



STEVEN SEPVEST CORP

INDUSTRIAL LASER SOLUTIONS PROVIDER

Automobile Marking

- **Overview**

In May 2012, the State Council of China published the 2012 Quality Development Guidelines Action Plan. It makes it clear that each enterprise must implement social responsibility of quality and safety, and the legal obligation of defect product callback. It also establishes the policies of enterprise reporting system about momentous quality accident.

With the enactment of automobile security laws and regulations, the automobiles and parts are required for identity confirmation, which is the foundation of defect product callback.

- **Our Solution**

In order to strengthen the management of warranty services, meet the requirement of the automobile defect product callback, collect the information of key components, HGLASER, as the leader of laser industry, aims to promote the application of laser marking in industries and provides full range of solutions.

Laser Application Solution of Auto Parts Industry

Laser Marking Machine

HUAGONG TECH Co., Ltd. (short for HGTECH) has researched laser for 25 years and maintains technology leading role in domestic. At present, there are thousands of laser marking machines on the production line.

HGLASER marking machine is suitable for Auto Direct Part Mark (short for DPM), not only for etching after processing, but also for un-machined surface. The applicable materials include metal (including cast iron and cast aluminum), most nonmetal (engineering plastic and rubber), glass, etc. The equipment has extensive application in engine, assembly, axle, frame, piston surface, controller, lamp, etc.

Comparison:

	Laser Etching	Mechanical Top scouring	Hangtag	Label
Part Material	Metal, plastic and glass	Metal and plastic	no limit	no limit
Processing Method	Non-contact	Contact	Binding	Pasting
Adhesive Strength	Permanent marking	Permanent marking	Easy to lose	Easy to break off
Loss and Pollution Prevention	Waterproof, oil-proof and anti-oxidation	Readily oxidation with materials	Easy pollution	Easy pollution
Post-maintenance	maintenance-free	Punch-pin replacement	/	/



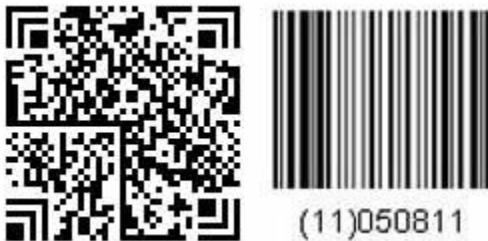
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		frequently		
Extra-code Efficiency	Quickly molded at one-time	Molded at one-time	Manual secondary processing	Manual secondary processing
Effect of Bar Code Gun	Chromatic aberration, easy to read	No chromatic aberration, low recognition	Easy to read	Easy to read

Extra-code System

HGLASER marking machine can not only etch trademarks, LOGO, serial numbers, but also etch all kinds of bar code labels, including EAN code, 39 code, cross 25 code, UPC code, 128 code, 93 code, ISBN code, Coda bar, Data Matrix, MaxiCode, Aztec, QR Code, Vericode, PDF417, Ultracode, Code 49, Code 16K, Han Xin Code and encrypted two-dimension code.



Implanting powerful database and networking in marking software implements seamless connection of database between assembly plant and parts manufacturer, establishes database automatically, communicates with upstream and downstream database, and tracks the products in the whole processing.

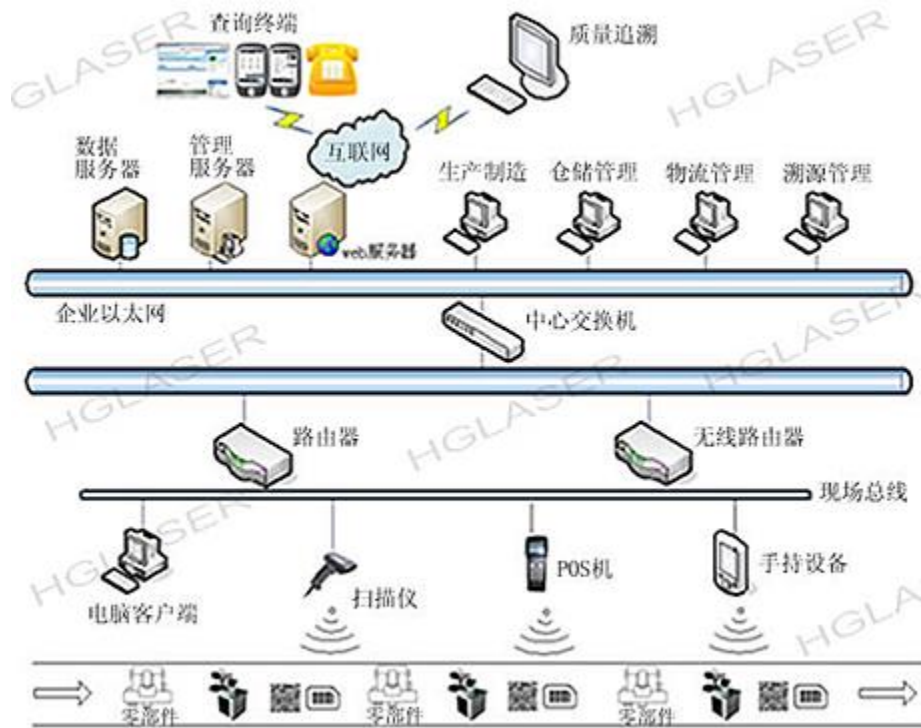
Quality Traceability System

With strong ability of system development and implementation, Wuhan HGLASER provides full range of hardware and software solutions for customers, achieves the information intelligence in supply, storage, production, and channels. And track the products in the whole processing.



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Laser Application Solution of Assembly Plant

Laser marking application in automobile is mainly marking on the vehicle, engine nameplate and VIN. Traditional way marks on aluminum plate with pneumatic marking machine and then rivet on the car. New national standard requires laser marking with flexible labels, including all nameplates and seven VIN codes (six VIN codes added).

As the domestic first auto flexible label laser engraving equipment manufacturer, Wuhan HGLASER has researched the equipment for 10 years. The equipment is being optimized and improved constantly in the progress of production and application. So far, we have launched the fifth generation to the market. No matter in software, ancillary components or machining parts, including the details in designing and manufacturing, we have paid much attention to the optimization and made it suitable for the working rhythm and assembly line work completely.



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• Customer Benefit

With laser technology, customers will benefit much:

- Without tool wear, the operating and material costs are reduced;
- Fast speed working improves production efficiency greatly;
- Because of the complicated marking equipment and special label materials, the counterfeiter is hard to fake. So it protects the legal right of manufacturers and users effectively.
- The permanent markers promote product anti-counterfeiting ability;
- The laser marking machine is a high-tech, environmentally friendly product, won't produce any chemical substances harmful to human body and environment;
- Without ink and chemical solvent, the working environment is clean and non-pollution;
- Brand awareness of products will be increased by classier products and additional value;
- Customers can use at any time according to their needs, no need to stock.
- With the traceability system, all aspects of the whole manufacturing process and the operating costs can be controlled effectively;
- Customers can compile graphics, words and numbers by computer program system according to their needs. A set of laser label making machine can provide more than 30 different labels of a car. The good flexibility of machine increases the diversity of products.



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- Related Application



Aluminum Alloy

Glass

Cast Iron

Automobile
Alternator

Engine Cylinder
Block

Engine Camshaft