https://www.mactrontech.com

MACTRON®
Just for better laser

DONGGUAN MACTRON TECHNOLOGY CO., LTD.

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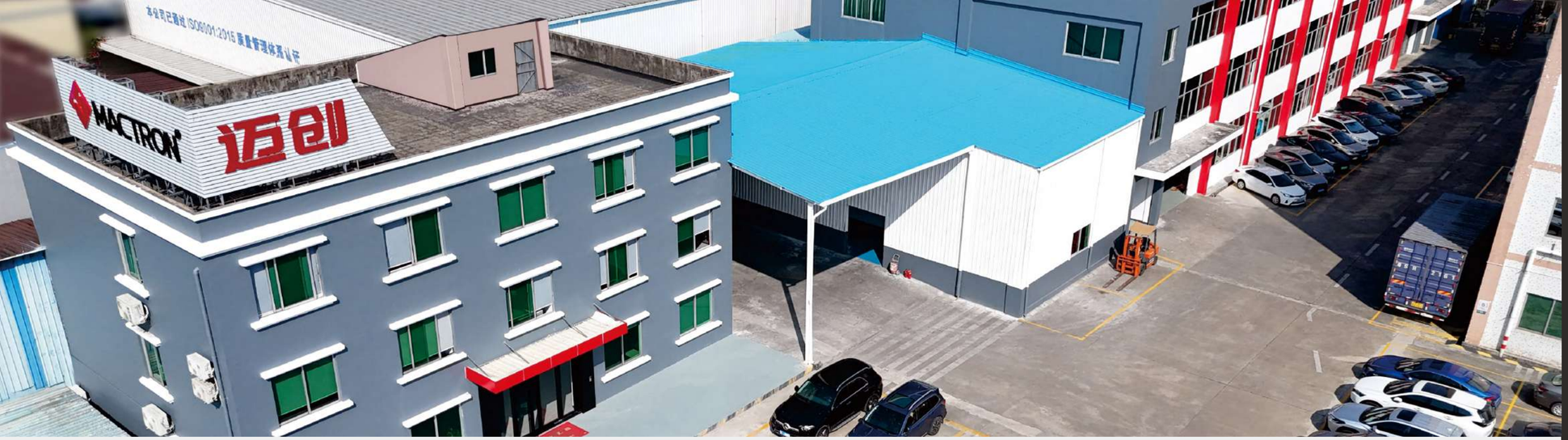


Employees	50+
Covered Area	6,000m²
Product Series	5 Series
Market Coverage	30+ Countries
Customers	8,000+
Certificates	40+
Satisfaction	> 98.5%

Hello! We are Mactron

Founded in 2008, MACTRON is an advanced manufacturer that provides superb quality industrial-grade laser solutions, mainly involved in laser marking, laser welding, laser cleaning, laser engraving & cutting and other applications. MACTRON always adheres to the principle of "pursuing the ultimate detail with European industrial manufacturing standards", and relies on the advantages of China's supply chain to manufacture industrial laser equipment with high stability, practical and chic appearance.

With Europe, North America, Southeast Asia, and Australia as the core markets, MACTRON pays attention to user needs, creates top-notch performance, and provides customized services, with a business scope covering more than 30 countries and regions, becoming a stable and reliable partner for customers.

MACTRON CULTURE

Values

Integrity.
Pragmatism.
Innovation.
Win-win Cooperation.

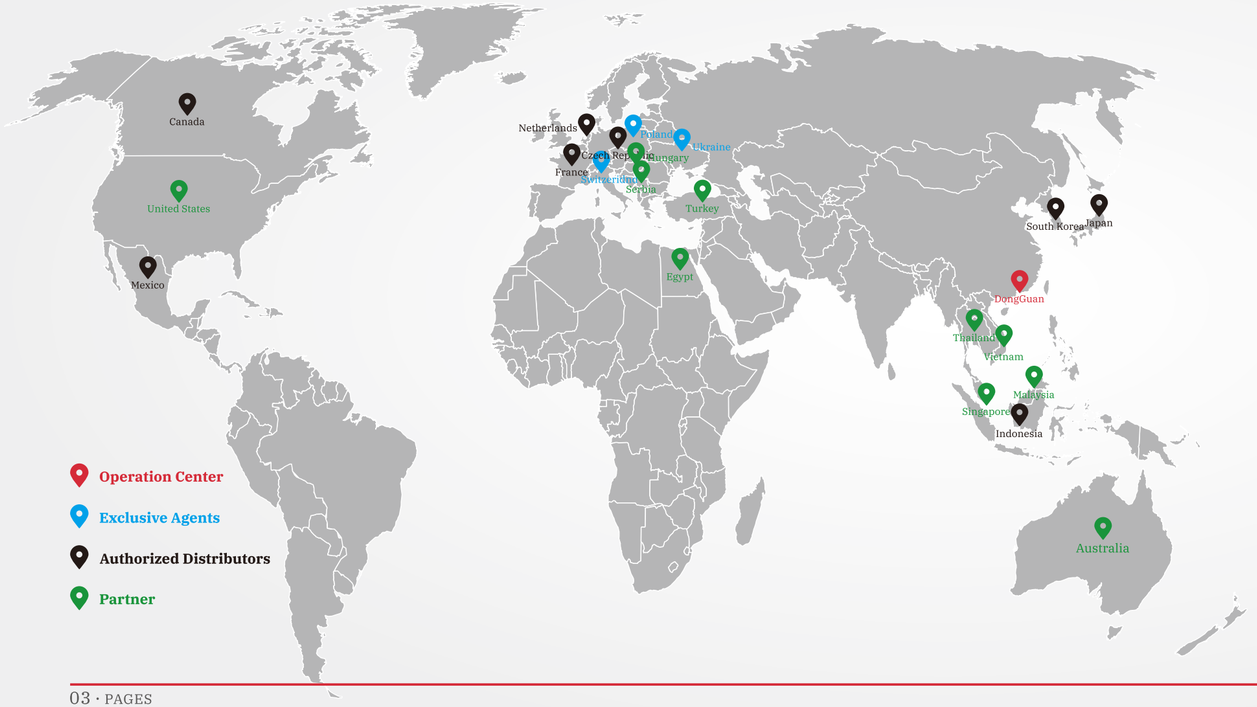
Mission

Dedicated to the customers.
Bring honor to staffs.
Add value to society.

Vision

Being a laser intelligent equipment service provider trusted by customers.

GLOBAL NETWORK



PATENT CERTIFICATION

- CE Certification
- Food and Drug Administration
- Technischer Überwachungsverein
- Regulatory Compliance Mark
- SGS Certification
- ISO9001:2015 Quality Management System
- 17 Patents
- 6 Software Copyrights
- High-tech Enterprise

MACTRON®

CONTENTS

MACTRON®

Laser Marking Series

Just for better Laser

Scan to Download Brochure

Fiber Laser Marking Machine

Easy to learn and use, perfect for beginners and experienced users.

Industrial grade design, multiple models are available.

Complies with EU safety regulations (performance level D).

Long lifetime, producing lasting results even after years of use.

Freely form any intelligent automated production line.

No consumables and pollution, low maintenance.

MT-F-WS

MT-F

MT-FP

MT-SF

MT-OL-F

Fiber Laser Marking Machine

Introduction

The fiber laser marking machine has high quality and high performance. Based on market demand, the machine is equipped with core optical devices, including fiber laser and scanning galvanometer imported from world-famous brands.

They enhance the performance and stability, and greatly lower the failure rate. Marking has non-touched process, permanent effect, humanized operation, and stable running, lifetime up to 100,000 hours. The series is armed with our self-developed high-speed marking control card and powerful software, compatible software output of AutoCAD, CorelDRAW, AI, etc. It can realize automatic edition and correction of characters, signs, graphs images, bar codes, two-dimensional codes, and automatically increased serial numbers.

Applications

Applicable Materials:

Fiber laser marking machines are exceptionally versatile and can mark a wide range of materials with precision and clarity. They can mark metals such as stainless steel, aluminum, titanium, copper, brass, and alloys. They can also mark various non-metallic materials including plastics (ABS, polycarbonate, nylon), ceramics, rubber, silicon wafers, and some types of composites.

Applicable Industries:

This series of machines can satisfy many marking applications, such as electronics, food and beverage, pharmaceutical, tobacco, hardware, packaging, building materials, lighting, cosmetics, kitchen & bathroom, jewelry, medical apparatus and instruments, auto spare parts, batteries, and other industries.

MACTRON®

Sample Display

Jewelry Industry

Circle Necklace

Ring

Medical Industry

Scalpel

Electronics Industry

Charger

E-cigarette

Automotive Industry

Helical Gear

Hardware Industry

Bicycle Accessories

Mold Industry

Mold Date Stamp

Pet Products

Dog Tag

Lighting Industry

Gobos

Crafts Industry

Metal Plate

Aerospace Industry

Flight Control Panel

Household Products

Tumblers

Hip Flask

Other Industries

Wallet

CO2 Laser Marking Machine

Long lifetime, producing lasting results even after years of use.

Freely form any intelligent automated production line.

Suitable for most non-metal materials.

Easy to learn and use, perfect for beginners and experienced users.

Industrial grade design, multiple models available.

Complies with EU safety regulations (performance level D).

MT-RF-WS

MT-RF

MT-RF

MT-RFP

MT-SC

MT-OL-C

CO2 Laser Marking Machine

Introduction

This series has high stability and anti-intervention industrial computer system as well as a highly precise lifting platform. It can work for a continuous 24 working hours in high stability, high precision, and high speed. Unlike conventional marking methods like inkjet or label, the CO2 laser marking machine can operate without contact and has low maintenance.

The CO2 laser marking machine adopts the industrial standardization design. This series is fitted with full set of imported metal-sealed radiation frequency Co2 lasers, and equipped with high speed scanning galvanometer and extending focusing system. It supports automatic coding, print serial numbers, batch numbers, dates, barcodes, QR codes, automatic jump numbers, etc.

Applications

Applicable Materials:

CO2 laser marking machines can mark a variety of non-metallic materials and some metal products, such as bamboo products, wood, paper, ABS, PVC, epoxy resin, acrylic, leather, glass, building ceramics, rubber and so on.

Applicable Industries:

CO2 laser marking machines are used in a variety of industries, including medical devices and pharmaceuticals, automotive, electronics, plastics, clothing, wood, artwork, printing and packaging, and more.

MACTRON®

Sample Display

Packaging Industry


Wine Cork


Iron Box


Water Bottles

Paper Box

Blister Pack

Clothing Industry


Leather Hollow


Denim Jacket

Crafts Industry

Greeting Cards

Wooden Products


Ornaments

Makeup Industry


Makeup Sponge

Other Industry


Square Plate


Passport


Watch Strap

Tumblers

UV Laser Marking Machine

Easy to learn and use, perfect for beginners and experienced users.

Industrial grade design, multiple models are available.

Small spot, ultra-fine and high-contrast marking.

Complies with EU safety regulations (performance level D).

Damage-free marking, suitable for sensitive materials.

Freely form any intelligent automated production line.

MT-U-WS | MT-UV | MT-UV | MT-UVP | MT-SU | MT-OL-U

UV Laser Marking Machine

Introduction

This series is specially designed for complex and cold laser marking of nonreactive materials at other wavelengths, it adopts 355nm ultraviolet laser source and has a small spot diameter, which can provide unparalleled micro marking quality and accuracy on various materials.

UV laser marking machine has a small heat-affected area and can effectively avoid material damage. It is suitable for ultra-fine marking, engraving, and cutting of materials with a high thermal radiation response, and applies high-contrast markings even on sensitive products. As the vector scanning laser impacts the product's surface photo-chemically and with reduced peripheral heating, the heat effect of laser marking on substrates and materials can be kept to a minimum, which is ideally suited for the high-contrast laser marking of sensitive and delicate materials, such as glass, certain plastics (silicone, white polyamides) or ceramics.

Applications

Applicable Materials:

UV laser marking machine is suitable for marking on metal and non-metal materials, especially for highly sensitive materials. It can process plastics (such as ABS, PVC, and acrylic), metals (like stainless steel, aluminum, and titanium), glass, ceramics, semiconductors, and some polymers and composite materials.

Applicable Industries:

UV laser marking machine is mainly used in precision processing of high-end market, especially for the surface of packaging bottles of cosmetics, drugs, food and other polymer materials; automotive cable processing; medical catheter and insulin pump marking; flexible PCB marking and scribing, silicon and wafer micro hole, blind hole processing; LCD glass QR code marking; glass wares punching; metal surface coating marking, plastic buttons engraving, and so on.

Sample Display

Medical Industry

Medical Syringe

Pills

Electronics Industry

Heat Press Machine

Adapter

Automotive Industry

Plastic Component

Packaging Industry

Capsule

Medicine Box

Baby Products

Baby Bib

Door Stopper

Bathroom Industry

Wash Basin

Crafts Industry

Jade

Lighting Industry

Touch Switch

Other Industry

Bearing

Cables

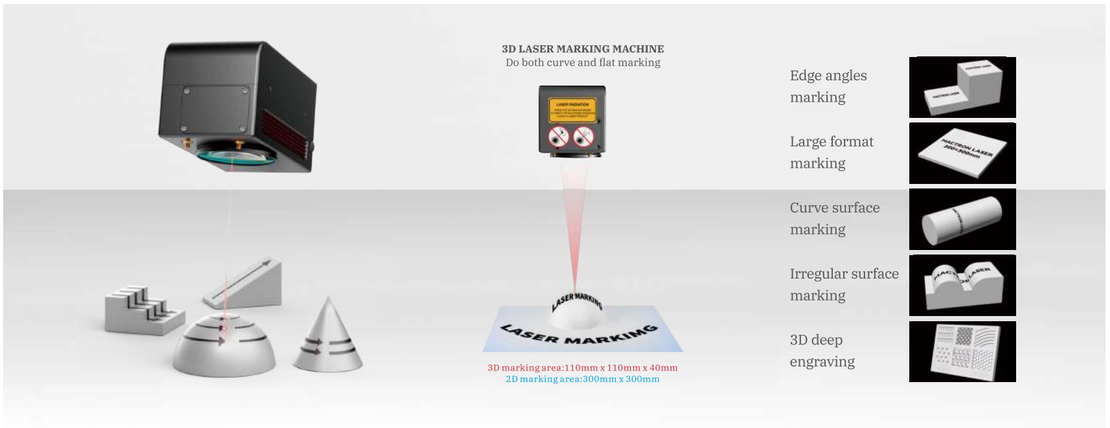
Ear Tag

Optional Accessories

3D Laser Scanning System

The 3D laser scanning system achieves high precision and zoom by integrating functions such as data acquisition, data processing, electronic control, mechanical follow-up, optical imaging, optical compensation, and scanning. It has the advantages of fast response speed, faster and more stable zoom, strong anti-interference ability, good linearity, high repeatability, and stable work for a long time. The 3D laser scanning system adopts an overall structure, cooperates with the marking control card and 3D software, and can realize laser applications with small focal spot, large-scale scanning and high.

Based on all models, updated to the 3-axis dynamic focus control system, and with powerful image processing software to achieve precision large-format laser marking, deep engraving, relief engraving, curved surface marking, odd-shaped surface engraving, etc.



Sample Display


Charger


Medicine Bottle


Mouse


Bicycle Accessories


Bowl


Coin


Blow Mould


Badge


Mould Texturing


Wine Glass

Optional Accessories

Vision System

High-precision CCD camera positioning and large-scale graphic visual recognition system, which can be integrated with different laser sources such as fiber, CO2, UV, etc.

It can not only automatically locate products for marking and automatic detection of defective products, but also realize large-scale visual positioning and marking through the moving platform.

Conveyor System

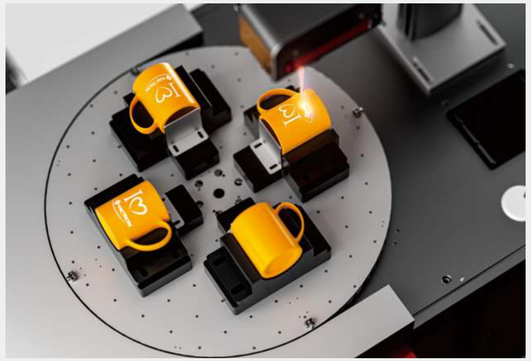
It is mainly designed for production lines.

It can not only automatically load and unload materials, but also can be customized according to different product sizes, greatly improving production efficiency and meeting the needs of fully automated production.

Rotary Fixture

This series can be equipped with different rotary or cutting plate extra accessories to meet the needs of diverse objects.

For example, 360° rotating chuck can automatically print the required product marking along the circumference of various cylindrical workpieces.



Electric X/Y Platform

Equipped with X or XY moving platform, it can effectively solve the problem of the limited marking range of traditional machines.

It's suitable for large-format engraving, greatly improves work efficiency. Easy to be controlled by the software automatically. allows devices to be programmed. Customization is available.

MACTRON®

Laser Welding Series

Just for better Laser

Scan to Download Brochure

YAG Laser Welding Machine

Industrial grade design, multiple models available.

Precise control, small spot, high positioning accuracy.

Small heat-affected zone and deformation, smooth and beautiful weld.

Suitable for metals, alloys, and even some plastics.

No pollution, easy to maintain.

Can realize spot welding, butt welding and stack sealing welding.

MT-W-YM

MT-W-YA

MT-W-J

MT-W-YML

YAG Laser Welding Machine

Introduction

The YAG laser welding machine adopts ergonomic design, stable performance, easy to operate, can be moved freely, and can work continuously 24 hours without fatigue. This series fuses the special welding wire to the damaged part through the high thermal energy generated by the laser, and is firmly welded to the original base material.

It can complete automatic or semi-automatic spot welding, butt welding, stack welding and seal welding, with high hardness after welding, no cracks or sand holes.

Applications

Applicable Materials:

It can meet the welding of various gold, silver, platinum, copper, titanium, stainless steel, and other metal materials. As well as the welding of copper-nickel, nickel-titanium, copper titanium, titanium molybdenum, brass copper, low carbon steel copper, and other dissimilar metals.

Applicable Industries:

Suitable for batteries, electronic components, jewelry, watches, mobile phones, communications, precision equipment, hardware products, auto parts, medical equipment, high-end furniture, and sporting goods.

MACTRON®

Sample Display

Jewelry Industry

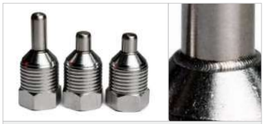
Jewelry Accessories

Bracelet

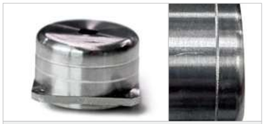
Ring

Earring

Electronics Industry



Sensor Probe



Magnetic Electronic Accessories

Eyewear industry

Glasses Frame

Hardware Industry

Tee Pipe

Mold Industry

Mold Filling Sand Hole

Medical Industry

Medical Accessories

Medical Accessories

Other Industries

Ice Cube

CW Fiber Laser Welding Machine

Industrial grade design, multiple models available.

Precise control, high positioning accuracy.

SIEMENS electronic system, durable and contact.

Compatible with automation systems.

Suitable for thicker materials and deep penetration.

Complies with EU safety regulations (performance level D).

HEP

FASTWELDER W-FH

MT-W-F-EX

MT-W-F-WS

MT-W-F-WSP

CW Fiber Laser Welding Machine

Introduction

The continuous optical fiber laser welding machine is consist of welding body, welding working table, water chiller and controller system etc. This series of equipment is 3-5 times faster than the traditional optical fiber transmission laser welding machine. It can be used for flat, circumference, line type products and non-standard customized production lines.

The fiber laser has the characteristics of high beam quality and high energy. In the continuous welding condition, compared with the same power YAG laser, it has the characteristics of deep welding depth and good welding strength. The equipment also has low consumable parts, long life, low failure rate and other characteristics.

Applications

Applicable Materials:

The continuous optical fiber laser welding machine is easy to handle thick metal / thin metal / high reflection metal, including galvanized sheet, aluminum, alloy, stainless steel and other materials.

Applicable Industries:

This series is mostly suitable for metal fabrication shops, construction and piping, maintenance and repair, automotive, advertising, farm, furniture and appliances, medical instruments, aerospace & transportation.

MACTRON®

Sample Display

Electronics Industry

Solenoid Valve Pilot

Hardware Industry

Bearing

Mold Industry

Shoe Mold

Sports Equipment Industry

Bicycle Accessories

Building Materials Industry

Window Frame

Bracket Base

Automotive Industry

Gear

Wheel Hub

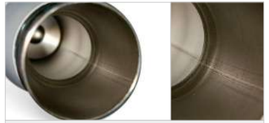
Medical Industry

Pacemaker

Household Products

Washing Machine Inner Wall

Oven Inner Wall



Thermos Bottle

QCW Laser Welding Machine

Two work modes: continuous and pulse.

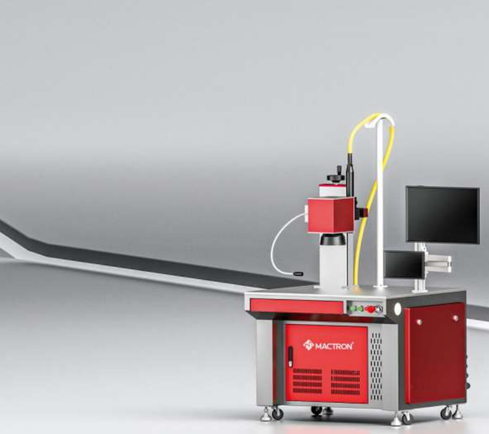
Provide peak power up to 10X average.

Offer pulse energy up to 240J.

Can realize spot welding, butt welding and stack sealing welding.

Suitable for metals, alloys, and even some plastics.

Cost-effective and productive, lower maintenance cost.



MT-W-Q/P

MT-W-Q/P-EX

MT-W-Q/P-WS

MT-W-Q/P-WSP

QCW Laser Welding Machine

Introduction

Fiber QCW laser welding machine adopts QCW fiber laser, which can work simultaneously in continuous and high peak power pulse mode to complete the processing requirements of welding or cutting, which greatly improves the processing speed and production efficiency.

The machine is equipped with an integrated laser scanning control system and high-speed beam splitter, combined with the automatic production system, which can realize high-speed multi-channel welding. It is mainly used for welding 3C precision devices, medical endoscopes, precision motors of mobile phones, battery pole pieces, etc., and can be used for fine cutting of metal and non-metal. The laser mode can be customized according to different core diameters, to meet the different processing needs of customers.

Applications

Applicable Materials:

It can meet the welding of various metals, alloys, steel, kovar alloy and other same materials, and also can meet the welding of copper nickel, nickel titanium, copper titanium, titanium molybdenum, brass copper, low carbon steel copper and other dissimilar metals.

Applicable Industries:

It is mainly used for welding 3C precision devices, medical endoscopes, precision motors of mobile phones, battery pole pieces, etc., and can be used for fine cutting of metal and non-metal. The application involves optical communications, IT, electronics, batteries, instruments, hardware and other fields.

MACTRON®

Sample Display

Watch Industry

Watch Accessories

Watch Component

Medical Industry

Dental Handpiece Accessories

Surgical Contra-Angle

Aerospace Industry

Drone Accessories

Drone Accessories

Hardware Industry

Precision Parts

Metal Parts

Electronics Industry

Pressure Sensor

Electronic Components

Battery Industry

Battery Pole Piece

FPC Connection Piece

MACTRON®

Laser Cleaning Series

Just for better Laser

Scan to Download Brochure

Laser Cleaning Machine

Industrial grade design, multiple models available.

Non-contact cleaning, Little damage to materials.

Precise positioning cleaning, high flexibility.

No chemicals, safe and environmentally friendly.

Easy to integrate with automation system.

Stable and minimal maintenance required.

MT-CL-CW

MT-CL MT-CL-P MT-CL-H

Laser Cleaning Machine

Introduction

Laser cleaning is a new non-contact surface cleaning technology, which mainly uses laser beam to act on the surface of the workpiece, so that the surface stains, oxides or coatings can be evaporated and gasified or thermally expanded in an instant, so as to achieve the effect of surface cleaning and purification. Customers can preset the cleaning mode through software, and directly switch the mode without adjusting parameters.

It meets the cleaning requirements of complex shapes and fine positioning in the industrial processing field, and achieves higher cleanliness cleaning effects and lower overall cost production benefits.

Applications

Applicable Materials:

Laser cleaning machines are highly effective tools for removing contaminants and layers without damaging the base material. They can clean metals such as steel, stainless steel, aluminum, and copper. Moreover, it's suitable for cleaning non-metallic materials such as wood, stone bricks, ceramics and some plastics.

Applicable Industries:

Laser cleaning machines have a wide range of applications and strong pertinence. It is suitable for metal mold rust removal, paint peeling, wrapper removal, pre-treatment of parts before painting, aviation parts cleaning, restoration and protection of historical relics, etc. It plays an important role in automobile manufacturing, semiconductor chip manufacturing, precision parts manufacturing, military equipment, aerospace, building exterior walls, cultural relics protection, circuit boards and other fields.

Sample Display

Automotive Industry

Brake Disc

Hardware Industry

Ring Magnet

Weld

Mold Industry

Mold

Other Industries

Railway Tracks

Mold Industry

Rubber Mold

Automotive Industry

Wheel Hub

Tyre Mould

Engine Piston

Other Industries

Machinery Parts

Household Products

Frying Pan

Furniture

Hardware Industry

Oxide Layer

Building Materials Industry

Soot Wall

Other Industries

Cultural Relics

Optional Accessories

Industrial Robot

Industrial robot adopts modular professional design, integrating industrial laser head, six-axis manipulator, and special workbench. The industrial robot has a compact and smooth design, high-density integration, and stable operation. It only needs to be set parameters and motion trajectories to complete precision processing.

In large-scale production, it can replace 2-4 operators, and can effectively control the production volume and product defect rate, reduce labor costs and waste of resources. The industrial robot has strong applicability, and can provide different installation methods(ground, tilt, suspension) according to the production scene.

The industrial robot can realize the automated upgrade operation of laser welding, and laser cleaning in the industrial processing field, including welding robots, and cleaning robots.

HEP Welding Station HWS-D

The HEP welding workstation is designed based on the HEP laser welding machine. It is a multifunctional mobile welding workstation that integrates welding machine, wire feeder, hydrogen/argon gas cylinder and related welding tools, fixture storage, 3D welding table, safety protection, smoke purification, etc.

It is particularly suitable for independent, lightweight, diversified welding working modes, and small-volume, small-batch precision welding parts. For the needs of flexible installation of different tooling fixtures and welding needs in different venues, the HEP welding workstation will be the best choice.

Recommended combination: HEP laser welding machine, automatic wire feeder, welding fixture, fume purifier, etc.

Optional Accessories

Wire Feeder

MACTRON wire feeders provide powerful wire feeding performance and can be used with laser welding machines to meet the welding needs of different materials; its mechanical structure ensures a long service life.

It has automatic wire feeding and retraction functions, speeds up to 6m/min, and easy control of parameters, which can improve welding efficiency and quality.

Multifunction Laser Welding Gun

Comfortable and easy-to-use laser gun with built-in swing welding function. Multifunctional use, including welding, cleaning and cutting functions, meets various processing needs.

- **Welding**

- **Cutting**

- **Cleaning**

Max. Scan Width: 80MM