JETLASER M100 / M200 Air
Flexible Laser Cleaning Spec Sheet

LASER | SYSTEME | SERVICES
4JET

Owner: JFl	Released by: JFl	
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Designs
- 100 W & 200 W laser power
- 2D laser scanner

Possible Applications
- Cleaning of rubber and plastic molds
- Cleaning of molds in multiple industries
- Paint removal in aerospace, wind energy or marine applications
- Pre-treatment of surfaces before welding or adhesive bonding
- Oxide and rust removal
- Spot cleaning of rollers, dies or other fixtures
- Cleaning of stone surfaces or buildings

Laser Specification
- Solid state near infrared laser at 1064 nm wavelength
- Class 4 laser system

Power
- 110 V / 230 V, 50 / 60 Hz

Dimensions & Weight
- Handpiece < 5 kg
- Supply 63 cm x 79 cm x 64 cm (W x H x D) approx. 100 kg

Ambient Conditions

Temperature	Operation	10°C – 35°C
	Storage	-10°C – 60°C
Relative humidity	Operation	10 – 80 % non condensing enviroment
	Storage	

If warm and humid air reaches cold surfaces, condensation water is formed at certain temperatures. This condensation water can lead to faults of the electrical and optical components or even to their failure.

Therefore, for avoiding condensation water, it is required that the ambient conditions at the JETLASER are within certain limits.

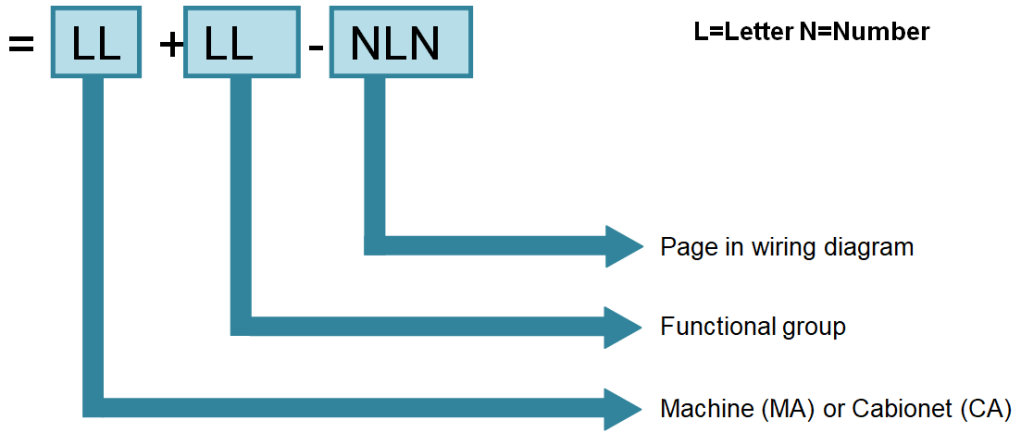
In order to determine the ambient conditions, the ambient temperature and the air humidity in the environment of the JETLASER must be measured. If the required ambient conditions are not kept, a corresponding environment must be created for the JETLASER artificially (cabin, air conditioning).

The JETLASER is approved with protection class IP20, which means it must not get wet. You have to work in a dry environment, e.g. no rain.

Electrical Specifications

The electrical design of the machine is executed according to the CE regulations.

- Wire and electrical equipment labelling:



- Color single conductors

Electric circuit	Denomination	Color
Protective earth conductor	PE	green/yellow
Main circuit	L	black
	N	white
Control circuit	<60 V DC	blue
	GND	blue with white stripes
	+15 V	blue
	-15 V	blue

External Connections (to be supplied by costumer)

	Description	Unit	M100	M200 Air	Comment
Power supply	Voltage supply	V	110 - 230	230	+10% -5%
	Frequency	Hz	50-60	50-60	± 2%
	Conductors		L/N/PE	L/N/PE	
	Max. power	kW	1.5	2	Line fuse max. 16A (gG)

Laser Specification

	Laser Model	Unit	M100	M200 Air
Laser	Laser class		Class 4	Class 4
	Laser power	W	100	200
	Pulse duration	ns	90 – 130 @ 15kHz	90 – 130 @ 30kHz
	Pulse frequency	kHz	15 - 200	30 - 200
	Nominal frequency	kHz	15	30
	Pulse energy	mJ	6.7	6.7
	Wavelength	nm	1064 ±5	1064 ±5
	Length laser fiber	m	5	5

Working Distance and Tolerances in mm, Dependent on Available Lenses

	JETLASER M100 / M200 Air 6.7 mJ		
Focal Length	**Working Distance [mm]**	**Energy Density**	**Scanfield**
254 mm *	287±10	9.8 J/cm²	100 x 100 mm²

* 254mm lens as standard, others on request

Technical Dimensions

