



HGLASER



Laser Solutions

for Smart Card Personalization

WUHAN HUAGONG LASER ENGINEERING CO.,LTD

Laser Marking System Applied in Security Identification Industry

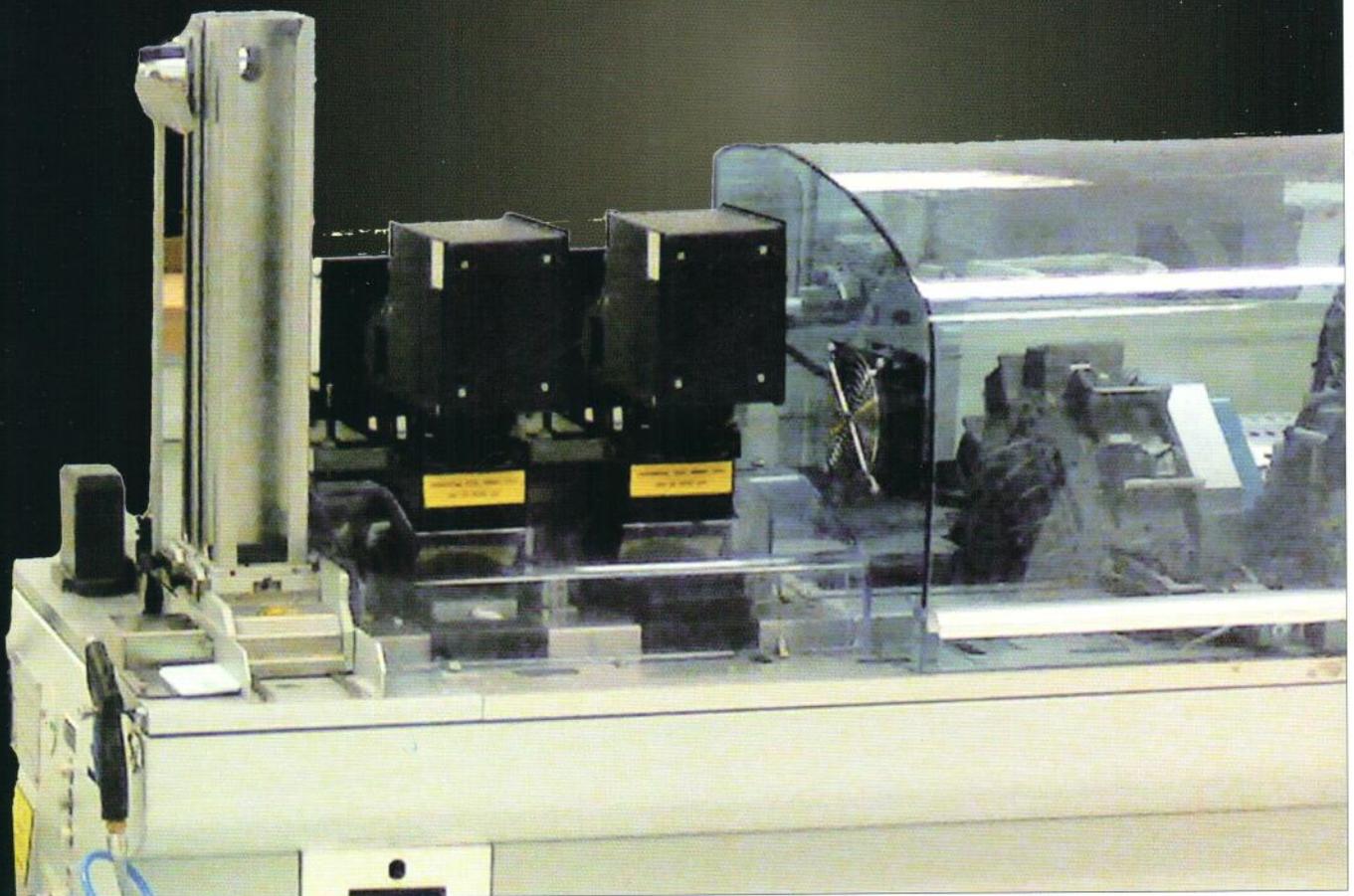
HGLaser is the leader of laser machine manufacturers in china.

HGLaser specializes in supplying laser solutions for different industries, as well as researching and producing.

With 10 years of experience in laser industry, HGLaser has developed several series of laser marking machines for security identification industry, such as ID cards, passports etc.

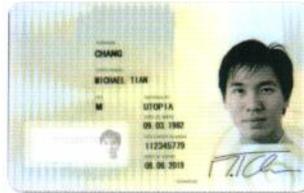
The optimized laser software can be provided for all the possibilities from layout production to parameter adjustment.

The lasers are widely integrated in card personalization systems and can meet the user's real demands.





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Laser marking system for cards:

- Fiber laser marking machine (LSF30/40/50II)
- End-pumped laser marking machine (LSD15/30E/UV)
- CO₂ laser perforating machine (LSC50/100)

Highlights:

- High smart card output
- Unique laser source
- Automatic production design
- Compact mechanical outline
- Software development support

Applications:

- GSM card
- Passport
- ID card
- Credit card



GSM Card Fiber Laser Marking Machine

LSF30/40/50II



LSF30/40/50II Fiber Laser Marking Machine is adopted Ytterbium doped double clad fiber as laser medium and pumped by high power multimode diode.

It is applied widely in security identification fields, such as, rapid vector marking, high-quality grey scale marking, personal identity docs marking and good performance in multi barcode marking.

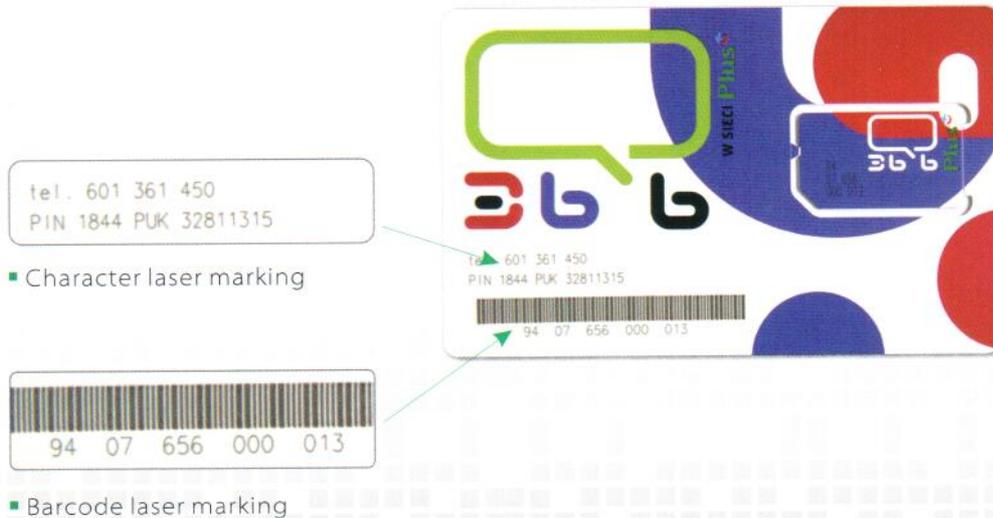
With imported technology and Chinese production, this machine performs as well as European's and cost effective.

Applications:

- GSM Card
- Electronics

Highlights:

- High marking speed
- Perfect beam quality
- Very compact
- No consumption
- Free of maintenance



Specifications	
Model	LSF30/40/50II
Average output power	30/40/50W
Power adjusting range	5-100%
Resolution frequency	20KHz-80KHz
Max. linear speed	10000mm/s
Marking depth	0.01-0.2mm
Min. line width	0.02mm
Marking area	110x110mm (optional as request)
Anti high-reflect	with optic isolator
Power supply	220V/110V
Cooling system	Air cooling

NID Card End-Pumped Laser Marking Machine

LSD15/30E/UV



LSD15/30E/UV End-pumped Laser Marking Machine is adopted with fiber coupled diode end pumped laser.

It is applied widely in security identification fields, such as, rapid vector marking, high-quality grey scale marking, personal identity docs marking and good performance in multi barcode marking.

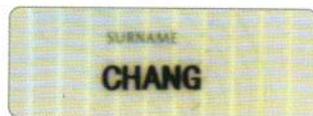
With imported technology and Chinese production, this machine performs as well as European's and cost effective.

Applications:

- NID Card
- Passport ID
- GSM Card

Highlights:

- High marking speed
- Perfect beam quality
- Good grey scaling
- Low consumption



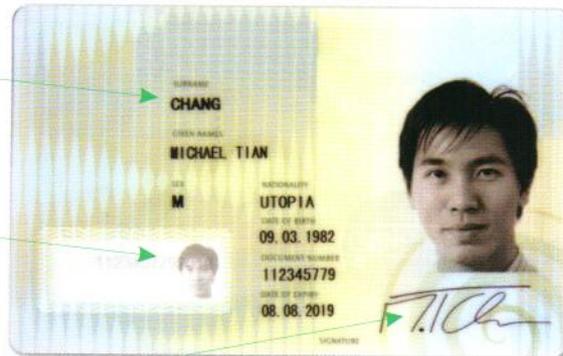
- Tactile laser engraving



- Changeable Laser Image



- Graph laser marking



Specifications

Model	LSD15/30E/UV
Average output power	15/30/5W
Q-switch frequency	5KHz-50KHz
Max. linear speed	10000mm/s
Min. marking line width	0.01mm
Marking area	110x110mm (optional as request)
Power supply	220V, 50Hz, 1KW
Cooling system	water cooling system

Passpart CO2

Laser perforating Machine

LSC50/100



LSC50/100 CO2 laser marking machine is integrated with advanced Galvanometer laser marking technology with imported RF excited sealed CO2 laser.

It's high performance laser machine which has excellent beam quality, high reliability and long life time.

Applications:

- Passport perforating
- Transportation Card
- Electronic Components

Highlights:

- High marking speed
- High repeatability
- Cost effective
- Stable



- Character laser perforating

Specifications	
Model	LSD50/100
Average output power	50/100W
Wavelength	10.64um
Max. linear speed	10000mm/s
Marking area	110x110mm (optional as request)
Power supply	220V, 50Hz, 1.6KW/220V, 50Hz, 2.8KW
Cooling system	water cooling system



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Company Introduction

Wuhan HuaGong Laser Engineering Co.,Ltd is one of the largest laser equipment manufacturers in China. The key Hi-Tech enterprise of China, National-recognized enterprise technology center, HG Tech acquired several national R&D organizations such as national Key Laboratory of Laser Technology, National Engineering Research Center for Laser Processing, laser processing craft exhibition center, taking the responsibility of national key scientific and technological project, participated national laser standard making. HGLaser has always been committed to providing a wide range and comprehensive of laser manufacturing process solutions in industrial manufacturing field, manufacturing and researching various laser processing complete sets of equipment.



Authoritative supplier of industrial laser solutions



Typical customers

gemalto[★]
security to be free



GD Giesecke & Devrient
Creating Confidence.



S **SAFRAN**
Morpho



WUHAN HUAGONG LASER ENGINEERING CO.,LTD

Add: HUST Industry District East Lake Hi-Tech Development Zone,
Wuhan, Hubei, China, 430223.

Tel : 86-27-87180263 400-888-8866

Fax: 027-87180210

E-mail: info@hglaser.com