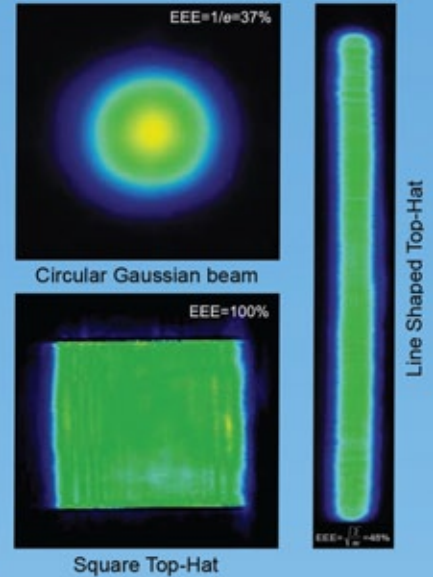


INNOSLAB Lasers BX-Series

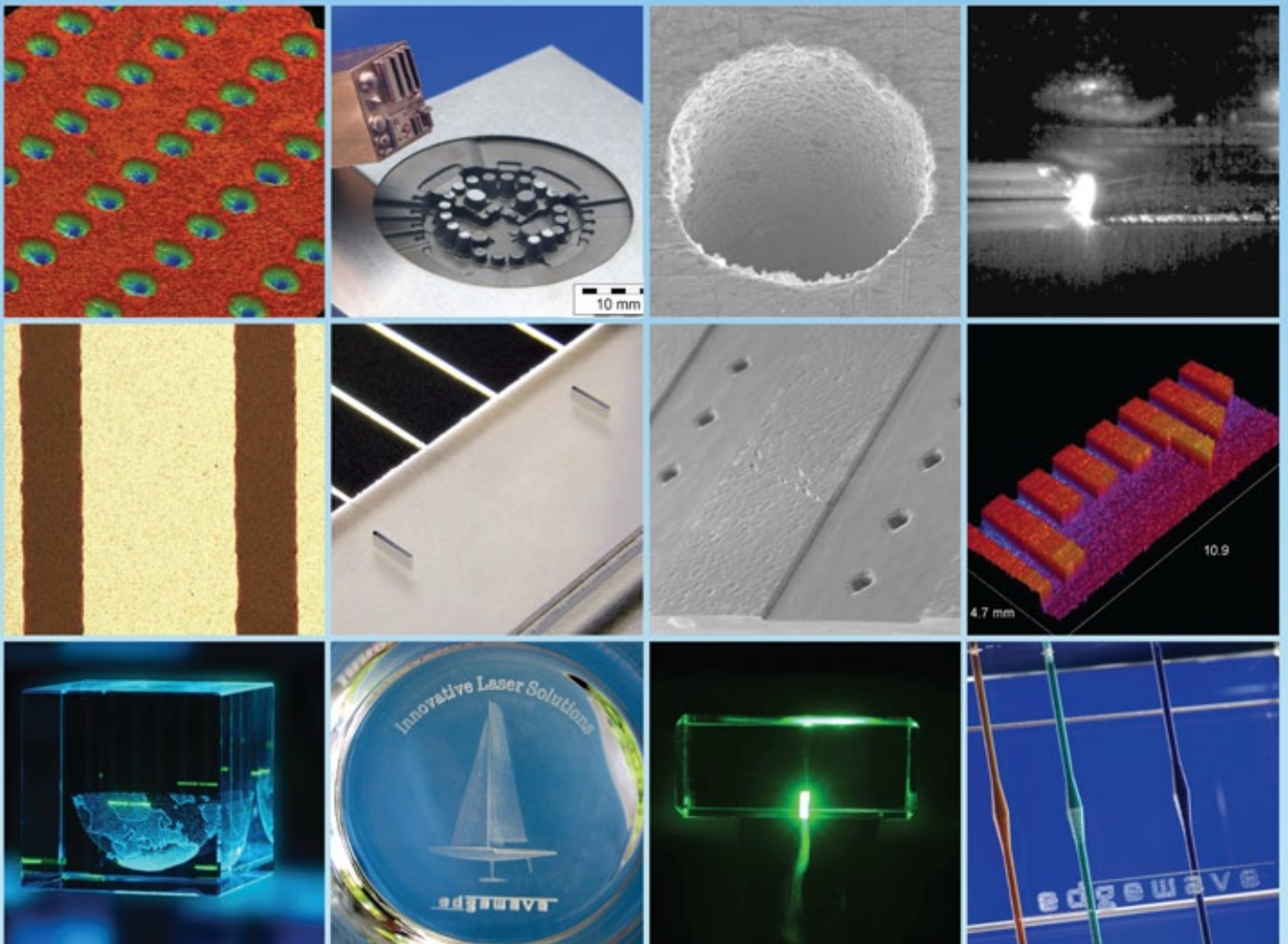


Unique features

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

Favourable applications

- marking
- structuring
- ablation and scribing
- precision drilling
- solar cell processing
- high speed subsurface marking
- glass processing

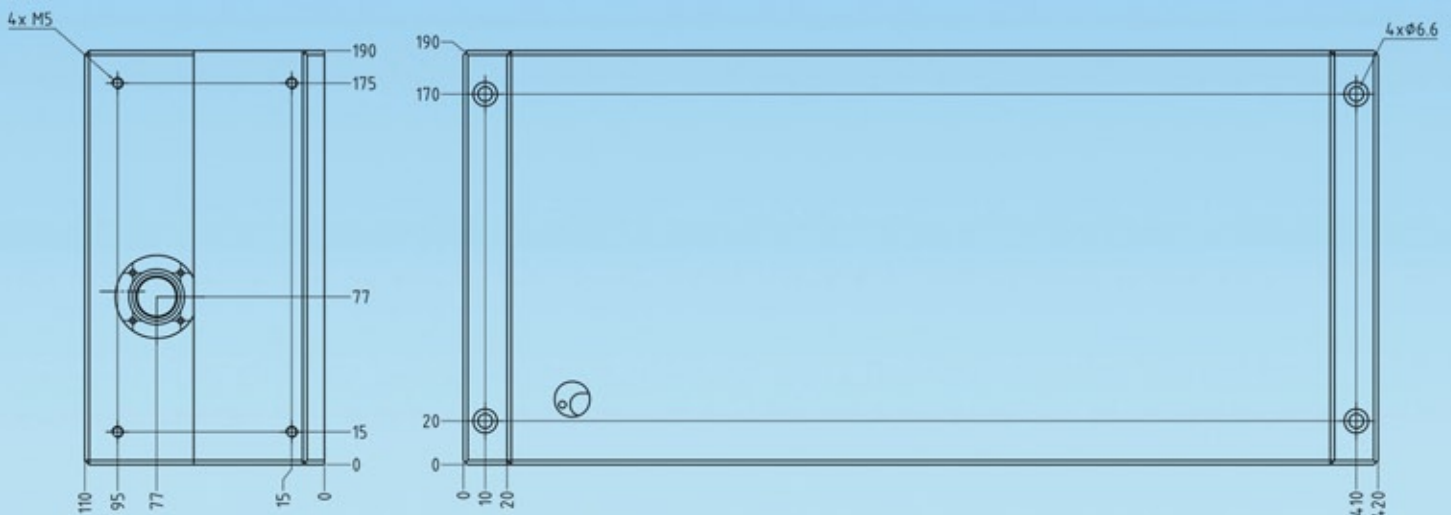


Specifications of BX-Series (Boxtar)

Output Beam	BX2I-E	BX3I-E	BX2II-E	BX3II-E
Nd doped laser medium	YVO4/YAG/YLF	YVO4/YAG	YVO4/YAG/YLF	YVO4
Wavelength [nm]	1064/1064/1047	1064/1064	532/532/523	532
Beam quality	$M^2 < 2$	$M^2 < 2$	$M^2 < 2$	$M^2 < 2$
Average power [W]	20/20/20	30/26	5/4/2,5	15
max. repetition rate [kHz]	40/20/10	50/20	30/20/10	50
Pulse energy* [mJ]	2/4/5	3/5	1/2/2,5	1,5
Pulse width* [ns]	6/8/10	6/8	6/7/9	5
Energy stability* [%] rms	< 3	< 3	< 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]	2	2	2	2
Divergence full angle [mrad]	< 1,2	< 1,2	< 0,5	< 0,5
Point stability [mrad]	< 0,24	< 0,24	< 0,15	< 0,15
Warm-up time, from cold start [min]	< 15	< 15	< 15	< 15
from standby [min]	< 4	< 4	< 4	< 4
Utility & Ambient Requirements				
Power supply				230 V, 50 Hz
Power, maximum				1 kW
Operating ambient Temperature				15° to 30°C
Relative Humidity, non-condensing				10% to 80%
Dimensions & Weights				
Power supply				480mmx450mmx90mm
Laser head				380mmx290mmx110 mm
Power supply				12 kg
Laser head				10 kg

* Nd:YVO4 @ 5 kHz, Nd:YAG @ 2kHz, Nd:YLF @ 1 kHz

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



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