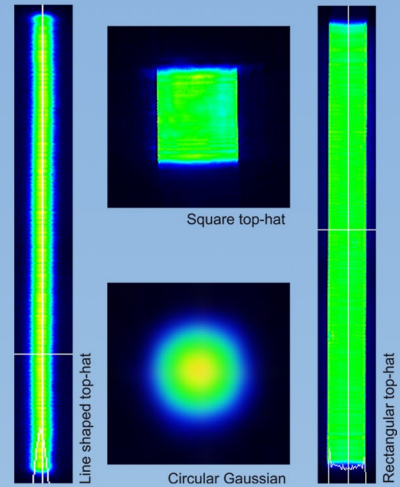


Short Pulse InnoSlab Lasers BX-Series

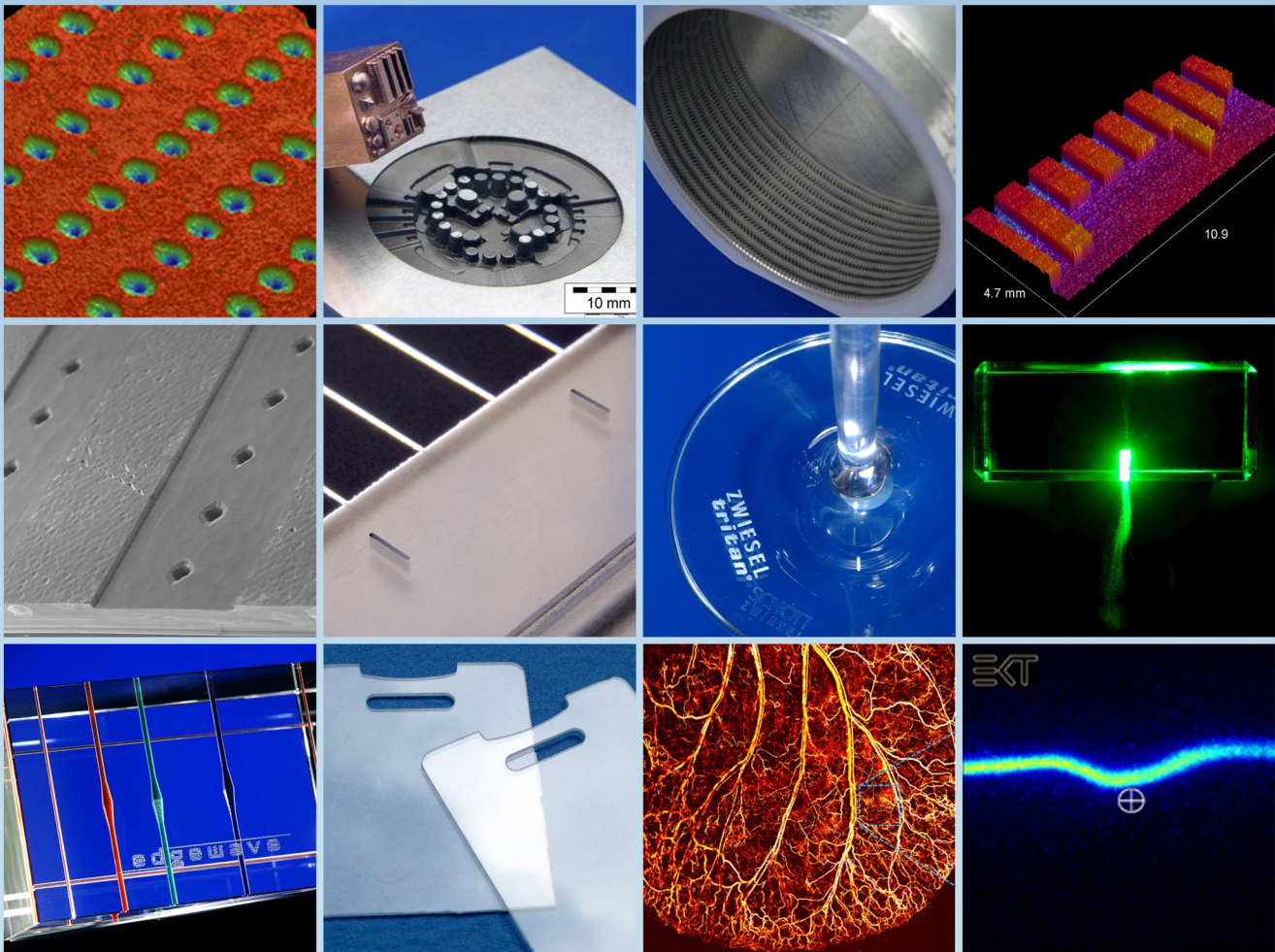


Unique features

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

Favourable applications

- glass milling, drilling and cutting
- ablation, structuring and scribing
- high speed subsurface marking
- tool making and rapid prototyping
- pumping of dye lasers
- solar cell processing
- high resolution marking



Overview of BX-Series

Model	BXxx-1	BXxx-2	BXxx-3	BXxx-4
Wavelength [nm]	IR	Green	UV	DUV
Highest beam quality M ²	1.1	1.1	1.6	2
Max. average power [W]	80	40	12	6
Max. repetition rate [kHz]	100	100	10	10
Max. pulse energy [mJ]	7	3	1.5	1
Min. Pulse width [ns]	1	1	1	1
Energy stability [%] rms	1	2	3	3
Timing stability [ns]	5	5	5	5
Polarisation	> 100:1	> 100:1	> 100:1	> 100:1
Beam ellipticity (far field) [%]	< 10	< 10	< 10	< 10
Diameter at window [mm]	3	3	3	3
Full divergence angle [μrad]	500	250	241	226
Point stability [μrad]	< 50	< 50	< 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			
Power, maximum	1kW			
Chiller	230, 208, 115, 100V, 50/60Hz			
Power, maximum	0.7kW			
Operating ambient Temperature	15°C to 35°C			
Relative Humidity, non-condensing	10% to 80%			
Dimensions & Weights				
Laser head	420mm x 190mm x 110mm			
Supply incl. Chiller	19" x 8HU x 650mm			
Laser head	17kg			
Supply incl. Chiller	56kg			

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

