HIGH-POWER DOUBLE EXCHANGE PLATFORMS LASER CUTTING MACHINE







G3015X Pro

40HQ STANDARD CONTAINER TRANSPORT MODEL

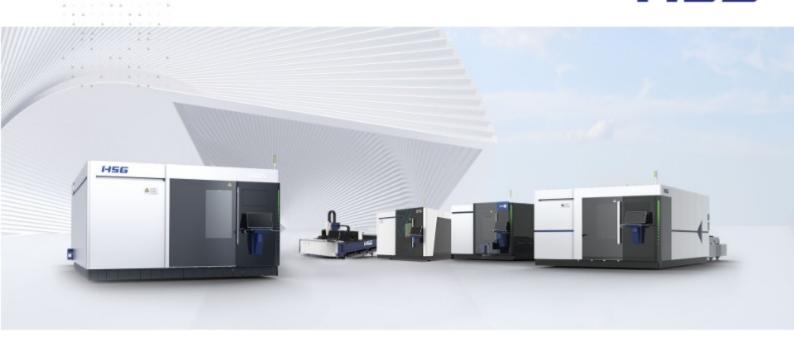
Technical Parameter	G3015X Pro
Processing Format (L*W)	3048*1524mm
Power	12000W
X/Y-axis Positioning Accuracy	±0.03mm/m
X/Y-axis Repositioning Accuracy	±0.03mm
Max. Acceleration	1.5G
Max. No-load Speed	140m/min
Max. Loading Weight of Platforms	1100kg
Overseas Transport	A 40HQ Standard Container
Overall Dimensions (L*W*H)	8900*2260*2200mm



WHY CHOOSE G3015X PRO?

- Packed in a 40HQ standard container overseas
- High-standard configurations as one of our high-end sheet laser cutting machines
- Fast delivery to oversea customers
- Lay equal stress on self innovation and import from world-famous brands





OUR CURRENT FAMILY OF SHEET METAL LASER CUTTING MACHINES



Power range 1.5-30kW



Cut ultra-large formats (24000*5000mm)



Cut super-thick sheets (100mm CS)



Max. 45° bevel cutting



Cut with ultra-high precision (X0606: max. ±0.005mm/m)

Power	Single Platform		Double Exchange Platforms		Platforms	Coll Stock Cutting
1500W				N/A		
2000W	GC III	х	GA IV	GX	G3015X IV	GL
3000W						
4000W	GF-A/GF-B		1 ((2/3/6KW)		
6000W					N/A	
8000W			GT PRO II			
12000W					G3015X PRO	N/A
15000W			GH PRO II			
20000W				GV		
30000W			N/A			



ALPHA T BUS CNC SYSTEM

- Bus control
- Ultra-high-speed scanning & cutting with micro-connection
- Active obstacle avoidance
- Real-time monitoring of core components
- Flexible/batch processing mode
- Special cutting technology for thick sheets



21.5-inch touch screen

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

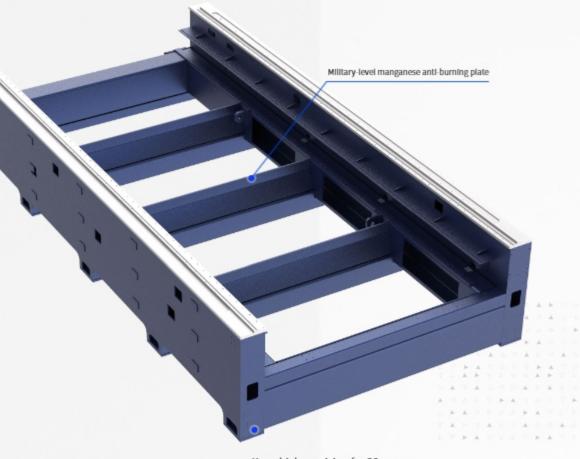
Alpha T, self-developed by HSG LASER, can make data transmission rapid, stable and accurate only via a network cable as a technically advanced bus system.



P10 **INTELLIGENT AUTOFOCUS LASER CUTTING HEAD 10-15KW**

- Self-developed by HSG LASER
- Real-time monitoring of focus position (auto correction) and processing status
- Adjust laser spot based on materials quality and thickness
- Fast-cooling modules for sensor
- Cut thin sheets at fast speed and thick sheet of high quality
- Offer one-stop service, incl. installation, debugging and after-sales service















HIGH-QUALITY CARBON STEEL WELDED MACHINE BED

- High-quality carbon steel adopted, with less impurity, less heat absorption and good rigidity
- Keep high precision for long term due to welding stress removal via low annealing and vibration aging
- 20 years using without deformation
- Lessen the area heated by laser



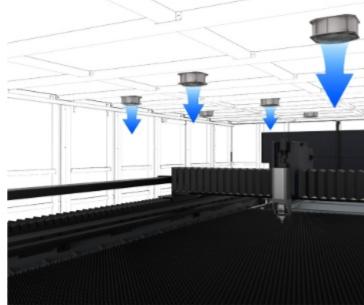
THE LATEST GENERATION OF EXTRUDED AVIATION ALUMINUM BEAM

- Uniform textures
- Higher in strength

- Adopt light-weight 6 series aviation aluminum alloy, with good dynamic performance
- Anti-compressive honeycomb structure, keeping up with aerospacecraft design standards
- No air or sand hole but higher strength because of extrusion forming technology
- One-piece structure of beam and its column, as thus, keep high precision for 20+ years







ECO-FRIENDLY CUTTING



Almost smoke-free In an Instant



Environmental and pollution-free



Low noise



ZONING VENTILATION

- · Divide cutting area into left and right zone
- · Generally controlled by butterfly valve
- · 300*300mm full-hollow air ducts on both sides of machine bed
- Synchronize cutting and smoke discharge

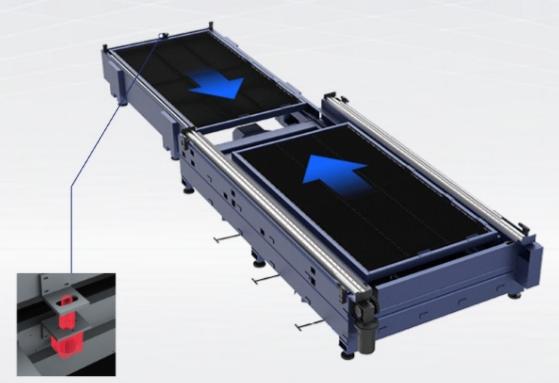
POSITIVE-PRESSURE PROTECTION

- · At national standard level
- · Several blower fans on top cover and beam, pressing smoke below machine bed
- · Work with button hurricane-force ventilation system
- · Air outlet on Z axis of P10 can blow away cutting smoke to keep itself clean



exchange platforms to enable eco-friendly cutting and protect operators and whole machine.





Taper Pins Positioning

DOUBLE EXCHANGE PLATFORMS TAPER PINS POSITIONING



16A wide chains



3 times faster than hydraulic lifting platforms



High positioning precision



Visible exchange process

- \$\rightarrow\$ 16A wide chains for more stable cutting
- Positioned by taper pins to prevent vibration and secure high positioning precision
- Migh-precision CNC system, protecting the machine and operators well



MIRROR-LIKE SURFACE CUTTING

- * Cutting section as smooth as a mirror
- * Smaller degree of taper
- * High cutting precision
- * Save energy and costs
- * With no need for secondary polishing

Tips: It is only applicable to carbon steel cutting by oxygen.

LOW-PRESSURE AIR CUTTING

- * Triple cutting speed
- * Halve total costs and energy consumption
- * Require little polishing due to less adhering slags



PROFITABLE COOL TECHNOLOGIES FOR YOU



LIGHTNING-FAST PIERCING

- * Piercing at millisecond level
- * Piercing with high precision
- * Negligible popping rate
- * Clean and slagless



INTELLIGENT CUTTING PATH PLANNING

- * Cutting precision at micron level
- * Smooth, flat and sightly incision
- * IPG or Raycus lasers
- * Fit for precision-demanding industries



STANDARD WIRING











- The independent electrical cabinet caters to EU CE standards and separates weak current from strong current area to prevent electromagnetic interference, dust entry and possible ignition.
- External control elements are equipped with Phoenix pluggable fail-safe wiring terminal.
- Every line matches with its own code. The optical fiber line, gas hose, water hose, strong current line and weak current line in wiring duct are arranged in different zones to prevent signal interference and frictional loss among lines.



HIGH-STANDARD PACKAGE





To keep entire machine safe during long-distance sea transport, we adopt high-standard package, incl. aluminum foil, metal framework, fumigation wooden case, anti-rust oil+oilpaper, moisture-barrier bag, waterproof plastic film and filling foam.





WORLD-FAMOUS COMPONENTS





GERMAN WITTENSTEIN ALPHA

Speed reducer (incl. gears)



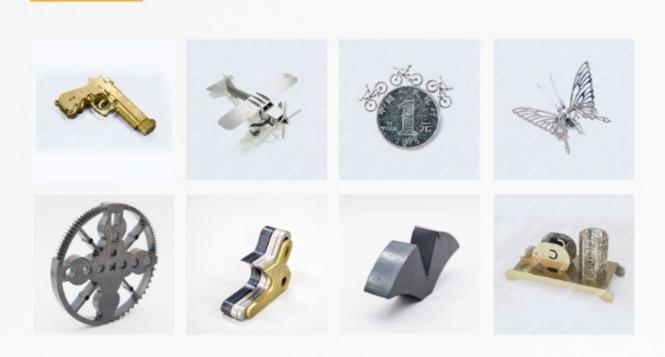
GERMANY, AMERICAN AND FRENCH BRANDS

Electrical control and cutting path system

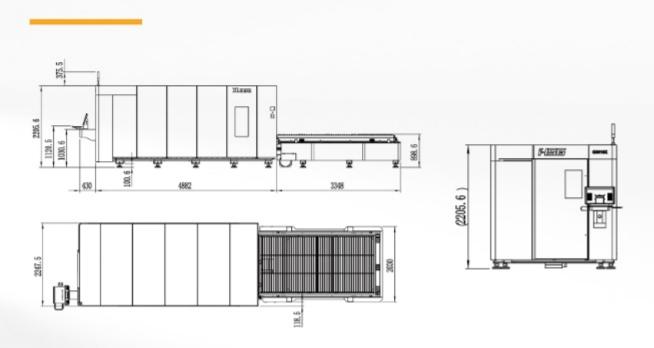




CUTTING SAMPLES

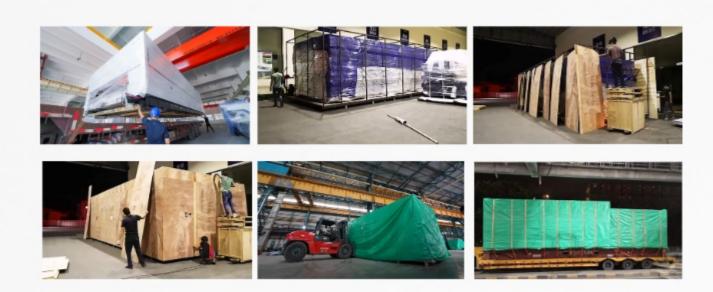


MACHINE DIMENSION





HIGH-STANDARD PACKAGE



CUSTOMER TESTIMONIALS





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.







SERVE 100+ COUNTRIES AND REGIONS





- * 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



MACHINES AVAILABLE FOR SALE

- Sheet metal laser cutting machines
- ♦ Sheet & tube laser cutting machines
- Tube metal laser cutting machines
- Bending machines
- Welding machine
- Automation devices





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

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



TABLE C	F SHEET THI	CKNESS AND CUTTING SPEED		
Material name	Thickness (mm)	CUTTING SPEED (m/min)		
масенас пате	Tilickiless (IIIII)	12000W		
	1	8.0-12.0		
	2	6.0-7.5		
	3	3.6-4.5		
	4	3.2-3.8		
	5	3.0-3.4		
	6	2.6-3.3		
Carbon steel	8	2.3-2.8		
(O ₂)	10	2.0-2.8		
(0.)	12	1.6-2.7		
	16	1.4-2.4		
	20	1.0-2.4		
	25	0.8-1.3		
	30	0.4-1.2		
	40	0.2-0.6		
	1	48.0-60.0		
	2	24.0-30.0		
	3	20.0-25.0		
	4	18.0-24.0		
	5	14.0-19.0		
	6	9.0-12.0		
	8			
Ct-:- t	10	6.5-10.0 5.0-7.0		
Stainless steel	12			
(N ₂)	14	3.2-5.5		
		2.8-4.5		
	16	2.0-3.0		
	18	2.0-2.3		
	20	1.2-1.9		
	25	0.7-1.0		
	30	0.5-0.7		
	40	0.2-0.3		
	1	40.0-50.0		
	2	25.0-30.0		
	3	20.0-25.0		
	4	18.0-23.0		
	5	14.0-17.0		
Aluminum alloy (N ₂)	6	11.0-14.0		
	8	7.0-8.5		
	10	3.5-4.5		
	12	3.3-4.0		
	16	1.5-2.0		
	20	1.0-1.2		
	25	0.8-0.9		
	30	0.5-0.7		
	40	0.3-0.4		



TABLE OF SHEET THICKNESS AND CUTTING SPEED					
Material name	Thickness (mm)	CUTTING SPEED (m/mln)			
		12000W			
	1	40.0-50.0			
Brass (N ₂)	2	20.0-25.0			
	3	14.0-20.0			
	4	13.0-17.0			
	5	10.5-11.5			
	6	8.0-9.5			
	8	5.0-6.5			
	10	4.0-5.0			
	12	2.5-3.5			
Red copper (O ₂)	1	28.0-45.0			
	2	18.0-25.0			
	3	14.0-18.0			
	4	10.0-14.0			
	5	8.0-9.5			
	6	6.0-7.0			

2.0-3.0