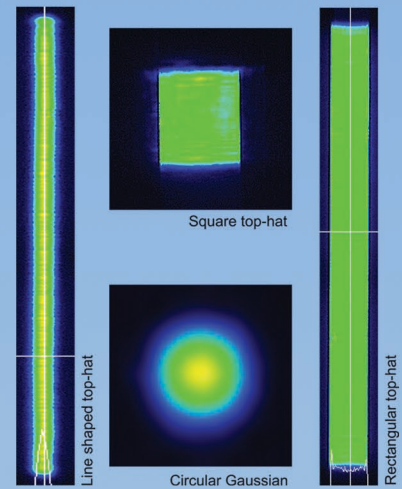


Short Pulse InnoSlab Lasers GX-Series

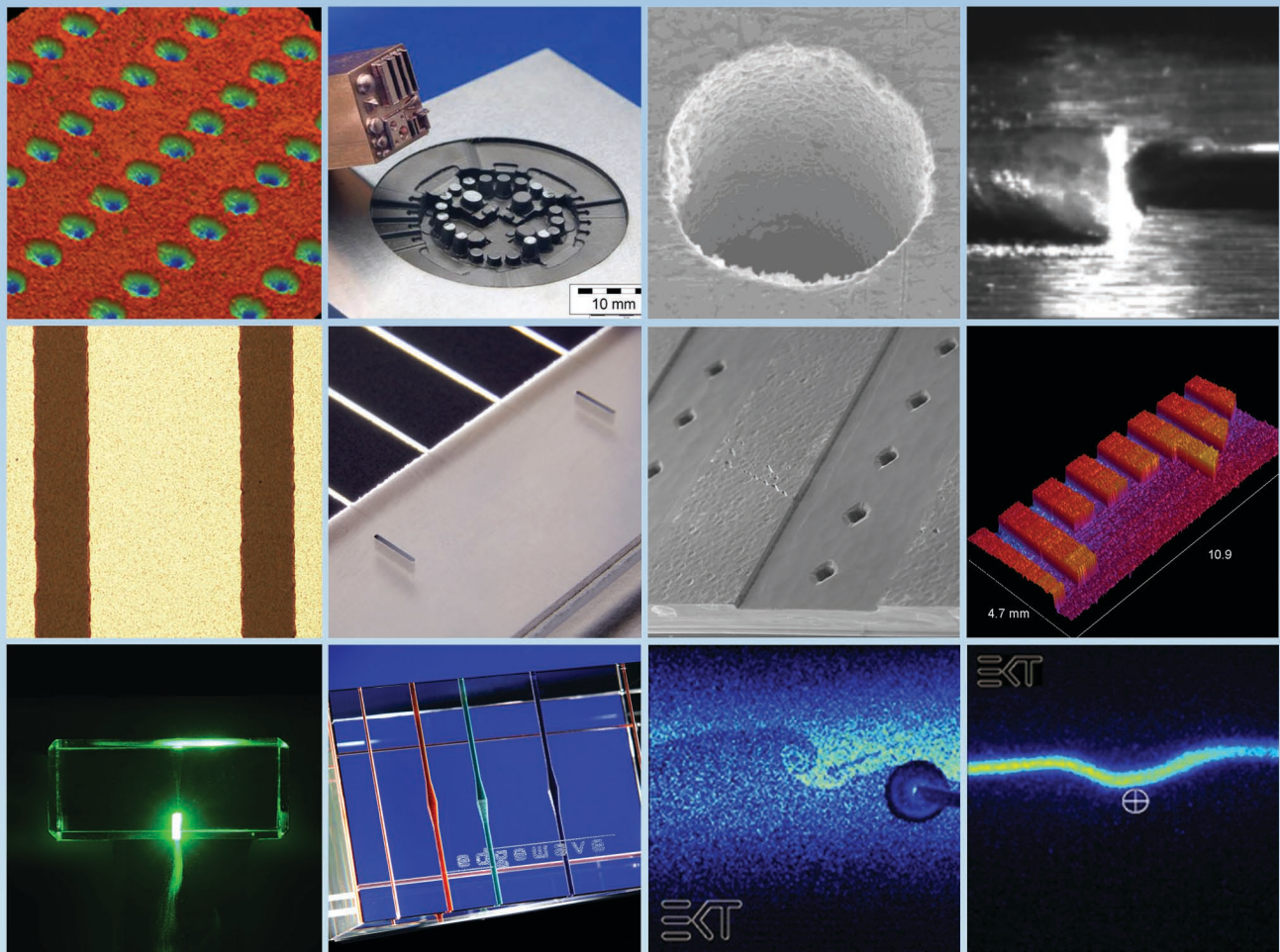


Unique features

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

Favourable applications

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



Overview of GX-Series

Model	GXxxx-1	GXxxx-2	GXxxx-3	GXxxx-4
Wavelength [nm]	IR	Green	UV	DUV
highest beam quality M ²	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]	1	1	1	1
Energy stability [%] rms	< 2	< 4	< 4	< 4
Timing stability [ns]	< 5	< 5	< 5	< 5
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
Divergence full angle [μrad]	500	250	250	225
Point stability [μrad]	< 50	< 60	< 50	< 50
Warm-up time, from cold start [min]	< 15	< 20	< 30	< 30
from standby [min]	< 8	< 15	< 30	< 30
Utility & Ambient Requirements				
Power supply	90 - 264V, 50/60Hz or 180 – 264V, 50/60Hz			
Power	4kW-8kW			
Chiller	230, 208, 115, 100V, 50/60Hz or 460/280V, 50/60Hz			
Power	4kW-8kW			
Operating ambient Temperature	15°C to 35°C			
Relative Humidity, non-condensing	10% to 80%			
Dimensions & Weights				
Laser head	675mm x 360mm x 150mm			
Supply incl. Chiller	19" x 18RU x 700mm			
Laser head	70kg			
Supply incl. Chiller	100kg			

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

