HAN'SGS

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03/2017

PROFESSIONAL LASER EQUIPMENT MANUFACTURER

Machine tools
Laser technology
Production solution provider

HAN'SGS

COMPANY INTRODUCTION HAN'S GS

Wuhan Hans Goldensky laser system Co.,Ltd. is subsidiary company of Han's Laser Technology Industry Group Co.,Ltd. (stock code: 002008). We are high-tech enterprise specialized in R&D, manufacture and provide laser cutting, laser welding, laser cladding/quenching, and high-speed laser perforating equipments and solutions.

- Top supplier of high power laser generator and laser complete system in China
- Holding subsidiary of Hans Laser in Shenzhen
- High tech enterprise of Optic Valley under government support, with 20000㎡ Industry Park
- Registered capital 80 million, 125 employees
- Total sales amount of 98 million in 2012,profit of 16 million
- Accumulated assets 150 million, asset-liability ratio 30%, 50% increasing speed in the last three years

Most of the products of our company has fully independent intellectual property rights, widely used in sheet metal processing, aviation, aerospace, electronics, electrical appliances, tube fittings, automobile, food machinery, engineering machinery, precision parts, ships, metallurgical equipment, elevators, household appliances, kitchen utensils and appliances, craft gifts, tool processing, decoration, advertising and other manufacturing industries.

HISTORY OF THE COMPANY

1998

1998 Established by Dr.Chen (Professor from Huazhong University of science and technology).

2001

2001 Invented the first set of 10000W and 20000W CO2 laser generator, and achieve the power output.

2003

2003 Produced first generation CO2 laser welding machine. 50000W laser system was produced, which stands for the highest level of laser industry in the world

2006

2006 Produced first set of tipping paper perforating machine and laser cladding machine, the domestic market share is more than 80%.

2007

2007 Become a member of Han's group. First set of ten thousand level TEA was produced successfully, this is the first one in China and even rare in the world.

2008

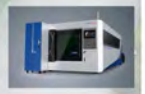
2008 David, chief editor of 《INDUSTRIAL LASERS》, authority of Laser industry in US, regards Han's GS stands for the highest technology level of gas type laser in China.

2012

2012 Developed GS-DKJ02 laser plastic membranes perforating machine, which have the highest market share.

2013

2013 Developed GS-LFDS series high power fiber laser cutting machine, sold around the world.



2016

2016 New design for fiber laser cutting machine, more beautiful, more convenient and more practical.

RESEARCH ACHIEVEMENT

Key technology and international advanced unit technology in high power laser generator, 12 invention patent, 85 practical new patent

ENTERPRISE HONOR

- Enterprise authorized by National High and New-Technology industry Demonstration Project
- Certificate of National Torch Plan Project
- The Ministry of Information Industry Electronic Information Development Funding Support Enterprise
- National Science and Technology Innovation Funding Support Enterprise
- High - Tech Enterprise in Wuhan city, Hubei Province.
- High-Tech Enterprise Research and Development Center in Wuhan
- Optoelectronics Special Implementation Enterprise in High-Tech Industry Development Project Plan of Hubei Province
- Project Implementation Enterprise in Science and Technology Plan of Wuhan
- Wuhan Science Cooperation Program Funding support Enterprise.
- Enterprise with Special Funding Support in Ten Scientific and Technological
- Industrialization of Wuhan
- Key Enterprise with Funding Support in Hi-Tech product industry of Wuhan.
- Certificate of ISO
- Certificate of GJB
- Products approved by Wuhan Science and Technology Bureau & Science and Technology Department of Hubei Province.

HAN'S GS DISPLAY

ENTERPRISE TENET

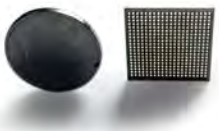
Each machine matters,Every customer values.
Only focusing brings success!

PART PHOTOS AT HOME AND ABROAD

EXHIBITION LIVE PHOTOS

GS-LFD SERIES FIBER LASER CUTTING MACHINE

OPEN TYPE WITH SINGLE WORKING TABLE



FEATURES

◎ Adopt international top brand laser source with stable performance.

◎ Convenient operation with fiber transmission, laser route adjustment is unnecessary.

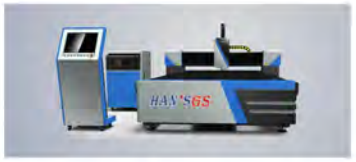
◎ Satisfied with flexible processing with small size and intense structure design.

◎ Gantry design with double drive structure, high damping machine tool with better rigidity which can stand higher speed and acceleration speed.

◎ Adopt with imported AC server motor system and transmission system to ensure the high speed, high precision and high reliability.

◎ The rack and guide is comprehensively sealed to prevent the friction without oil and dust pollution in order to make the drive system much longer service time and ensure the movement precision of the machine tool.

◎ Professional CNC laser control system with computer control which is more simple and convenient for operation.



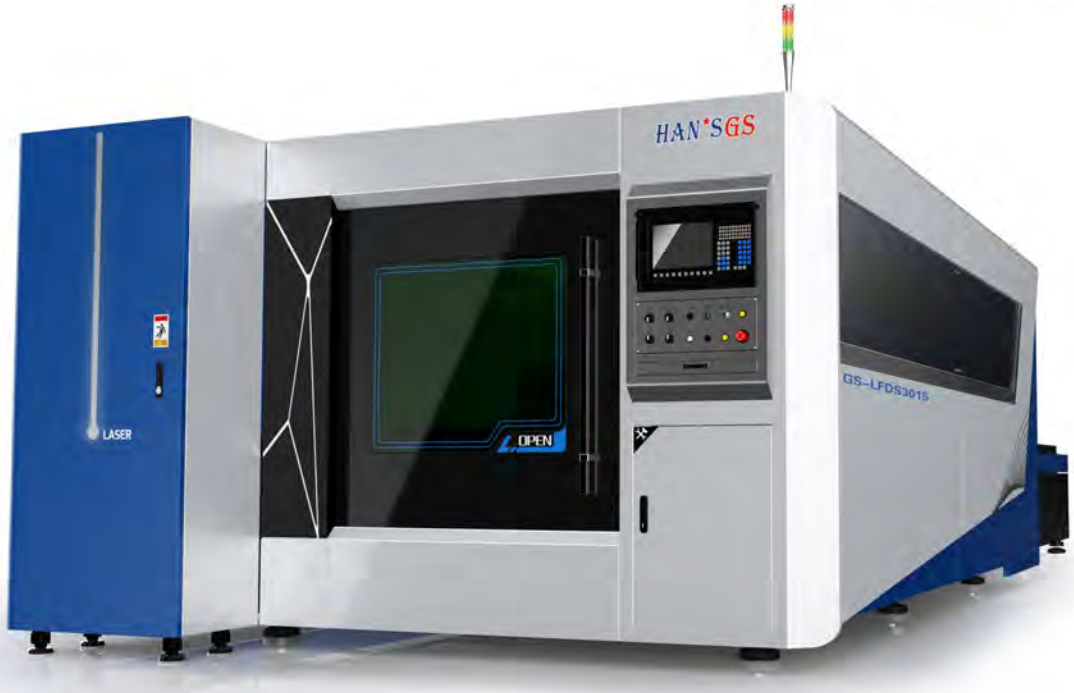
TECHNICAL PARAMETER

Model	GS-LFD3015	GS-LFD4020	GS-LFD6020
Output power of laser source		500W-1500W (Imported)	
Cutting range(L*W)	3000mm*1500mm	4000mm*2000mm	6000mm*2000mm
Z axis track	150 mm	150 mm	150 mm
Max. positioning speed	100m/min	100m/min	100m/min
Positioning accuracy	±0.03 mm	±0.03 mm	±0.03 mm
Repeat positioning accuracy	±0.02 mm	±0.02 mm	±0.02 mm
Max. positioning speed	100m/min	100m/min	100m/min
Voltage	380V,50/60Hz	380V,50/60Hz	380V,50/60Hz
Temperature	5°C-45°C	5°C-45°C	5°C-45°C
Continuous working time	24 Hours	24 Hours	24 Hours

HAN'S GS PRODUCT

GS-LFDS SERIES FIBER LASER CUTTING MACHINE

FULL COVER TYPE WITH EXCHANGEABLE PALLET



FEATURES

◎ Low running cost: High photo-electric conversion rate of 30%, more energy saving during work

◎ Low power consumption: Environmental protection, low power consumption which is just 20%-30% compared with traditional CO2 laser cutting machine.

◎ Low maintenance cost: without Reflective lenses, no need to adjust laser route, maintenance free.

◎ High speed: Capable to cut sorts of metal board with air blowed; the cutting speed can reach dozens of meters per min.

◎ High quality: good quality of cutting edge with less deformation, flat and elegant surface.

◎ High efficiency: Software with strong function, capable to design sorts of shapes, letters for cutting with easy and convenient operation.

◎ High precision: Adopt high precision drive structure with imported service motor, ±0.03mm positioning precision

◎ High protection: the laser source and machine tool is comprehensively sealed to ensure the security of the operator, the whole working process can be viewed and inspected through the glass.

TECHNICAL PARAMETER

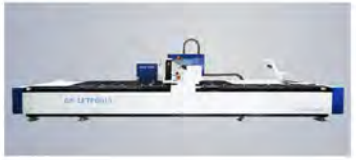
Model	GS-LFDS3015	GS-LFDS4020	GS-LFDS6020
Output power of laser source		1000W~4000W(imported)	
Cutting range(L*W)	3000mm*1500mm	4000mm*2000mm	6000mm*2000mm
Z axis track	250 mm	250 mm	250 mm
X/Y axis max positioning speed	120m/min	120m/min	120m/min
X,Y axis max location speed	1.2G	1.2G	1.2G
Min. cutting gap	≤0.1mm	≤0.1mm	≤0.1mm
Positioning accuracy	±0.03 mm	±0.03 mm	±0.03 mm
Repeated positioning accuracy	±0.01mm	±0.01mm	±0.01mm
Thickness of cutting material(according to material)		0.2-25mm	
Power requirement	380V,50/60Hz	380V,50/60Hz	380V,50/60Hz
Working temperature	5°C-45°C	5°C-45°C	5°C-45°C
Power supply protection level	IP54	IP54	IP54
Drive model		Imported servo motor	

GS-LFTP SERIES FIBER LASER CUTTING MACHINE

OPEN TYPE WITH TUBE CUTTING

FEATURES

- Double driving system,helical gear driving, which is more faster and more stable.
- 10mm Steel frame,more firmly
- Gantry beam,cast aluminum.High performance,no deformation,light weight and working fast
- Removable control cabinet air condition,more secure,more intimate and maintenance more convenient
- Famous system,Beckhoff CNC Control System
- Safety protection of cutting head,focal length adjustment,drawer type protective lens
- Lubrication system,manual one key lubrication and computer control automatic lubrication
- Double dedusting system,more environmentally friendly and safe.



TECHNICAL PARAMETER

Model	GS-LFTP3015	GS-LFTP6015
Output power of laser source	500W/1000W	500W/1000W
Cutting area (L*W)	3000mm × 1500mm	6000mm × 1500mm
Max tube diameter	200mm (Standard) , 300mm (Optional)	
Max tube processing length	3m	6m
X axle stroke	3048 mm	6048 mm
Y axle stroke	2000-2300mm	2000-2300mm
Z axle stroke	Cutting plate:100 mm Cutting tube: 250mm	Cutting plate:100 mm Cutting tube: 250mm
Cooling	water cooling	water cooling
Max accelerated speed of X, Y axles	1G	1G
Kerf Width	0.1~0.3 mm	0.1~0.3 mm
Positioning accuracy	±0.05 mm	±0.05 mm
Repeated positioning accuracy	±0.03 mm	±0.03 mm
Processing precision of work piece	±0.1 mm	±0.1 mm
Kerf harshness	Ra 3.2—12.5 μm	Ra 3.2—12.5 μm
Voltage	380V,50/60Hz	380V,50/60Hz
Continuous working time	24 Hours	24 Hours
Max bearing weight of working platform	600Kgs	600Kgs
Total installed capacity	20-25 KVA	20-25 KVA
Total protection level of power supply	IP54	IP54

GS-LFS SERIES

LAMPSHADE LASER CUTTING MACHINE

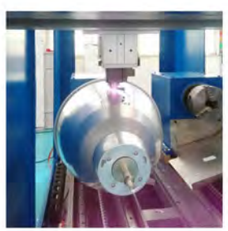
PROFESSIZONAL MACHINE FOR CUTTING LAMPSHADE

FEATURES

◎ Customized products for different requirements

◎ Protect dynamic performance, high speed, high precision

◎ Adopting the duplex mode, X1 axis & X2 axis can be alternately cut and refueling, which can greatly improve the efficiency. More efficiency, more production and lower cost.



TECHNICAL PARAMETER

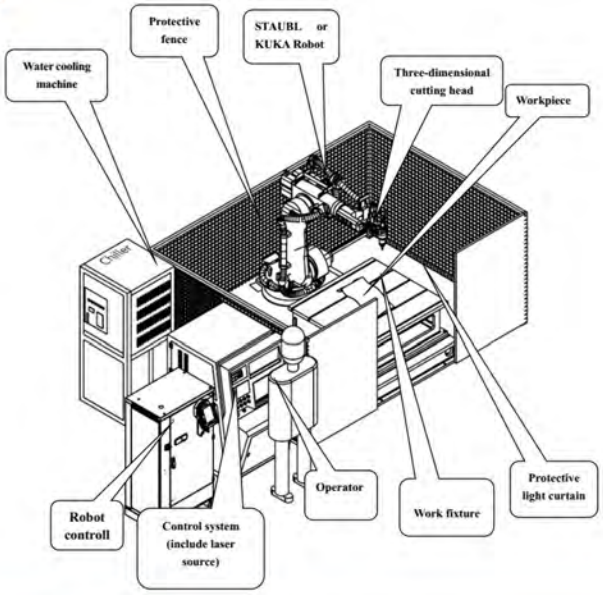
Item	Specifications
Machine bed	GS-LFS1010
Laser source	IPG 500W/700W/1000W
Servo motor and drive	X1axis : 2.0KW; X1axis : 2.0KW; Y axis : 0.75KW; Z axis : 400W with brake C1axis : 1.5KW C1axis : 1.5KW
Precision planetary gear reducer	GPX142 i=25
Temperature and humidity adjusting machine	250W
Voltage Stabilized supply	20KVA
Display	19" (Equipped with wireless mouse)
Lubrication system	Motion axis lubrication
Maximum cutting workpiece	φ500X800（Length）mm

GS-KR SERIES
ROBOT (3D) LASER CUTTING MACHINE

FLEXIBILITY PROECSSING SOLUTION

FEATURES

- Flexibility processing, equipped three-dimensional cutting software robots, which can realize three-dimensional cutting.
- With professional software can design all kinds of graphics or text instant processing, processing and flexible, simple operation, convenient.
- Low consumption, high efficiency, stable performance and beautiful appearance.
- Wide application. Aerospace, locomotive manufacturing, engineering machinery, textile machinery, agricultural machinery, elevator manufacturing, automobile manufacturing, hardware electrical appliance manufacturing.



TECHNICAL PARAMETER

NO.	ITEM	SPECIFICATION
1	Robot	KUKA KR30HA or STAUBLI RX160L
2	Laser source	IPG (500W~2KW)
3	Control system	SIEMENS S7-1200KUKA-KR30H Robot controller
4	Z axis servo system	Raytool
5	Laser cutting head	Raytool
6	Working table	HAN'S GS
7	Cooling system	HAN'S Double temperature double control
8	Air distribution system	Including air compressor, cold dry machine, filter, etc.
9	Protective light curtain	Length 500 super wing Electronics

HAN'S GS PRODUCT

HAN'S GS PROCESS DISPLAY

Process display
Quality control

ADVANCED SOLUTIONS
OEM MADE AND CUSTOMIZED

HAN'S GS LASER is a leading manufacture of complete laser equipment for nearly 20 years, with development idea of professional, focus, innovation and excellence, can provide customer with the most professional products and services.

Our robust experience in advanced machining processes enables us to design customized solutions to meet the needs of each client, which including preliminary engineering work, study of the machining processes, technical specifications of the equipment, installation requirements and the work team needed to tackle this type of challenge.

PROCESS CONTROL
PROFESSIONAL ACHIEVEMENT QUALITY

Quality is our paramount mission that underpinning the lifeline of the company, and it is the most important factor to maintain long-term business relationships with customers. Special attention is paid to the quality of every unit of HAN' S GS laser cutting machine. Standard quality control system and team are responsible to insure the product quality in every process.

We have the most advanced production and testing instruments to ensure the quality of each part of the machine. For example, the milling machine and marble alignment ruler are used to be produce process, and laser interferometer and laser power meter are used to assembling process, the optical microscope is used to be inspecting process. In additional, our cutting samples are also sent to the professional detection agent to do testing before accepting process. Strong wooden cases ensure to avoid damage during shipping. A large number of experienced engineers let us take care of the installation, commissioning and training of the machines anywhere in the world.

VISITING

PRODUCING

ASSEMBLING

DEBUGGING

INSPECTING

ACCEPTING

SHIPPING

INSTALLING

HAN'S GS

LASER WELDING MACHINE SERIES
GEAR LASER WELDING EQUIPMENT

FEATURES

- Highly automatic level: adopting auto preheat machine, robotic hand for loading and unloading, four-stations auto turn plate;
- Highly integration: integrated the auto preheat machine, welding main machine and unloading conveyor together;
- High quality: with auto pressing device, effectively reduce welding deformation, highly improve the production efficiency and quality;
- Not affected by the interference of magnetic field, without electric pole, no pollution.
- Without space limitation, could weld small parts and the parts of close interval;
- Non-contact welding, greatly reduce the deformation and wear of the appliance;
- Can weld various materials, and even any two kinds of various different textures and different natures can be welded well.

Gear welding metallographic

Transmission gear laser welding

HC01

HC02

TECHNICAL PARAMETER

Laser source	Rofin-DC030（fiber/CO2）
Output wave length	10.6um
Output power range	300-3000W
Power stability	± 2%（long term）
Diameter of laser beam	20-25mm
Laser beam stability	≤0.15mrad
Water chiller	LSJR-500BX chilling system
Rated refrigerating	50KW
CNC machine tool（X, Y, Z-axis）	
Location accuracy	± 0.02mm
Relocation accuracy	± 0.01mm
Four-station and auto loading turn plate	0.9s/station
Processing parameters	
Max. Welding depth	5mm
Min. Welding width	1mm
Welding speed	1.5~3.0m/min
Processing size	
External diameter	Φ40~Φ130mm
Internal diameter	Φ35~Φ70mm
Thickness	20~60mm
Max. Length of gear shaft	350mm
Max. Diameter of gear shaft location	Φ35mm
Control system	SIEMENS 828D+auxiliary PLC

HAN'S GS

LASER CLADDING MACHINE SERIES

SEMICONDUCTOR LASERHEAT TREATMENT COMPLETE SETS OF EQUIPMENT

FEATURES

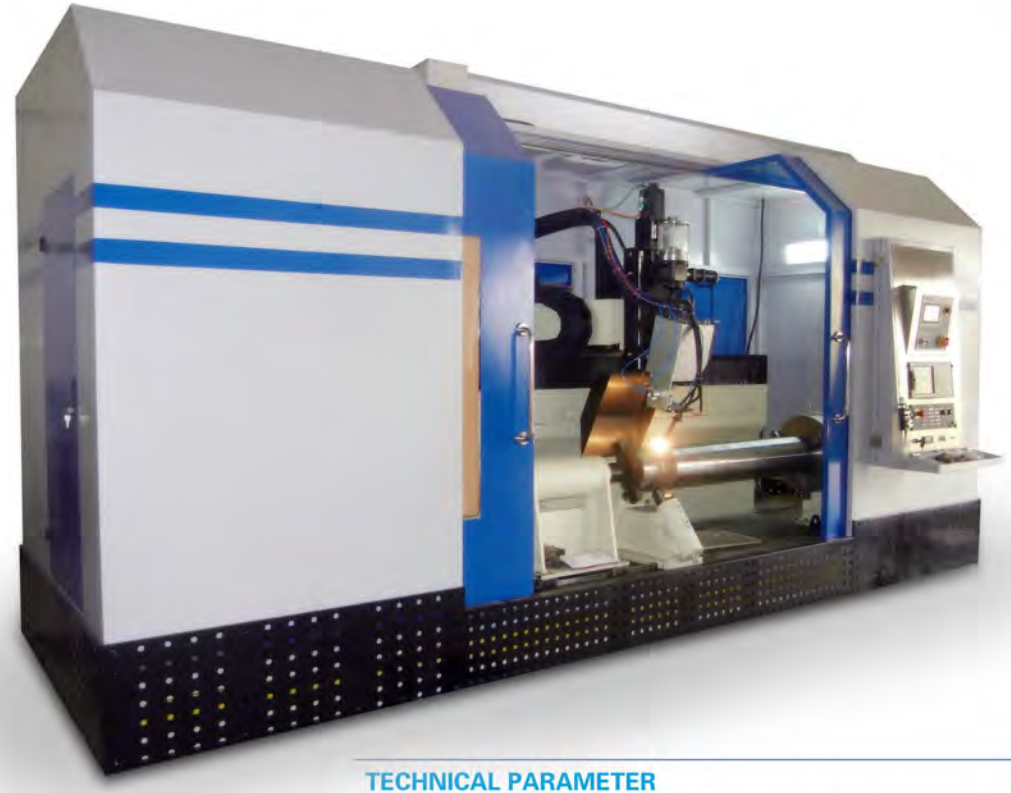
◎ It is the special equipment for coal industry shaft parts remanufacturing, repair, processing of high efficiency equipment suitable for mass production.

◎ Satisfy laser cladding, laser alloying and other advanced manufacturing/remanufacturing processing requirements on metal surface.

◎ Adopt advanced semiconductor laser, high integrated equipment with three or four axis CNC machine too.

◎ Short wavelength, high absorption efficiency, electro-optical conversion rate can reach 45%, energy distribution uniformity, laser position precisely controlled.

◎ High efficiency, high reliability, compact structure, fully enclosed area, external visual monitoring processing.



TECHNICAL PARAMETER

Laser	Semiconductor laser direct output
Output power range	3-10kw
Stability of the power	±2%
Electro-optical conversion rate	Typical values can reach 45%
Laser wavelength	980nm±10nm
Wavelength output way	continuous
Input voltage	Three-phase 380VPEN±10% 50Hz
CNC machine tools	
Stroke (mm)	X axis：2500×Y axis： 400×Z axis: 400
Tailstock mobile	2100
Ax.workpiece length	2800
Max.workpiece diameter	800
Verall dimensions	L: 5500*W: 1950*H:2700 (not including adjusting shim height)
Control system	Siemens 828D

HAN'S GS

LASER CLADDING MACHINE SERIES

CO2 LASER CLADDING EQUIPMENT

FEATURES

◎ High density of the laser beam, high heating speed, less heat effected area and less deformation.

◎ Controlling the laser energy input, the cladding dilution of basic material can be controlled in a very low level, to ensure the cladding layer and substrate formed under the premise of metallurgical combination, keep excellent properties of the original selected cladding material.

◎ Cladding layer dilution degree is small, and can be precisely controlled.

◎ Able to select the area to do cladding, less material consumption.

◎ Due to the rapid heating and cooling, the laser cladding layer' s tissue is uniform and dense, less micro defects, better than other techniques.

◎ Belong to non-contact processing, easy automation, realize flexible manufacturing.

◎ Precisely control the power, position and shape of laser beam, easy to achieve selected area and even micro area cladding, and rarely no heat effect to original material.

◎ By mixing different alloy powder composition analysis, metallurgical bond layer fully dense.

TECHNICAL PARAMETER

Laser source	TFL-6K/10K laser source/ semi-conductor laser source		
Optical system	Fly optical path,Light path diameter φ70		
	Manual type swing bald,Turning Angle±60°manual adjustment		
CNC machine tools			
model	2M	2.5M	3.5M
Working area (mm)	2000*600*500	2500*1000*500	3500*1000*500
X,Y,Z axle working Speed (mm/min)	0-5000		
Location accuracy	±0.1mm/300mm		
Relocation accuracy	±0.5mm		
Horizontal rotating table			
Max. chuck diameter	Three claw Φ500/center height 500mm	Four claw Φ630/center height 690mm	Four claw Φ630/center height 690mm
Rotating speed	0.5-15rpm		
Platform size (mm)	3860*1450*280		
Center shaft	Bearing diameter Φ100-Φ350 one set	Bearing diameter Φ370-Φ630 two sets	Bearing diameter Φ370-Φ630 two sets
Max. Length of workpiece	2500MM	2500MM3500MM	4000MM
Max. Diameter of workpiece	Φ800	Φ800Φ1350	Φ1500
Max. Weight of workpiece	5T	5T10T	15T
Control system	Siemens 828D AC servo motor		

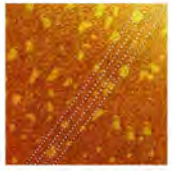
HAN'S GS

LASER PERFORATING MACHINE SERIES

LASER PERFORATING MACHINE OF CIGARETTE TIPPING PAPER

FEATURES

- HAN 'S GS series Cypress paper perforating equipment has completely independent intellectual property rights, technology has reached the international advanced level.
- Products have passed achievement appraisal of the state tobacco monopoly administration, perforating firmness, flatness on both ends conform to the state tobacco monopoly administration standard.
- Perforating area is enclosed smoke extraction system, ensuring the laser head and production area no dust pollution
- Can automatically stop when paper broke or paper finished in the process of perforating.
- Standard perforating line is 1 ~ 8 row, the laser light path is 4 or 8 way, flexible perforating line number can be optional, ensures the highest efficiency of laser power and the highest rate of punching hole.
- Adopt independent patent adjustable optical focusing system, optical path debugging more convenient, production more stable.
- Equipment installed the zero meter device (has been declared national patent) ensuring the completely perforating of the cypress paper.
- Ten years R&D experience, product performance is stable, uninterrupted work all day,more than 10 years' service life.



TECHNICAL PARAMETER

Model HAN*S GS	D200P	D400P	D600P	DKJ1000P	DKJ2000P
Laser power	200W	400W	600W	1000W	2000W
Spectroscopic type	Prismatic decomposition				
Prism rotating speed	24000	30000	30000	30000	30000
No. Of spindle mirror	24,36,48 optional				
Pitch-row	0.4-1.0mm (touch screen to set parameters)				
Max. Perforating speed	4600,000/min	8640,000/min	8640,000/min	8640,000/min	8640,000/min
Max. Linear speed	450m/min	520m/min	520m/min	650m/min	650m/min
Monthly production	18-25T	30-35T	35-40T	40T	45T
Index setting type	Independent& simple				
Porosity range(CU)	70-2000CU				
Gram weight range of the processing paper	Conform to the industry standard of cypress paper perforating				
Variable coefficient	≤5%				
Processing bobbin paper	Φ430mm (max.)				
Bobbin paper width range	48-78mm				
Surface roughness	±0.3				
Optical elements replacing cycle	> 3 years				
Machine life	> 10 years				
Zero meter device	Optional, can be set excluding the length				

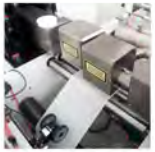
HAN'S GS

LASER PERFORATING MACHINE SERIES

LASER PERFORATING MACHINE OF PLASTIC FILM

FEATURES

- The size, quantity and distance could be automatic controlled by the laser system software.
- Can process circular hole and elliptical hole, multipath punching at the same time.
- Without actual contact between the laser beam and materials.
- The perforating diameter: 0.05~0.15mm
- Qualified product processed during machine starts and stops.
- High efficiency of the laser power, wide range of materials.
- Sharp-edged micro-hole which sealed by thermal energy, solid and no material left on the film.
- Ten years R&D experience, product performance is stable, uninterrupted work all day,more than 10 years' service life.
- Increase the goods' shelve lifetime: micro-hole helps airflow and moisture release, keep the goods fresh.
- Easy filling and no leakage: the air could be out though the micro-hole, make the packing bags compact and easy to be stacked.



TECHNICAL PARAMETER

Model	D200P-1500P (Optional)
Laser power	200W-1500W
Spectrometer	prism spectrometer
Laser head	4,8,12 (Optional)
Rotate speed of prism	40000
No. Of prism surface	24, 36,48 (Optional)
Hole distance	1-5mm (set in the touch screen software)
Max. Perforating Speed	4.6 million holes/min
Max. Linear speed	450m/min
Monthly output	18-25T
Index setting	Independent, simple
Max. Bobbin size	Φ520mm
Bobbin width	48-78mm
Bobbin flatness	±0.3
Original optical replacement cycle	> 3 years
Machine lifetime	> 10 years

WORLD WIDE MAP

- Manufacturing plant
- American customers
- Middle East customers
- Asian customers
- Europe
- African customers

COSTOMER SERVICE

Pre–sale Service

• Welcome to send your sample to our company for testing. We will supply testing report with video and photos together for your consider. And find the best solution way for your products.
• Welcome your special requirement of machine also, we are ready for provide all kinds of professional programs and auxiliary equipment to meet your demand as much as possible.
• Our best hope is that welcome to visit our company!

In–sale Service

• We can supply engineer go to your country to help you install machine and do training after-service together. And welcome your engineer come to our company learn how to operate machine also.

After–Sale Service

• Our after-sale network is all over the world which will provide the comprehensive after-sale service to our customer.
• We have established a 24-hours worldwide service information processing system, with professional engineers one-on-one offering service. A life-long free software upgrades. Also welcome to our company free participate in various new technical training courses from the date of purchase.

HAN'S GS LASER