

HEAVY DUTY HAND-HELD FIBER LASER CLEANING MACHINE

TYPE | PXCL-HC



**Suitable for advancing
your business**

Mainly used in automobile manufacturing, mechanical processing, electronic processing, cultural relics restoration, mold industry, shipbuilding industry, food processing industry,

INTRODUCTION

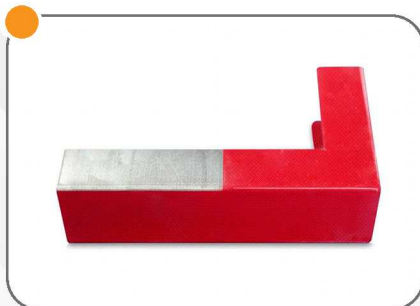
Pontax Hand-held laser cleaning machine uses high-frequency and high-energy laser pulses to irradiate the surface of the workpiece, so that the surface oil, rust or coating evaporates or peels instantly, and effectively removes the surface attachment or surface coating of the cleaning object at a high speed, so as to achieve the cleaning of the object. crafting process. It is characterized by no damage to the part matrix, no consumables, energy saving and environmental protection.

Hot application include:

Derusting the metal surface; Surface paint removal treatment; Surface resin, oil stains, stains, and dirt cleaning; Surface plating and coating removal; Pretreatment of welding surface/spraying surface; Removal of dust and attachments on the surface of the stone statue; Clean up the residue of rubber mold.

Mainly used in automobile manufacturing, mechanical processing, electronic processing, cultural relics restoration, mold industry, shipbuilding industry, food processing industry, petrochemical industry processing, petrochemical industry and other industries.

METAL LASER CLEANING DISPLAY

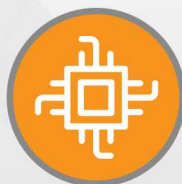


TECHNICAL DATA

CLEANING SYSTEM		
Content	Dual Axis	Single
Supply voltage	1000W and 1500W is Single-phase 220V± 10%, 50/60Hz AC 2000W is Three-phase 380V± 10%, 50/60Hz AC	
Out Method	(CW) Continuous Wave	
Working temperature	-10°C ~ 40°C	
Working environment humidity	≤80%	
Able to withstand laser average power	≤2000W	≤2000W
Langue	Chinese, Chinese Traditional, English, Russian, Japanese, Spanish, Korean, German, French	Chinese, English, Korean, Japanese, Russian, Traditional, French, Spanish, Israel
Operating mode	7 types: Straight line, rectangle, sine, double helix, circle, free mode, ring	1 type: Straight line mode
Ranging function	The setting range is 0-1000mm	none
Temperature measurement	The measured temperature is the internal temperature of the cleaning head, the upper limit of the temperature can be set, and the default is 60° C	none
Light passing rate	≥98%	
Laser power adjustment	10%-100% continuous gradient adjustable	
Laser frequency adjustment	1kHz-20kHz continuous gradual adjustment (support customization)	
Focal length	650mm 400mm / 500mm (custom made, Two weeks)	500mm
Washing head weight	<1.2Kg (Without QBH)	
Scan width	0-300mm	0-300mm
Scanning frequency	Not less than 300Hz	
Max. scanning line speed	Max.20m/s	
Vibration lens material	Quartz	
Mirror material	Quartz	
Field lens material	Quartz	
Screen	Cabinet standard 7 inches + cleaning head standard 2.8 inches	Cabinet standard 7 inches
Cable length	10 m (can customizable 20m)	10 m (20 m/30 m/50 m can be customized)

TOTAL POWER	
1000W	5.2KW
1500W	6.9KW
2000W	9.0KW

CLEANING COMPARISON						
Compare items	Laser cleaning	Chemical cleaning	Mechanical grinding	Dry ice cleaning	Ultrasonic cleaning	Blast cleaning
Cleaning method	Contactless	Contact	Contact	Contactless	Contact dip	Contact
Workpiece damage	No damage	Damaged	Damaged	No damage	No damage	Damaged
Cleaning efficiency	High	Low	Low	Low	Medium	Medium
Consumables	Just power up	Chemical cleaning agent	Sandpaper, Grinding wheel	Dry ice	Special cleaning agent	Special sand
Cleaning effect	Very talented High cleanliness	Generally Uneven	Generally Uneven	Excellent Uneven	Excellent Small clean area	Generally Uneven
Precise cleaning	Precise and controllable High accuracy	Can not control poor accuracy	Can not control Poor benchmark	Can not control poor accuracy	Cannot be specified Range cleaning	Can't clean dead corners
Safety/ environmental protection	Safe and pollution-free	Seriously pollute the environment	Polluted environment	No pollution	No pollution	Polluted environment
Manual operation	Handheld or automated	The process is complicated high personnel requirements	Time consuming Protective measures are required	Handheld or automated	Handheld or automated	labor-intensive
Cost input	Handheld or High initial cost low maintenance cost	Medium initial cost High cost of consumables	Medium initial cost High artificial consumables	Medium initial cost High cost of consumables	Low initial cost Medium cost of consumables	High initial cost High cost of consumables



HIGH
TECHNOLOGY



EXCELLENT
PERFORMANCE



PROFITABLE FOR
BUSINESS

PRODUCT ADVANTAGE

- Non-contact cleaning, without damaging the base part;
- Precise cleaning, can achieve precise location, precise size selective cleaning;
- Without any chemical cleaning solution, no supplies, safety and environmental protection;
- The operation is simple, it can be hand-held or cooperated with a robot to realize automatic cleaning;
- Ergonomic design, operation greatly reduced labor intensity;
- High cleaning efficiency, save time;
- The laser cleaning system is stable, almost no maintenance;
- Optional mobile battery module;



FIBER LASER SOURCE

The service life of fiber laser source is more than 10w hours, stable performance, low energy consumption, low failure rate, flexible fiber 5-20m, flexible and convenient, can realize outdoor operation, and is equipped with a rigid protective layer.



HAND-HELD LASER CLEANING HEAD

(DEPENDING ON THE CONFIGURATION, THE CLEANING HEAD IS DIFFERENT)

The hand-held galvanometer cleaning head has the advantages of adjustable light spot, extremely lightweight, first-class hand feel, and deeper melting depth, etc., and is suitable for different application scenarios of customers.



OPERATION FUNCTION

Friendly interface; rich in functions, the system constantly monitors the running status, monitors and collects the running status of lasers, chillers, and control panels; at the same time, it is available in nine languages: Chinese, English, Korean, Japanese, Russian, Traditional, French, Spanish, and Israeli; satisfy customer needs.



TOUCH SCREEN PANEL + BUTTON CONTROL

The operation is intuitive and convenient, has a clear understanding of the production situation and can respond to emergencies.

HEAVY DUTY HAND-HELD FIBER LASER CLEANING MACHINE

TYPE | PXCL-HC



Optical fiber
coiling area



Touch Screen Panel &
Button Control



Universal wheel
with lock



Side-opening
cabinet door &
Heat dissipation duct

Suitable for advancing your business

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