

JENOPTIK

JenLas® *fiber ns* 25 – 105

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

SHARING EXCELLENCE

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

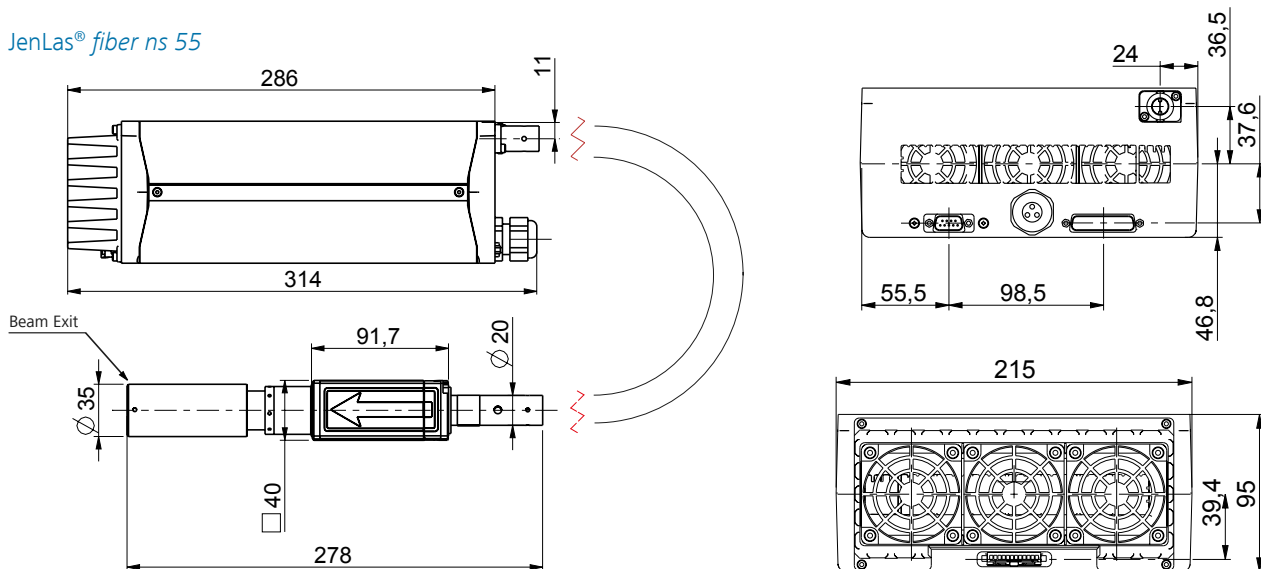
NEW

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		150 ns
Pulse width (20%)		200-260 ns		220-250 ns
Pulse energy (max.)	0.7 mJ	1.0 mJ	1.1 mJ	1.0 mJ
Center wavelength (typ.)	1085 nm			
Output power stability (typ.)	2%			
Beam quality (M ²)		< 1.6		< 1.8
Beam delivery cable length	4 m			
Polarization	random			
Fiber output	fixed collimator output beam diameter Ø 3 mm or Ø 7 mm			
Internal pilot laser	yes			
Mechanical specifications				
Size (L x W x H)	286 x 215 x 95 mm			319 x 224 x 142 mm
Weight	6.3 kg	6.3 kg	6.4 kg	8.5 kg
Operation temperature				
Laser box	0 °C – 40 °C			
Laser head (output)	15 °C – 45 °C			
Cooling	forced air			
Electrical specifications				
Laser head power supply	24 V / 10 A	24 V / 12.4 A	24 V / 16.4 A	24 V / 2 A and 36 V / 13 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.