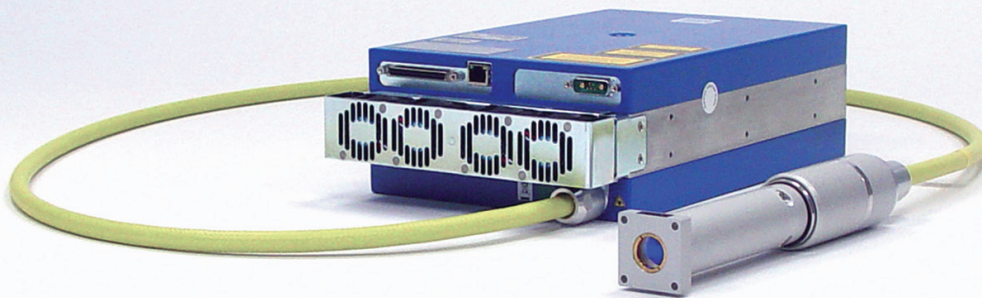




JenLas[®] *fiber ns 10–70*

Air-Cooled Nanosecond Fiber Lasers



Advantages:

- First + last pulse equal
- Isolated optical output
- Pulse width variable
- Highly reliable components
- Up to 20 kW peak power (nominal)
- OEM-design
- High pulse repetition rate (up to 1 MHz)

Customer benefits:

- Constant application results
- Metal applications possible
- Optimized application
- Low cost of ownership
- Easy integration
- High speed application

Applications:

- Marking
- Scribing
- Ablation
- Silicon processing
- Trimming
- Cutting

JenLas® fiber ns 10–70

Air-Cooled Nanosecond Fiber Lasers

Specifications

JenLas® fiber ns	10 – Basic single mode	20 – Basic multi mode	20 – Advanced		50 – Advanced		70 – Advanced	
			single mode	multi mode	single mode	multi mode	multi mode	higher multi mode
Output power	10 W	20 W	20 W	20 W	50 W	50 W	70 W	70 W
Pulse rep. range	1–200 kHz	1–200 kHz	1 kHz–1 MHz	1 kHz–1 MHz	1 kHz–1 MHz	1 kHz–1 MHz	1 kHz–1 MHz	1 kHz–1 MHz
Pulse width (FWHM)	30–200 ns ¹⁾	30–200 ns ¹⁾	3–500 ns ²⁾	3–500 ns ²⁾	10–220 ns ²⁾	3–500 ns ²⁾	3–500 ns ²⁾	10–250 ns ²⁾
Pulse energy (max.)	≥0.5 mJ	≥1.0 mJ	≥0.7 mJ	≥1.0 mJ	≥0.7 mJ	≥1.0 mJ	≥1.0 mJ	≥1.25 mJ
Peak power (max.)	≥6 kW	≥12 kW	≥9 kW	≥12 kW	≥9 kW	≥12 kW	≥12 kW	≥20 kW
Modulation range in cw	N/A	N/A	0–200 kHz	0–200 kHz	0–200 kHz	0–200 kHz	0–200 kHz	0–200 kHz

¹⁾ rep.rate dependent

²⁾ adjustable

Centre wave length	1062 nm (± 3 nm)							
Output power stability (typ.)	3 %	3 %	3 %	3 %	3 %	3 %	3 %	2 %
Beam quality (M ²)	≤1.3	≤1.6	≤1.3	≤1.6	≤1.3	≤1.6	≤1.6	~3
Beam delivery cable length	2 m	3 m	2 m	2 m	2 m	3 m	3 m*	3 m*
Polarisation	random							
Fiber output	LLK-B incl. optical isolator							
Internal pilot laser	yes							

* optional 5m

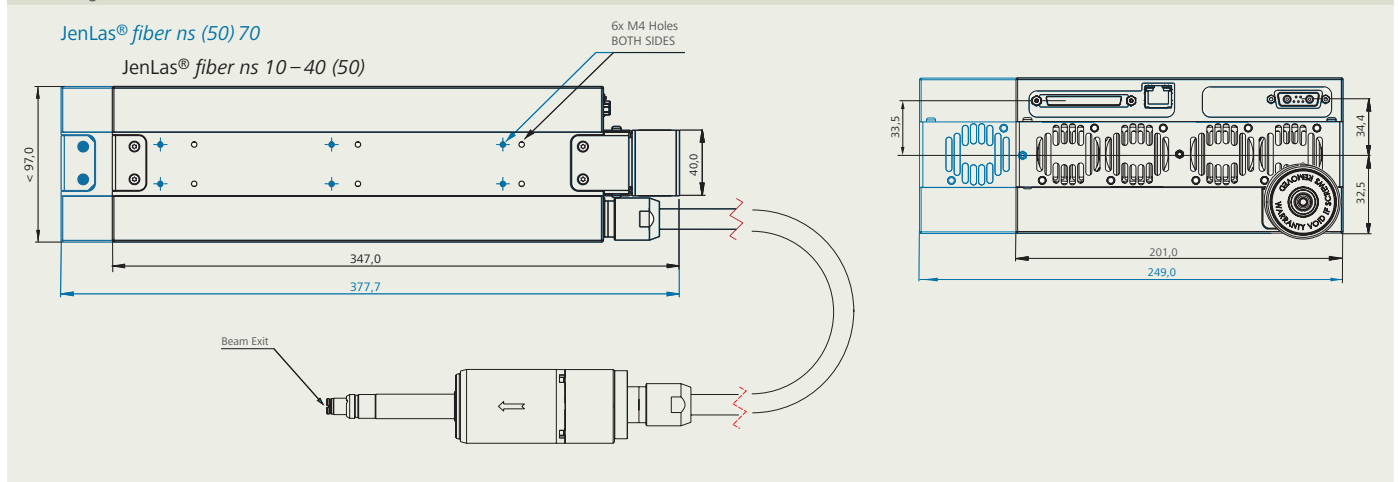
Mechanical specifications								
Size (L x W x H)		347,0 x 201,0 x 97,0mm			377,7 x 249,0 x 97,0mm	347,0 x 201,0 x 97,0mm	377,7 x 249,0 x 97,0mm	
Weight		~11 kg			~13 kg	~11 kg	~13 kg	
Operation temperature								
Environment temp.	0°C–45°C	0°C–45°C	0°C–45°C	0°C–45°C	0°C–40°C	0°C–40°C	0°C–40°C	0°C–40°C

Electrical specifications								
Laser head power supply	24V/<7 A	24V/<10 A	24V/<10 A	24V/<10 A	24V/<16 A	24V/<16 A	24V/ <20 A	24V/ <20 A
Order code	040401-021-22	040401-035-22	040401-036-22	040401-037-22	040401-027-22	040401-038-22	040401-039-22	040401-029-22

Accessories

- Beam collimators (F30, F50, F75, F100)
- Interface board

Laser design



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



JENOPTIK | Lasers & Material Processing

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