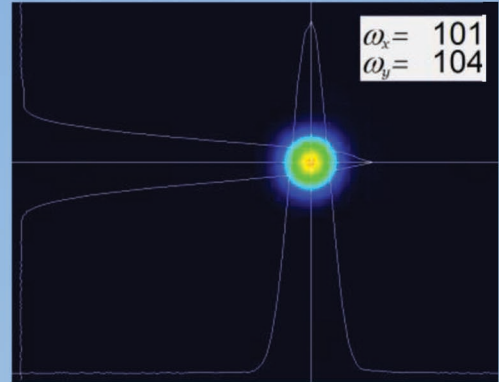
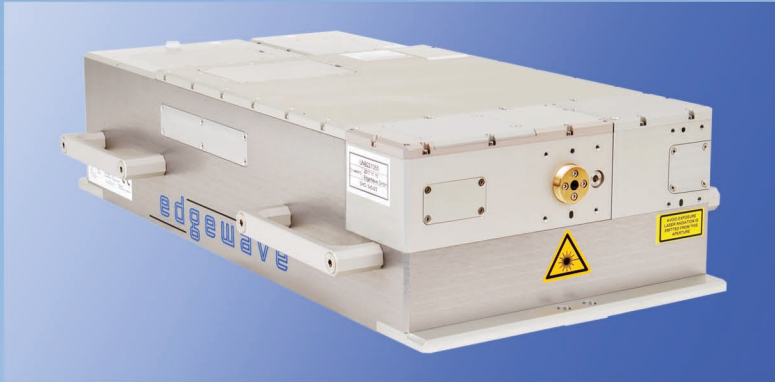


# Ultrashort Pulse InnoSlab Lasers FX-Series

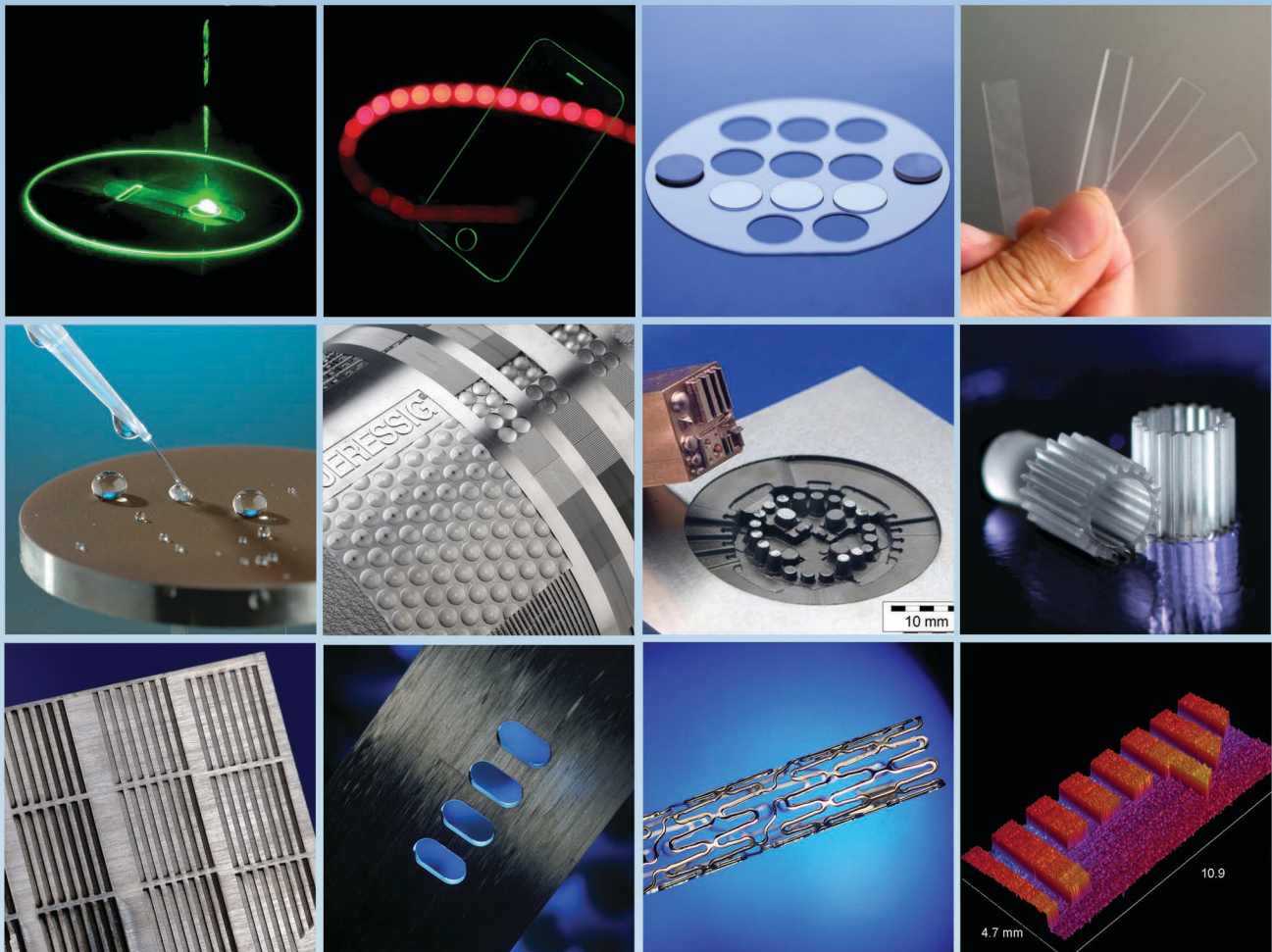


## Unique features

- Ultra-short pulse length
- high pulse energy
- high peak power
- high repetition rate
- compact setup
- tailored beam profile

## Favourable applications

- milling, cutting and drilling of display-glass, sapphire, ceramic, etc.
- ablation and structuring of thin layer
- precision 3D engraving
- milling, drilling and cutting of CFP
- laser induced selective etching
- rapid prototyping



**edgewave**

Innovative Laser Solutions

EdgeWave GmbH, Carlo-Schmid-Straße 19, D-52146 Würselen  
Tel.: +49 2405 4186 0, Fax: +49 2405 4186 33  
email: [info@edge-wave.com](mailto:info@edge-wave.com) [www.edge-wave.com](http://www.edge-wave.com)

# Overview of FX-Series

Model	FXxxx-1	FXxxx-2	FXxxx-3
Wavelength [nm]	1030	515	343
Highest beam quality M <sup>2</sup>	1.1	1.1	1.5
Max. average power [W]	600	250	50
Max. repetition rate [MHz]	50	50	50
Max. pulse energy [μJ]	3000	1200	600
Min. Pulse width [fs]	400	300	300
Energy stability [%] rms	1	2	2
Timing stability [ns]	20	20	20
Polarisation	> 100:1	> 100:1	> 100:1
Beam ellipticity (far field) [%]	< 10	< 10	10
Diameter at window [mm]	3	3	3
Full divergence angle [μrad]	500	250	226
Point stability [μrad]	< 100	< 100	< 100
Warm-up time, from cold start [min]	15	20	30
from standby [min]	8	15	30

## Utility & Ambient Requirements

Power supply	90V – 264V or 180 – 264V, 50/60Hz
Power	0.5kW – 5kW
Chiller	230, 208, 115, 100V, 50/60Hz
Power	0.8kW – 5kW
Operating ambient Temperature	15°C to 35°C
Relative Humidity, non-condensing	10% to 80%

## Dimensions & Weights

Laser head	650mm x 298mm x 150mm
Supply incl. Chiller	19" x 15HU x 700mm
Laser head	50kg
Supply incl. Chiller	62kg – 110kg

EdgeWave follows a policy of continuous product improvement. Specifications are subject to change without notice.

