

4Jet Technologies GmbH

JETLASER M500/M1000

Mobile Laser Cleaning Machine Specifications



JETLASER Mobile Laser Cleaning Machine Specifications		
Owner: DoA	Released by: DoA	
Valid from: Jan 2025	Revision: 1.0	

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1 Laser Specifications

	Unit	M500	M1000
Laser Class		Class 4	
Laser Power	W	500	1000
Pulse Duration	ns	30-500	30-500
Nominal Pulse Frequency	kHz	11	22
Pulse Energy	mJ	45	45
Wavelength	nm	1064	1064
Laser Fiber Length	m	15	15

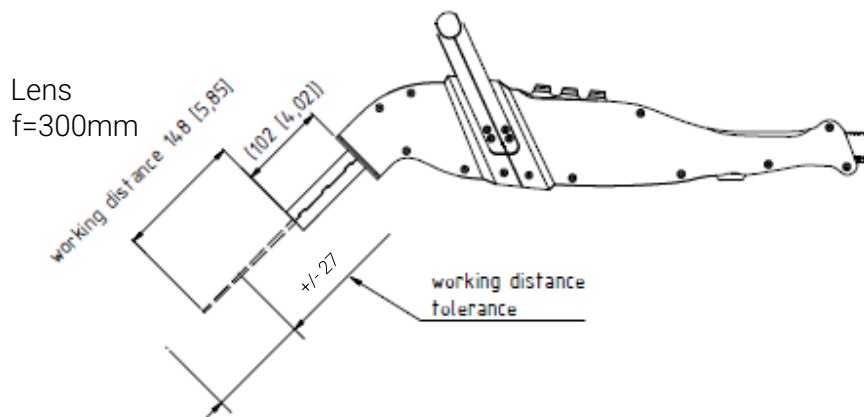
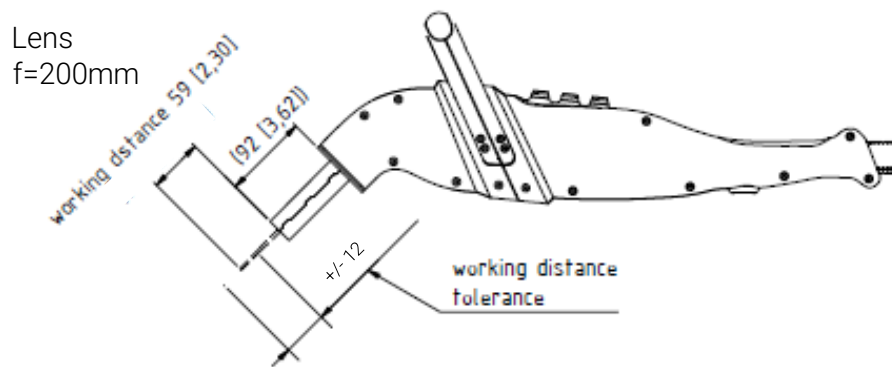
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2 The Laser Process

2.1 Working Distance

Working distance and working tolerances in mm [inches], dependent on available lenses

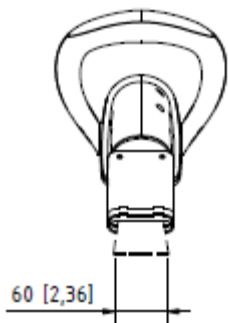
Lens	Unit	Working distance 500W	Working distance 1000W
200 mm	mm	200±12	200±12
300 mm	mm	300±27	300±27



Feel free to ask for customized lenses.

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2.2 Laser line width



Can be adjusted, 10-60 mm

3 Supplies

3.1 Electric supply

	Unit	M500 (2P)	M500 (3P)	M1000 (3P)
Voltage Supply	V	220-250	380-480	400-480 +10%/-5%
Frequency	Hz	60	50-60	50-60
Conductors		2P+PE	3P+PE TNS	3P+PE TNS
Max. Power consumption	kW	4	4	6,5
Max. Fuse	A	16	16	16

3.2 Compressed air

	Unit	Value	Comment
Pressure	bar	5	Ø 8mm connector
Flow rate	l/min	90	Dry, clean air

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3.3 Cooling water

Quantity	8l, DI-water
Additives	Nalco 73199 + Nalco 7330
Draining Intervall	Every 6months, drain if Jetlaser is stored or transported in cold environment

3.4 Consumables

There are no consumables for the actual laser process. For wearing parts to be replaced during maintenance, please see chapter maintenance.

4 Ambient Conditions

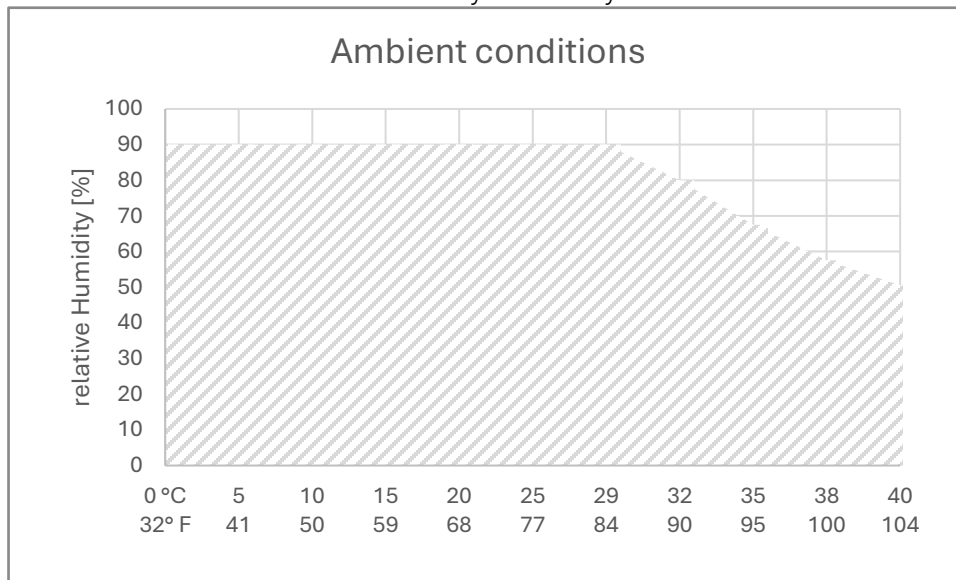
4.1 General ambient conditions

		min.	max.
Temperature [°C]	Operation	5	40
	Storage	0	40
Rel. Humidity [%]	Operation	0	95
	Storage	0	95

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4.2 Dew point Diagram

In order to avoid condensation water, it is required that the ambient conditions at the JETLASER are within certain limits. The rel. humidity must stay in the marked area.



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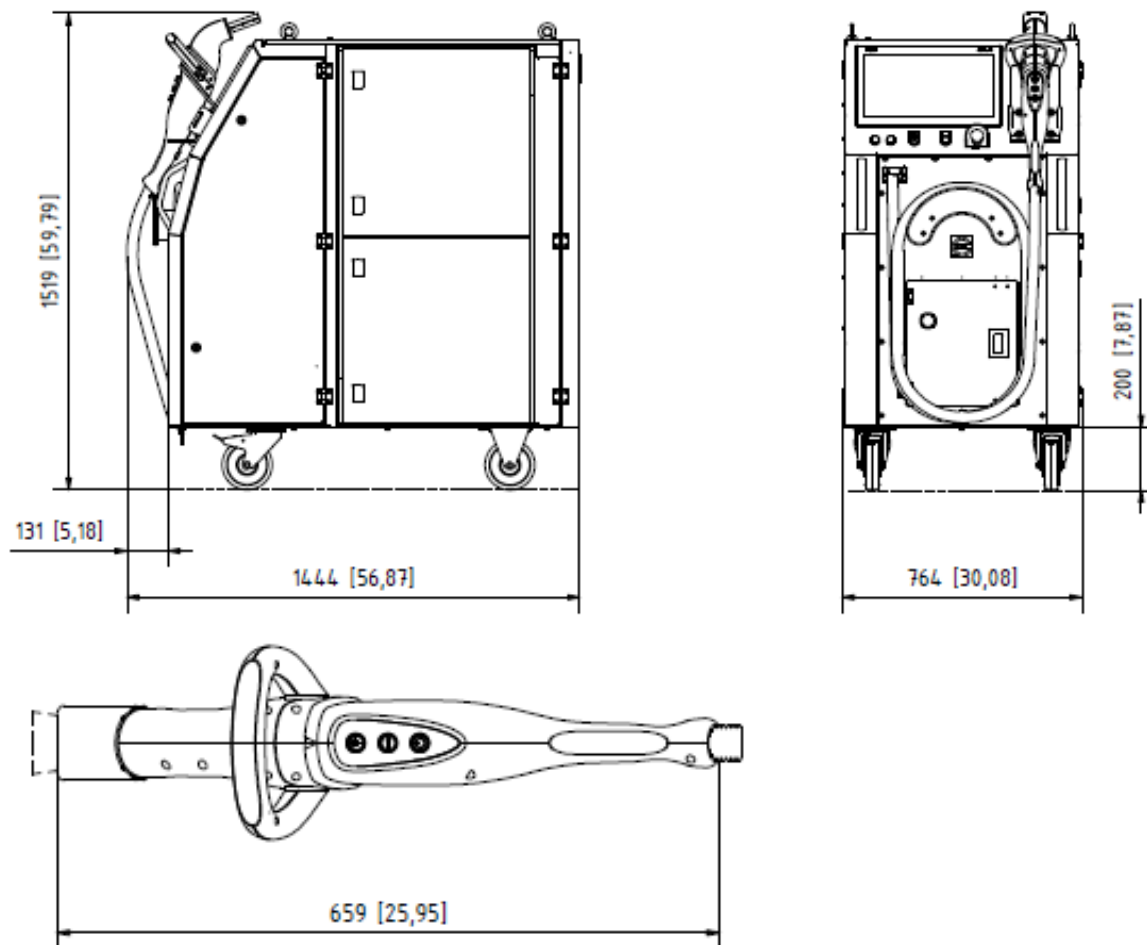
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5 Machine Dimensions

5.1 Machine Layout



5.2 Weight

M500	kg	lb
Supply Unit	360	Ca 795
Handpiece	Ca. 3,5 kg	Ca 7.7

M1000	kg	lb
Supply Unit	395	Ca 870
Handpiece	Ca. 3,5 kg	Ca 7.7

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6 Maintenance

This is a low maintenance machine. There is no maintenance that requires any special training.

Part	Maintenance	Remarks
Laser source	None	
Chiller	Exchange filters	Can be done by operator
Aspiration (optional)	Exchange filters	Can be done by operator