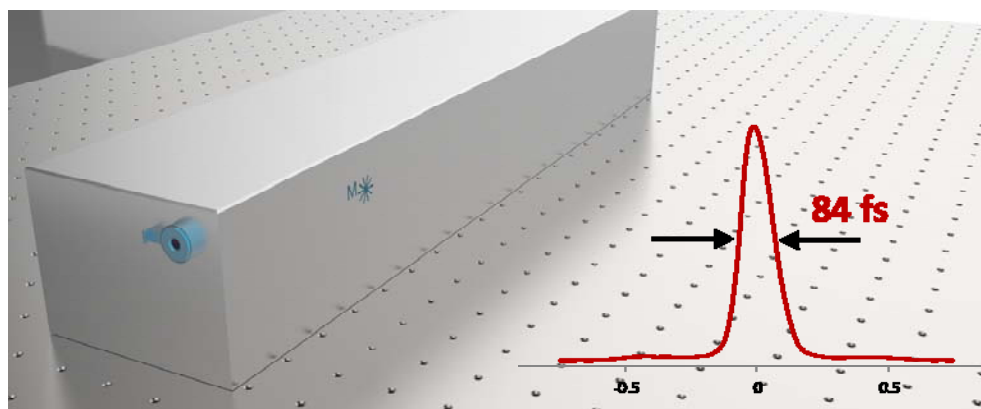




### M-FEMTO-100W Femtosecond Custom Lasers for Your Research

Compact femtosecond laser with up to 100 W, up to 1 μJ, and down to <100 fs.



**Description** MONTFORT Laser has developed a new high power femtosecond laser platform with great compactness, excellent beam quality, average powers up to >100 W, pulse energies up to >1 μJ, and pulse durations as short as <100 fs. The integrated M-FEMTO Ytterbium solid state oscillator generates soliton-like, transform-limited pulses, which are then amplified to the 100W level in a single-stage setup. The high efficiency allows wall plug operation. Temperature stabilization is provided by a closed-loop chiller, also wall-plug operated.

**Applications**

- Optical parametric amplification
- Terahertz generation
- Imaging
- Fine micro machining
- Ultrafast studies
- High energy physics

**Models/Configurations**

- 50W model, <100 fs, 75 MHz: M-FEMTO-50W-100-75
- 75W model, <200 fs, 75 MHz: M-FEMTO-75W-200-75
- 100W model, <100 fs, 150 MHz: M-FEMTO-100W-100-150

Inquire about specifications not listed here.

Specifications	Model	M-FEMTO-50W	M-FEMTO-75W	M-FEMTO-100W
Max. average output power		>50 W	>75 W	>100 W
Wavelength (center)			1035 nm	
Pulse Energy		>0.66 μJ	>1 μJ	>0.66 μJ
Pulse repetition rate		75 MHz	75 MHz	150 MHz
Pulse duration (FWHM)		<100 fs	<200 fs	<100 fs
Beam quality M <sup>2</sup>		<1.2	<1.2	<1.2
Electrical power requirement			wall plug	
Cooling			closed-loop chiller	
Size (l x w x h)*			~1000 x 200 x 150 mm <sup>3</sup>	

\*not including connectors, shutter, screws.

Inquire about customized specifications and dimensions for your integration needs.