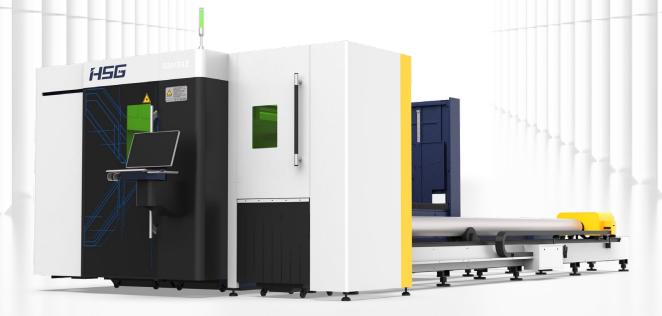


A BEST-SELLING MODEL OVERSEAS

40HQ+40GP Standard Container Transport Model



GXE

Medium-to-low-power Sheet & Tube Laser Cutting Machine

Technical Parameter	GXE					
Power	1500-6000W					
Standard Processing Format	3000*1500mm					
X/Y Axis Positioning Accuracy	0.03mm/m					
X/Y Axis Repositioning Accuracy	± 0.03mm					
Max. No-load Speed	60m/min					
Max. Acceleration	0.5G					
	Round tube dia. Φ20-210mm ,square tube dim. 20*20-150*150mm					
Processing Materials	rectangular tube: diagonal≤210mm					
Standard Cutting Length	6000mm					
Max. Loading Weight of Sheet Platform	950kg					
Max. Loading Weight of Tube Platform	100kg					
Overall Dimensions (L*W*H)	9200*3500*2200mm					





DEVELOPMENT HISTORY



2014

THE WORLD'S FIRST 6M MACHINE

2016

THE WORLD'S FIRST MACHINE WITH DOUBLE PNEUMATIC CHUCKS

2013

THE WORLD'S FIRST MACHINE (PATENT NO. CN103157912B)

2015

THE WORLD'S FIRST MACHINE WITH DOUBLE EXCHANGE PLATFORMS

2019

THE WORLD'S FIRST HEAVY-DUTY MACHINE



FAMILY OF OUR SHEET & TUBE LASER CUTTING MACHINES



One machine with two functions



Save purchasing costs



Improve cutting efficiency



Help to accept more diversified orders

The machine can cut both sheet and tube metals, replacing a professional sheet laser cutting machine and tube laser cutting machine in total. For users, it will save purchasing costs, expand their scope of cutting materials, improve workshop utilization and cutting efficiency, help them to accept more diversified orders and enhance their market competitiveness.



SALES CHAMPION AMONG SAME-TYPE MODELS

After years of R&D and constant technical upgrades, the size of our sheet & tube laser cutting machine family has increasingly expanded. GXE, as one of the best-selling models overseas, has ranked first in the industry by its 3000+ total sales worldwide.





HIGH-QUALITY CARBON STEEL WELDED

SEMI-HOLLOW MACHINE BED

MADE OF HIGH-QUALITY CARBON STEEL

Compared with general carbon steel, the high-quality material is relatively pure with less impurity and has good mechanical properties and rigidity. Due to thermal treatment, it is featured by less heat absorption, rapid heat dissipation and deformation prevention, which will remain stable even after long-term working at high speed.

ENTIRE STRUCTURE OF HIGH QUALITY

Our machine bed, with mechanical properties simulation analysis in the static and dynamic state, is made of high-quality carbon steel of which tensile strength is 500Mpa and welding stress is entirely relieved by 600°Clonnealing and natural aging. After that, it is anti-deformation and durable with good rigidity.

HIGH PRECISION, MORE STABLE

Our machine bed is designed as semi-hollow to lessen the area heated by laser and keep itself nondeformable after long work.

PERFORM WELL IN VENTILATION

The built-in butterfly valve damper can protect air ducts from scorching and contribute to the further enhancement of ventilation effects.



4TH GENERATION EXTRUDED **AVIATION ALUMINUM BEAM?**



REASONS FOR PREFERRING EXTRUDED ALUMINUM TO CAST ALUMINUM

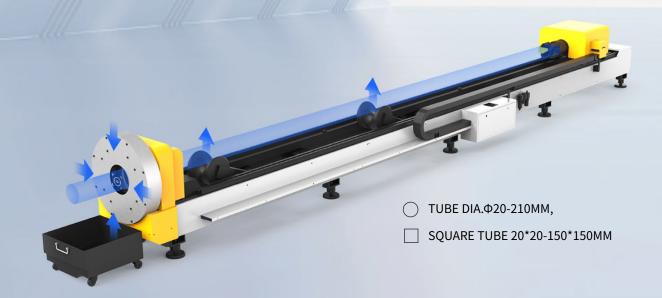
- * To address the complex structure and heavy weight of beam, HSG decides to choose aluminum featuring lower density, lighter weight and higher toughness for our beam.
- * Compared with cast aluminum, our beam is made by extrusion forming technology, which is good for the improvement of deformation capacity, plasticity utilization and the enlargement of deformation amount. Compared with other technologies, the extruded aluminum beam is more uniform in textures, smoother in surface and higher in strength without air or sand hole.
- * The 6 series aviation aluminum alloy is light-weight and corrosion-resistant, which gets good rigidity and toughness after vibration aging and finish machining, therefore, high-speed working, good dynamic performance, high precision and speedy cutting come true. Our beam is designed as honeycomb anti-compression structure in accordance with aerospacecraft criteria.

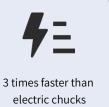


INTEGRATED BEAM

Our beam is integrated with its column, hence, its mechanical properties are more stable than that of split-type beam. With such beam, the machine bed will keep high precision for 50+ years.















Wide range of clamping

FULL-AUTOMATIC DOUBLE PNEUMATIC CHUCKS

MUCH FASTER

Wireless remote control, one-button clamping, automatic centering, 3 times faster than electric chuck, reducing waiting time for loading & unloading.

- **≫** MUCH LARGER
 - Large and constant clamping force helps to clamp heavy tubes tightly.
- **♦ MUCH HIGHER**

Special concave support frame avoids tube sagging and deformation, improving cutting precision.

MUCH WIDER

Clamp conventional tubes like round tube dia. Φ 20-210mm, square tube 20*20-150*150mm, and profiles like channel and angle steel.



INTELLIGENT EXCHANGE PLATFORMS





Only 15s required once



Improve efficiency and save labor forces

The intelligent exchange platforms self-developed and applied for innovative technical patents by HSG Laser will start exchange instantly after cutting, only 15s required, to save loading & unloading duration, labor costs and improve cutting efficiency.



EASY TO OPERATE EVEN BY GREEN HANDS

- * Match with 2000+ process data on its graphical programming interface
- * Compatible with multiple graphic files, incl. DXF, DWG, PLT and NC code
- Improve stock layout and material utilization by 20% and 9.5%, with no limit of quantity of spare parts



KLINGE AUTOFOCUS LASER CUTTING HEAD

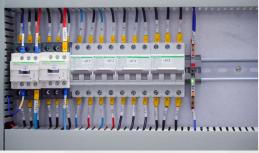
- Its cutting head can adjust its focal point automatically according to material thickness, and apply to various focal lengths.
- It has the function of obstacle avoidance and will always remain safe during cutting.
- thoroughly separated from the sheet during cutting, in other words, small connecting points are reserved between them to keep cutting head safe while it works fleetly.
- Solution Speed Speed



INNOVATIVE INTEGRATED ELECTRIC CABINET













The wiring in electric cabinet is tidy and normative. With IP54 standard sealing, GXE is effective in dust-proof and will protect its elements from being ignited.



LIGHTNING-FAST PIERCING

- Because of our autofocus cutting head, international first-class laser device and other gas control components, we only take 0.5s to pierce 20mm iron sheet.
- The pierced holes will remain unchanged in shape, be smooth in cutting surface, high in precision and almost slagless. Never worry about popping rate because it is nearly negligible.



THREE-FACED PROTECTION, **SAFETY GUARANTEED**

- protective plates
- Protect workers from laser harm
- Protect the whole machine and other components

THREE-FACED PROTECTION

GXE is designed as three-faced protection and has large laser-proof glass to protect human body from laser radiation and keep cutting visual for workers standing next to the console. The three-faced protective plates are module-based to facilitate installation.

EASY TO LOAD AND UNLOAD TUBES

The tube cutting area is uncovered to not only keep cutting process visible, but also make loading & unloading easier.

➢ INTELLIGENT SAFETY MONITORING SYSTEM

It will stop automatically when protective door opens to reduce accident rate.

♦ ACTIVE PROTECTION SYSTEM

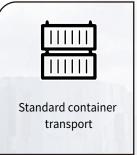
The cutting head, with safety follow-up modules, always keeps a safety distance from cutting surface. Working status of beam and cutting components are detected automatically. With abnormality alarming system, GXE will stop instantly when abnormal occurs to protect itself.



UPGRADED MODEL WITH SMALL SIZE

After being upgraded, GXE can be packed in 40HQ+40GP standard containers to greatly reduces the cost of transportation and improve workshop utilization for users.













FAMOUS-BRAND COMPONENTS



German WITTENSTEIN Alpha

Speed reducer (incl. gear wheels)

IPG/Raycus Lasers







Taiwan brands

High-precision racks and linear guides



CLASSY MACHINE APPEARANCE



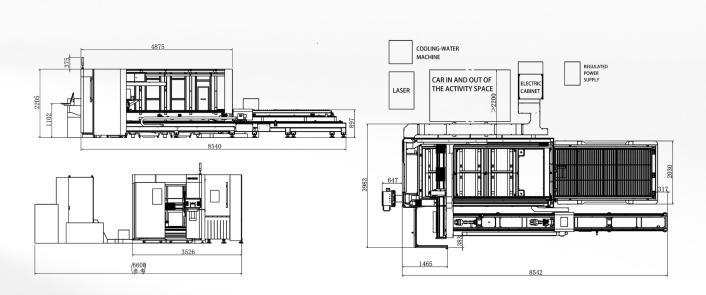
- In strict accordance with European design standards, HSG Laser adopts humanized console, suspension lamp and stainless steel edging for our machines.
- SXE is in blue and white, which will don't look dirty compared with the first generation's gray machine bed and rear floorstand.
- We prefer sliding door to folding door, which avoids door from getting stuck and offers satisfactory sealing effect.
- Large operating screen and electric console. Our console will lift or fall only by pressing a button, which is friendly to all users of different heights and in different postures.



CUTTING SAMPLES



MACHINE FOUNDATION





A HI-TECH ENTERPRISE IN CHINA

HSG Laser, founded in 2006 as a hi-tech enterprise focusing on R&D, production and sales of laser equipment, is dedicated to serve global customers with intelligent metal forming solutions.







STRESS ON MACHINES

Complete

We have the most complete types of laser machines, incl. sheet metal laser cutting machines, sheet & tube laser cutting machines, tube metal laser cutting machines, welding machines, bending machine, automatic loading & unloading system.

Wide

Range of machine power, 1.5-30kW, wide range of cutting dimensions, Φ10-426mm, 50kg-1500kg, 6000-12000mm sheets or tubes are easily processed.

High

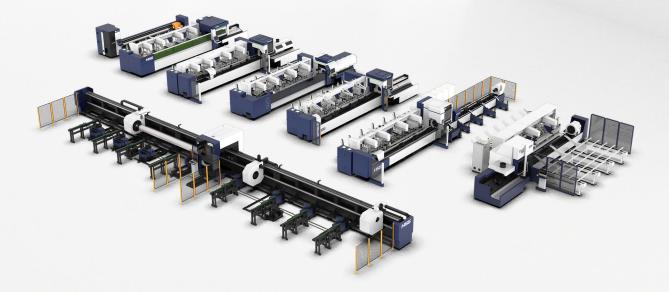
Our machine bed, beam, platforms, operating system, chucks, ventilation system and others are above industry criteria. Cutting is higher, faster, more stable and better in cutting effects. It is easy to get bright surface cutting with no need for subsequent polishing.

Intelligent

HSG cloud intelligent system works with our Alpha T bus control system to enable remote repair, maintenance and working guidance. Users will get a full understanding of production and workers.

Save

Our automatic loading & unloading system and intelligent operating system will free you from inefficient and time-consuming manual operation and help you to save labor forces and production costs.





STRESS ON SAFETY, **ENVIRONMENTAL PROTECTION AND DETAILS**





SAFETY

Our machines are designed as full-protective and equipped with laser-proof glass in line with international standards. Safety grating will protect workers effectively and our cutting heads are anti-collision.



ENVIRONMENTAL PROTECTION

Zoning hurricane-force ventilation system, under the control of butterfly valve, can realize almost smoke-free effects in combination with positive-pressure dust removal.



MACHINE DETAILS

The front-placed electric cabinet will not be collided during loading or unloading. In this CE-compliant cabinet, weak current is separated from strong current area. The fail-safe wiring terminals and distributed wiring duct can prevent signal interference and frictional loss among lines.



SERVE 100+ COUNTRIES AND REGIONS



10 branches/subsidiaries /sub-subsidiaries

4 standardized manufacturing bases in China 30+ service outlets overseas

1500+ employees 170+

R&D personnel

80000m²+
total area of production
factories

3000+ Global Sales in 2020

5000+ annual productivity



- * 3D five-axis bevel cutting technology
- * P30 ultra-high-power intelligent laser cutting head
- * Intelligent digital four chucks
- * Alpha T bus system
- * HSG-XMT multi-touch operating system



STRESS ON COOPERATION WITH STRONG ENTERPRISES

We import international first-class spare parts. HSG is the world's largest cooperative partner of IPG. The speed reducer, gear wheel and racks of many machines are completely imported from German Alpha. We also develop extensive cooperation with Japanese SMC, Panasonic, German Lanny and Aventics, French Schneider, etc.

















STRICT IN QUALITY CONTROL FLOW







COLORIMETER

FILM THICKNESS GAUGE



COLLIMATOR (beam)



HARDNESS TESTER



2D CATHETOMETER



COLLIMATOR (bed)



INTERFEROMETER

PROFESSIONAL AFTER-SALES SERVICE



One-year Warranty

All unit components are warranted for 1-year, except items listed in the Exclusions section below. Our after-sales engineer or local agent will supply new or remanufactured component of equal or better quality to replace the failed one.

Exclusions

Unit components subjected to normal wear during the Warranty Period are not covered by warranty, including: 1. Nozzle 2. Protective lens 3. Ceramic ring

Machine breakdown caused by part handling/misuse or corrosion due to exposure to caustic materials, voids the warranty.

Component failure caused by customer misuse/abuse of the unit (e.g. using incompatible materials or wrong axial position settings), voids the warranty.







OUR **HEADQUARTERS**



SUZHOU SUBSIDIARY





GERMAN SUBSIDIARY





JINAN **SUBSIDIARY**





JAPANESE SUBSIDIARY





		IPG CUTTING	SPEED (m/min)	RAYCUS CUTTING SPEED (m/min)			
Material name	Thickness (mm)	8000W	12000W	8000W	12000W		
	1	8.0-12.0	8.0-12.0	8.0-12.0	8.0-12.0		
	2	6.0-7.5	6.0-7.5	6.0-7.5	6.0-7.5		
	3	3.3-4.5	3.6-4.5	3.2-4.5	3.5-4.5		
	4	3.0-3.8	3.2-3.8	2.9-3.8	3.1-3.8		
	5	2.8-3.4	3.0-3.4	2.7-3.4	3.0-3.4		
Carbon steel	6 8	2.3-3.2 2.1-2.7	2.6-3.3 2.3-2.8	2.2-3.2 2.0-2.7	2.5-3.3 2.2-2.8		
	10	1.6-2.4	2.0-2.8	1.5-2.4	2.0-2.8		
(O ₂)	12	1.5-2.2	1.6-2.7	1.4-2.2	1.5-2.7		
	16	1.0-1.6	1.4-2.4	1.0-1.6	1.3-2.4		
	20	0.7-1.2	1.0-2.4	0.6-1.2	1.0-2.4		
	25	0.4-0.8	0.8-1.3	0.3-0.8	0.7-1.3		
	30	0.2-0.6	0.4-1.2	0.2-0.6	0.4-1.2		
	40		0.2-0.6		0.2-0.6		
	1	40.0-52.0	46.0-60.0	40.0-52.0	46.0-60.0		
	3	23.0-30.0	25.0-30.0	22.0-30.0	24.0-30.0		
	4	18.0-25.0 13.0-18.0	20.0-25.0 19.0-25.0	17.0-25.0 12.0-18.0	20.0-25.0 18.0-25.0		
	5	8.0-12.0	13.0-20.0	7.0-12.0	12.0-20.0		
Carbon steel	6	6.0-9.0	8.0-13.0	6.0-9.0	7.5-13.0		
(N ₂)	8	4.5-6.5	7.0-9.0	4.0-6.5	6.0-9.0		
-	10	3.1-4.2	5.0-7.0	3.0-4.2	5.0-7.0		
	12		3.5-5.0		3.0-5.0		
	14		2.0-3.5		2.0-3.5		
	16		2.0-2.3		1.8-2.3		
	1	42.0-53.0	47.0-60.0	42.0-53.0	47.0-60.0		
	3	22.0-30.0	24.0-30.0	21.0-30.0	23.0-30.0		
	4	18.0-25.0 13.0-18.0	20.0-25.0 18.0-24.0	17.0-25.0 12.0-18.0	19.0-25.0 17.0-24.0		
Carbon steel (AIR)	5	9.0-12.5	13.0-18.0	8.5-12.5	12.0-18.0		
	6	7.5-10.0	11.0-15.0	7.0-10.0	10.0-15.0		
	8	4.5-6.5	8.0-12.0	4.3-6.5	7.5-12.0		
	10	3.5-4.5	5.5-7.5	3.2-4.5	5.0-7.5		
	12		3.5-5.5		3.3-5.5		
	14		3.0-3.6		2.7-3.6		
	1	46.0-60.0	48.0-60.0	46.0-60.0	48.0-60.0		
	3	22.0-30.0	24.0-30.0	22.0-30.0	24.0-30.0		
	4	18.0-23.0 11.0-16.0	20.0-25.0 18.0-24.0	18.0-23.0 11.0-16.0	20.0-25.0		
	5	8.0-11.0	14.0-19.0	8.0-11.0	18.0-24.0 14.0-19.0		
	6	6.0-9.5	9.0-12.0	6.0-9.5	9.0-12.0		
	8	4.0-7.0	6.5-10.0	4.0-7.0	6.5-10.0		
Stainless steel	10	3.4-5.5	5.0-7.0	3.4-5.5	5.0-7.0		
(N ₂)	12	2.0-3.5	3.2-5.5	2.0-3.5	3.2-5.5		
(1 4 ₂)	14	1.6-2.8	2.8-4.5	1.6-2.8	2.8-4.5		
	16	1.2-1.7	2.0-3.0	1.2-1.7	2.0-3.0		
	18	0.7-1.2	2.0-2.3	0.7-1.2	2.0-2.3		
	20 25	0.7-0.9 0.4-0.5	1.2-1.9 0.7-1.0	0.7-0.9 0.4-0.5	1.2-1.9		
	30	0.2-0.3	0.7-1.0	0.4-0.5	0.7-1.0 0.5-0.7		
	40	5.2 5.3	0.2-0.3	0.2 0.3	0.2-0.3		
	1	46.0-60.0	48.0-60.0	46.0-60.0	48.0-60.0		
	2	23.0-30.0	25.0-30.0	23.0-30.0	25.0-30.0		
	3	20.0-25.0	22.0-27.0	20.0-25.0	22.0-27.0		
	4	13.0-23.0	21.0-26.0	13.0-23.0	21.0-26.0		
	5	10.0-12.0	18.0-20.0	10.0-12.0	18.0-20.0		
	6	8.0-9.0	13.0-15.0	8.0-9.0	13.0-15.0		
Stainless steel	8	5.0-6.0	10.0-12.0	5.0-6.0	10.0-12.0		
(AIR)	10	3.0-4.6	5.0-7.0	3.0-4.6	5.0-7.0		
	12	2.1-3.0 1.3-2.3	4.0-6.0	2.1-3.0	4.0-6.0		
	16	1.3-2.3	3.0-4.0 2.3-3.2	1.3-2.3 1.2-1.7	3.0-4.0 2.3-3.2		
	20	0.7-0.8	1.1-1.8	0.7-0.8	1.1-1.8		
	25	2 3.0	0.7-1.3	2 0.0	0.7-1.3		
	30		0.7-0.9	1	0.7-0.9		



			ומכ כו	ITTING CO	EED (m/m	in\			RAYCUS CUTTING SPEED (m/min)					
					· ,	· I						<u>, </u>		
Material name	Thickness (mm)	3000W	6000W	8000W	10000W	12000W	15000W	20000W	1000W	4000W	6000W	8000W	10000W	12000V
	2	35.0-55.0	45.0-55.0	55.0-60.0	55.0-62.0	60.0-80.0	62.0-82.0	65.0-85.0	12.0-16.0	35.0-40.0	45.0-55.0	55.0-60.0	55.0-62.0	60.0-80.0
-	3	12.0-20.0	20.0-30.0	38.0-42.0	40.0-46.0	40.0-47.0	43.0-50.0	45.0-55.0	2.5-4.0	13.0-22.0	20.0-30.0	38.0-42.0	40.0-46.0	40.0-47.0
-	4	7.0-10.0	13.0-18.0	18.0-24.0	24.0-30.0	25.0-36.0	26.0-38.0	28.0-40.0		7.0-13.0	13.0-18.0	18.0-24.0	24.0-30.0	25.0-36.
-	5	3.7-5.0	10.0-12.0	12.0-16.0	15.0-23.0	17.0-28.0	18.0-30.0	20.0-35.0		4.0-5.5	10.0-12.0	12.0-16.0	15.0-23.0	17.0-28.
-	5 6	2.5-3.5	5.0-8.0	9.0-11.0	17.0-20.0	18.0-21.0	20.0-23.0	25.0-30.0		3.0-4.0	5.0-8.0	9.0-11.0	17.0-20.0	18.0-21.
VI		1.5-2.5	4.0-6.0	6.5-7.3	10.0-12.1	12.0-17.0	13.0-20.0	18.0-26.0		2.2-3.5	4.0-6.0	6.5-7.3	10.0-12.1	12.0-17.
Aluminum alloy	8 10	0.6-1.2	2.0-3.0	4.0-5.0	5.0-6.2	9.0-13.0	10.0-15.0	12.0-18.0			2.0-3.0	4.0-5.0	5.0-6.2	9.0-13.0
(N2)			1.0-1.9	2.0-2.7	2.8-3.5	3.5-7.0	4.0-7.5	5.0-9.5			1.0-1.9	2.0-2.7	2.8-3.5	3.5-7.0
	12		0.8-1.4	1.5-1.9	1.9-2.4	2.0-5.0	3.0-6.0	4.0-7.0				1.5-1.9	1.9-2.4	2.0-5.0
-	16		0.6-0.9	1.0-1.3	1.1-1.7	1.3-2.5	1.5-3.0	1.8-4.0					1.1-1.7	1.3-2.5
-	20			0.6-0.8	0.7-1.0	1.0-1.5	1.2-1.7	1.4-2.0						1.0-1.5
-	25			0.4-0.6	0.6-0.8	0.7-1.0	0.8-1.1	1.0-1.5						
-	30			0.3-0.5	0.4-0.6	0.5-0.7	0.6-0.8	0.7-1.0						
	40							0.5-0.8						
	1		45.0-55.0											
	2		21.0-32.0											
	3 4		14.0-19.0											
-	<u>.</u>		11.0-13.0											
Aluminum alloy	5		6.0-9.0											
(AIR)	<u>6</u> 8		4.5-6.5											
(Allt)	10		2.4-3.5											
			1.2-2.3											
-	12		0.9-1.6											
	16		0.7-1.2											
	1	28.0-55.0	45.0-55.0	50.0-60.0	55.0-60.0	55.0-65.0	58.0-70.0	62.0-75.0	10.0-12.0	25.0-32.0	45.0-55.0	50.0-60.0	55.0-60.0	55.0-65.
	2	9.0-20.0	25.0-31.0	28.0-33.0	30.0-38.0	32.0-40.0	35.0-44.0	40.0-50.0	2.0-3.8	10.0-13.0	25.0-35.0	28.0-33.0	30.0-38.0	32.0-40.
	3	4.5-10.0	12.0-18.0	13.0-19.0	15.0-23.0	16.0-26.0	18.0-30.0	25.0-35.0		5.0-6.5	12.0-18.0	13.0-19.0	15.0-23.0	16.0-26.
	4	2.5-4.5	8.0-10.0	9.0-12.1	10.0-16.5	12.0-19.5	13.0-21.5	15.0-28.0		3.0-5.2	8.0-10.0	9.0-12.1	10.0-16.5	12.0-19.
Brass	5	1.2-2.5	4.5-6.0	7.5-8.8	9.0-12.8	10.0-14.8	11.0-15.8	13.0-17.0		2.0-3.0	4.5-6.0	7.5-8.8	9.0-12.8	10.0-14.
	6	0.9-2.0	3.0-4.0	6.0-6.6	7.0-9.0	8.0-13.0	9.0-14.0	11.0-16.0		1.4-2.0	3.0-4.0	6.0-6.6	7.0-9.0	8.0-13.0
(N2)	8		1.6-2.2	3.5-4.7	4.5-5.7	5.5-7.7	6.0-8.0	7.0-10.0			1.6-2.2	3.5-4.7	4.5-5.7	5.5-7.7
	10		0.8-1.2	1.8-2.6	2.7-3.7	3.5-4.7	4.0-5.0	5.0-7.0				1.8-2.6	2.7-3.7	3.5-4.7
	12			0.8-1.5	1.5-2.0	1.7-2.8	1.9-3.0	2.3-4.0					1.5-2.0	1.7-2.8
	15				0.8-1.2	1.0-1.6	1.2-1.8	1.5-2.8						1.0-1.6
	16							1.0-2.0						
	1	18.0-38.0	30.0-40.0	50.0-59.4	52.0-59.4	54.0-60.0	55.0-64.0	60.0-70.0	6.0-8.0	25.0-35.0	30.0-40.0	50.0-59.4	52.0-59.4	54.0-60.
	2	5.5-9.5	9.0-11.0	28.0-33.0	30.0-35.8	33.0-38.0	35.0-40.0	40.0-50.0		8.0-10.0	9.0-11.0	28.0-33.0	30.0-35.8	33.0-38.
	3	1.7-3.8	7.0-9.8	12.0-17.6	14.0-21.1	16.0-23.0	18.0-25.0	20.0-30.0		2.5-3.5	7.0-9.8	12.0-17.6	14.0-21.1	16.0-23.
	4		4.0-6.0	9.0-11.0	10.0-14.3	12.0-15.3	13.0-16.3	15.0-20.0		1.0-1.5	4.0-6.0	9.0-11.0	10.0-14.3	12.0-15.
Red cooper	5		1.3-2.0	6.0-7.9	8.0-10.3	9.0-12.0	10.0-14.0	12.0-18.0			1.3-2.0	6.0-7.9	8.0-10.3	9.0-12.
(02)	6		0.8-1.3	4.0-6.1	5.0-7.9	6.0-9.0	7.0-10.0	8.0-15.0			0.8-1.3	4.0-6.1	5.0-7.9	6.0-9.0
(02)	8		0.6-1.0	2.2-3.2	2.8-4.2	3.3-5.2	3.7-6.0	5.0-7.0				2.2-3.2	2.8-4.2	3.3-5.2
	10			1.2-1.7	1.4-2.1	1.8-2.5	2.0-2.8	3.5-4.5					1.4-2.1	1.8-2.5
	12			0.8-1.1	1.0-1.4	1.2-1.6	1.3-1.8	1.5-2.8					1.7 2.1	1.2-1.6



		IDC CUTTING	SDEED (m/min)	TTING SPEED			
		IPG CUTTING	SPEED (m/min)	RAYCUS CUTTING SPEED (m/min)			
Material name	Thickness (mm)	8000W	12000W	8000W	12000W		
	1	40.0-50.0	40.0-50.0	40.0-50.0	40.0-50.0		
	2	22.0-30.0	25.0-30.0	22.0-30.0	25.0-30.0		
	3	20.0-23.0	20.0-25.0	20.0-23.0	20.0-25.0		
	4	13.0-20.0	18.0-23.0	13.0-20.0	18.0-23.0		
	5	8.0-9.5	14.0-17.0	8.0-9.5	14.0-17.0		
l	6	5.5-7.0	11.0-14.0	5.5-7.0	11.0-14.0		
lluminum alloy	8	4.0-4.5	7.0-8.5	4.0-4.5	7.0-8.5		
(N_2)	10	2.3-3.3	3.5-4.5	2.3-3.3	3.5-4.5		
	12	1.5-2.0	3.3-4.0	1.5-2.0	3.3-4.0		
	16	1.0-1.3	1.5-2.0	1.0-1.3	1.5-2.0		
	20	0.6-0.9	1.0-1.2	0.6-0.9	1.0-1.2		
	25	0.4-0.5	0.8-0.9				
	30	0.2-0.3	0.5-0.7				
	40		0.3-0.4				
	1	40.0-50.0	40.0-50.0	40.0-50.0	40.0-50.0		
	2	18.0-25.0	20.0-25.0	18.0-25.0	20.0-25.0		
	3	13.0-19.0	14.0-20.0	13.0-19.0	14.0-20.0		
Brass	4	9.0-13.0	13.0-17.0	9.0-13.0	13.0-17.0		
(N ₂)	5	7.0-8.5	10.5-11.5	7.0-8.5	10.5-11.5		
. 2	6	5.0-6.5	8.0-9.5	5.0-6.5	8.0-9.5		
	8	3.0-4.0	5.0-6.5	3.0-4.0	5.0-6.5		
	10	2.0-3.0	4.0-5.0	2.0-3.0	4.0-5.0		
	12	1.3-2.0	2.5-3.5	1.3-2.0	2.5-3.5		
	1	18.0-35.0	28.0-45.0	18.0-35.0	28.0-45.0		
	2	15.0-25.0	18.0-25.0	15.0-25.0	18.0-25.0		
	3	12.0-15.0	14.0-18.0	12.0-15.0	14.0-18.0		
Dad	4	5.5-7.5	10.0-14.0	5.5-7.5	10.0-14.0		
Red copper	5	4.0-5.5	8.0-9.5	4.0-5.5	8.0-9.5		
(O ₂)	6	3.0-4.5	6.0-7.0	3.0-4.5	6.0-7.0		
	8		4.0-5.0		4.0-5.0		
	10		2.0-3.0		2.0-3.0		



COMPARISON OF CUTTING GAS AND COSTS BETWEEN LOW AND HIGH POWER

			2000-3	3000W		8000-15000W					
Material Name	Thickness (mm)	Cutting pressure (Mpa)	Gas consumption (M³/H)	Weight of liquefied gas (kg/H)	In total (RMB)	Cutting pressure (Mpa)	Gas consumption (M³/H)	Weight of liquefied gas (kg/H)	In total (RMB)		
	0.5-1	1.2	14.625	13.16	13.16	1.2	14.625	13.1625	15.795		
	1.1-2.0	1.3	15.75	14.17	14.17	1.3	15.75	14.175	17.01		
	1.5-2.0	1.4	16.875	15.18	15.18	1.4	16.875	15.1875	18.225		
	2.1-3.0	1.5	34	30.6	30.6	1.5	34	30.6	36.72		
	3.1-4.0	1.6	53.125	47.81	47.81	1.6	53.125	47.8125	43.03125		
	4.1-5.0	1.7	72	64.8	64.8	1.7	72	64.8	77.76		
Stainless Steel	5.1-6.0	1.9	90	81	81	1.9	90	81	97.2		
(N2)	6.0-8.0	2.2	140.875	126.78	126.78	2.2	140.875	126.7875	152.145		
	9.0-10.0	2.3	192	172.8	172.8	2.3	192	172.8	207.36		
	10.1-12.0					2.4	200	180	216		
	14.0-16.0					2.5	208	187.2	224.64		
	18.0-22.0					2.5	208	187.2	224.64		
	24.0-26.0					2.5	208	187.2	224.64		
	30.0-50.0					2.5	208	187.2	224.64		
	0.5-1	0.5	6.75	6.07	7.29	0.5	6.75	6.075	7.29		
	1.1-2.0	0.45	6.1875	5.56	6.68	0.45	6.1875	5.56875	6.6825		
	2.1-3.0	0.4	5.625	5.06	6.07	0.4	5.625	5.0625	6.075		
	3.1-6.0	0.2	3.375	3.03	3.64	0.2	3.375	3.0375	3.645		
Carbon Steel	6.1-8	0.15	5	4.5	5.4	0.15	5	4.5	5.4		
(02)	10.0-12.0	0.15	5	4.5	5.4	0.15	5	4.5	5.4		
	12.1-14.0	0.15	7.815	7.03	8.44	0.15	7.815	7.0335	8.4402		
	14.1-16.0	0.15	11.25	10.12	12.15	0.15	11.25	10.125	12.15		
	16.1-20.0	0.15	20	1.8	21.6						
	16.1-50.0					0.15	20	1.8	21.6		

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The actual machines shall prevail and above data & pictures are only for reference.







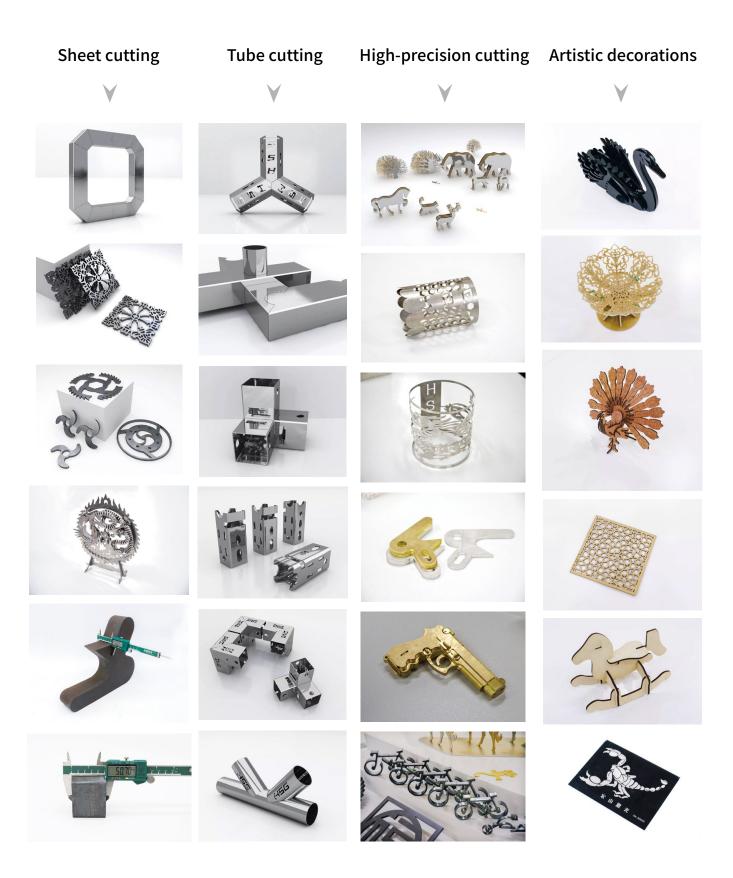
EXHIBITIONS

ALL OVER THE WORLD





CUTTING SAMPLES



Edition No.: 2021.06