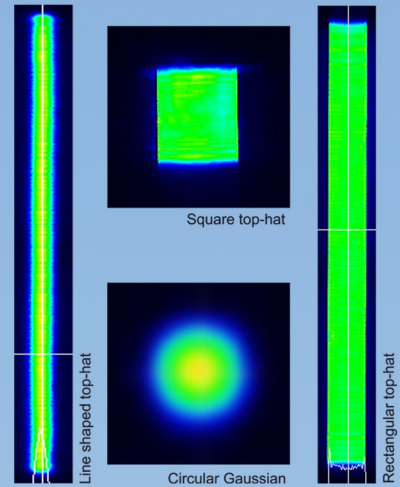


# Short Pulse InnoSlab Lasers IS-Series

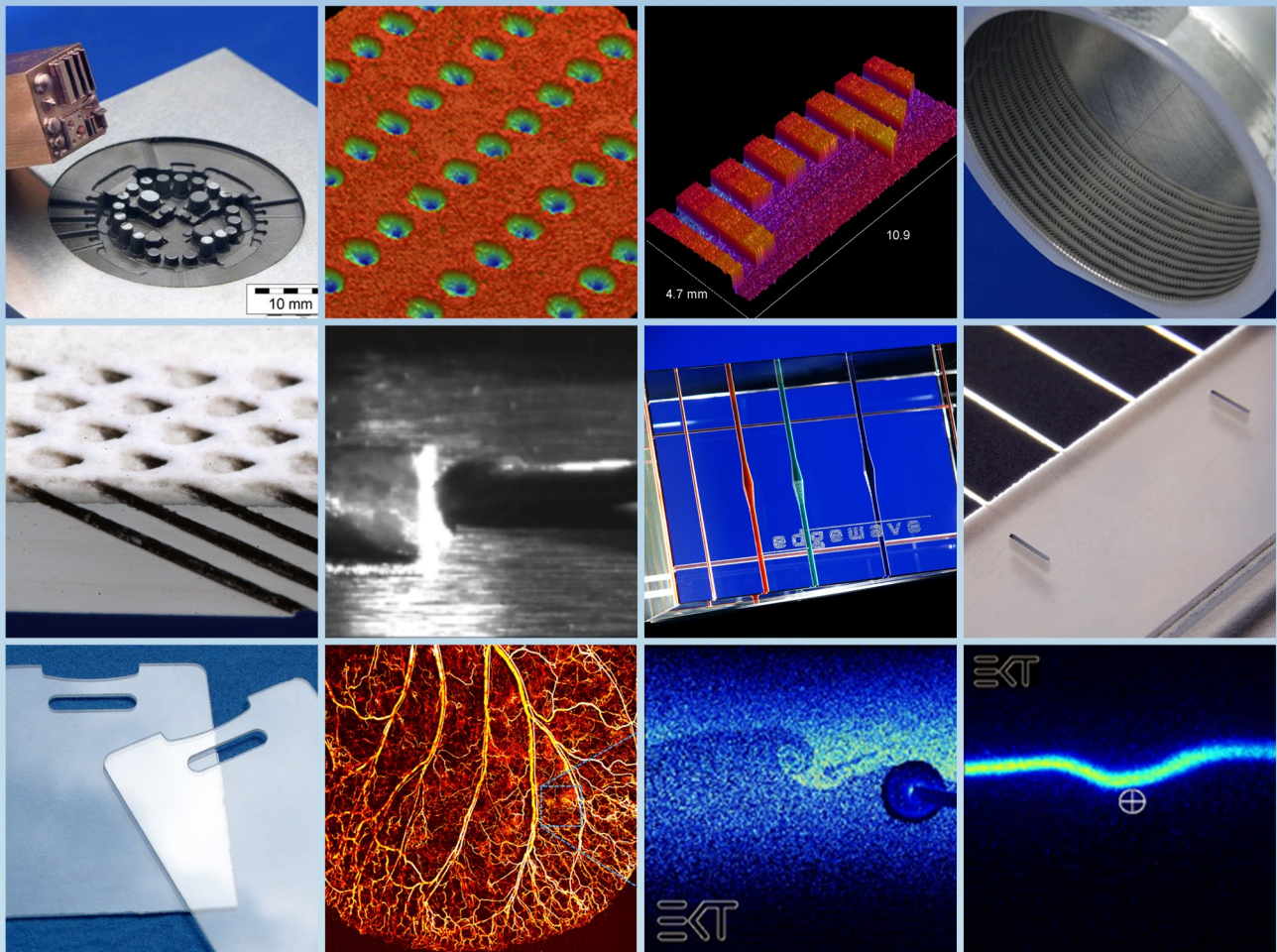


## Unique features

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

## Favourable applications

- plasma generation
- ablation, structuring and scribing
- glass milling, drilling and cutting
- tool making
- solar cell processing
- pumping of dye laser, OPA, OPO
- PIV and LIF



# Overview of IS-Series

Model	ISxxx-1	ISxxx-2	ISxxx-3	ISxxx-4
Wavelength [nm]	IR	Green	UV	DUV
Highest beam quality M <sup>2</sup>	1.1	1.1	1.6	2
Max. average power [W]	400	200	70	20
Max. repetition rate [kHz]	150	150	15	15
Max. pulse energy [mJ]	60	30	15	4
Min. Pulse width [ns]	1	1	1	1
Energy stability [%] rms	1	2	3	4
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	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
<b>Utility &amp; Ambient Requirements</b>				
Power supply	90 - 264V, 50/60Hz or 180 – 264V, 50/60Hz			
Power, maximum	4kW			
Chiller	230, 208, 115, 100V, 50/60Hz or 460/280V, 60Hz			
Power, maximum	3kW			
Operating ambient Temperature	15°C to 35°C			
Relative Humidity, non-condensing	10% to 80%			
<b>Dimensions &amp; Weights</b>				
Laser head	650mm x 178mm x 157mm			
Supply incl. Chiller	19" x 11HU x 700mm			
Laser head	34kg			
Supply incl. Chiller	68kg			

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

