

Laser Cutting

Equipments Product Manual

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About us

WUHAN GNLASER EQUIPMENT MANUFACTURING Co., Ltd. is a national high-tech enterprise integrating R&D, production, sales and service of complete sets of laser equipments. Founded in 2002, GNLASER has been committed to providing complete laser equipment solutions for customers all around the world over the past 19 years.

We now have two production bases, headquarters base and GNLASER intelligent equipment production park 2.0, with a total production area of 80000 square meters.

Relying on our own professional technical team, perfect sales network and after-sales service system, GNLASER has established 55 after-sales service outlets with more than 250 service personnel domestically.

GNLASER has obtained EU CE certification and ISO9001 quality management system certification.

Our products have been exported to more than 80 countries and regions around the world, such as Hong Kong, South Korea, Vietnam, Malaysia, Thailand, Australia, the United States, Japan, Germany, the Netherlands, Jordan, etc.

We "GN Man" who strives for excellence and technological innovations takes the national cause of transforming the laser technology into the advanced productivity as our mission. We are striving to build GNLASER as a trustworthy “MADE-IN-CHINA” high-end brand in 2025.



GN-CFD-G Series

Ultra high power laser cutting machine

Products



· High cutting thickness, Sharp

Maximum support 20000w laser, cutting like lightning, defeat any thick plates.

· Bus control, smart and worry-free

The bus control has the characteristics of stability and reliability, easy deployment, easy commissioning, safe production, rich functions and excellent working performance.

· Exchangeable working table, efficient and time saving

Two exchangeable table takes only 11 seconds for the exchanging process which greatly improves work efficiency and saves costs.

· Powerful processing database, diverse functions

Provide a rich database of laser cutting process parameters with multiple functions and special processes, one-key typesetting and cutting, saving time and effort.

Applicable objects: Customers who have certain requirements for cutting thickness and speed, prefer the G series which are fast, precise and cut according to the thickness.

Cutting sample



Processing

PROCESSING FORMAT (CUSTOMIZED)

4000*2000mm/6000*2000mm / 6000*2500mm/ 8000*2500mm / 10000*2500mm/12000*2500mm

Device parameters

▲ Equipment model	GN-CFD-G Series
▲ Laser brand	Raycus / IPG
▲ Laser power	6000w-20000w
▲ Positioning accuracy	≤±0.03mm/m
▲ Reposition accuracy	≤±0.02mm
▲ Maximum speed	130m/min
▲ Maximum acceleration	1.5G
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

Cutting of stainless steel, carbon steel, alloy steel, silicon steel, aluminum alloy steel, galvanized steel and other kind of sheet metal materials.

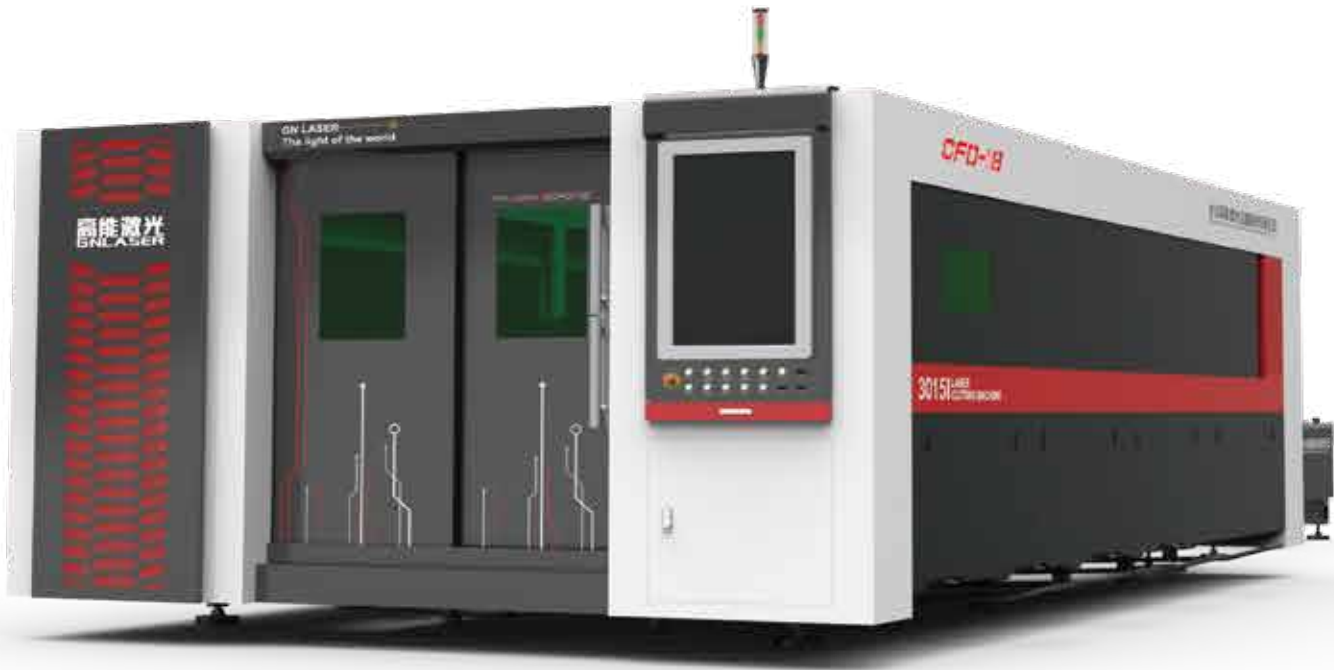
Disclaimer:

1. The accuracy of the workpiece depends on the quality of various materials, pretreatment, plate thickness and processing environment and other factors. The parameters are for reference only, Please refer to the actual cutting condition.
2. Limit cutting is for reference only for proofing, not as an indicator of daily cutting parameters.
3. It reserves the right to modify dimensions, design, equipment and has passed ISO09001 and EU CE certification.

GN-CFD-I8 Series

High power laser cutting machine

Products



• Big enclosure protection, safer

Machine with the sheet metal cover is isolated, making the operation safer.

• Multiple protection functions, safe and secure

Various protection functions such as follow-up control and gas path self-calibration can effectively reduce the occurrence of failures and make the use more assured.

• Exchangeable working table, efficient and time saving

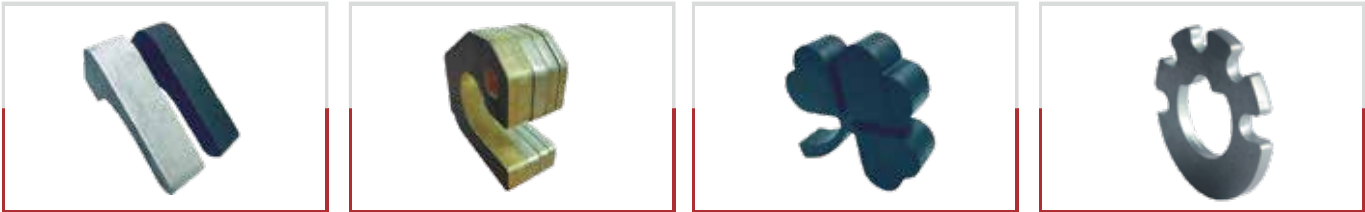
Two exchangeable table takes only 11 seconds for the exchanging process which greatly improves work efficiency and saves costs.

• Strive for strict testing standards, high end quality

Always Insist on 3 phrase inspections (supplier self-inspection, warehousing inspection and pre-installation inspection). Every GNLASER produced equipment is strictly inspected by laser interferometer!

■ **Applicable objects:** suitable for enterprise customers who process medium thickness plates, with high precision and fast speed which can meet the requirements of customers who pursue high efficiency.

🔪 Cutting sample



Processing

PROCESSING FORMAT (CUSTOMIZED)

3000*1500mm / 4000*2000mm / 6000*2000mm / 6000*2500mm/8000*2500mm/10000*2500mm/12000*2500mm

✂ Device parameters

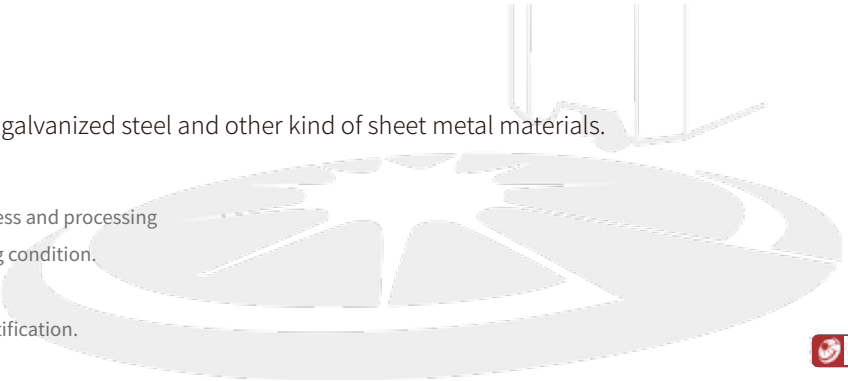
▲ Equipment model	GN-CFD-I8 Series
▲ Laser brand	Raycus / IPG
▲ Laser power	6000w-12000w
▲ Positioning accuracy	≤±0.03mm/m
▲ Reposition accuracy	≤±0.02mm
▲ Maximum speed	100m/min
▲ Maximum acceleration	1.2G
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

📍 Scope of Application

Cutting of stainless steel, carbon steel, alloy steel, silicon steel, aluminum alloy steel, galvanized steel and other kind of sheet metal materials.

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GN-NCF Series

Universal Laser Cutting Machine



· Small and exquisite,
high quality is the soul
Simple and integrated design, space saving.

· Simple operation, easy to use
Intelligent operating system with simple and easy
understanding interface for quick learning and operation.

■ Applicable objects: Suitable for growing corporate customers for sheetmetal processing, thin plate cutting,
high precision, low use cost, simple operation and maintenance.

· Imported transmission parts,
accuracy guaranteed
The cutting accuracy is guaranteed which can ensure the equipment's
long-term high-speed cutting accuracy remains unchanged.

· Quality assurance, low maintenance cost
Optimizing core components to ensure cutting output,
low failure rate and low maintenance expenditure.

Cutting sample



Products

Processing

PROCESSING FORMAT (CUSTOMIZED)

3000*1500mm / 4000*2000mm / 6000*2000mm / 6000*2500mm/

Device parameters

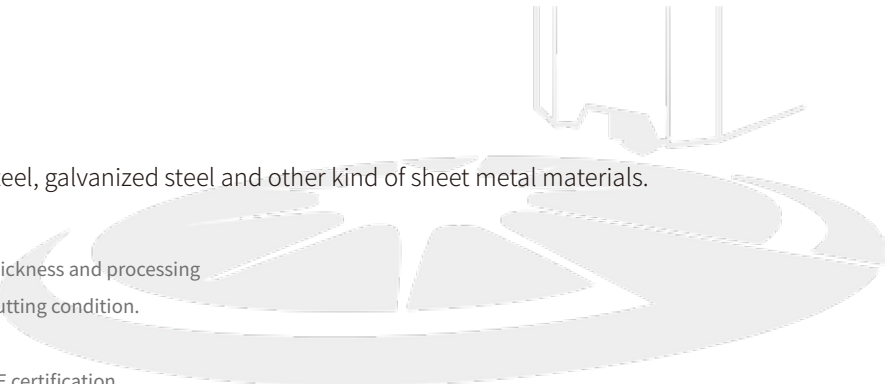
▲ Equipment model	GN-NCF Series
▲ Laser brand	Raycus / IPG
▲ Laser power	1000w-6000w
▲ Positioning accuracy	≤±0.03mm/m
▲ Reposition accuracy	≤±0.02mm
▲ Maximum speed	100m/min
▲ Maximum acceleration	1.0G
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

Cutting of stainless steel, carbon steel, alloy steel, silicon steel, aluminum alloy steel, galvanized steel and other kind of sheet metal materials.

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GN-NCF 12025

Large format laser cutting machine



- Ultra-long processing format, preferred processing master machine

Select the famous brand processing master machine and the machine bed accuracy acceptance standard is consistent with the international standard.
- Large format, large processing plate size

The processing format can be customized and can be selected according to the user's processing requirements.
- Batch material loading, time saving

Ultra-large format support material loading in batch to save time in repeated stop and loading process, improve efficiency by more than 30% .
- Professional cutting system, smart and simple

Optimizing core components to ensure cutting output, low failure rate and low maintenance expenditure.

■ **Applicable objects:** For efficient cutting of ultra-large format plates, batches are used in construction machinery, shipbuilding, rail transit and subway and other industries.

Cutting sample



Products

Processing

PROCESSING FORMAT (CUSTOMIZED)

8000*2500mm / 10000*2500mm / 12000*2500mm / 13000*2500mm/

Device parameters

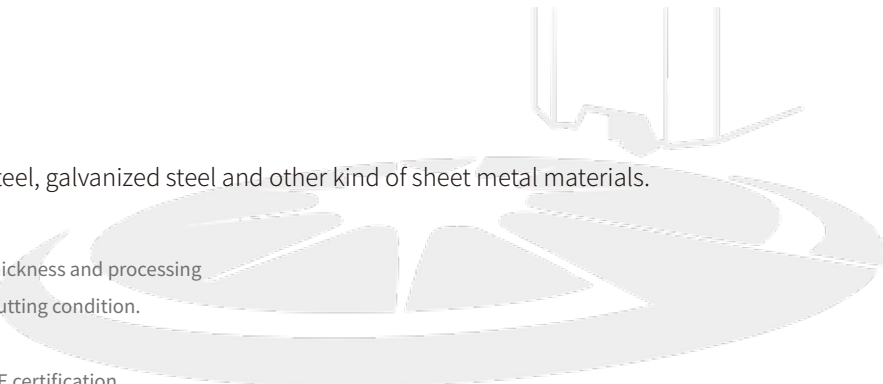
▲ Equipment model	GN-NCF Super large format series
▲ Laser brand	Raycus / IPG
▲ Laser power	4000w-15000w
▲ Positioning accuracy	≤±0.03mm/m
▲ Reposition accuracy	≤±0.02mm
▲ Maximum speed	100m/min
▲ Maximum acceleration	1.0G
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

Cutting of stainless steel, carbon steel, alloy steel, silicon steel, aluminum alloy steel, galvanized steel and other kind of sheet metal materials.

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GN-NCF-T Series

Sheet and tube laser cutting machine



• Two in one, powerful

One machine support both plate and tube cutting, professional integrated design.

• Integrated design, cost saving

Saving 40% machine cost, 60% working space.

• Brand transmission components, accuracy guarantee

The cutting accuracy is guaranteed which can ensure that the long-term high-speed cutting accuracy of the equipment remains unchanged.

• Diversified orders, easier

It is easy to realize the diversification of processing material types, efficient production of scattered orders and easy to deal with large quantities of orders.

■ Applicable objects: It is suitable for enterprises that pursue high efficiency and have processing demand for sheet and tube.

🏆 | Cutting sample



Products

Processing

PROCESSING FORMAT (CUSTOMIZED)

3000*1500mm / 4000*2000mm / 6000*2000mm / 6000*2500mm/8000*2000mm/8000*2500mm

✂ Device parameters

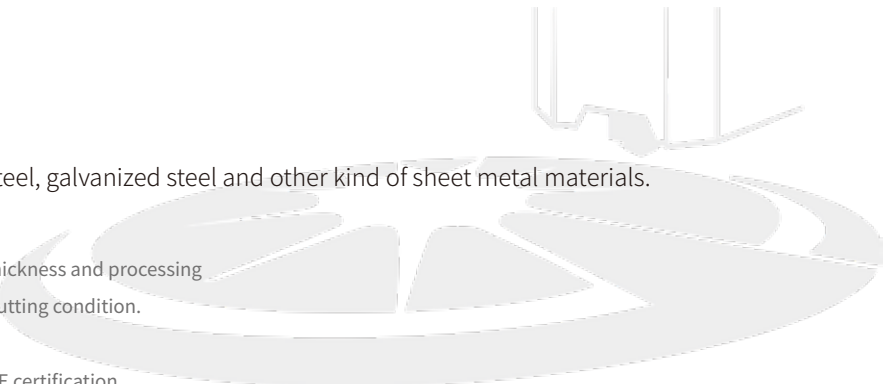
▲ Equipment model	GN-NCF-T Series
▲ Laser brand	Raycus / IPG
▲ Laser power	1000w-6000w
▲ Diameter of through hole	φ220 / φ350
▲ Positioning accuracy	≤±0.03mm/m
▲ Reposition accuracy	≤±0.02mm
▲ Maximum speed	100m/min
▲ Maximum acceleration	1.0G
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

📄 Scope of Application

Cutting of stainless steel, carbon steel, alloy steel, silicon steel, aluminum alloy steel, galvanized steel and other kind of sheet metal materials.

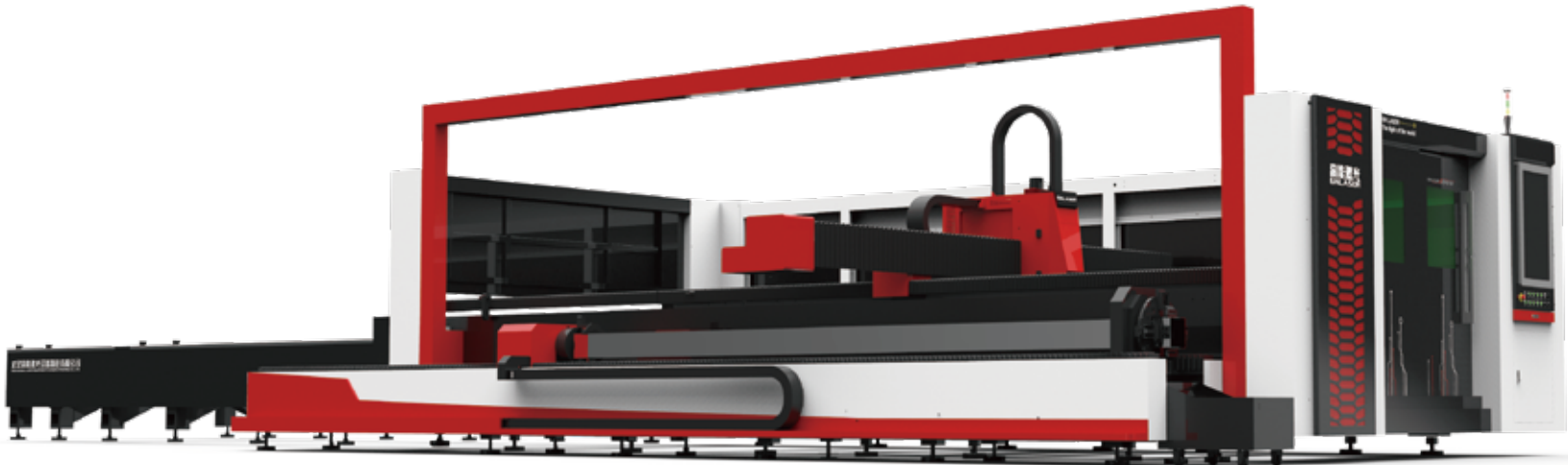
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GN-CFD-T Series

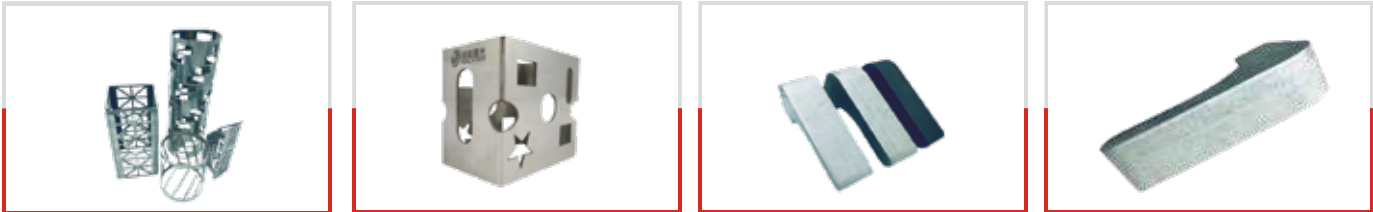
Enclosed sheet and tube laser cutting machine



- Two in one, powerful
One machine, support, both plate and tube cutting, professional integrated design.
- Exchanging table design with protective cover
The cutting part of the plate machine is surrounded and isolated by a sheet metal cover which makes the operation safer.
- Brand transmission components, guaranteed precision
Ensure the cutting accuracy which can ensure that the equipment can cut at high speed for a long time and keep the same accuracy.
- Diversified orders, easier
It can easily achieve the diversification of processing material types and it is easy to deal with large quantities of orders for the efficient production of scattered orders.

■ Applicable objects: It is suitable for enterprises that pursue high efficiency and have processing demand for sheet and tube.

Cutting sample



Products

Processing

PROCESSING FORMAT (CUSTOMIZED)

3000*1500mm / 4000*2000mm / 6000*2000mm / 6000*2500mm /8000*2000mm / 8000*2500mm

Device parameters

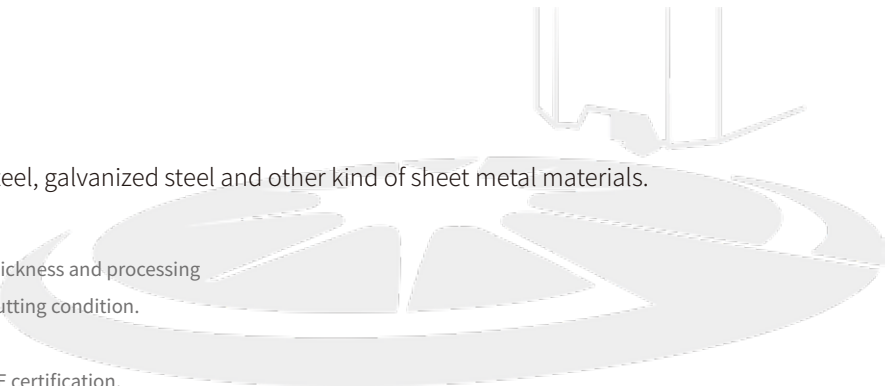
▲ Equipment model	GN-CFD-T Series
▲ Laser brand	Raycus / IPG
▲ Laser power	1000w-6000w
▲ Diameter of through hole	φ220 / φ350
▲ Positioning accuracy	≤±0.03mm/m
▲ Reposition accuracy	≤±0.02mm
▲ Maximum speed	100m/min
▲ Maximum acceleration	1.0G
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

Cutting of stainless steel, carbon steel, alloy steel, silicon steel, aluminum alloy steel, galvanized steel and other kind of sheet metal materials.

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GN-CT-S Series

Automatic loading and unloading professional pipe laser cutting machine

Products

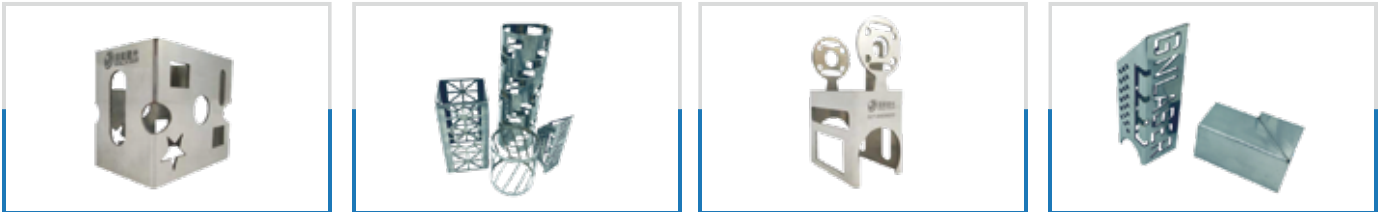


- Automatic loading and unloading system, efficiency improved
Our machine equipped with an automatic loading and unloading system, not only to reduce labor output but also effectively to improve the work efficiency.
- Smart tube cutting system, friendly exprience
Intelligent operating system, greatly improve efficiency; the system operation interface is simple and clear, very simple operation, easy to handle different tube cutting need.

- Dual intelligent drive, speed up
Dual-Motion chucks can be clamped at the same time, this can ensure the concentricity of the pipe head and the pipe tail of the processed pipe, the speed is fast and it is very stable.
- Follow-up support, ensure accuracy
The chuck and the support column are linked at the same frequency to ensure the overall concentricity of the pipe and ensure the cutting accuracy and effect.

Applicable objects: It is suitable for tube processing enterprises of various mechanical manufacturing, such as external processing service, with batch production and higher efficiency.

Cutting sample



Device parameters

▲ Equipment model	GN-CT-S Series
▲ Laser brand	Raycus / IPG
▲ Laser power	1000w-6000w
▲ Diameter of through hole	φ220 / φ350
▲ Positioning accuracy	≤±0.03mm/m
▲ Processing stroke	6000mm/12000mm
▲ X/Y maximum blank line speed	60m/min
▲ The rotating speed of the chuck	50rad/s2
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

It can be used for cutting round tube, square tube, rectangular tube, flat tube, i-beam, channel steel, u-tube and other tube materials.

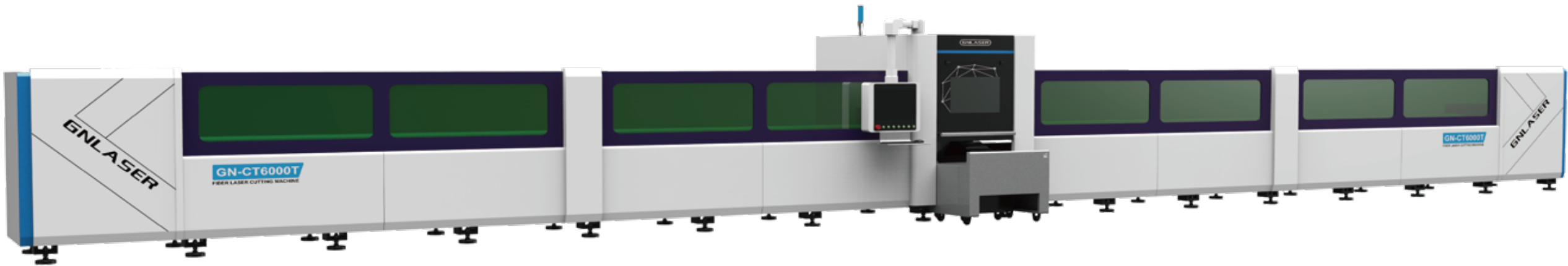
Disclaimer:

1. The accuracy of the work piece depends on the quality of various materials, the influence of multiple factors such as pretreatment, plate thickness and processing environment. The parameters are for reference only, please refer to the actual cutting condition.
2. The limit cutting is for reference only for proofing, not as an index of daily cutting parameters.
3. We reserve the right to modify the size, design and equipment, and have passed ISO9001 and EU CE certification.

GN-CT-T Series

Three chucks professional tube laser cutting machine

Products



- Three chucks, synchronic clamp

The tightening device can be opened by one button and it can be automatically centered. The heavy tube will not loose or slip, and the cutting accuracy will be guaranteed.
- Reverse cutting, high utilization

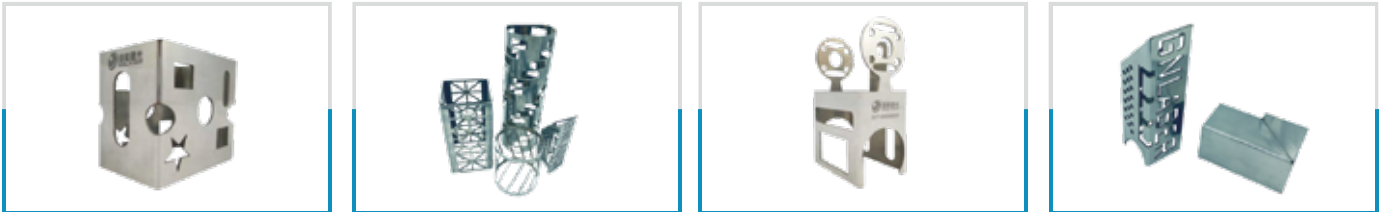
The tail material after cutting is super short, which can reduce the waste of raw materials and save material loss by about 15%.
- Powerful database, efficient and time-saving

Abundant cutting process parameters, one-key typesetting and cutting, saving time and effort.
- Smart tube cutting system, friendly exprience

Intelligent operating system, greatly improve efficiency; the system operation interface is simple and clear, very simple operation, easy to handle different tube cutting need.

Applicable objects: It is suitable for tube processing enterprises with large orders and certain requirements for cutting materials.

Cutting sample



Device parameters

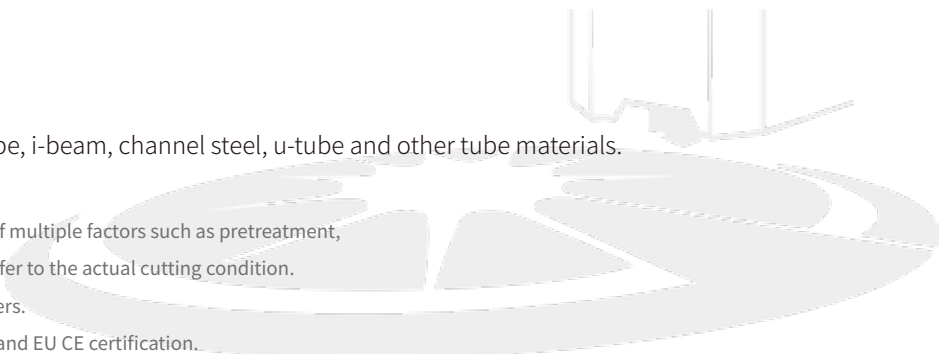
▲ Equipment model	GN-CT-T Series
▲ Laser brand	Raycus / IPG
▲ Laser power	1000w-6000w
▲ Diameter of through hole	φ220 / φ350
▲ Positioning accuracy	≤±0.03mm/m
▲ Processing stroke	6000mm/12000mm
▲ X/Y maximum blank line speed	60m/min
▲ The rotating speed of the chuck	50rad/s2
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

It can be used for cutting round tube, square tube, rectangular tube, flat tube, i-beam, channel steel, u-tube and other tube materials.

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GN-CT Series

Professional tube laser cutting machine

Products



· Wide applications & various functions

IT can easily cut a variety of types of pipe, powerful function, light and flexible.

· Simple operation, easy to use

The intelligent operating system, the interface is simple and easy to understand, making it easy and fast to start.

· Economic and practical, low investment and high production

With professional pipe cutting system, it is easy to install, put into production quickly and create value quickly.

· Quality assurance, low maintenance cost

Optimize the core components, ensure the cutting output, low failure rate, low maintenance costs.

Applicable objects: Suitable for growing enterprises of tube cutting processing, thin tube cutting, high precision, good quality and price with simple operation.

Cutting sample



Device parameters

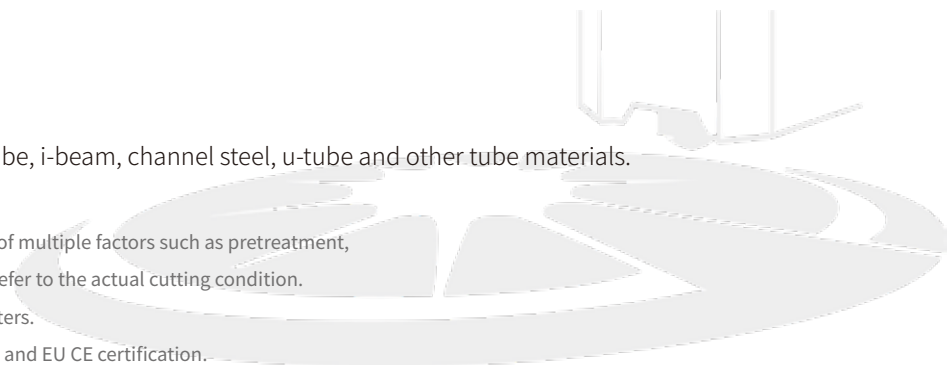
▲ Equipment model	GN-CT Series
▲ Laser brand	Raycus / IPG
▲ Laser power	1000w-6000w
▲ Diameter of through hole	φ220 / φ350
▲ Positioning accuracy	≤±0.03mm/m
▲ Processing stroke	6000mm/12000mm
▲ X/Y maximum blank line speed	60m/min
▲ The rotating speed of the chuck	50rad/s2
▲ Power supply	AC 380V ±5% 50Hz / 60Hz

Scope of Application

It can be used for cutting round tube, square tube, rectangular tube, flat tube, i-beam, channel steel, u-tube and other tube materials.

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GN-F Series

Cabinet type fiber laser marking machine



· High speed and accuracy

The output beam has good quality & high reliability, suitable for a variety of metal materials.

· Professional software, freely edit

Professional marking software, freely design graphic patterns and give full play to creativity.

· Red light focus, easy operation

Intelligent operating system, simple and easy to understand interface, red light focus, easy and quick to use.

· Quality assurance, no consumables, maintenance-free

Choosing the best core components to ensure light output, low failure rate, maintenance-free and no consumables.

Applicable objects: Mainly used in fields that require high depth, smoothness, and fineness, such as auto parts, Aerospace, military electronics, mold machinery, hardware tools, medical devices with high precision and deep marking.

Marking sample



Products

Processing

PROCESSING FORMAT (CUSTOMIZED)

110*110mm / 160*160mm / 200*200mm /

Device parameters

▲ Equipment model	GN-F Series
▲ Laser type	Import/Domestic fiber laser source
▲ Laser power	30w-50w
▲ Laser wavelength	1064nm
▲ Marking depth	≤0.3mm
▲ Repeatability precision	0.001mm
▲ Marking speed	0~9000mm / s
▲ Beam quality of m ³	<1.8
▲ Cooling method	Air cooling
▲ Power supply	AC 220V ±10% 50Hz

Scope of Application

Be able to mark on various metals such as aluminum, copper, stainless steel, etc.

Disclaimer:

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2. The limit depth is for reference only for proofing, not as an indicator of daily marking parameters.
3. Reserve the right to modify the size, design and equipment, has passed ISO9001 and EU CE certification.



GN-W Series

Handheld Fiber Laser Welding machine



- Flexible output, stable performance

Fiber laser welding machine has own the flexible laser output function, the laser output energy is stable which greatly reduces the products of defect rate.
- Professional welding system with wobbler head

Professional fiber laser welding system, module design, wobbler welding head greatly improve welding quality and strength.
- Simple and easy to operate

No need for professional welders, Just only simple training then can quickly get started the job.
- Quality assurance, lower maintenance cost

Optimizing core components to ensure laser welding output, lower equipment failure rate and low maintenance expenditure.
- Applicable objects: It is suitable for precision welding of stainless steel products such as bathroom, sanitary ware, kitchenware and electric cabinet, auto parts, optical communication industry, etc.

Welding sample



Products

Cable Length

OPTICAL FIBER CABLE LENGTH
10000mm

Device parameters

▲ Equipment model	GN-W Series
▲ Laser type	Import/Domestic fiber laser source
▲ Laser power	1000w / 1500w / 2000w
▲ Wavelength	1070±20
▲ Spot Size	0--5mm
▲ Protective Gas	Nitrogen
▲ Welding Speed	0~120mm / s
▲ Wire Feeder Component	Can be Prolonged. with wire feed function.
▲ Cooling method	Water cooling
▲ Machine Total Power/Current	5500W~9000W / 25A~45A

Scope of Application

It can support the metal welding what like the carbon steel, Stainless steel, Al, Brass and other different kind of metal products,

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