HGlaser

Precision series product line

Portable Laser Marking Machine

Wuhan Huagong Laser Engineering Co.,Ltd(stock code: 000988)
http://en.hglaser.com/

HGTECH

PART 1

Portable product system

HGLASER PROCESS

- Model Classification
- Equipment characteristics

——Desktop type

——Handheld type

——Suitcase type

Marking product

Equipment classification

Desktop type

Handheld type

Stable & efficient
Compact
Flexible & portable
Higher cost-effective

Suitcase type

Marking product

1. Desktop type typical model

Desktop fiber laser marking machine LSF-M

LSF-M **Mini Marking Workstation** belongs to desktop fiber laser marking equipment. Aiming at the demand of **compact, stable and reliable**, HGlaser specifically develops featured products.

This equipment is extremely cost-effective, using the high-quality fiber laser source, high stability of the galvanometer system, which can easily meet most of the common laser marking applications requirements, such as metal, plastic character text pattern logo mark, two-dimensional code, laser texturing, deep engraving etc.

Marking product

1. Desktop type typical model

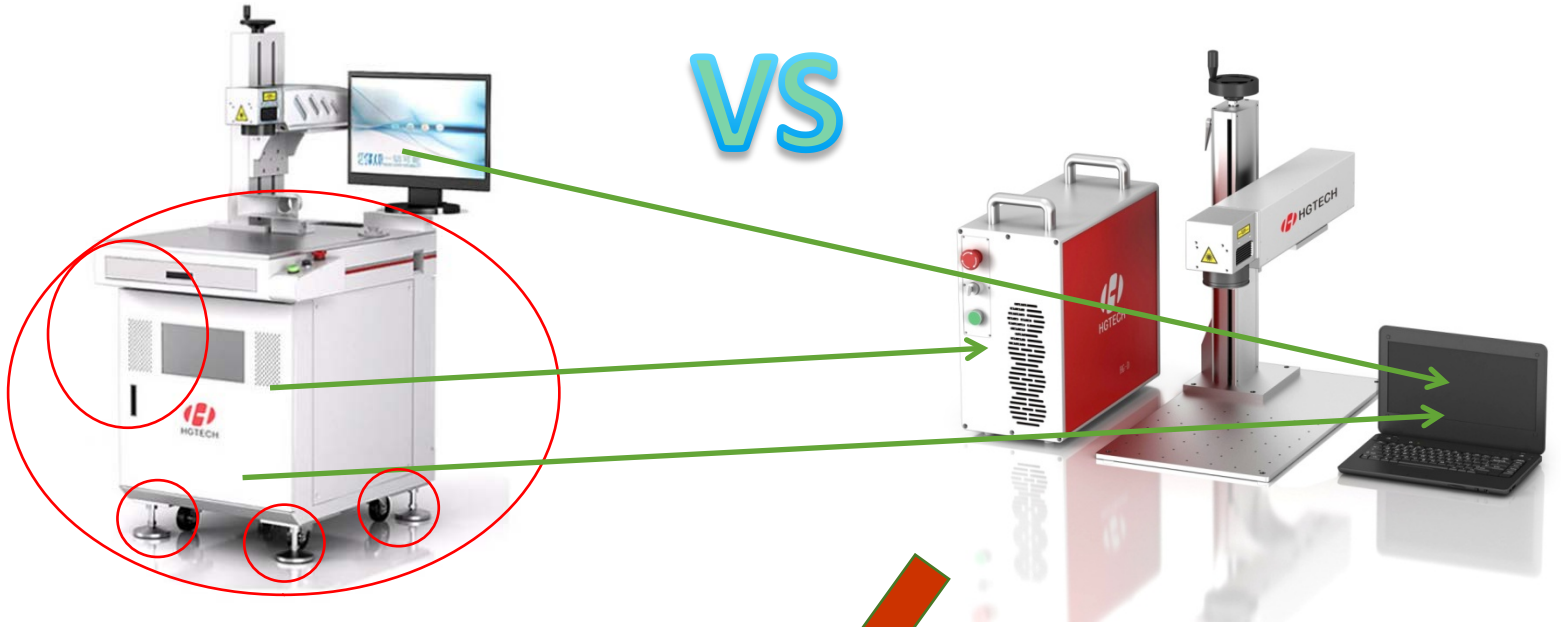
Protective cover structure

20W fiber laser marking machine LSF20A length 800 * width 560 * height 750mm Door open height: 1200mm

Worktable dimension : 300 * 300mm

Marking product

Appearance and structure comparison



Convention standard model

Desktop model

- Smaller volume
- simpler structure
- Lighter weight
- Higher integration
- higher Cost-effective

Flexible placement, and even placed on your desk, is a desktop equipment that easily to meet the requirements of laser marking.

Marking product

2. Handheld type

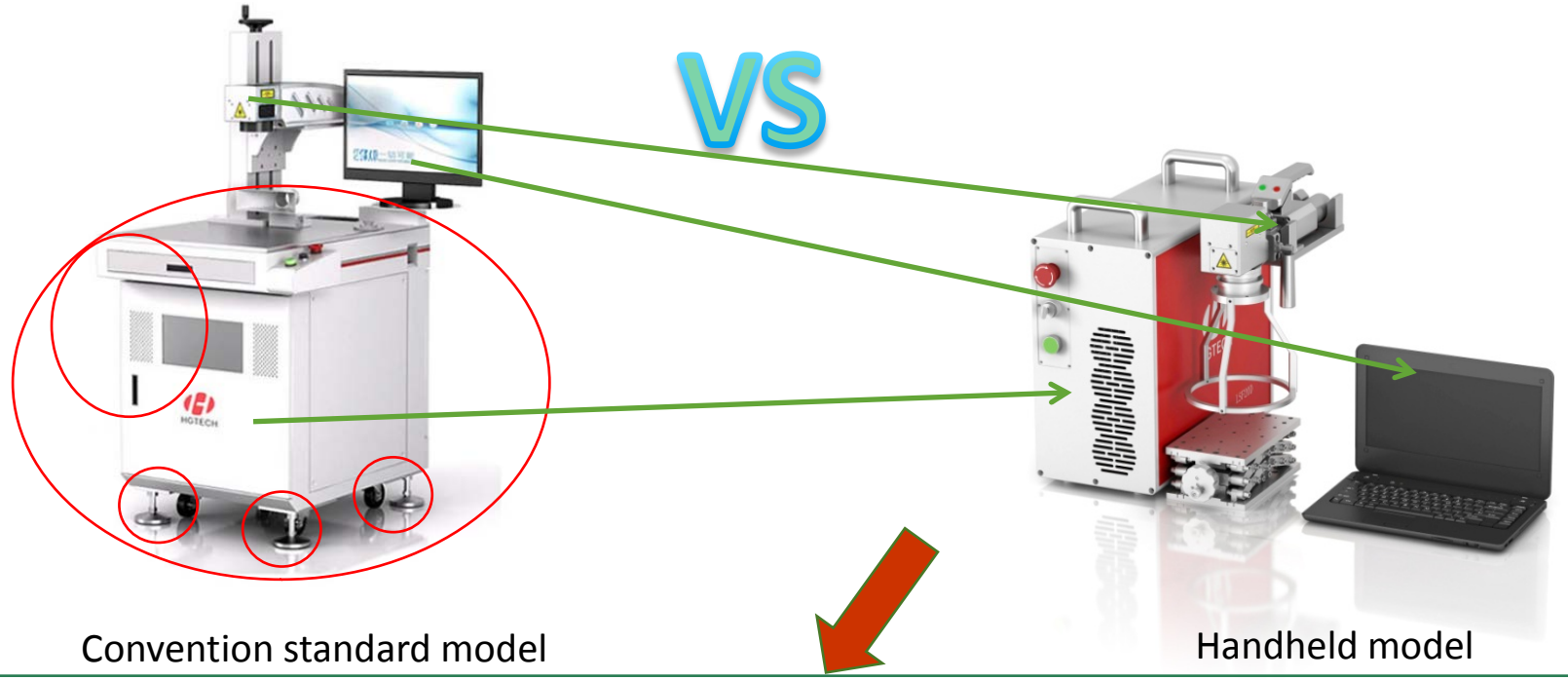
Handheld fiber laser marking machine LSF- H

LSF-H is a **handheld fiber Marking** equipment. Aiming at the demand of **Hand-held operation, flexible and convenient**, HGlaser specifically develops featured products.

This equipment is extremely cost-effective, using the high-quality fiber laser, high stability of the galvanometer system, which can easily meet most of the common laser marking applications requirements, such as metal parts, plastics character text pattern logo mark, two-dimensional code marking, laser texturing, deep engraving etc.

Marking product

Appearance and structure comparison



Convention standard model

Handheld model

- Smaller volume
- simpler structure
- Lighter weight
- Handheld operation more flexible & convenient
- higher Cost-effective

The structure is extremely compact, the laser part is hanging in the case broadside when not use, picking up laser part when using, which is convenient. Handheld device aligns with the processing position, or keeps the support fixture statically placing on top of the work piece, is a handheld device which can easily meet the laser marking requirements.

Marking product

3. Suitcase type

Suitcase type fiber laser marking machine LSF-B

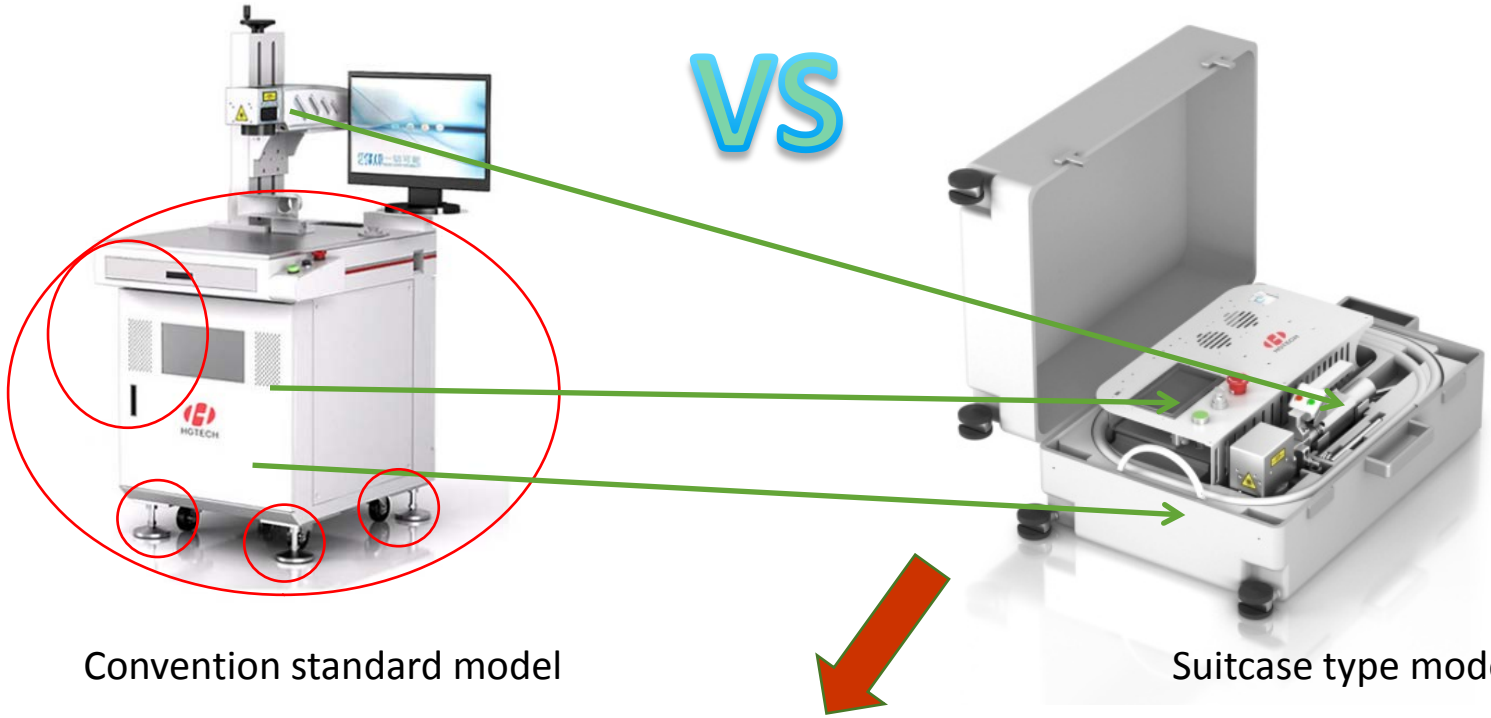
Laser scan fiber box

LSF-B is a **suitcase type fiber Marking machine**. Aiming at the demand of **lightweight portable, easy to move**, HGlaser specifically develops featured products. Similar to the suitcase, it can be dragged at anytime and anywhere which can execute the laser marking only plugging in power.

This equipment is extremely cost-effective, using the high-quality fiber laser, high stability of the galvanometer system, which can easily meet most of the common laser marking applications requirements, such as metal parts, plastics character text pattern logo mark, two-dimensional code marking, laser texturing, deep engraving etc.

Marking product

Appearance and structure comparison



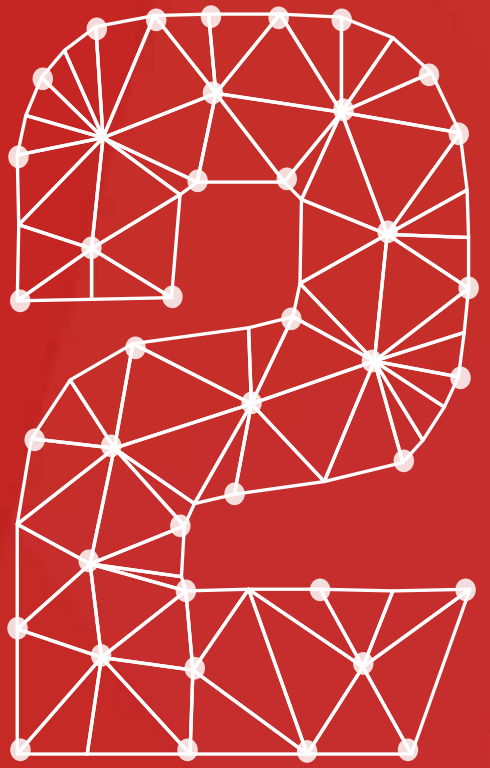
Convention standard model

Suitcase type model

- Smaller volume
- simpler structure
- Lighter weight
- Higher integration
- Randomly drag Flexible & portable
- higher Cost-effective

Suitcase style innovative body design, it can be easily put into car trunk, flexible and portable. Suitcase style laser marking equipment can meet the requirements of laser marking anytime, anywhere when plug in the power.

PART 2



Portable laser equipment

HGLASER PROCESS

- Applicable industry
- Application area
- Sample display

Marking product

Portable laser equipment

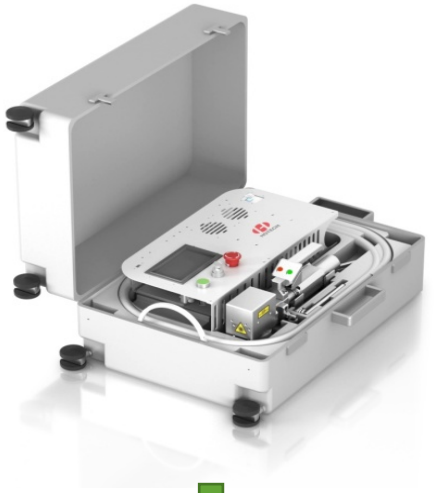
Desktop type fiber laser marking machine LSF-M

a. Application areas: metal (stainless steel, copper, iron, aluminum, etc.), non-metallic (plastic, etc.) marking character, QR code, engraving, etc
b. Processing methods: work piece placed in the processing table

Handheld fiber laser marking machine LSF-H

a. Application areas: metal (stainless steel, copper, iron, aluminum, etc.), non-metallic (plastic, etc.) marking character, QR code, etc.
b. Processing methods: Work piece position fixed, use the laser part flexible handheld or fixture fixed to mark.

Suitcase type fiber laser marking machine LSF-B



a. Application areas: metal (stainless steel, copper, iron, aluminum, etc.), non-metallic (plastic, etc.) marking character, QR code, laser cleaning application etc.
b. Processing methods: Work piece position fixed, use the laser part flexible handheld or fixture fixed to mark.

Marking product

Applicable industry

Hardware products

Nameplate label

3C parts

appliance industry

Automobile parts

kitchen & bathroom industry

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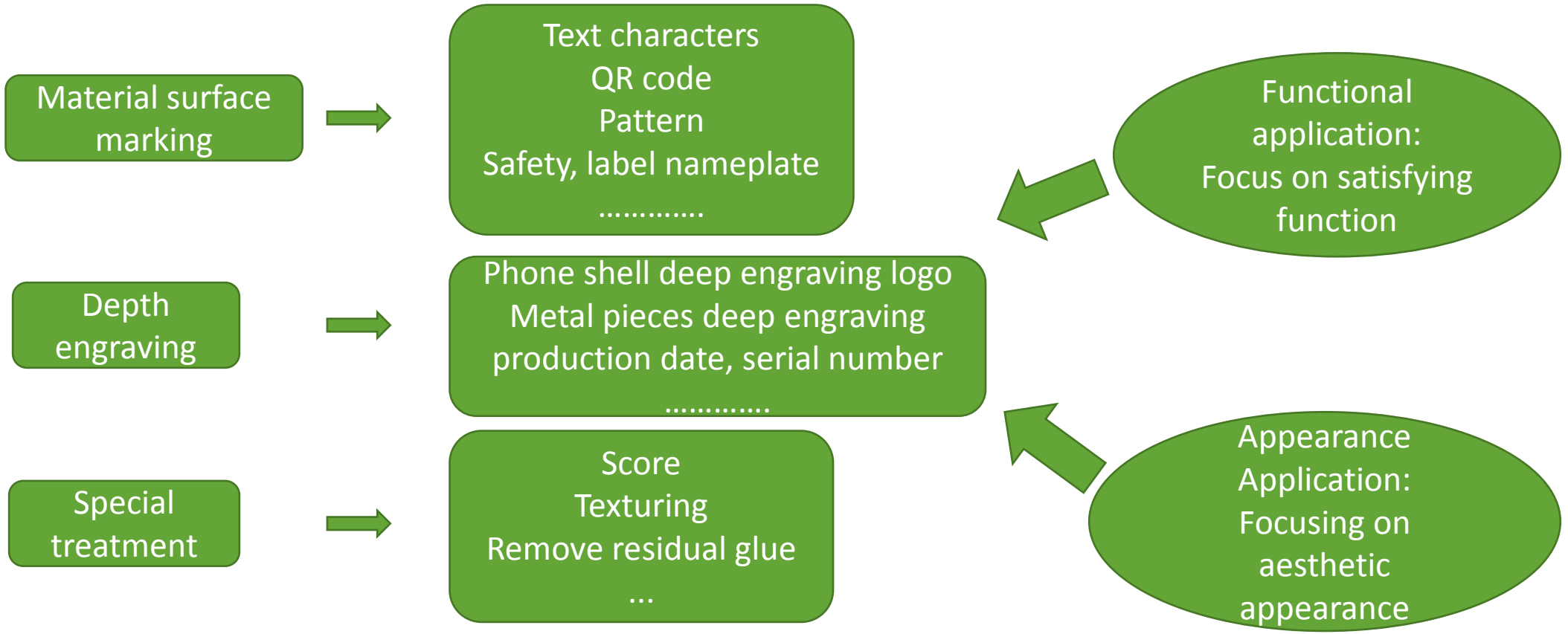
Marking product

Typical applications for laser marking



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Marking product

Laser marking sample display

Auto Parts: Marking Barcode / codes

Auto label marking

Stainless steel parts

Copper parts marking

Marking product

Laser marking sample display

Aluminum casting marking

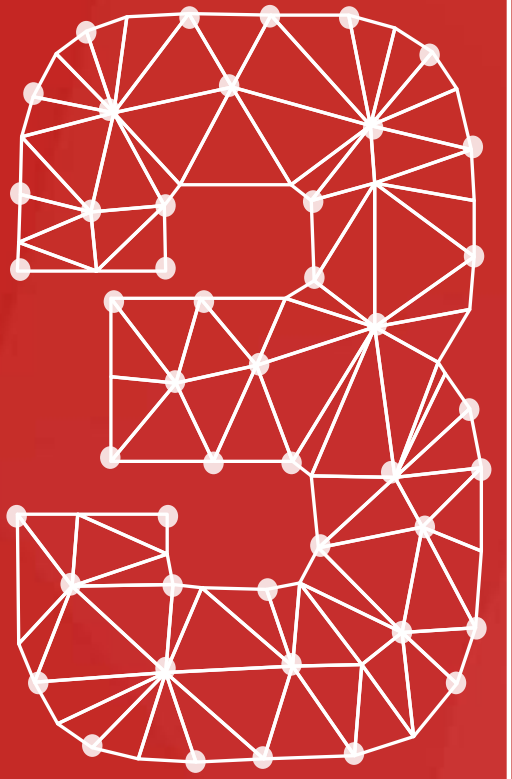
Plastic fuel tank cap marking

Plastic parts marking QR code

3c parts Anodized aluminum

3C parts mobile phone charger marking

PART 3



Portable laser equipment

HGLASER PROCESS

- Equipment characteristics
- Handheld optical bench Features
- Device configuration parameters
- Processing Features Comparison
- Processing costs comparison

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Marking product

Equipment characteristics

Desktop type fiber laser marking machine LSF-M

Handheld fiber laser marking machine LSF-H

Suitcase type fiber laser marking machine LSF-B

① Excellent beam quality, suitable for precision, meticulous marking

② Light path fully sealed, good dustproof, strong earthquake resistance

③ Stable laser output power, highly reliable equipment

④ Long service life, maintenance free operation, with an average of more than 100 thousand hours

⑤ High efficiency, low energy consumption, cost savings

⑥ Compact, easy to carry, portable, flexible

⑦ Self-designed operating software, easy to use, powerful function

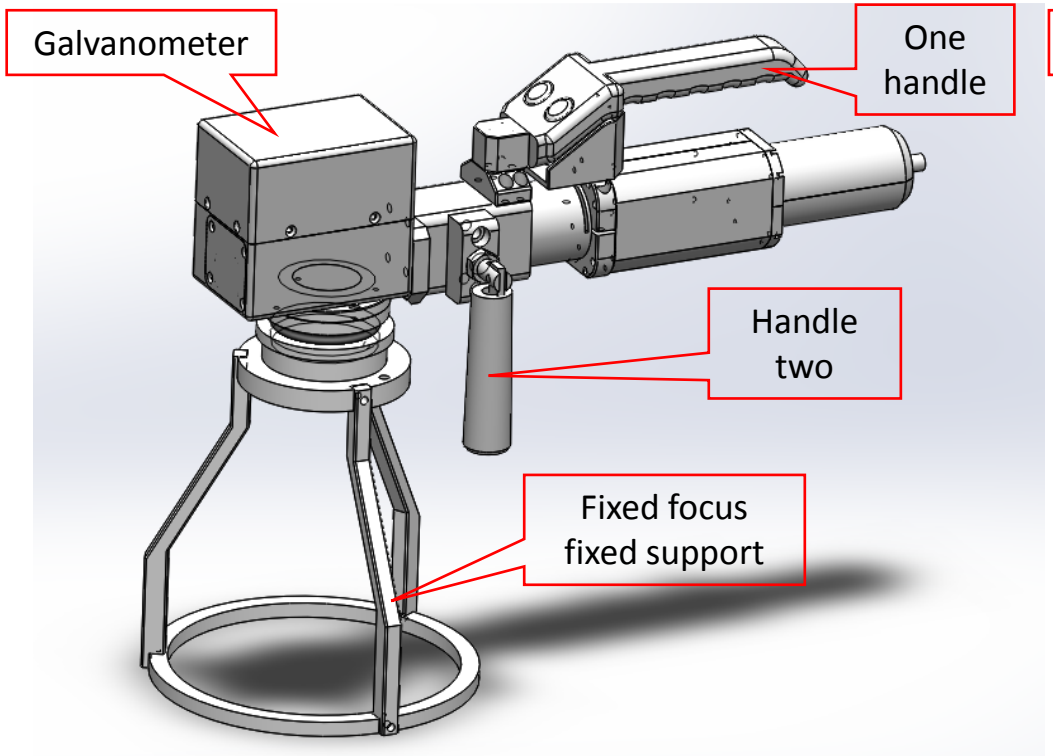
⑧ Separated integrated cabinets, high integration, small footprint

⑨ Stable signal transmission, strong anti-interference ability

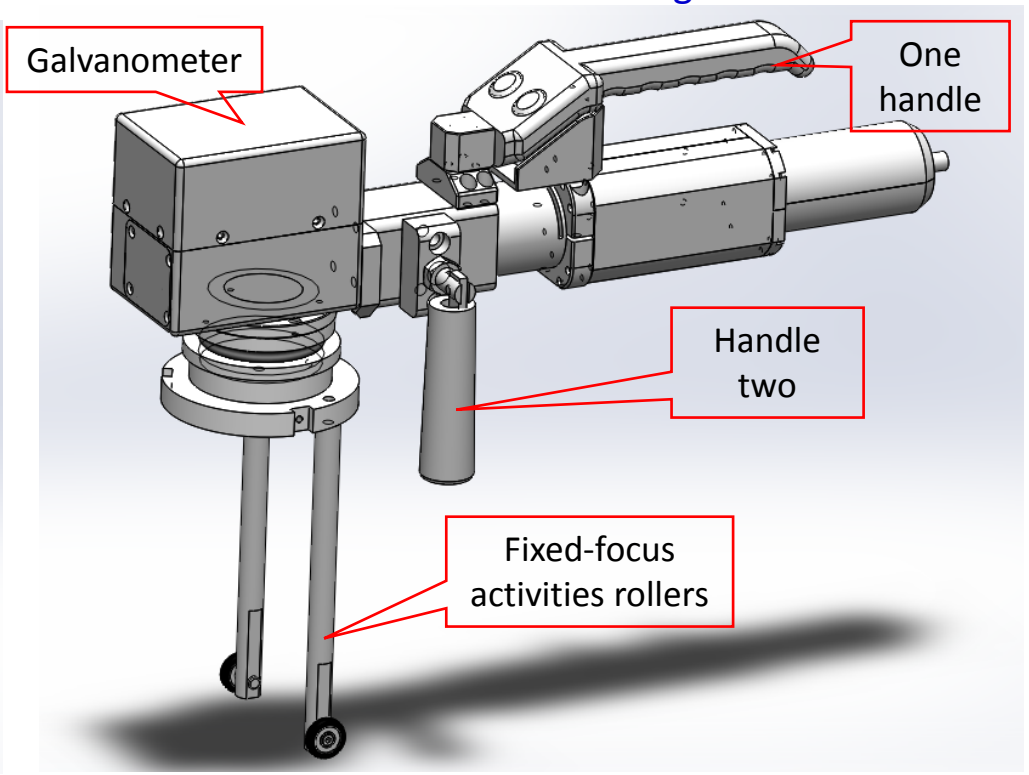
Marking product

Handheld optical bench Features

Handheld optical bench subassembly is composed of aluminum and optical components, simple structure and easy to operate; **Marking, use the standard configuration fixed focal distance of immovable structure; cleaning, need to choose the focal length of the movable structure,** the installation method can be selected according to demand.



fixed focal distance of immovable structure (standard configuration)



focal length of the movable structure (Optional)

Marking product

Configuration parameters

model	Desktop type fiber laser marking machine	
Laser wavelength（nm）	1064	
Laser brand	Raycus	
Output Power（W）	20	50
Galvanometer marking speed	≥7000m/s	
Print area	110mm×110mm（145mmx145mm、175mmx175mm Optional）	
Pulse repetition frequency	30~60kHz	
Marking Standard width	0.06mm（According to the materials）	
Minimum character height	0.2mm	
Lifting mechanism	Manual, nominal stroke：400mm	
Marking software	HGlaser customization, can be directly imported .ai, .plt, .dxf and other vector formats	
Communication Interface	USB interface; RS232 serial port; Network port	
power supply	AV220V/50HZ voltage fluctuation range of + 5%, such as exceeding the range of fluctuations, configuring the voltage regulator device is needed	
Overall power consumption	0.6KW	

Marking product

Processing Features Comparison

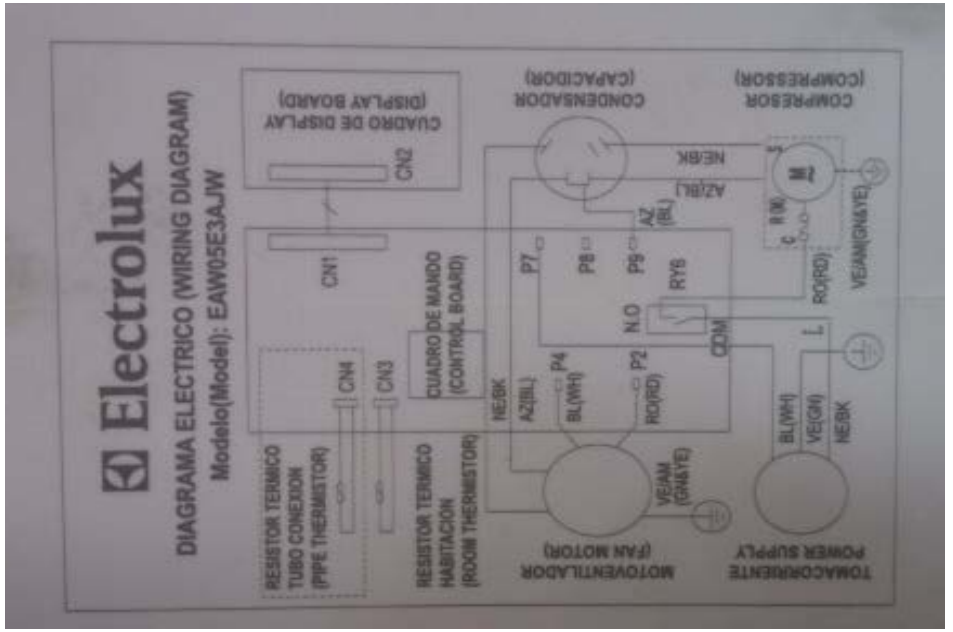
Laser Marking

No Consumable

save time and energy

Substantial cost savings

High precision, low defective rate



Traditional labeling

Need numerous consumables, labeling paper waste time and energy

High labor and material costs

Poor labeling, bubbles, stickers bias and other issues

Marking product

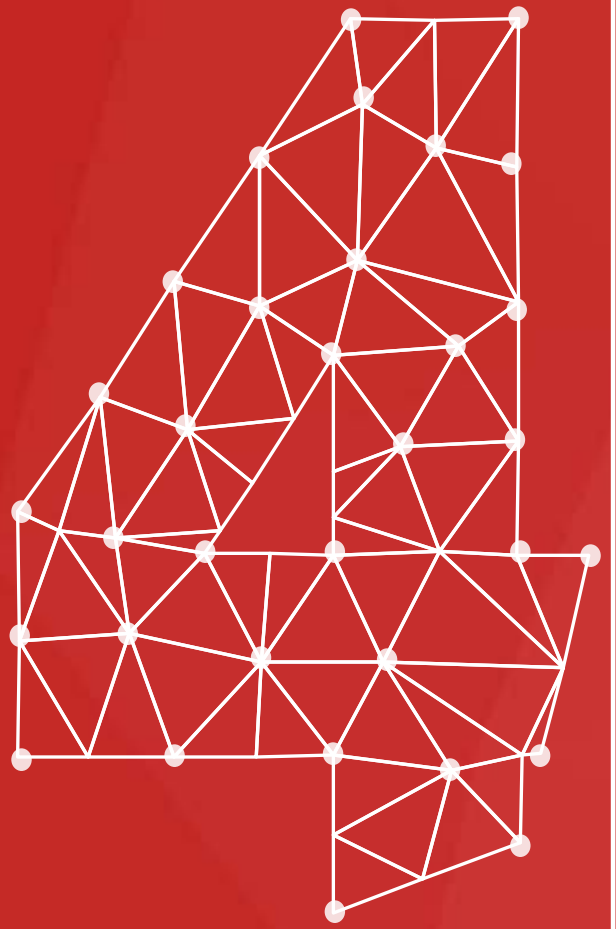
Processing costs comparison

Calculate completing 1 labels, laser mode CT about 4 ~ 5S, the traditional way of CT about 10s, efficiency increased by about 2 ~ 3 times, equivalent to the efficiency of three manual work efficiency.

Processing methods	Laser processing	traditional way
Capacity	About 15,000p / day	About 5,000p / day
Efficiency	quickly	slow
Consumable materials	nothing	A large number of paper labeling
Consumables costs	nothing	About 200,000 to 300,000/ year
Labor costs	About 50,000 / year	Equivalent production, about 150,000 / year

A laser marking equipment can save labor and material cost per year is about 300,000 to 400,000 RMB

PART



About Us

- HGlaser Marketing Network
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- Contact us

HGLaser Distributions

- Industrial laser solutions provider authority
- As one of the largest manufacturers of laser equipment in China, HGlaser is the core subsidiary of Huagong Technology Co., Ltd., which is the first domestic listed company with laser as the main body. Shenzhen Stock Code 000988

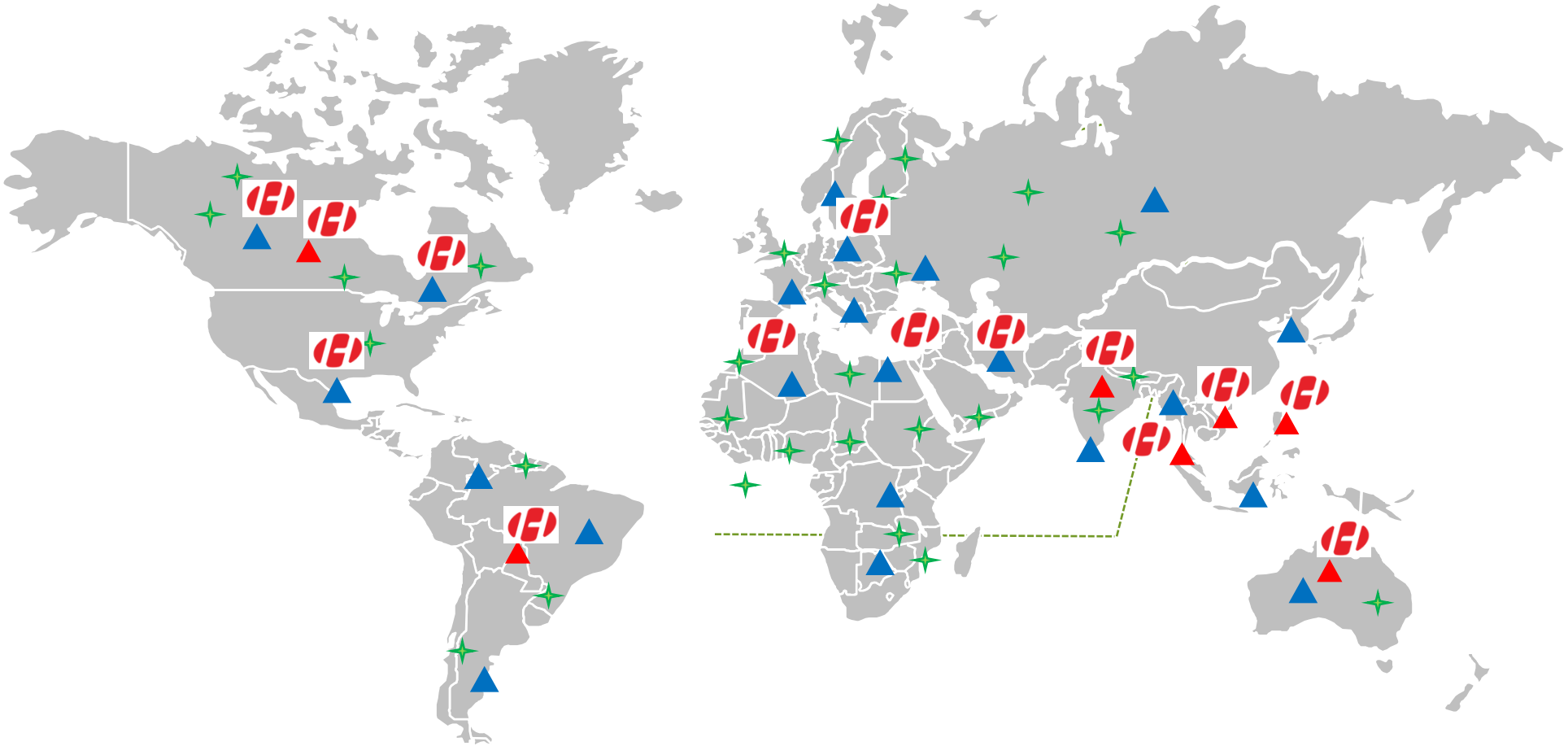
Wuhan headquarters Factory Workshop interior

HGTECH Building Exterior

Technology research Exhibition Center

Australia Overseas base

HGLaser global network



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Thousands of global typical projects...

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