



PERFECT MARK TECHNOLOGY

100 Watts Laser Paint Removal Cleaning Machine

Model: - PMT-100J



We Perfect Mark Technology are engaged into Manufacturing & Distribution of Industrial Marking & Traceability Solution.



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Introduction

The laser cleaning machine relies on the advantages of the MOPA structure and it adopts 100 watts JPT brand pulsed fiber laser source as the cleaning light source.

This MOPA type fiber laser source has the characteristics of independently adjustable pulsed width and frequency.

It can maintain a high and stable peak laser power output even when the pulse width and frequency are changed to adapt to a wide range of cleaning situations.

The portable laser head is small and light-weight, it can be used for a long time.

The button and handle are integrated design, it's very easy to use.

It has portable and integrated design, super integrated injection molding body, slow down attacking design, it is compressive, anti-drop and wear-resistant.

It adopts draw-bar box design, can be carried easily for high-speed railway or air shipment.



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Cleaning Samples





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Application

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Application

Applicable Materials:

It has a good cleaning effect on all kinds of metals, including: iron, carbon steel plate, stainless steel plate, steel rail, aluminum plate, die steel gear, steel pipe, copper alloy and many other materials.

It can be used to clean oxide layer, oil surface, stains, dirt, to remove surface plating and coating.

Applicable Industries:

Machinery processing, mould cleaning, cultural relics restoration, electronic circuits, food processing and many other industries.





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Features:-

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Features

- 1 Laser cleaning machine can be run offline and can be cleaned after power on.
- 2 Laser output spot size can be customized according to your demands. (default laser spot is 4mm).
- 3 The laser cleaning head is extremely light-weight, it's only 620g (without fiber cable), and can be operated by hand for a long time.
- 4 It adopts red light assisted focusing technology with national patent. It can adjust the focus position according to different focus lens.
- 5 Wireless remote control function can realize parameter setting and laser beam control at a long distance, and update parameters at any time.
- 6 It adopt draw-bar box design, the weight of the whole machine is 28 kgs, it can be delivered easily in high-speed railway or air shipping.
- 7 With super integrated injection molding body, slow down attacking design design, the machine structure is stable, wear resistance, shock resistance and drop resistance.



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Machine Details:-

1 JPT Broad Fiber Laser Source

The laser source is integrated in the cabinet, it can save space and is easy to carry. This MOPA type fiber laser source has the characteristics of independently adjustable pulsed width and frequency.



2 Laser Head

The laser head is portable and light-weight, the button and handle are integrated design, easy to use.

3 Field Lens

Fast speed, high light conversion rate.



4 Handheld Control Card

The control card is connected to the washing machine in a wireless manner. It can realize remote control of parameters, such as: scan shape, scan length, laser output power, frequency, pulse width and so on.



5 Switch Panel

For turning on and turn off the machine.





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6 Emergency Stop Switch

Stable performance, long service life.



7 Power Cable

One end is inserted into the power interface beside the cooling air duct, and the other end is connected to a 220V AC power supply.



8 Scroll Wheel

Convenient to move the machine to any place you want.





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Technical Specifications:-

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Technical Data

Product Name	100 Watts Portable Handheld Laser Cleaning Machine
Model	PE-100J
Focus Length	254mm
Scanning Width	170 mm
Scanning Speed	10000 mm/s
Output Working Method	Pulse / Continuous
Output Fiber Cable Length	5 Meters
Average Output Power	>100 Watts
Cooling Method	Air Cooling
Voltage	220 V
Max Power Consumption	<450 Watts



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Whether Anti-high Reflection	Yes
Working Temperature Range	PERFECT LASER 0 - 40°C
Storage Temperature Range	-10 - 60°C
Laser Cleaning Machine Size	617mm x 469mm x 291mm
Whole Machine Weight	28 kgs
Laser Head Weight	0.62 kgs



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Laser Source

Product Type	MOPA Laser Source
Brand	JPT laser source
Output Cable Length	5 Meters
Average Output Power	>100 Watts
Maximum Pulse Energy	1.5mJ
Frequency Adjustable Range	1-4000 kHz
Pulse Width	PERFECT LASER 2-500ns
Output Power Instability	<5%
Cooling Method	Air Cooling
Voltage	48V



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Maximum Power Consumption	<400 Watts
Environment Supply Current	>8A
Center Wavelength	PERFECT LASER 1064nm
Spectral Width@3dB	<15nm
Polarization Direction	Arbitrary
Whether Anti-high Reflection	Yes
Luminous Flux Diameter	4.0mm \pm 0.5mm, 7.5mm \pm 0.5mm (Customizable)
Power Adjustment Range	0-100%
Working Temperature Range	0 - 40°C
Storage Temperature Range	-10 - 60°C
Laser Source Size	350mm x 280mm x 112mm
Laser Source Weight	13.2 kgs



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Engineer Operation:-

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Engineer Operation

Clean Metal Rust



Clean Painting Oxide Layer





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