



## Mold Automatic Laser Cleaning Machine

### DESCRIPTION

Fiber laser cleaning machine is a high-tech product for metal surface cleaning. It is easy to install, autofocus, and simple to operate. It is a cleaning without chemical reagents, media, dust and water.

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- ◆ Laser Source Generator
- ◆ Laser Machine Parts
- ◆ Laser Machine Accesories
- ◆ Laser Machine Consumables

### PRODUCT DESCRIPTION

#### Production Introduction

#### System Features:

1. Unique spiral cleaning mode, the spiral series, scanning length and scanning width can be set by customers themselves, avoiding the zebra crossing of traditional laser cleaning, high cleaning efficiency, uniform cleaning interface, and no damage to the substrate;
2. Professional laser cleaning optical design, high damage threshold galvanometer lens, high-pass light rate and large focal depth field lens, to meet the long-term operation of high-power laser cleaning;
3. Special customized lasers and laser galvanometers, with fast cleaning speed,



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### PRODUCT RECOMMENDED



meet the application needs of various high-standard laser cleaning.



### Laser Cleaning Features:

1. Non-contact cleaning, no damage to the parts matrix;
2. Precise cleaning, which can realize selective cleaning of precise position and precise size;
3. No chemical cleaning solution, no consumables, safe and environmentally friendly;
4. The operation is simple, it can be powered on, and it can be hand-held or cooperated with a manipulator to realize automatic cleaning;
5. The cleaning efficiency is very high, saving time.

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### Production Parameters

Model	DPL-100W	DPL-200W	DPL-300W	DPL-500W
Pulse power	100W	200W	300W	500W
Maximum pulse energy	1.5-100MJ	1.5-100MJ	1.5-100MJ	1.5-100MJ
Frequency adjustable range	1 ~ 4000KHZ	1 ~ 4000KHZ	1 ~ 4000KHZ	1 ~ 4000KHZ
Pulse Width	4 ~ 500ns	4 ~ 500ns	8 ~ 500ns	8 ~ 500ns
Laser wavelength	1064nm	1064nm	1064nm	1064nm
Laser cleaning efficiency	10M/h	20M/h	30M/h	50M/h
Equipment power	6KW	7KW	8KW	9KW

### Production Application


Tire manufacturers around the world manufacture hundreds of millions of tires every year, and the cleaning of tire molds during the production process must be fast and reliable to save downtime. Traditional cleaning methods include sandblasting, ultrasonic or carbon dioxide cleaning, etc., but these methods usually have to be moved to the cleaning equipment after the high-heat mold is cooled for several hours, which takes a long time to clean and easily damages the accuracy of the mold. , chemical solvents and noise will also cause problems such as safety and environmental protection. Using the laser cleaning method, because the laser can be transmitted by the optical fiber, it is very flexible in use; because the laser cleaning method can be connected with the optical fiber to guide the light to the dead corner of the mold or the parts that are not easy to be cleaned, so it is easy to use; No gasification, so no toxic gas will be produced, which will affect the safety of the working environment. The technology of laser cleaning tire molds has been widely used in the tire industry in Europe and the United States. Although the initial investment cost is high, the benefits obtained in saving standby time, avoiding mold damage, working safety and saving raw materials can be quickly recovered. According to the cleaning test of the fiber pulse laser cleaning machine of Ultrafast Laser Technology Co., Ltd. on the production line of the tire mold industry, it only takes 2 hours to clean a set of large truck tire molds online. Compared with conventional cleaning methods, the economic benefits are obvious.

The anti-stick elastic film layer on the molds of the food industry needs to be replaced regularly to ensure hygiene, and the use of laser cleaning without chemical agents is also particularly suitable for this application.


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