

## Product

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## Stone Surface Dust Laser Cleaning Machine

The bonding force between the contaminant and the surface is mainly covalent bond, double dipole, capillary action, hydrogen bond, adsorption force and electrostatic force.

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## Product Details

### 1. Introduction

Stone Surface Dust Laser Cleaning Machine uses the difference in the absorption coefficient of a certain wavelength of laser energy between the substrate material and the dirt attached to the surface, so that the laser energy is fully absorbed by the attached dirt, which is thermally expanded or vaporized and volatilized, and is formed by vaporization. The steam flow drives away from the matrix material to achieve the purpose of cleaning. The requirement is that the absorption coefficient of the matrix material to the laser energy should be small, so that the matrix material will not be damaged. Therefore, the key to achieving safe and efficient cleaning is to select the appropriate laser wavelength and control the energy density.

### 2. Specifications

Model	ML-MF500I-LC	Maximum Power	5100W
Laser Power	500W	Weight	275KG
Cooling Way	Water Cooling	Working Temperature	5-40°C
Laser Wavelength	1064 nm	Laser frequency	1-50k HZ
Power Supply	1 Phase / AC220V	Laser source type	Fiber laser source
Dimension	600X1000X1000(mm)	Options	Portable/ Automation

### 3. Features

Stone Surface Dust Laser Cleaning Machine mainly uses laser beams to effectively remove the attachments on the surface of the object to be cleaned at a high speed. It saves time, labor, and water, and is safe and reliable. It has a wide range of applications and is easy to automatically control. Especially for the cleaning of fine structures such as stone carvings, stone carvings, various corners and other high-end stone, as well as high-end stone such as old stone cultural relics, the advantages of laser cleaning technology are unmatched by many traditional cleaning processes.

### 4. Comparison with traditional clean methods

Comparison	Laser Cleaning	Chemical Cleaning	Mechanical Grinding	Dry ice cleaning
Washing Method	non-contact cleaning	contact cleaning	Abrasive contact cleaning	non-contact cleaning
Harm to base material	None	Yes	Yes	None
Washing Efficiency	High	Low	Low	Mid.
Consumable	Power	Chemical Detergent	Abrasive paper, grinder, abrasive stone	Dry Ice
Washing result	Very good, very clear	Medium, uneven	Medium, uneven	Good, uneven
Precision Washing	Accuracy controllable. High precision	Uncontrollable, low precision.	Uncontrollable, medium precision.	Uncontrollable, poor precision.
Safety/Environment	No pollution	Chemical pollution	Dust pollution	No pollution
Operation	Easy to operate, portable or automation optional.	Complicated process, higher technical requirement of the operator. Pollution prevention measures required.	Need more time & manpower. Pollution prevention measures required.	Easy to operate, portable or automatic.
Investment	High investment on machine. But no consumable, low maintenance cost	Low investment on machine. But expensive consumables	Medium investment on machine. High man-power cost.	Medium investment on machine. High consumable cost.

### 5. Applications

It has been used in fields such as microelectronics, construction, nuclear power, aerospace, automobiles, medical care, and cultural relics protection. Such as mold industry, military equipment industry, precision machinery industry, shipbuilding and marine engineering industry, construction machinery and heavy industry, automobile manufacturing industry, electronics and semiconductor industry, nuclear power plant industry, building exterior wall and cultural relic protection industry, etc.

### 6. Laser cleaning machines for stone materials/stone cleaning



### 7. Pictures of Hero Laser







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