



MORE LIGHT

JenLas® *fiber ns* 25 – 105

High precision in industrial marking and micromachining thanks to Jenoptik's easy to use nanosecond fiber lasers.

Applications

- JenLas® *fiber ns* is a class 4 OEM laser source for
- Marking and scribing of metals, plastics, ceramics
 - Laser cleaning of surfaces
 - Generation of surface structures
 - Trimming of resistors and PCB traces
 - Cutting and drilling of thin foils
 - Thin film ablation from transparent substrates

Features

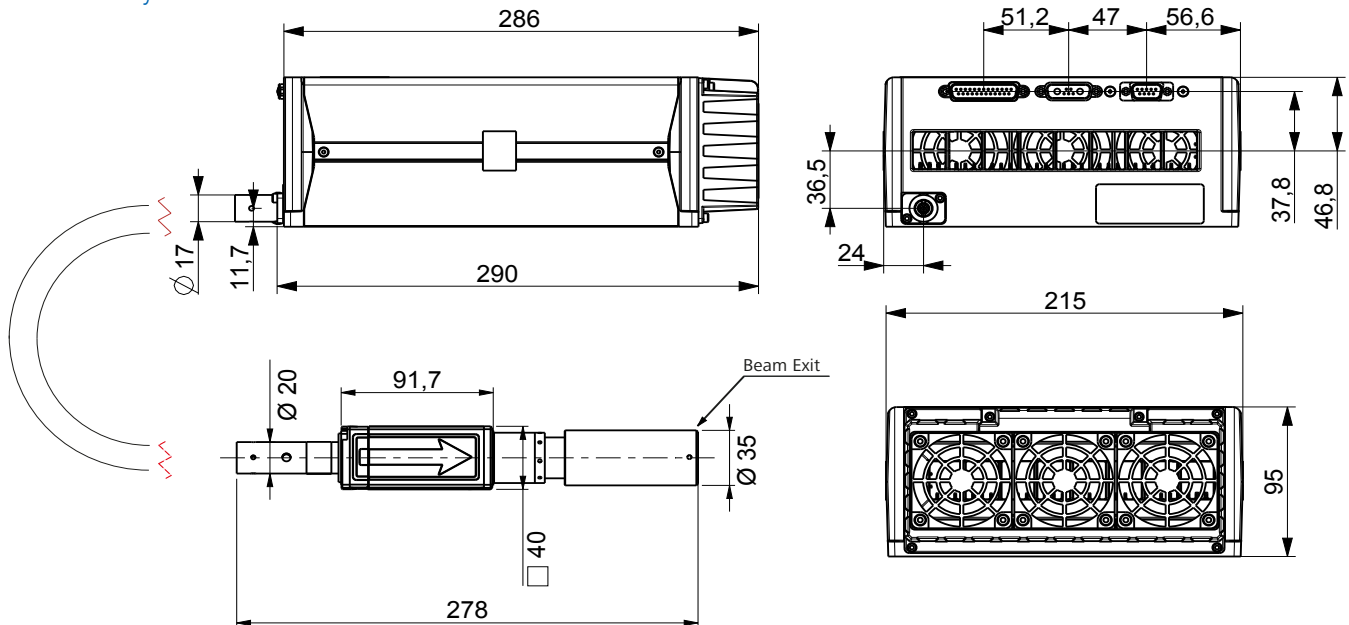
- Scalable power level from 20W to 100W
- Rugged industry-proved fiber laser technology
- Enhanced robustness against backreflection
- Designed for integration into industrial machines
- Complete control by software, hardwired or mixed
- Add-on parts from collimation optics up to complex optical solutions
- On-axis guiding laser

Air-cooled nanosecond fiber lasers

JenLas® fiber ns 25 – 105 | Specifications

JenLas® fiber ns	25	35	55	105
Average power	20 W	30 W	55 W	100 W
Pulse rep. rate range	30 - 80 kHz	30 - 80 kHz	50-100 kHz	100-200 kHz
Pulse width (FWHM, typ.)	125 ns			
Pulse width (20%)	50-200 ns			
Pulse energy (max.)	0.7 mJ	1.0 mJ	1.1 mJ	1.0 mJ
Maximum peak power	5.7 kW	8.5 kW	8.5 kW	7.0 kW
Center wavelength (typ.)	1085 nm			
Output power stability (typ.)	± 2.5 %			
Beam quality (M ²)	< 1.6		< 2.2	
Beam delivery cable length	4 m			
Polarization	random			
Beam diameter (150 mm from beam exit)	fixed collimator output beam diameter Ø 3 mm or Ø 7 mm			
Internal pilot laser	650 nm			
Mechanical specifications				
Size (L x W x H)	286 x 215 x 95 mm			319 x 224 x 142 mm
Weight	6.5 kg	6.5 kg	6.5 kg	8.5 kg
Operation temperature				
Laser box	10 °C – 40 °C			
Laser head (output)	15 °C – 45 °C			
Cooling	forced air			
Electrical specifications				
Laser head	24 V / 8.1 A	24 V / 10.5 A	24 V / 14.5 A	24 V / 22.5 A
Laser controller	24 V / 1.9 A			
Control interface	RS232, TTL			

JenLas® fiber ns 55



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.