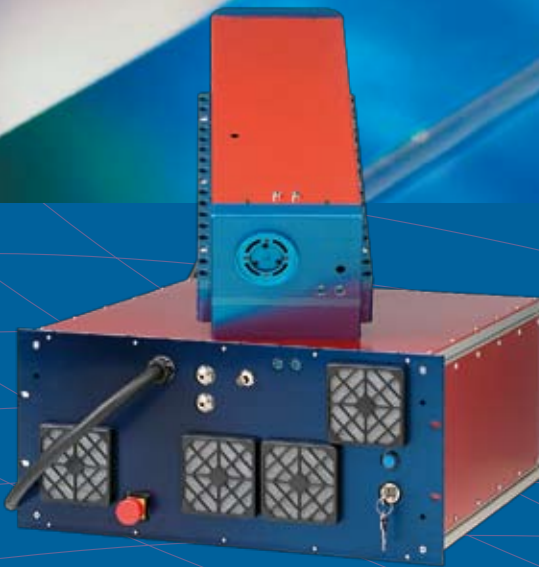


A close-up photograph of a laser micromachining process. A bright red laser beam is focused on a metal surface, creating a bright white and blue plasma plume. The background is a blurred, colorful rainbow-like gradient.

X-LASE Micromachining with macrospeed



Get in touch with the experts. Corelase Oy specializes in laser technology and develops laser systems that are revolutionizing a wide variety of material processing applications.

Our laser systems are designed for industrial use and offer competitive and cost effective solutions for micro and macro machining of materials.

Our product lines include fiber coupled diode laser systems, continuous wave and ultra short pulse modelocked fiber laser systems and components such as diode lasers. Products are designed to be easily configurable for your requirements.

The logo for X-lase, featuring a large, bold, white "X" followed by the word "lase" in a yellow, cursive script font.

X-lase



New pulse energy level, high processing quality combined with macro processing speed makes Corelase's new release X-LASE 24–6 perfect industrial tool for micro material processing applications.

X-LASE is an ultra short (10–30 ps) pulsed fiber laser operating in so-called minimal collateral damage regime. It is optimized for micromachining with 10–30 µm spot size. High average power (24 W) is reached by

adjustable MHz range pulse repetition rate. X-LASE with excellent beam quality, ultra short pulses and high repetition rate is a compact modelocked fiber laser solution for micro-machining with minimal thermal load.

Compact size, fiber delivery and different options for processing head enable easy integration and flexibility to your process.

APPLICATIONS

- Micro grooving
- Microdrilling
- Microcutting
- Micropatterning
- Optical, hard and decorative coatings

BENEFITS

- Cold ablation
- Minimal debris
- Minimal burr/recast layer
- Minimal heat affected zone
- Robust, for industrial use

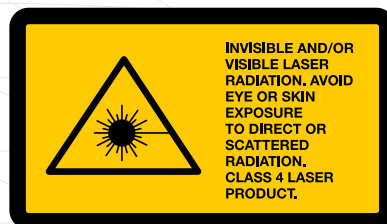
FEATURES

- Scalable output power up to 24 W / 6 µJ (@4 MHz)
- Adjustable repetition rate up to 4 MHz
- Ultra short pulse length, 10–30 ps
- Optical output options:
 - Collimated beam
 - X-HO Processing head
 - X-HS Processing head
- Single mode ($M^2 < 1.5$)
- Compact system
- Tap water cooling
- Fiber delivery
- Computer interface

SPECIFICATIONS

Power (measured from collimated beam)	24 W max
Pulse energy (measured from collimated beam)	6 µJ max
Pulse width	10–30 ps
Repetition rate	1–4 MHz (stepwise adjustable)
Polarization	Random
Center wavelength	1064 nm
Operating voltage	196–240 VAC
Frequency	50/60 Hz
Dimensions (power supply)	19"/5HU/463 mm
Computer interface	RS232, Profibus, CAN, Ethernet

Please contact us to see which configuration would be best for your application and process.



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We reserve the right to introduce improvements to the product without prior notice.