

NANO 100 IR NANO 100 Green NANO 100 UV

High power pulsed disk laser



FEATURES

	IR	Green	UV
• Wavelength:	1030 nm	515 nm	343 nm
• Average power:	100 W	50 W	25 W
• Pulse energy:	10 mJ	5 mJ	2,5 mJ
• Pulse duration:		≤ 15 ns	
• Repetition rate:		10 kHz	
• Beam quality:		M ² < 1,5	

The VaryDisk NANO 100 is a compact laser system for industrial applications based on a robust and simple design. It delivers pulses with a pulse length of 15 ns and a pulse energy of up to 10 mJ.

The standard Yb:YAG laser wavelength is 1030 nm, second harmonic (515 nm) and third harmonic (343 nm) are also available.

APPLICATIONS

- Industrial applications and material processing, e.g.
 - Semiconductor processing
 - Thin films edge deletion
 - Solar cells EWT
 - Removal of aluminum coating and paint
 - Laser shock peening
- Scientific research

A 30 mm cage system can be directly attached to the laser output.

The electronics are fully integrated into the laser frame, no additional electronics compartment. An external water chiller is required (can be obtained with the laser system).



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SPECIFICATIONS

OPTICAL OUTPUT

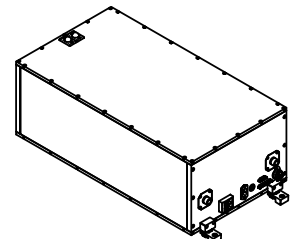
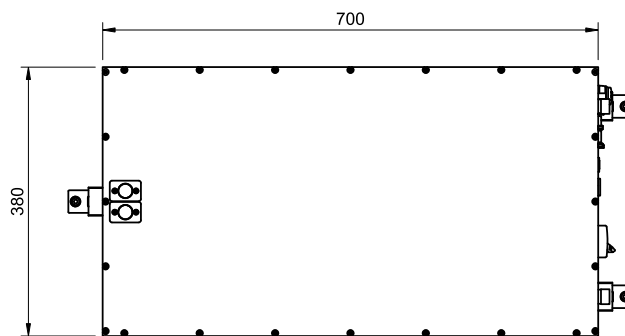
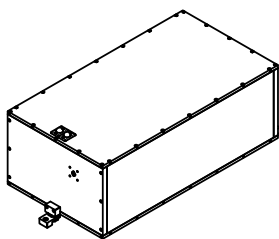
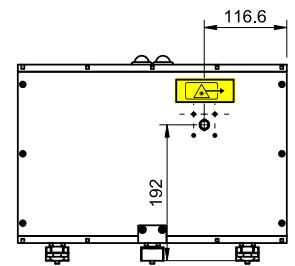
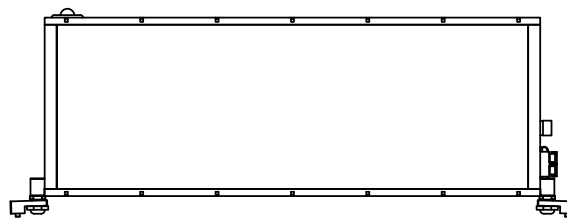
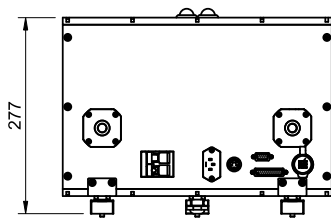
	IR	Green	UV
Wavelength	1030 nm	515 nm	343 nm
Average Power	100 W	50 W	25 W
Pulse energy	10 mJ	5 mJ	2,5 mJ
Pulse duration	≤ 15 ns		
Beam diameter	2 mm		
Repetition rate	10 kHz		
Beam quality	M ² < 1,5		
Polarization	linear		
Warm-up time	≈ 1 min		

DIMENSIONS / WEIGHT

Laser head	700 x 380 x 277 mm ³ , 50 kg
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OPERATING CONDITIONS

Power supply	230 V, 10 A, 50 Hz, C13
Power consumption	700 W
Cooling water	4 l/min @ 20 °C
Operating temperature	20 ... 25 °C



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