

Femtosecond Laser Series

FEMT030

FEMTO by Fibercryst is a series of powerful industrial femtosecond lasers offering output powers up to 30 W and pulse energies in excess of 160 μJ, with pulses shorter than 700 fs.

The Femto series is based on Taranis technology which enables high pulse energy and flexible repetition rate to meet requirements for both high throughput applications and high energy demanding applications.

This unique architecture provides excellent reliability and beam quality, all in a compact packaging.

FEMTO SNAP SHOT

- Pulse width less than 700 fs
- Tunable repetition rate from 100 kHz to 1 MHz
- Excellent beam quality M²<1.3
- Peak power up to 200 MW
- Fast warm up (10 minutes max)
- Frequency change on the fly
- Power stability 0.6% RMS (120 hours)
- Accessible frequencies from 1 MHz down to single pulse

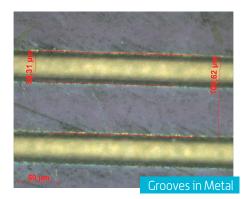
APPLICATIONS

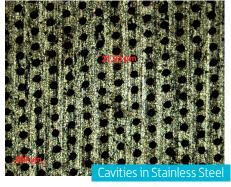
- Cutting and drilling of hard material, glass, sapphire, ceramics...
- Cold machining of polymers and composites
- Micromachining and surface structuring



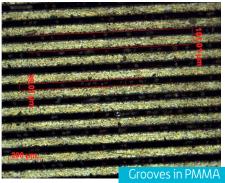
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SPECIFICATIONS*	
Wavelength	1030 nm
Average Power	30 W
Pulse Repetition Rate (adjustable during process)	100 kHz to 1 MHz
Spatial Mode TEM00	$M^2 < 1.3$
Pulse Duration	< 700 fs
Pulse Energy**	> 160 µJ
Polarization Ratio	>100:1
Electric Supply	115 to 230 VAC/50 to 60 Hz
Beam Diameter	2 mm
Warm-Up Time	100% of power in less than 10 mn
Max Outer Dimensions	830 x 460 x 180 mm ³

^{*} Custom specifications available, please contact us

^{**} Adjustable from 0% to 100% at each repetition rate

LASER SPECIFICATIONS AT MIN/MAX REPETITION RATES		
Repetition rate (kHz)	100	1000
Average Power (W)	16	30
Pulse Energy (µJ)	160	30
Peak Power (MW)	220	42

MECHANICAL DATA

