MHz
- Excellent beam quality  $M^2 < 1.3$
- Peak power up to 100 MW
- Small footprint
- Fast warm up

#### APPLICATIONS

- Cutting and drilling of hard material, glass, sapphire, ceramics...
- Cold machining of polymers and composites
- Micromachining and structuring of surfaces



[www.fibercryst.com](http://www.fibercryst.com)

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### SPECIFICATIONS

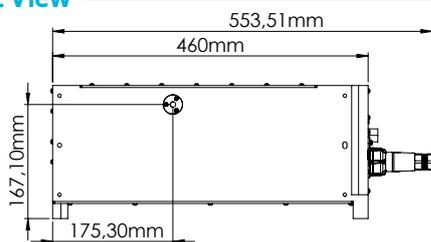
Wavelength	1030 nm
Average Power	25 W
Pulse Repetition Rate	100 kHz to 2 MHz
Spatial Mode TEM <sub>00</sub>	$M^2 < 1.3$
Pulse Duration	<1 ps
Polarization Ratio	>100 : 1
Electric Supply	100 to 230 VAC/50 to 60 Hz
Beam Diameter	2 mm
Warm-Up Time	<10 mn
Max Outer Dimensions	700 x 460 x 195 mm <sup>3</sup>

### TYPICAL DATA

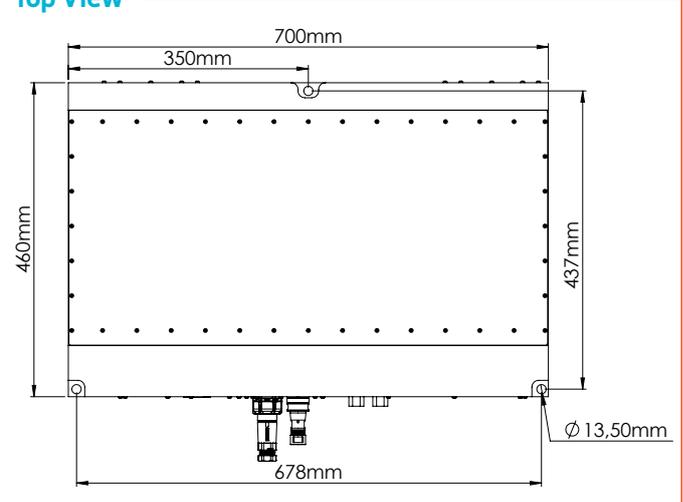
Repetition rate (kHz)	100	2000
Average Power [W]	10	25
Pulse Energy [ $\mu$ J]	100	12.5
Peak Power [MW]	100	12.5

### MECHANICAL DATA

Front View



Top View



Side View

