

Backpack Laser Cleaning Machine

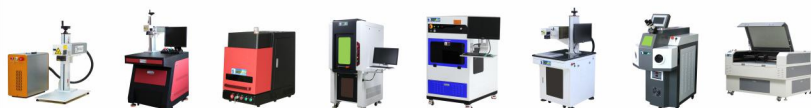
—MY-C50B



WISELY LASER



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- ★ 2D/3D Laser Marker
- ★ CO2 Laser Engraver/Cutter
- ★ Laser Welder
- ★ Laser Automation



Technical Configurations

Technical Parameters

Name	Laser Cleaning Machine
Model	MY-C50B / MY-C100B
Laser Power	50W / 100W
Max. Cleaning Width	10~100mm
Laser Wavelength	1064nm
Fiber Laser Source	JPT from China (Customized)
Scan Head	WISELY LASER
Controller	WISELY LASER
Life-span of Laser Source	100,000 hours
Adjustable Frequency	1~4000KHZ
Adjustable Q Pulse	2~500ns
Cooling Mode	Air Cooling
Cleaning Mode	8 Modes
Optical Fiber Cable Length	1m
Operation Environment	0°C~45°C
Power Stability (8h)	<±1.5%rms
Power Supply	Battery 10AH for 50W Battery 26AH for 100W
Dimension (L*W*H)	300*500*270mm
Package Size (L*W*H)	450*750*350mm
Net Weight	15kg for 50W 19kg for 100W
Gross Weight	30kg for 50W 35kg for 100W
Power Consumption	350W for 50W 600W for 100W
Optional Parts	Battery, Focal Lens, Protecting Glass, Fume Purifier, other customized Automation



Advantages

Comparison Items	Laser Cleaning	Chemical Cleaning	Mechanical Polishing	Dry Ice Cleaning	Ultrasonic Cleaning
Cleaning Method	Laser Non-contact Type	Chemical Cleaning Solution, Contact Type	Mechanical Sandpaper Contact Type	dry ice non-contact type	cleaning solution contact type
Workpiece Damage	NO	Yes	Yes	Yes	Yes
Cleaning Efficiency	High	Low	Low	Medium	Medium
Consumables	Energization Only	Chemical Cleaning Solution	Sandpaper, grinding wheel, abrasive stone, etc.	dry ice	special cleaning solution
Cleaning Effect	Excellent Cleanliness	Average Non-uniform	average non-uniform uniform	excellent non-uniform	excellent small cleaning scope
Precise Cleaning	Precise and controllable cleaning. High precision	Uncontrollable Low Precision	uncontrollable average precision	Uncontrollable Low Precision	Unable to define scope of cleaning
Safe/Environment- friendly	No Pollution	Chemical Pollution of the environment	pollution of environment	no pollution	no pollution
Manual Operation	Simple Operation, Hand-held or Automatic Operation	Complicated Process and procedures, posing high requirements on operators and requiring pollution prevention measures	complicated process and procedures, posing high requirements on operator and requiring pollution prevention measures	simple operation hand-held or automatic operation	simple operation, but manual addition of consumables is required
Cost Input	High initial investment No consumables Low maintenance Cost	Low initial initial investment and extremely high cost for consumables	high initial investment and high cost for consumables and labor	medium initial investment high cost for consumables	low initial investment and medium cost for consumables

Shipment

Within 5-7 working days after receiving your payment.

Warranty

All machine have a warranty period of 12 months since the production date.

Applications

Features

- 1) Backpack systel, supply with battery, compact structure and light weight, suitable for outdoor cleaning.
- 2) Hand-held operation, light scanning head, easy to operate for a long time.
- 3) Save Energy, protect the environment, no secondary waste.
- 4) Non-contact cleaning, no damage on matrix material after cleaning.
- 5) Off-line operation, no need computer and any edition for the file.
- 6) 8 Modes for different cleaning objects and cleaning result, easy to swift the modes quickly.
- 7) Cleaning width can be adjustable from 10-100mm easily.
- 8) No consumption, almost free maintenance.
- 9) Friendly safety protecting system, the laser will be locked if the laser stops more than 120s, to press 2 buttons at the same time to reactivate the laser.

Application

- 1) Removal of the coat layer on the surface of metal or glass, and quick paint removal.
- 2) Quick removal of rust and various oxides.
- 3) Removal of grease, resin, gum, dust, stains and production residues.
- 4) Surface roughening of metal and glass.
- 5) Removal of paint, rust, oil stains, oxides and residues produced by welding before welding or adhesion.
- 6) Removal of oil stains of precision parts after production and processing.
- 7) Quick cleaning for maintenance of nuclear power parts.
- 8) Oxide treatment, paint removal and rust removal during the production or maintenance of aeronautic and astronautic weapons and
- 9) Metal surface cleaning in small space.
- 10) Cultural relic cleaning, rock cleaning, building exterior surface cleaning, steel structure anti-corrosion engineering.
- 11) Mold cleaning, such as tire mold, electronic mold and fold mold.

Samples

