



## EXTREME



High power diode pumped  
Q-switched Nd:YAG lasers

### INDUSTRY SCIENCE

#### FEATURES

- Diode end-pumped solid-state laser technology
- High optical efficiency
- High brilliancy with associated very high power of focussing
- Diode pump module, interchangeable on field, without re-alignment
- Very compact and rugged solution

Laser head



Laser head, combined with integrated cutting  
and marking head

#### APPLICATIONS

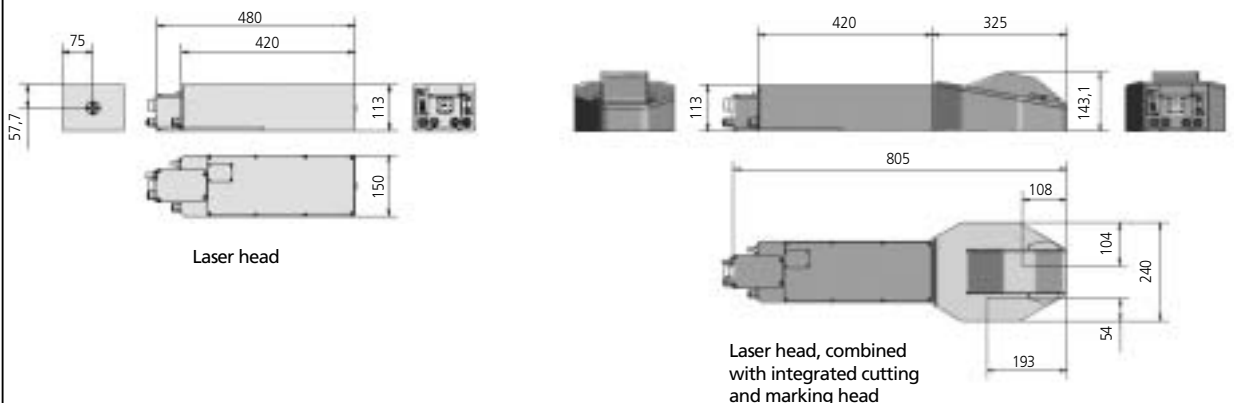
- Micromachining
- Engraving
- Cutting and drilling



## EXTREME

### TECHNICAL SPECIFICATIONS

	E - 1	E - 2	E - 3	E - 4
Average power [W]	100	200	300	400
Wavelength [nm]	1.064			
Pulse width [ns] @ 5 kHz	20			
Beam quality [M <sup>2</sup> ]	≤ 6	≤ 8	≤ 12	≤ 15
Power stability [%] (8 hours)	≤ 3			
Energy / Pulse [mJ] @ 5 kHz	12	25	35	50
Repetition rate [kHz]	0 + 50			
Output beam diameter [mm]	3,0		3,5	
Cooling system	Chiller			
Operating temperature [°C]	15 ± 35			
Power supply [V]; [Hz]	200+240; 50/60			
Power consumption [kVA]	2,7	3	3,5	4
Power supply dimensions [mm] LxWxH	275x414x197			
Laser resonator dimensions [mm] LxWxH	420x150x110			
Power supply weight [Kg]	60		80	
Laser resonator weight [Kg]	15			
Relative umidity (non condensing) %	12 + 85			
Storage temperature [°C]	-5 + 55			
Conformity to EEC rules	89/336/EEC "Electromagnetic Compatibility" 72/23/EEC "Low Voltage"			
Conformity to EU standard	EN 60204-1 "Safety of machinery" EN 60825-1 "Safety of laser products" EN 50081-1 "Emission standard" EN 50082-2 "Immunity standard"			
Laser Class	Operating laser source =1064 nm - Class IV Pumping laser diode =808 nm - Class IV Aiming beam =635 nm - Class 2M			



Distributor



LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
CLASS 4 LASER PRODUCT