



GRENTSUN
Think Along Your Lines 吉瑞祥

GRENTSUN LASER CODING

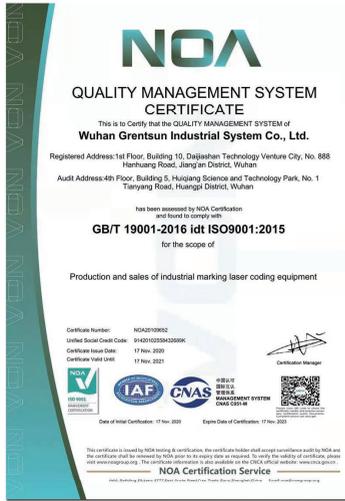
ABOUT US

Wuhan Grentsun Industrial System Co., Ltd. Is a reliable partner of global product identification and anti-counterfeiting traceability solutions, with a full range of innovative and mature laser, ink-jet and anti-counterfeiting traceability and technologies. We integrated R&D, production, sales and service, provide comprehensive solutions, ensure product quality and safety, and comply with regulations and market requirements. Founded in 2010, the company advocates and subscribe to the business philosophy and social philosophy of "information security, allowing users to consume with confidence" . Relying on the strong scientific research capability of Huazhong University of Science and Technology, it has developed industrial fiber lasers, carbon dioxide lasers and ultraviolet laser products, integrated the latest visual positioning and visual detection and labeling technology, applied anti-counterfeiting traceability technology, food and beverage, bio-medicine and auto parts tag of.

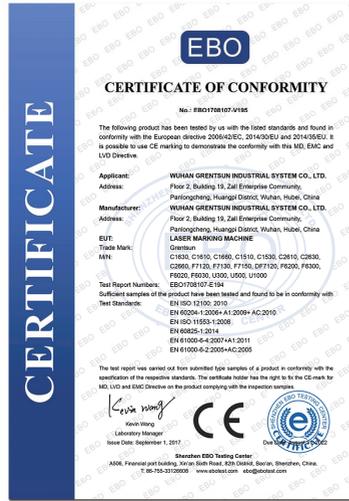
Anti-counterfeiting and anti-counterfeiting fields such as daily chemicals, cable ducts, building materials, electronics, aerospace, hardware tools, etc. Grentsun has mastered the application experience in various industries, and it committed to providing users with stable and reliable laser coding and visual inspection solutions and services, helping modern enterprises to continuously improve product quality assurance. After 12 years of development, the products are exported to more than 30 countries such as the United States, Canada, Germany, Italy, France, the United Kingdom, Saudi Arabia, Russia, South Korea, the Philippines, Malaysia, India, Bangladesh, Brazil, Argentina, Uruguay and other countries.



Qualification certificate



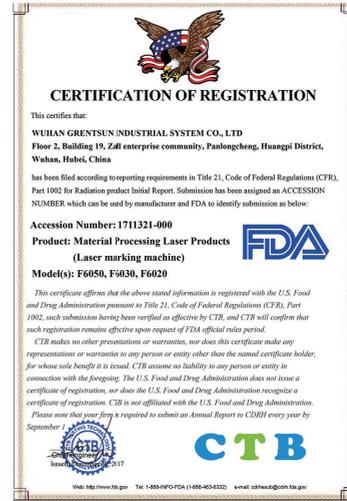
ISO9001
质量管理体系认证



CE认证



RoHS认证



FDA认证



高新技术企业证书
湖北省激光行业协会理事单位

Part of the patent certificate



GRENTSUN GSL3000 Series

Co₂ Laser Marking Machine

9.3um laser wavelength

For thinner plastic materials, guarantee laser coding will not penetrate the sample.

10.2um laser wavelength

For the use of laminated carton products, no foaming or edge curling after laser marking

10.6um laser wavelength

Most common laser wavelength for uncovered film carton and thicker plastic material.



GRENTSUN GSL3000 Series



Model

GSL3130、GSL3160

Power

30W、60W



Accessories

Imported high-performance laser
German technology high-performance galvanometer scanning system
Self-developed GRENTSUN control software



Application industry

Suitable for online marking of most non-metallic materials, widely used in food, beverage, cosmetic, pharmaceutical and extrusion processing industries, etc.



Characteristic

- Fast speed, stable system, perfectly adapt to the assembly line;
- Touch screen operation, convenient and quick data editing;
- Long service life, continuous work can reach more than 45,000 hours;
- Adopt high-quality carbon dioxide laser tube, lower power consumption;
- Perfect after-sales system, one-stop installation, commissioning, training, and after-sales service.

Marking effect



GRENTSUN GSL6000 Series

Fiber Laser Marking Machine

1064nm laser wavelength

For use on tough plastic and metal products, it can achieve ultra-high contrast and perfect laser printing



GRENTSUN GSL6000 Series

Model

GSL6120、GSL6130、GSL6150、GSL6210

Power

20W、30W、50W、100W

Accessories

Imported/domestic high-performance ultraviolet laser, German technology high-performance galvanometer scanning system, self-developed GRENTSUN control software

Application industry

It is suitable for online marking of most metal materials, and is widely used in collection into circuit chips, PVC and PE pipes, industrial bearings, aerospace vehicles parts, various auto parts, home appliances, hardware tools, molds, wires and cables, graphics and texts marking in many fields such as food packaging, jewelry, tobacco and military and mass production line operations, etc.

Characteristic

- Fast speed, stable system, perfectly adapt to the assembly line;
- Touch screen operation, convenient and quick data editing;
- Long service life, continuous work can reach more than 100,000 hours;
- Adopt high-quality full power fiber laser source, lower power consumption;
- Perfect after-sales system, one-stop installation, commissioning, training, and after-sales service.

Marking effect



GRENTSUN GSL9000 Series

UV Laser Marking Machine

355nm laser wavelength

For laser marking of polymer plastic materials, the laser with this wavelength is a cold light source, and the marking process will not damage the material and no smoke is produced.



GRENTSUN® GSL9000 Series

Model

GSL9103、GSL9105、GSL9110

Power

3W、5W、10W、15W、20W

Accessories

Imported/domestic high-performance ultraviolet laser
German technology high-performance galvanometer scanning system
Self-developed GRENTSUN control software

Application industry

It is suitable for online marking of most metal and non-metal materials, and is widely used in the high-end market of ultra-fine processing, pharmaceuticals, biological products, high-end food, cosmetics, electronic components, gifts, communication equipment, building materials, etc.

Characteristic

- Small spot, high beam quality, perfectly adapt to the assembly line;
 - Touch screen operation, convenient and quick data editing;
 - Galvanometer-type high-precision marking head, ultra-fine and perfect marking;
 - Long service life, continuous work can reach more than 20,000 hours;
- Adopt high-quality imported laser core module, lower power consumption;
- Perfect after-sales system, one-stop installation, commissioning, training, and after-sales service.



Marking effect



GRENTSUN GSL Static Marking Series

Laser wavelength: 1064nm

For the use of hard plastic and metal products, ultra high contrast perfect lasercodes can be achieved.



Static marking series



Model

F6020、F6030、F6050、F6100

Power

20W、30W、50W、100W



Accessories

Imported / homemade high performance Fiber laser
German high performance vibrating mirror scanning system
GRENTSUN control software

Application industry

It is suitable for on-line marking of most metallic materials.
It is widely used in integrated circuit chips, PVC and PE pipes,
household appliances, hardware, wire and cable, food packaging
and so on.



Characteristics

- 1.Fiber laser marking machine, Portable design, easy to move equipment, air-cooling, compact machine, Perfect output beam quality, high reliability, no consumables, maintenance-free.
- 2.Long life Working, the international latest, most reliable structure, small size, power consumption is small, no high-voltage without large water-cooled system.
- 3.Close to the ideal beam, USB interface, output control, optical scanning system, laser repetition rate high, high-speed without distortion.



Marking effect



GRENTSUN GSL Static Marking Series

Laser wavelength: 1064nm

For the use of hard plastic and metal products, ultra high contrast perfect lasercodes can be achieved.



STATIC MARKIN SERIES



Model

F6200、F6300、F6500

Power

20W、30W、50W

Accessories

Imported / homemade high performance Fiber laser
German high performance vibrating mirror scanning system
GRENTSUN control software

Application industry

It is suitable for on-line marking of most metallic materials.
It is widely used in integrated circuit chips, PVC and PE pipes,
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Marking effect



GRENTSUN Handheld Laser Marking Machine

Handheld Laser Marking Machine

GRENTSUN handheld fiber laser printer uses fiber laser to output laser, and then achieves marking function through ultra-high-speed scanning galvanometer system. Portable mobile marking, unique appearance, 8-inch industrial display screen, easier touch screen operation, three red light positioning system, more convenient focus positioning, red light marking preview, pointing to where to hit, adjustable joystick to stabilize the object, Focusing is more convenient, marking speed is fast, high precision, stable performance and other advantages. It is widely used as a marking machine for various metal and non-metal surfaces.

With the development of laser marking technology, more and more manufacturers choose laser marking on their products. For example: Industrial bearings, gears, various auto parts, computer accessories, clocks, electronic and communication products, home appliances, wires and cables,



food packaging, jewelry, tobacco and other multi-field graphics and text marks. Its materials include metals such as gold, silver, copper, aluminum, and stainless steel, and non-metallic materials such as ceramics, PVC, plastics, epoxy resin, and leather.

GRENTSUN Handheld Laser Marking Machine



Product size

Chassis: 244*188*180mm
handpiece: 300*120*271±32mm



Electricity demand

External power supply 220V Built-in battery
1200ma



Marking range

Standard configuration 115*115mm (optional according
to requirements)



Print range

Text, number, barcode, two-dimensional code, pattern
graphics, production date, etc.

Characteristic

The whole machine only weighs 6KG, the body is
compact, the battery version can meet any outdoor
printing needs, comes with editing screen,
handheld

& desktop dual-use, three red light positioning
system printing is more accurate, red light preview
mode refers to where to mark, the whole machine
support function customization

Charging or plugging optional

Built-in rechargeable battery, 21.6V lithium
battery, 4-6 hours of working time, 8-10 hours
of standby time, 4 hours of charging time



Application effect



GRENTSUN GST100

Feature Presence/Absence Detection System

OCR character inspection refers to the inspection to confirm the "presence" of the quantity, parts and processing on the workpiece.



GRENTSUN GST100

Characteristics

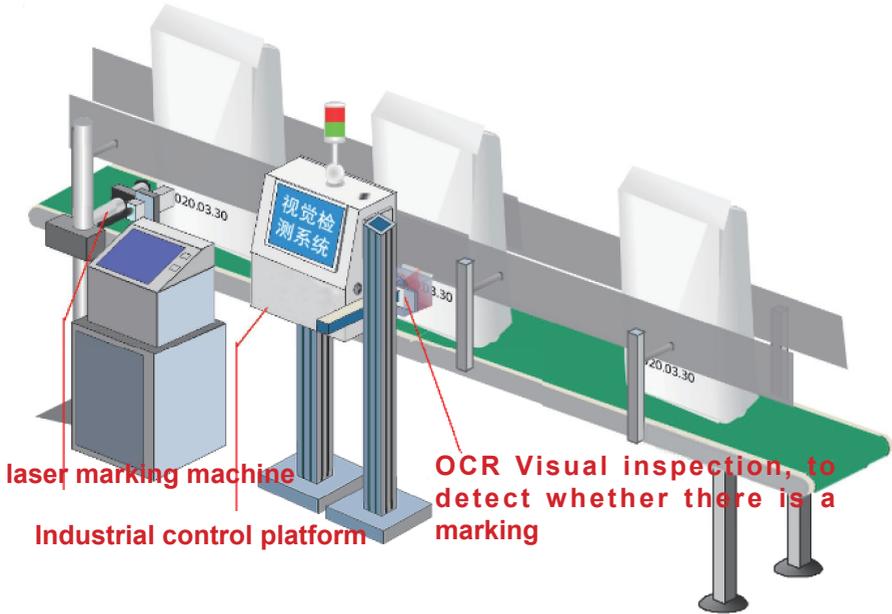
- Non-contact detection, fast speed and high precision;
- Automatic online high-speed detection, up to 80,000 times/hour;
- The system is stable, easy to operate and use, and can be mastered in 10 minutes.

Application scenario

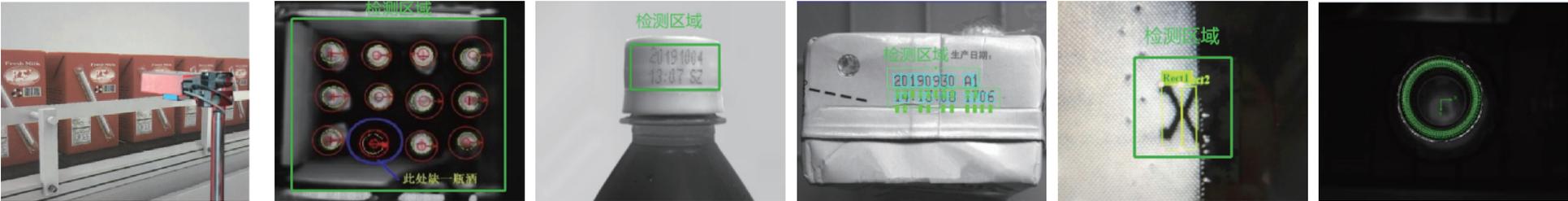
It is used in conjunction with automatic production lines, especially suitable for use with coding equipment such as printers, labeling machines, and laser machines, and can be equipped with rejecting devices

Detection content

Detect whether there is a coding mark | Count the number of bottles in the carton | Detect the presence or absence of instructions/accessories in the package | Detecting the presence of printed characters | Detecting the presence of adhesives | Detecting the presence of electronic parts on printed circuit boards | Inspection of food labels | Inspection of cutting and drilling operations, etc. | Inspection of screws and washers for fixing parts



Application effect



GRENTSUN GST300 OCR

OCR Character Detection System

OCR character detection refers to the confirmation, identification and judgment of characters printed on parts or products. determined detection. This technique, also known as engraving detection technology, is used in various occasions.



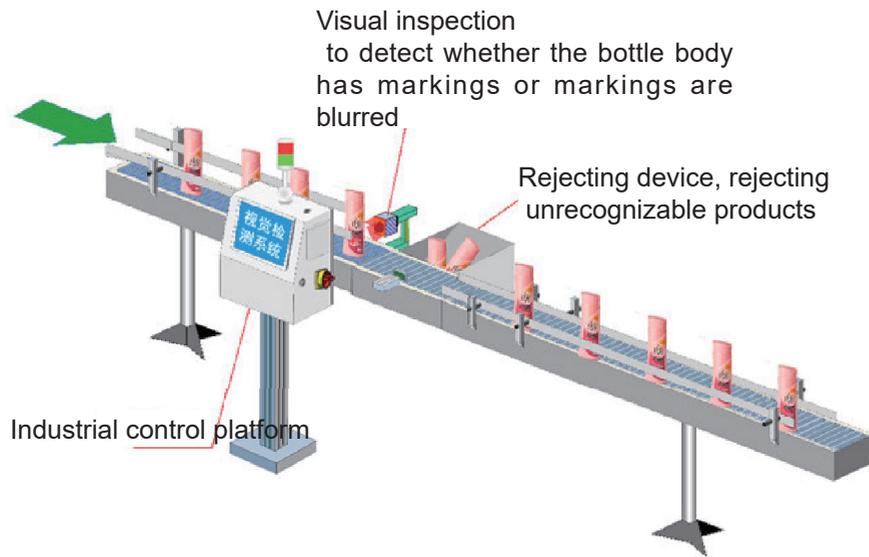
GRENTSUN GST300 OCR

Characteristics

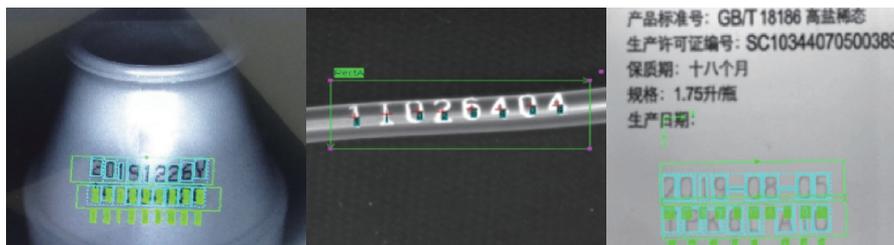
1. High-speed CCD digital imaging technology, 30-10 million pixels, stable dynamic imaging;
2. Unique hybrid algorithm (a variety of high-end OCR reading technologies in the comprehensive visual field), with the widest reading range;
3. Industrial-grade high-performance high-speed controller (Max 2G main frequency);
4. A variety of built-in input and output interfaces are convenient for users to use;
5. Directly drive the display and keyboard, which greatly saves the user's use cost;
6. It is widely used, and the marking effect of various marking equipment can be checked online.

Detection content

- Visual inspection of packaging characters-labels
- Visual inspection of bottle cap characters
- Mobile phone shell character detection
- Characters and barcodes on semiconductor chips
- Screen printing inspection of electronic capacitors
- Visual inspection of electronic components
- Visual inspection of card characters
- Visual inspection of surface character recognition



Application effect



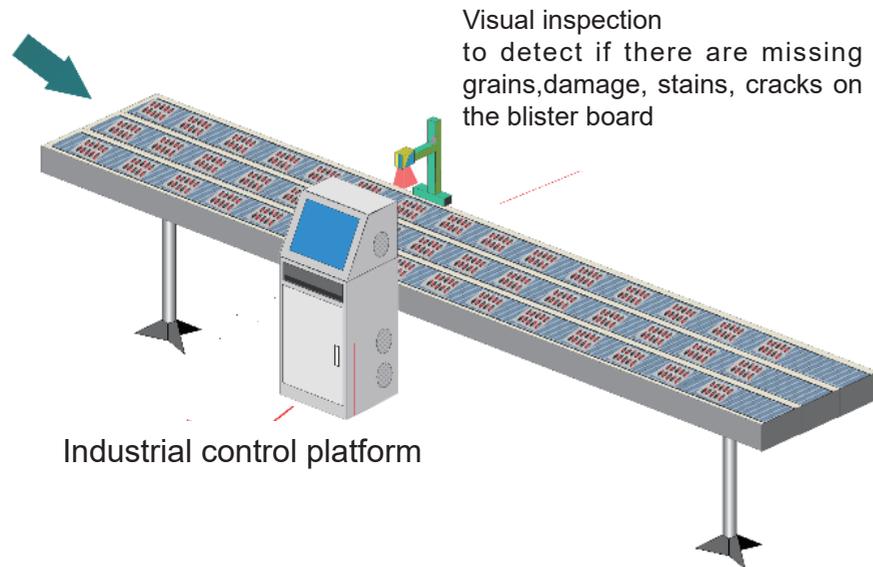
GRENTSUN GST600

Automatic Blister Plate Inspection Machine

Fully automatic blister board inspection machine, suitable for blister packaging medicines. The vacuum adsorption transmission mode can easily realize the seamless integration with the existing production line; the high-resolution industrial camera ensures the timely detection of tiny defects on the blister tablets; the advanced algorithm can quickly and effectively realize effective identification and high-speed detection; The well-designed rejecting mechanism can accurately detect and remove wrong materials even when running at high speed.



GRENTSUN GST600



Application effect



Characteristics

1. It has the advantages of fast, accurate and reliable, and can meet the detection requirements of high-speed real-time detection and elimination of defective products;
2. Instead of human eye detection, reduce the labor intensity of workers and reduce labor costs;
3. Significantly improve production efficiency and product qualification rate, and promote the automation and intelligence of the blister drug packaging testing industry.

Application scenario

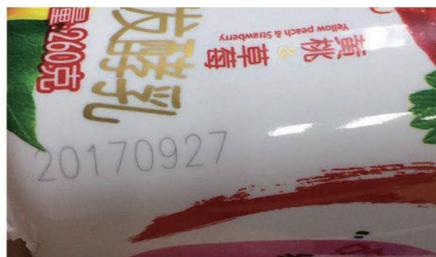
1. Detect whether there are missing grains, overfilling, defects, voids, mixed drugs, etc. in the pill packaging board;
2. The detection data is saved in real time, which can be used for historical query and analysis, and is convenient for tracing and analyzing the causes of defective products;
3. The detection sensitivity can be set and adjusted according to production needs;
4. The detection system is independent of the original equipment, equipped with a touch screen, and only needs to be docked with the conveyor belt of the original production line;
5. The operation interface is simple and easy to use, and a variety of product templates are saved for easy switching.

Detection content

Whether there are missing pills in the pill package, tabletsize, tablet shape, tablet position, damaged tablet, overfilling, foreign matter on the surface, batch number detection (missing characters, wrong digits, wrong content, wrong position, required characters need to be clear), etc



Food and beverage industry





Biological medicine industry





Daily chemical industry



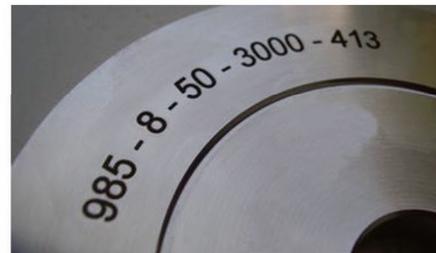


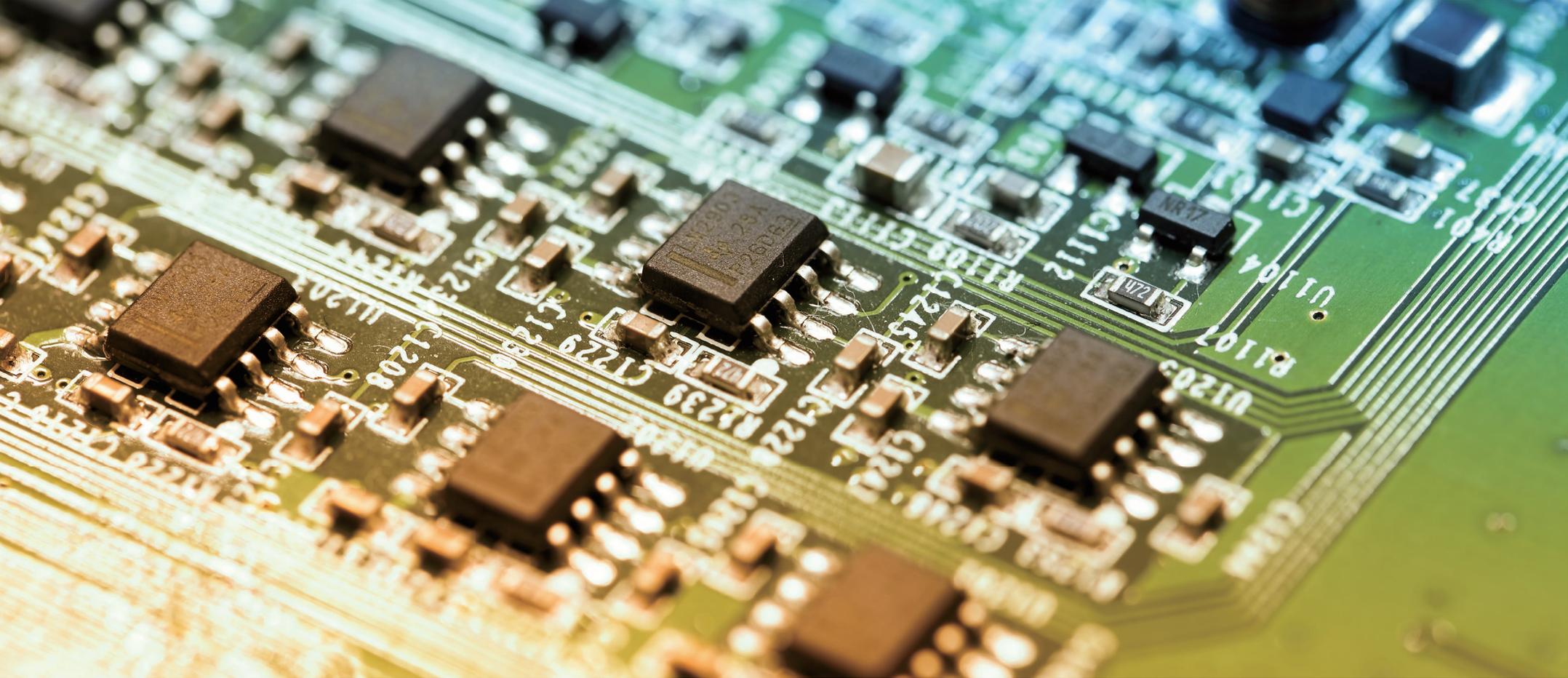
Cable & Pipe industry



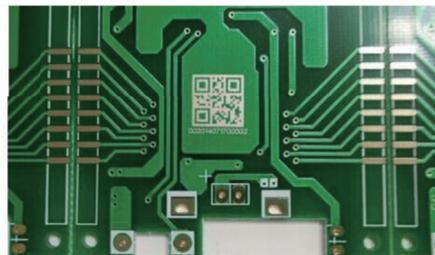


Auto parts industry





Electronics industry



Cooperative enterprises



Service commitment

Pre-sale service



- Experienced technicians answer various questions, provide technical advice, product selection services and the most economical solutions from the perspective of users according to their needs;
- Provide product proofing service

Personnel training



The company provides free technical training until operators use the equipment normally. The content is as follows:

- Switch machine operation procedures training;
- Training on the use of marking control software;
- Training on software control parameter selection range;
- Basic cleaning and maintenance of the machine;
- Common hardware troubleshooting and precautions.

Installation and debugging



- According to the contract, the company will safely transport the equipment to the installation site designated by the user within the specified time, and the engineer will install and debug the equipment according to the reasonable planning and design of the user's on-site test machine; After installation and commissioning, restore the on-site environment to be clean and orderly.

After-sale service



- After getting the equipment failure report, the project will troubleshoot by phone within 1 hour;
- If it is necessary to solve the fault on site, we will arrive at the site at the appointed time to debug and solve the fault;
- One year warranty from the date of acceptance;
- Provide extended warranty service;
- Provide equipment software upgrade service.





Laser Marking Product Expert • Visual Inspection & Anti-Counterfeiting Tracing

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