

Picosecond Laser Series

PICO-12, PICO-35, PICO-60

PICO by Fibercryst is a series of powerful industrial lasers. It emits picosecond pulses (<10 ps) with excellent beam quality, in a compact package. The PICO series uses the well proven Taranis Single Crystal Fiber (SCF) technology for greater design simplicity, ruggedness and adjustable parameters. This laser tool is designed for micromachining. It can be operated at user selected repetition rate ranging from 200 kHz to 2 MHz depending on the process needs. By selecting the repetition rate, the user can favor pulse peak power above 10 MW or average power up to 60W, while keeping high and constant beam quality. The PICO series is available at three average power levels: 12 W, 35 W and 60 W.

PICO SNAP SHOT

- Pulse width less than 10 ps
- Tunable repetition rate from 200 kHz to 2 MHz
- Excellent beam quality $M^2 < 1.3$
- Peak power > 10 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



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PIC 
by fibercryst



SPECIFICATIONS

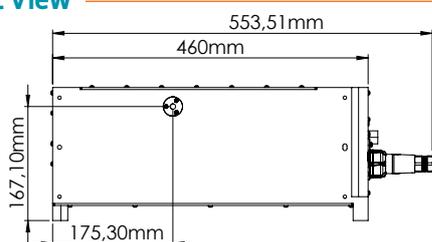
Wavelength	1030 nm
Average Power	Available at 12 W, 35 W and 60 W
Pulse Repetition Rate	200 kHz to 2 MHz
Spatial Mode TEM ₀₀	M ² <1.3
Pulse Duration	<10 ps
Average Power Stability over 8 hours	<2% at 1030 nm and 500 kHz
Polarization Ratio	>100 : 1
Beam Diameter	~2 mm
Warm-Up Time	<10 mn
Max Outer Dimensions	700 x 460 x 195 mm ³
Electric Supply	100 to 230 VAC/50 to 60 Hz

TYPICAL DATA

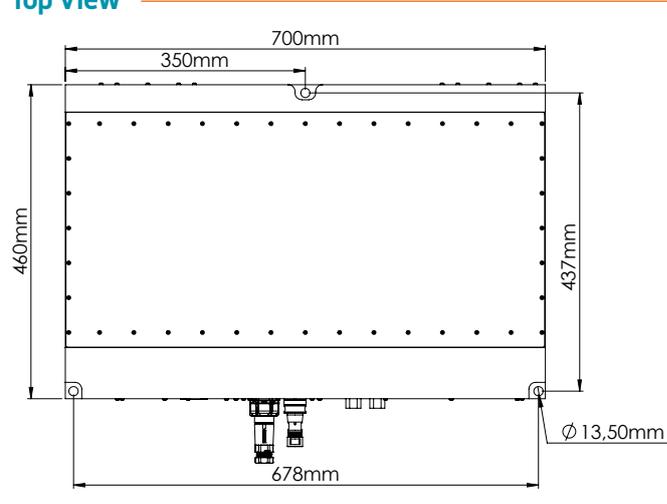
Repetition rate (kHz)	200	400	1000	2000
Average Power [W]	14	22	50	60
Pulse Energy [μJ]	70	55	50	30
Peak Power [MW]	12	9	8.5	5

MECHANICAL DATA

Front View



Top View



Side View

