



Laser Cleaning Systems

CONSERVATION OF MONUMENTS / INDUSTRY / CONSTRUCTION

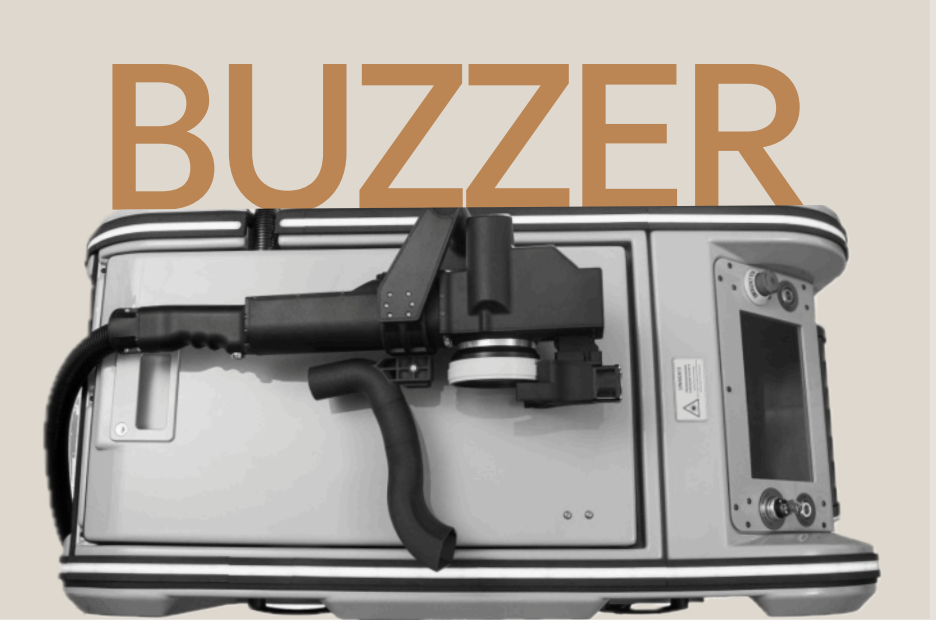
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ABOUT US

Manufacturer of cleaning lasers

BUZZER



BUZZER is our line of cleaning lasers designed for customers who expect a reasonable price but don't want to sacrifice the functionality of our flagship HULK systems. BUZZER devices utilize less expensive laser sources but remain fully compatible with our high-end software, controls, and solutions. They are the best choice for companies looking to introduce laser cleaning technology without compromising safety, ergonomics, or work quality.

AREAS OF APPLICATION



Surface preparation
and contamination removal



Removing paints and varnishes



Industrial mold cleaning



Cleaning materials before
gluing and welding



Removing coatings from metal
and glass surfaces



Removing rust from surfaces



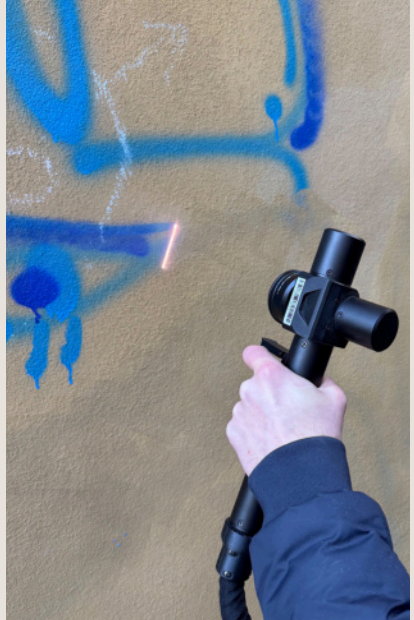
Cleaning natural stones



Cleaning and renovation of monuments



TECHNOLOGY



Laser cleaning is an advanced process based on ablation, the controlled removal of contaminants using pulses of light. Carefully selected beam parameters ensure that the laser energy is absorbed only by contaminants, leaving the substrate intact. This technology enables safe and highly precise cleaning of even the most sensitive materials.

Our multimode lasers deliver high pulse energy at low frequencies, avoiding excessive heating of components. This solution is particularly valued in industries requiring the highest surface quality, including monument conservation, stone, wood, and polychrome cleaning, and industrial mold cleaning.

As a manufacturer, we create lasers based on high-quality components and proprietary software. Each unit is manufactured in our facility in Poland and comes with a technology passport and required certifications. We offer comprehensive training and full warranty and post-warranty support, ensuring user safety and reliability.

Buzzer 300/500/1000

Multimode lasers

Key Advantages of the BUZZER Series

The BUZZER series utilizes economical laser sources while maintaining the functionality, ergonomics, and control system known from the professional HULK series. This is a solution for companies seeking the optimal balance between price and device capabilities.

The same operating comfort as premium lasers

The user has full access to control, diagnostic, and configuration functions, allowing the BUZZER system to operate like a fully-fledged industrial device. Without the limitations typical of inexpensive, simplified lasers available on the market.

Authentic Service and Full Technical Support

We have our own service center, access to spare parts, and a team of qualified specialists. We provide real, not just declarative, after-sales support, which is a significant advantage over low-quality imported devices.

Experience in Real-World Cleaning Applications

We don't limit ourselves to selling devices. We perform laser cleaning operations every day. We provide training, select process parameters, develop technological procedures, and support customers in real-world production applications.

Advanced Control Comes Standard

Proprietary software controls the laser source and head parameters, available in Polish, English, French, and German. Intuitive, simplified operator interface – pulse energy adjustment with automatic selection of other operating parameters. Remote software updates and remote service diagnostics. Ability to save an unlimited number of custom settings. Access to advanced laser and scanner parameters: – digital focus correction (hatch, distance between scan lines), – viewing device operating counters. The system enables integration with industrial automation via MODBUS-RTU and MODBUS IP communication protocols.

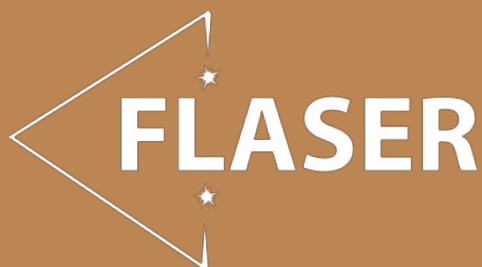
TECHNICAL DATA

Buzzer 300 Air	Buzzer 500 Air
OPTICAL CHARACTERISTICS	OPTICAL CHARACTERISTICS
Laser operation type: Pulsed	Laser operation type: Pulsed
Average beam power: 300W	Average beam power: 500W
Beam pulse energy: 15 mJ	Beam pulse energy: 15 mJ
Beam quality M2: 12	Beam quality M2: 12
Beam wavelength: 1064 nm	Beam wavelength: 1064 nm
IMPULSE CHARACTERISTICS	IMPULSE CHARACTERISTICS
Pulse duration: 2-500 ns	Pulse duration: 30-500 ns
Pulse frequency: 1 : 4000 kHz	Pulse frequency: 1: 4000 kHz
OPTICAL OUTPUT CHARACTERIZATION	OPTICAL OUTPUT CHARACTERIZATION
Fiber optic length: 5m	Fiber optic length: 10m
ELECTRICAL CHARACTERISTICS	ELECTRICAL CHARACTERISTICS
Control voltage: 24V DC	Control voltage: 24V DC
Supply voltage: 230V	Supply voltage: 230V
Power consumption: 1200W	Power consumption: 2000W
WORK CHARACTERISTICS	WORK CHARACTERISTICS
Operating temperature range: +10 : +50 °C	Operating temperature range: +10 : +50 °C
Storage: 0 : +60 °C	Storage: 0 : +60 °C
Operating temperature: +25 °C	Operating temperature: +25 °C
Cooling type: Air	Cooling type: Air
Humidity range: 10 : 80 %	Humidity range: 10 : 80 %
Weight: 30 kg	Weight: 40 kg
Dimensions: 57 cm x 42 cm x 21 cm	Dimensions: 68 cm x 53 cm x 38 cm

TECHNICAL DATA

Buzzer 500	Buzzer 1000
OPTICAL CHARACTERISTICS	OPTICAL CHARACTERISTICS
Laser operation type: Pulsed	Laser operation type: Pulsedy
Average beam power: 500W	Average beam power: 1000W
Beam pulse energy: 100 mJ	Beam pulse energy: 100 mJ
Beam quality M2: 27	Beam quality M2: 27
Beam wavelength: 1064 nm	Beam wavelength: 1064 nm
IMPULSE CHARACTERISTICS	IMPULSE CHARACTERISTICS
Pulse duration: 25,50,70,100,150,200 ns	Pulse duration: 25, 50, 70, 100,150,200 ns
Pulse frequency: 1-100 kHz	Pulse frequency: 1 : 100 kHz
OPTICAL OUTPUT CHARACTERIZATION	OPTICAL OUTPUT CHARACTERIZATION
Fiber optic length: 10m	Fiber optic length: 10m
ELECTRICAL CHARACTERISTICS	ELECTRICAL CHARACTERISTICSNA
Control voltage: 24V DC	Control voltage: 24V DC
Supply voltage: 230V	Supply voltage: 380V
Power consumption: 2000W	Power consumption: 4500W
WORK CHARACTERISTICS	WORK CHARACTERISTICS
Operating temperature range: +10 : +50 °C	Operating temperature range: +10 : +50 °C
Storage: 0 : +60 °C	Storage: 0 : +60 °C
Operating temperature: +25 °C	Operating temperature: +25 °C
Cooling type: Liquid	Cooling type: Liquid
Humidity range: 10 : 80 %	Humidity range: 10 : 80 %
Weight: 70 kg	Weight: 90 kg
Dimensions: 120 cm x 56 cm x 90 cm	Dimensions: 120 cm x 56 cm x 90 cm

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