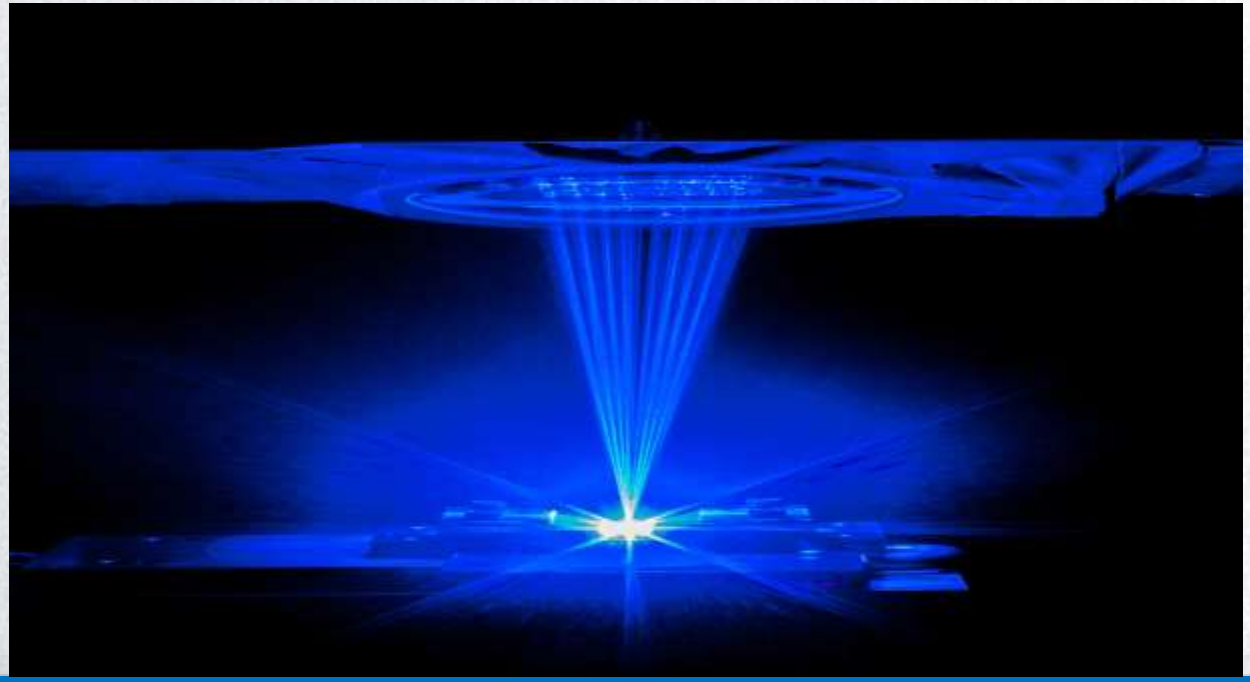

It starts from the Laser

Contents

01

Company Profile

Company Profile

Wuhan Nice Laser Co., Ltd is high-tech company based in Optical Valley, Wuhan. Established in 2022, it is dedicated of providing laser marking, welding and cleaning systems in the sheet metal, medical, packaging, automobile industry, etc. And it can also provide customized laser solutions to the customers. Our target is to deliver the laser equipment with the extraordinary service support. Nice Laser has obtained more than 10 years experience in the laser technology research and development. It has provided complete laser equipment application solutions for many companies in domestic and overseas market, and its customers are mainly located in China, Singapore, South Korea and other countries and regions.

Corporate Culture

Trust forges quality

Innovation leads future

02 Certificate

FDA U.S. FOOD & DRUG ADMINISTRATION

U.S. Food and Drug Administration
Center for Devices and Radiological Health
Document Mail Center - WO66-G609
10903 New Hampshire Avenue
Silver Spring, MD 20993-0002

This message is to acknowledge receipt of your **Initial Product Report** , which was filed pursuant to the regulations for the administration and enforcement of the Radiation Control for Health and Safety Act of 1968 (Title 21, Code of Federal Regulations, Subchapter J) as they pertain to the submission information description below. If your submission is a report, it has been filed according to reporting requirements in Title 21, Code of Federal Regulations (CFR), Part 1002. Your submission has been assigned an informal subject title below after "Purpose:". Your submission has been assigned an ACCESSION NUMBER which can be used by you and FDA to identify your submission.

WARNING:

THE ACCESSION NUMBER ASSIGNED TO YOUR SUBMISSION DOES NOT IMPLY, CONVEY OR CONSTITUTE FDA APPROVAL OF ANY REPORT, APPLICATION FOR VARIANCE OR EXEMPTION, NOTIFICATION, OR ANY OTHER SUBMISSION OR ITS CONTENTS. THE ACCESSION NUMBER IS ONLY AN ACKNOWLEDGMENT THAT FDA HAS RECEIVED YOUR SUBMISSION. IT MAY BE REVOKED BY FDA. ITS DISCLOSURE IS YOUR RESPONSIBILITY. IT IDENTIFIES YOUR SUBMISSION FOR PRODUCTS OR PRODUCT FAMILIES IDENTIFIED IN THIS MESSAGE.

Be advised that failure to comply with FDA regulations may result in notification of affected persons and corrective actions at no cost to the purchaser, pursuant to 21 CFR Part 1003 -- Discovery of Defect or Failure to Comply and 21 CFR Part 1004 -- Repurchase, Repairs, or Replacement of Electronic Products.

Please be aware that the following CDRH Product Code(s) have been assigned to the product(s) described in this report:

RHK defined as Laser Marker Or Engraver, Industrial Or Commercial

If these products will be shipped to the United States, the shipping broker will need to provide the full FDA Product Code at the time of entry, structured as follows:

958 - RHK

---------- DOCUMENT RECEIVED, FILED, & ACKNOWLEDGED ----------

This automated notification from the CeSub Submission Process contains general information about the aforementioned submission:

Accession Number: 251[illegible]3-000
Date Loaded: **May 29, 2025**
Document Date: **May 27, 2025**
Establishment Name: **WUHAN NICE LASER CO., LTD**
Purpose: **This submission is a(n) Initial Product Report. These Material Processing Laser Products include designated model(s) Online LM 60C, Online LM 200C, Online LM 30C, Online LM 100C.**

Submitter: **Vera Hwang**
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Reporting Official: **Mike Huang**
Email: **mike@nice-laser.com**

03

Products

Laser Marker

Laser Welder

Laser Cleaner

3D Printer

CNC Press Brake

Fiber Laser Marker LM 20F

Optical fiber laser marking machine uses optical fiber to output laser beam, and then realizes laser marking through high-speed scanning galvanometer system. The fiber laser marking machine has high electro-optic conversion efficiency and is air cooling. The whole machine is small in size, with good output beam quality and high reliability. It can engrave metal materials and some non-metal materials, and is mainly used in precise fields that require high depth, smoothness, and fineness, such as watches, jewelry, mold industries, bitmap marking, etc.

Technical Specification

Model		LM 20F			
Laser source parameter	Laser power	20W			
	Wavelength	1064nm			
	Repetition frequency	30~60kHz			
Galvo parameter	Scanning speed	F=160mm,≤7000mm/s			
Optical output parameter	Marking range	F=160mm Standard	F=100mm Optional	F=210mm Optional	F=254mm Optional
		110mm ×110mm	70mm×70mm	145mm×145mm	175mm×175mm
	Line width	0.06mm@ F=160 mm			
	Min character height	0.2mm @ F=160 mm			
Cooling	Cooling method	Air cooling			
Lifting mechanism		Manual lifting: 300mm			
Operation	Power supply	1.0KW/AC220V/50-60Hz			
	Temperature	0~40° C			

Fiber Laser Marker HLM H20

Optical fiber laser marking machine uses optical fiber to output laser beam, and then realizes laser marking through high-speed scanning galvanometer system. The fiber laser marking machine has high electro-optic conversion efficiency and is air cooling. The whole machine is small in size, with good output beam quality and high reliability. It can engrave metal materials and some non-metal materials, and is mainly used in precise fields that require high depth, smoothness, and fineness, such as watches, jewelry, mold industries, bitmap marking, etc.

Technical Specification

Model		H20/30/50			
Laser source parameter	Laser power	20/30/50W			
	Wavelength	1064nm			
	Repetition frequency	30~60kHz			
Galvo parameter	Scanning speed	F=160mm,≤7000 mm/s			
Optical output parameter		F=160 mmStandard	F=100mm Optional	F=210 mm Optional	F=254 mm Optional
	Marking range	110 mm ×110 mm	70 mm ×70 mm	145 mm ×145 mm	175 mm×175mm
Cooling	Cooling method	Air cooling			
Built-in Battery		216wh			
Operation	Power supply	1.0KW/AC220V/50-60Hz			
	Temperature	0~40°C			
Dimension	525*423*310mm				
Weight	Gross weight: 10KG				

Online Fiber Laser Marker LM 20F

Optical fiber laser marking machine uses optical fiber to output laser beam, and then realizes laser marking through high-speed scanning galvanometer system. The fiber laser marking machine has high electro-optic conversion efficiency and is air cooling. The whole machine is small in size, with good output beam quality and high reliability. It can engrave metal materials and some non-metal materials, and is mainly used in precise fields that require high depth, smoothness, and fineness, such as watches, jewelry, mold industries, bitmap marking, etc.

Technical Specification

Model	LM 20F
Wavelength	1064nm
Beam quality	<1.4 m2
Laser power	20/30/50W
Cooling method	Air
Focus distance	170mm
Min line width	0.15mm
Min character	0.7mm
Scanning speed	0-7000mm/s
Graphic format supported	DXF/PLT
Voltage	110/220V
Frequency	50/60Hz
Dimension	450mm*450mm*1300mm
Weight	80KG
Working environment	Temperature: 0-45 degrees, humidity: 5%-75%, no water or dust
Power	600W
Safety protection	IP54
Laser source safety level	4
Marking angle adjustment	0, 45, 90 degrees

CO2 Laser Marker LM 30C

CO2 laser marking machine is a laser galvanometer marking machine that uses CO2 gas as the working medium. The CO2 laser uses C02 gas as the medium, fills C02 and other auxiliary gases into the discharge tube and applies high voltage on the electrode, a glow discharge is generated in the discharge tube, and the gas releases a laser with a wavelength of 10.64um. After the laser energy is amplified, mirror scanning and F. _Theta mirror focusing, under the control of computer and laser marking control card, images, characters, numbers and lines can be marked on the workpiece according to the requirements. CO2 laser marking machines are mostly used in: auto parts, hardware products, daily necessities, electrical appliances, ceramics, EP materials, electronic components, food, cosmetics, pharmaceutical packaging, etc. The maintenance-free time of the whole machine is more than 40,000 hours.

Technical Specification LM 30C

Model	LM 30C
Wavelength	10640nm
Beam quality	<1.4 m2
Laser power	30/50W
Cooling method	Air
Focus distance	170mm
Scanning speed	0-7000mm/s
Graphic format supported	DXF/PLT
Voltage	110/220V
Frequency	50/60Hz
Working environment	Temperature: 0-45 degrees, humidity: 5%-75%, no water or dust
Power	600W
Safety protection	IP54
Laser source safety level	4

UV Laser Marker LM 5U

UV laser marking machine is developed with 355nm ultraviolet laser source. This machine adopts third-order intracavity frequency doubling technology. The 355nm UV laser focusing spot is very small, greatly reducing the mechanical deformation of the material. It belongs to cold light, so it is mainly used for ultra-fine marking and engraving, especially suitable for marking food, pharmaceutical packaging materials, drilling micropores, glass , high-speed division of porcelain materials and complex graphic cutting of silicon wafers and other application industries.

Technical Specification

Model	LM 5U
Wavelength	355nm
Laser power	5W
Cooling method	Water
Focus distance	170mm
Min line width	0.01mm
Min character	0.1mm
Scanning speed	0-7000mm/s
Graphic format supported	DXF/PLT
Voltage	110/220V
Frequency	50/60Hz
Dimension	930*750*1050mm
Weight	120KG
Working environment	Temperature: 10-30 degrees, humidity: 5%-75%, no water or dust

Handheld Laser Welder HLW1500/2000

Hand-held laser welder is a new type of welding method, mainly aimed at welding thin materials and precision parts. It can realize spot welding, butt welding, lap welding, sealing welding, etc., with small weld width, small heat-affected zone and small deformation, fast welding speed, smooth and beautiful welding, no need post-welding or only need simple treatment, high quality welding seam, no porosity, precise control, small focusing photoelectricity, high positioning accuracy, easy to realize automation.

Handheld Laser Welder Advantages

1、The welding speed is 2-4 times faster than traditional welding, and one machine can save at least 2 welders a year.

2、The operation mode of the hand-held welding gun head enables the workpiece to be welded at any position and at any angle.

3、No need welding platform, small space coverage and versatile welding products.

4、Low welding running cost and almost free maintenance.

5、Beautiful welding seam: smooth and beautiful weld without deformation or grinding process, saving time and cost.

Technical Specification

Model	HLW1500/2000
Power	1500W/2000W
Protective gas	Argon or Nitrogen
Welding method	Dot or circles
Wire feeder(Diameter)	0.3-1.2mm
Welding penetration	1.5-2mm
Cooling method	Water cooling
Water required	DI water
Fiber cable length	10 meters
Power consumption	110/220V
Welding capacity	50/60Hz

Handheld Pulse Laser Cleaners

200W air cooling

1500W water cooling

Handheld Pulse Laser Cleaner LCM200/300/500 Technical Specification

Model	LCM200/300/500
Power	200W/300W/500W
Protective gas	Compressed air
Cooling method	Air cooling
Fiber cable length	10 meters
Power consumption	110/220V
Welding capacity	50/60Hz
Weight	28KG

Handheld Laser Cleaner LCM1500/2000 Features

1. No grinding, non-contact cleaning, avoid secondary pollution
2. High cleaning precision and strong controllability.
3. No consumables and environmental friendly.
4. The simple operation to plug in and play. And it can be hand-held or cooperate with a robot to realize automatic cleaning.
5. High cleaning efficiency, saving time.

Handheld Laser Cleaner VS Traditional Cleaning Methods

	Laser cleaning	Chemical cleaning	Mechanical polishing	Dry ice cleaning	Ultrasonic cleaning
Cleaning method	Laser, non-contact	Chemical cleaning agent, contact	Mechanical sandpaper, contact	Dry cleaning, non-contact	Cleaning agent, contact
Workpiece damage	Non-damage	Damage	Damage	Non-damage	Dry cleaning, non-contact
Cleaning efficiency	High	Low	Low	Middle	Middle
Consumables	Electrical power	Chemical cleaning agent,	Sandpaper, grinding wheel, etc	Dry ice	Specialized cleanout fluid
Cleaning performance	Excellent	Average, uneven	Average, uneven	Excellent, uneven	Excellent, small cleaning area
Accurate cleaning	Controllable accuracy	Uncontrollable and low accuracy	Uncontrollable and average accuracy	Uncontrollable and average accuracy	Could not clean target area
Pollution	No pollution	Chemical pollution	Pollution	No pollution	No pollution
Investment	One time high investment, low maintenance cost	Low investment, high cost on consumables	One time high investment, low consumable cost	Medium invement, high consumables cost	Low investment, medium consumable cost

Technical Specification

Model	LCM1500/2000
Power	1500W/2000W
Protective gas	Argon or Nitrogen
Welding method	Dot or circles
Wire feeder(Diameter)	0.3-1.2mm
Welding penetration	1.5-2mm
Cooling method	Water cooling
Water required	DI water
Fiber cable length	10 meters
Power consumption	110/220V
Welding capacity	50/60Hz

3D Laser Printer SLA 600 Features

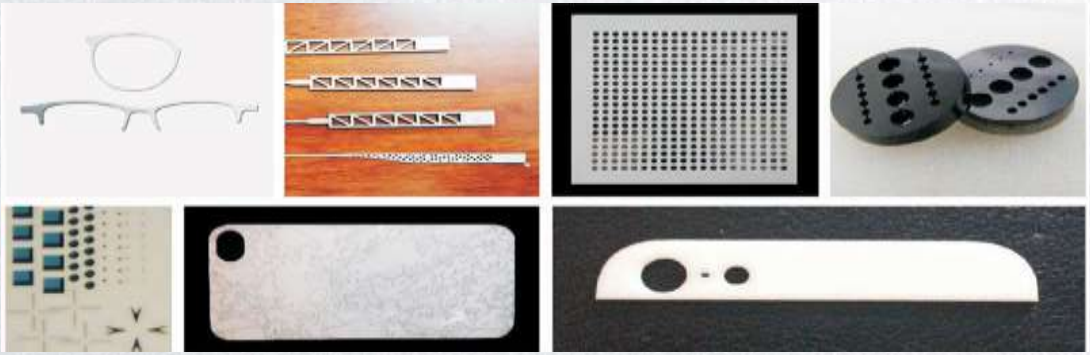
1. High precision: SLA can make very fine three-dimensional objects with high resolution and high precision.
2. Material diversity: SLA can use a variety of photosensitive resin materials, such as clear, black, white, etc., to meet different application needs.
3. Rapid manufacturing: SLA can quickly manufacture three-dimensional objects, and the manufacturing speed is faster than traditional manufacturing methods.
4. High degree of design freedom: SLA can manufacture very complex three-dimensional objects with a high degree of design freedom.

Technical Specification

Model	SLA 600
Maximum printing size	600*600*400mm
Scanning speed	18000mm/s
Coating thickness	0.04-0.2mm
Molding accuracy	±0.1mm（L≤100mm）； ± 0.1%× Lmm (L>100mm)
File format	STL/SLC
Network	Ethernet, TCP/IP
Software	3D control
Dimension and weight	1160*1370*1900mm, 900KG

LC 4050 Laser Cutting Machine Features

1. 0.05mm fine kerf can be achieved with the appropriate assist gas to ensures smooth and clean cuts.
2. The autofocus cutting head utilizes an imported high-precision capacitive sensor, which dynamically tracks the plate height and automatically adjusts the cutting height to prevent collisions.
3. A measurement-grade marble platform ensures cutting accuracy.
4. A high-precision linear motor module ensures faster cutting speeds and an accuracy of ±0.02mm.
5. Advanced maintenance-free fiber lasers provides high stability and long life.



Technical Specification

Model	LC4050
Cutting size	400*500mm
Laser power	500W/1000W/1500W/2000W
Cutting thickness	Up to 5mm (According to materials)
Cutting accuracy	≤± 0.03mm
Empty run speed	500mm/s
Machine power consumption	10KW
Power requirement	380V, 50/60Hz
File format	DXF
Dimension and weight	1530mm*1530mm*1805mm, 1800KG

Thank you for your trust

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