

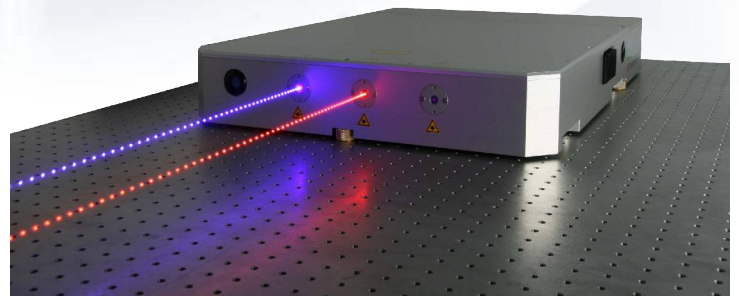
Mode-locked solid-state laser
Wavelengths 1342 nm, 671 nm and 447 nm

First industrial grade ps-laser running at 1342 nm. Optional frequency conversion upgrades for red and blue laser emission.

The ultrashort laser pulses allow machining without heat input into delicate materials.

Designed for 24/7 3-shift demanding industrial applications. By using a proprietary mode-locking scheme a very long lifetime is guaranteed. This results in extremely low total costs of ownership.

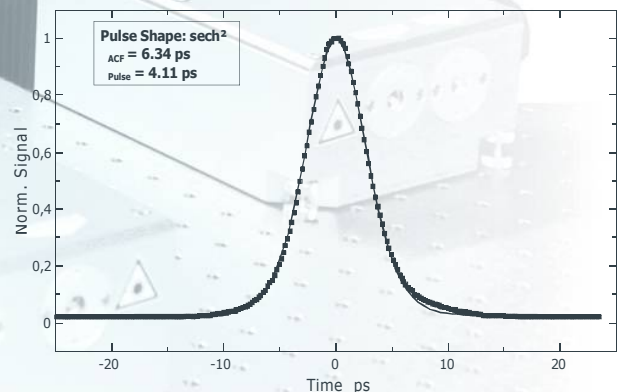
Applications are e.g. thin film ablation through transparent silicon wafers. Exceptional advantages are shown for flat-panel display production including processing of OLEDs.



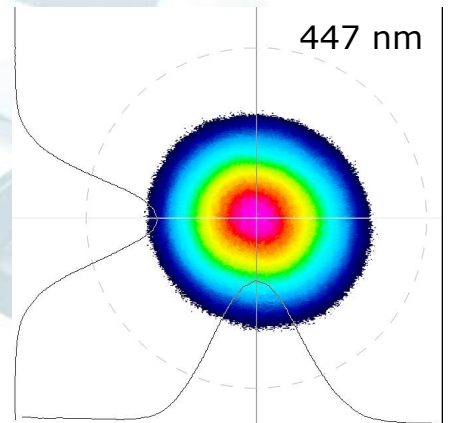
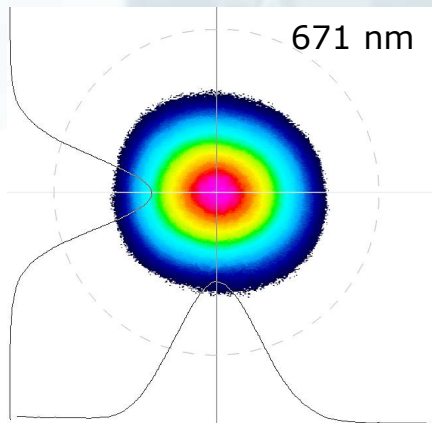
Product Specifications

Model	Pixie	Pixie-S	Pixie-T
wavelength	1342 nm	671 nm	447 nm
average power	1.8 W	0.7 W	0.5 W
pulse duration	< 6 ps	< 6 ps	< 6 ps
energy per pulse	12 nJ	4.5 nJ	3.5 nJ
repetition rate	143 MHz	143 MHz	143 MHz
M ²	< 1.3	< 1.3	< 1.3

Specifications are subject to change without notice due to product improvement.



Beam profiles



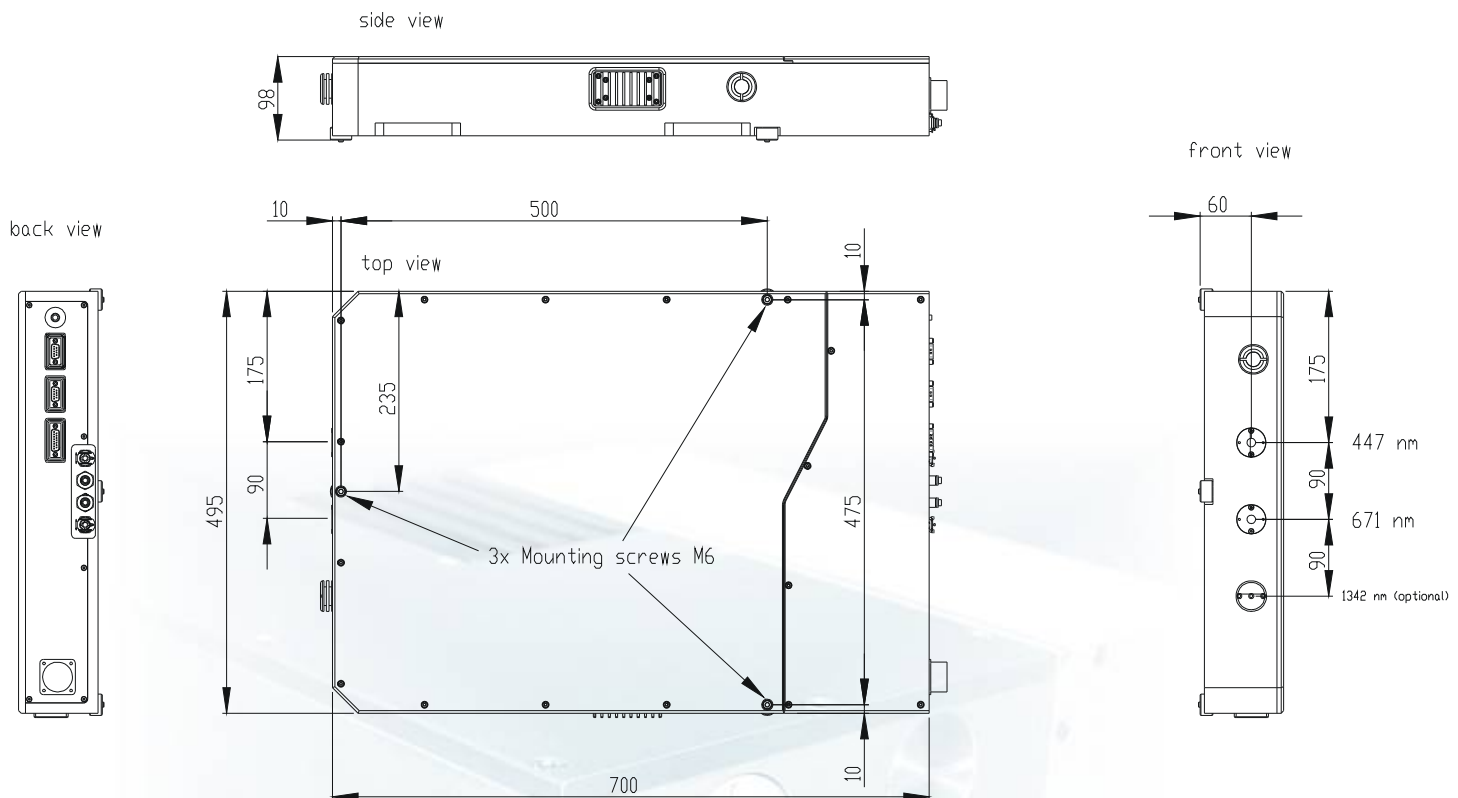
System Dimensions (L x W x H), weight

Laser head	700 x 495 x 98 mm ³	44 kg
Power supply	446 x 440 x 134 mm ³	19.5 kg
Chiller	446 x 560 x 134 mm ³	20 kg

Electrical Characteristics

Operating voltage	85-264 VAC
Frequency	47 - 63 Hz
Power consumption	1800 W max., 750 W typ.

Dimensions Laser Head



Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.
Class 4 laser (IEC-825)



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