

# BX-Series

## Short Pulse InnoSlab Lasers

EDGEWAVE

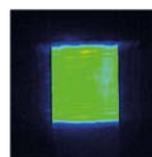
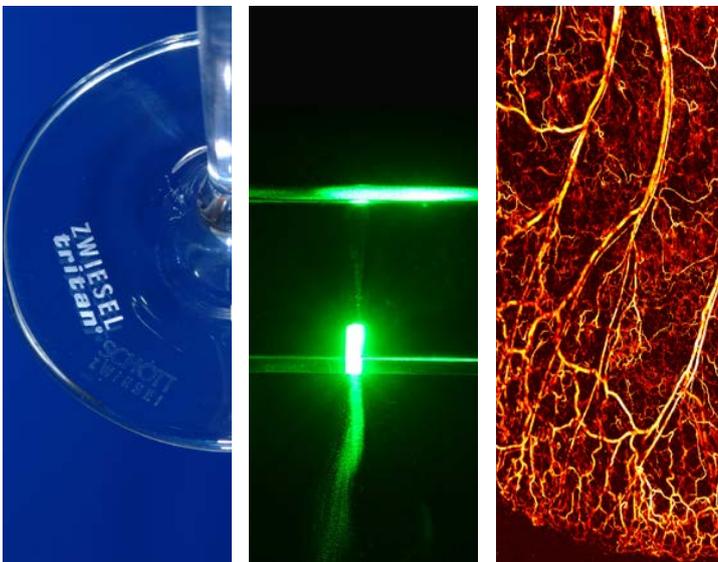


### Favourable Applications

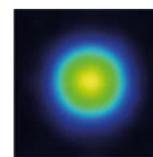
- glass milling, drilling and cutting
- ablation, structuring and scribing
- high speed subsurface marking
- tool making and rapid prototyping
- pumping of dye laser
- solar cell processing
- high resolution marking

### Unique Features

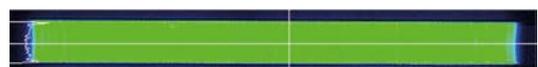
- short pulse
- high pulse energy
- high peak power
- high repetition rate
- compact setup
- flexibility on crystal choice
- tailored beam profile



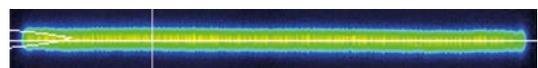
square top-hat



circular gaussian



rectangular top-hat



line shaped top-hat

## Overview of BX-Series

Model	BXxx-1	BXxx-2
Wavelength [nm]	IR	Green
Highest beam quality $M^2$	1.1	1.1
Max. average power [W]	80	40
Max. repetition rate [kHz]	100	100
Max. pulse energy [mJ]	7	3
Min. pulse width [ns]	6	5
Energy stability [%] rms	< 1	< 2
Timing stability [ns]	< 2	< 2
Polarisation	> 100:1	> 100:1
Beam ellipticity (far field) [%]	< 10	< 10
Diameter at window [mm]	3	3
Full divergence angle [ $\mu$ rad]	500	250
Point stability [ $\mu$ rad]	< 50	< 50
Warm-up time from cold start [min]	15	20
Warm-up time from standby [min]	10	15

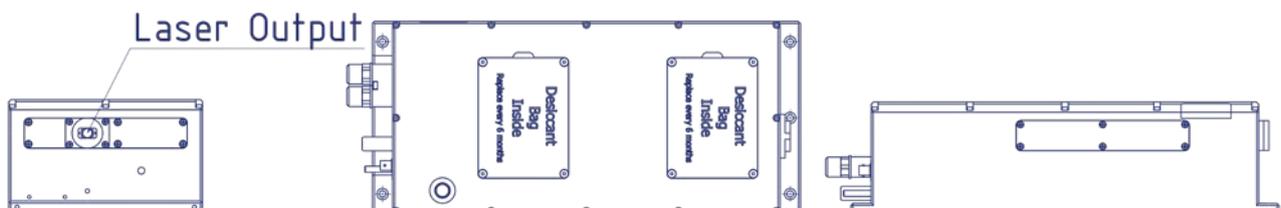
## Utility & Ambient Requirements

Power supply	90 V-264 V, 50/60 Hz
Power, maximum	1.4 kW
Chiller	230, 208, 115, 100 V, 50/60 Hz
Power, maximum	1.4 kW
Operation ambient temperature	15 °C-35 °C
Relative humidity, non-condensing	10 %-80 %

## Dimensions & Weights

Laser head	420 mm x 190 mm x 110 mm
Supply incl. chiller	19" x 8 HU x 650 mm
Laser head	17 kg
Supply incl. chiller	56 kg

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



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