

# GX-Series

## Short Pulse InnoSlab Lasers

EDGEWAVE

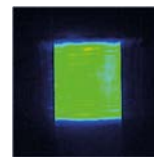
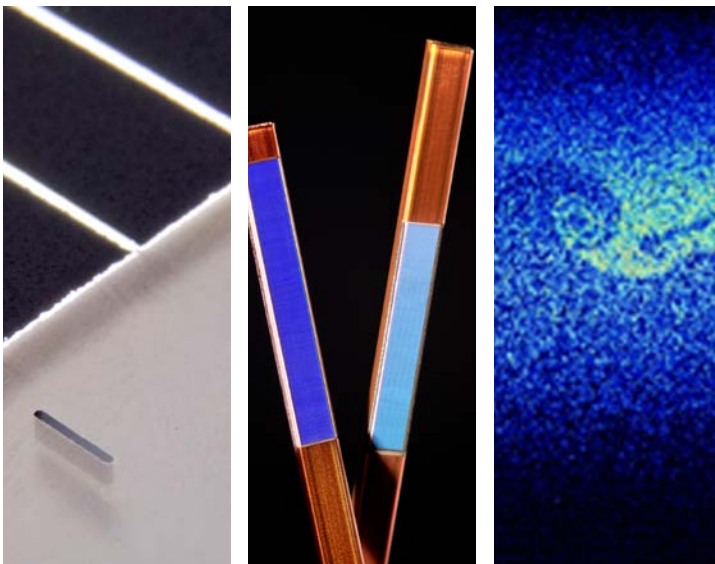


### Favourable Applications

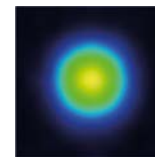
- laser lift-off
- annealing
- ablation, structuring and scribing
- solar cell processing
- glass processing
- pumping of dye laser, OPA, OPO
- PIV and LIF

### Unique Features

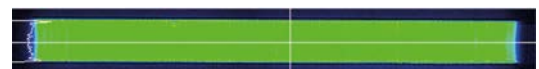
- short pulse
- high pulse energy
- high peak power
- high repetition rate
- compact setup
- flexibility on crystal choice
- tailored beam profile



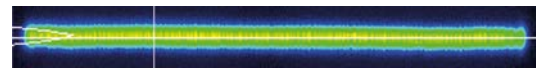
square top-hat



circular gaussian



rectangular top-hat



line shaped top-hat

## Overview of GX-Series

Model	GXxxx-1	GXxxx-2	GXxxx-3	GXxxx-4
Wavelength [nm]	IR	Green	UV	DUV
Highest beam quality M <sup>2</sup>	1.1	1.1	1.5	2
Max. average power [W]	800	400	200	30
Max. repetition rate [kHz]	100	100	100	20
Max. pulse energy [mJ]	120	60	30	5
Min. pulse width [ns]	6	5	5	5
Energy stability [%] rms	< 2	< 4	< 4	< 4
Timing stability [ns]	< 2	< 2	< 2	< 2
Polarisation	> 1:100	> 1:100	> 1:100	> 1:100
Beam ellipticity (far field) [%]	< 10	< 10	< 10	< 10
Diameter at window [mm]	3	3	3	3
Full divergence angle [μrad]	500	250	250	225
Point stability [μrad]	< 50	< 50	< 50	< 50
Warm-up time from cold start [min]	< 15	< 30	< 30	< 30
Warm-up time from standby [min]	< 10	< 15	< 30	< 30

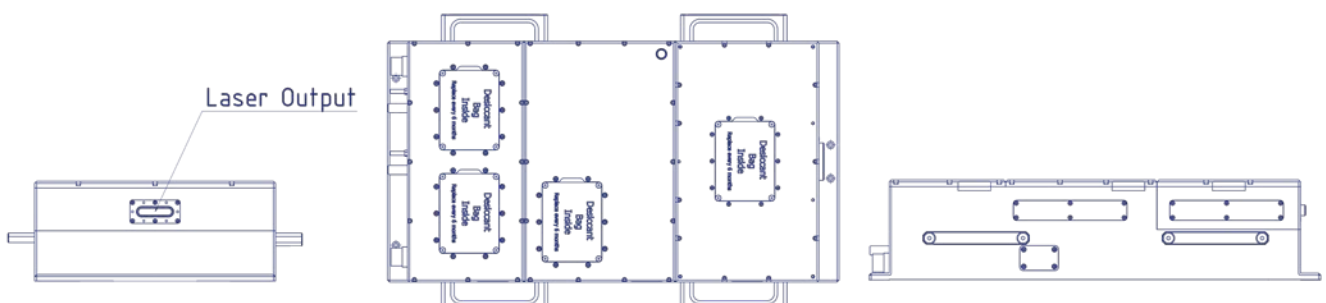
## Utility & Ambient Requirements

Power supply	180-264 V, 50/60 Hz
Power	4 kW-8 kW
Chiller	230, 208, 115, 100 V, 50/60 Hz or 460/280 V, 50/60 Hz
Power	4 kW-8 kW
Operation ambient temperature	15 °C-35 °C
Relative humidity, non-condensing	10 %-80 %

## Dimensions & Weights

Laser head	675 mm x 360 mm x 150 mm
Supply incl. chiller	19" x 18 RU x 700 mm
Laser head	70 kg
Supply incl. chiller	100 kg

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



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