

HIGH-EFFICIENT LINEAR MOTOR

DOUBLE EXCHANGE PLATFORMS LASER CUTTING MACHINE

2000-6000W



GX-M

Technical Parameter	G3015X-M	
Power	2000-6000W	
Processing Format (L*W)	3048*1524mm	
X/Y-axis Positioning Accuracy	±0.03mm/m	
X/Y-axis Repositioning Accuracy	±0.03mm	
Max. Acceleration	2.0G	
Max. No-load Speed	200m/min	
Max. Loading Weight	950kg	
Overall Dimensions (L*W*H)	8900*2260*2200mm	



OUR CURRENT FAMILY OF SHEET METAL LASER CUTTING MACHINES











Power	Single Platform		Double Exchange Platforms		Coil Stock Cutting	
1500W			N/A			
2000W		,		GX IV	GL, GL-S	
3000W	GC III,X	GA IV	GX, GX-M	GXIV	,	
4000W			(2/3/6KW)	N/A		
6000W						
8000W			'			
12000W	05.4/05.5	GT PRO II			N/A	
15000W	GF-A/GF-B					
20000W		GH PRO II	GH PRO II	GV		
30000W		N/A				



WHY CHOOSE GX-M?

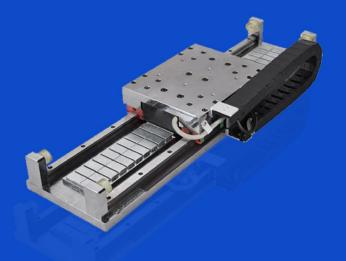


- A high-end model with better configurations
- ≥ 20% higher than machine with servo motor because of linear motor adopted

KEY CONFIGURATIONS

	GX-M
Control System	Alpha T bus CNC system
Speed Reducer	German WITTENSTEIN Alpha
Racks	German WITTENSTEIN Alpha
Laser-proof Glass	
Top Cover	
Positive-pressure Blowing on Top Cover	
Zoning Ventilation System	Standard
Pneumatic Door for Exchange Platforms	
Safety Light Curtain	
CCD Monitoring Camera	Optional





Linear Motor

- Convert electricity into mechanical energy directly for linear motion
- High-precision positioning control from high speed to low speed
- Max. no-load speed 200m/min
- Max. Acceleration 2.0G

Servo Motor

Indirect speed variator
Prone to low-frequency vibration at low speed
Max. no-load speed 140m/min
Max. acceleration 1.5G



HIGH-PERFORMING LINEAR MOTOR

- Large thrust, small resistance force, pick up speed quickly
- ♦ Perform stable and efficient due to its module-based structure



Compact size



Small power loss



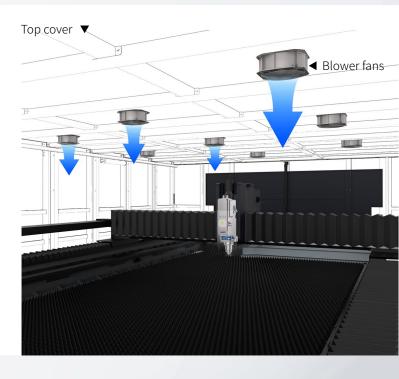
Quick travel



High acceleration















ECO-FRIENDLY CUTTING

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













HIGH-QUALITY CARBON STEEL **WELDED MACHINE BED**

- Cover with military-level anti-burning manganese steel
- 20 years using without deformation
- Lessen the area heated by laser



THE LATEST GENERATION OF EXTRUDED AVIATION ALUMINUM BEAM

- Adopt 6 series aviation aluminum alloy
- Keep up with aerospacecraft design standards

- More solid in structure
- Uniform textures
- Higher in strength











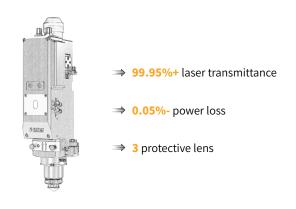




Cut thin and thick sheets in batch stably

HIGH-PRECISION LASER CUTTING HEAD

- Special monitoring sensor for cutting head
- Keep away from barrier or obstacle automatically during cutting





ALPHA T BUS CNC SYSTEM

- Data transmission only via a network cable
- Easy to operate even by green hands
- Match with 2000+ process data
- Graphical programming interface
- Compatible with DXF, DWG, PLT, NC code, etc.
- Improve stock layout and material utilization by 20% and 9.5%



Ultra-high-speed scanning & cutting with micro-connection Active obstacle avoidance

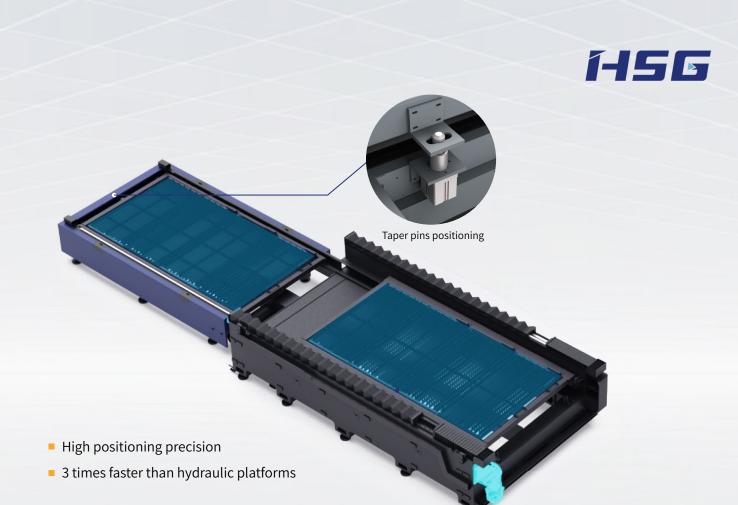
Real-time monitoring of core components

Flexible/batch processing mode

Built-in nesting software

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

Tips: Lantek nesting software is offered for selection.



DOUBLE EXCHANGE PLATFORMS TAPER PINS POSITIONING

- 16A wide chains for more stable cutting
- ♦ High-precision CNC system, protecting the machine and operators well
- ♦ Pneumatic door between exchange platforms can prevent cutting smoke diffusion and keep working environment clean



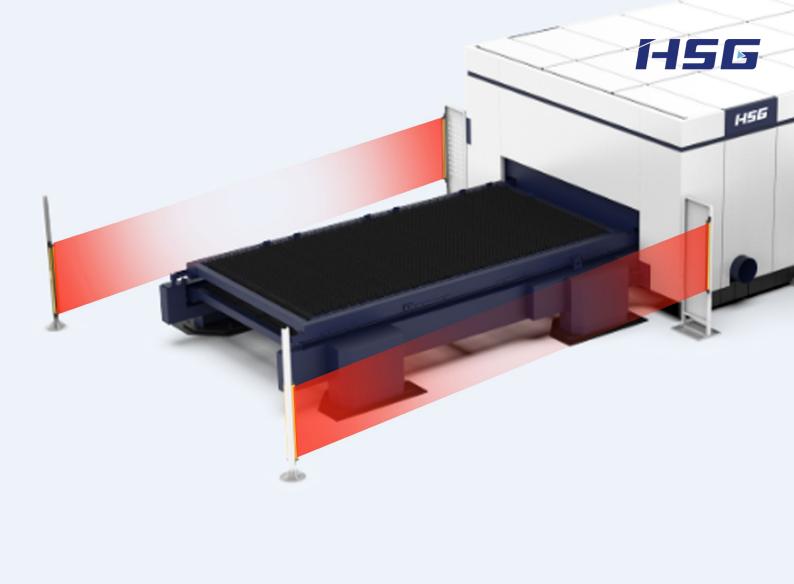




GERMAN WITTENSTEIN ALPHA SPEED REDUCER (INCL. RACKS)

- World's top brand
- Keep high precision for 10 years
- Low running noise





OPTIONAL FEATURES

SAFETY LIGHT CURTAIN

- Halt the machine instantly when any intruder is detected
- Protect workers and the whole machine well



PROFITABLE COOL TECHNOLOGIES FOR YOU



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.



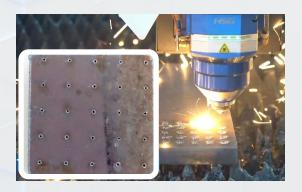
INTELLIGENT PERFECT FINISH CUT (PFC)

- * No built-up edge
- * No external surface scaldy
- * No overburning on cut endpoint



INTELLIGENT CUTTING PATH PLANNING

- * Improve cutting efficiency by 30%
- * Huge reduction in costs



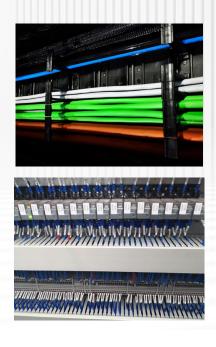
LIGHTNING-FAST PIERCING

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



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.



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

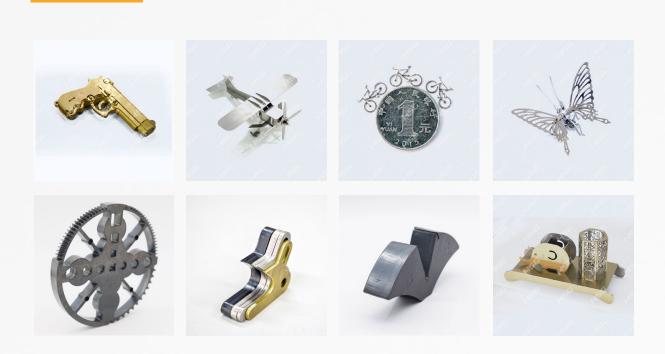
Unit components subjected to normal wear during the Warranty Period are not covered by warranty, including: 1. Nozzle 2. Protective lens 3. Ceramic ring

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

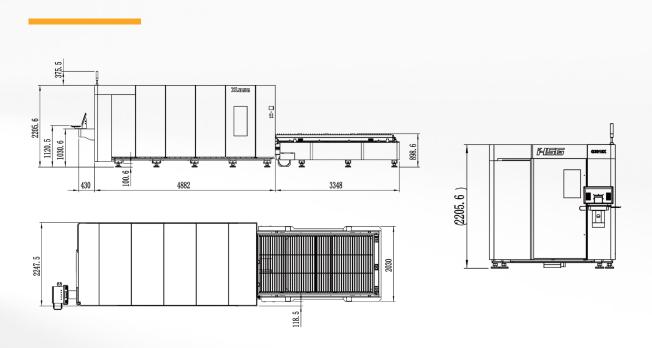
Component failure caused by customer misuse/abuse of the unit (e.g. using incompatible materials or wrong axial position settings), voids the warranty.



CUTTING SAMPLES

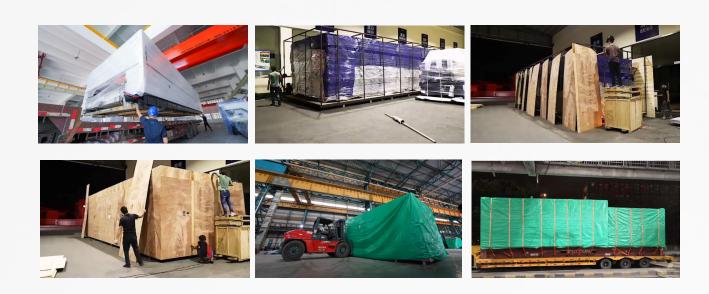


MACHINE DIMENSION





SHIPMENT DIAGRAM



CUSTOMER TESTIMONALS





		Cutting Speed (m/min)			
Material Name	Thickness (mm)	2000W	3000W	6000W	
	1	7.0-12.0	7.0-12.0	8.0-12.0	
	2	5.0-6.5	5.0-7.0	5.0-7.5	
	3	3.0-3.7	3.0-3.8	2.8-4.0	
	4	2.5-3.3	2.6-3.5	2.4-3.7	
	5	2.2-3.0	2.5-3.1	2.3-3.2	
Carbon steel	6	2.0-2.8	2.0-3.0	2.1-3.0	
(O ₂)	8	1.3-2.0	1.4-2.2	1.3-2.2	
. 2	10	1.0-1.4	1.2-1.8	1.2-2.1	
	12	0.9-1.2	1.0-1.5	1.0-1.6	
	16	0.60-0.75	0.7-0.85	0.6-0.9	
	20	0.3-0.5	0.6-0.75	0.4-0.8	
	25			0.3-0.4	
	1	35.0-50.0	42.0-62.0	45.0-55.0	
	2	10.0-15.0	12.0-25.0	20.0-30.0	
	3	4.0-7.0	7.0-12.0	11.0-16.0	
	4	2.5-4.5	4.0-6.5	9.5-12.0	
Stainless Steel	5	1.6-2.5	2.5-4.5	6.0-7.5	
(N_2)	6	0.7-0.8	1.5-3.2	4.5-6.5	
	8	0.4-0.6	0.6-1.0	3.0-4.0	
	10		0.4-0.8	1.8-2.4	
	20			0.4-0.5	
	1	20.0-38.0	35.0-55.0	40.0-50.0	
	2	10.0-15.0	12.0-20.0	20.0-25.0	
	3	5.0-6.0	7.0-10.0	10.0-15.0	
	4	3.0-3.6	3.7-5.0	8.0-9.5	
	5	2.0-2.4	2.5-3.5	5.0-7.0	
luminum Alloy	6	0.8-1.5	1.5-2.5	4.5-5.5	
(N_2)	8		0.6-1.2	2.2-3.5	
	10			1.5-2.3	
	12			0.8-1.0	
	16			0.6-0.7	
	1	19.0-30.0	28.0-55.0	40.0-45.0	
	2	6.5-9.0	9.0-20.0	14.0-20.0	
	3	2.5-4.0	4.5-10.0	10.0-12.5	
Brass	4	1.6-2.2	2.5-4.5	8.0-9.5	
(N ₂)	5	0.9-1.2	1.2-2.5	5.0-6.0	
	6		0.9-2.0	3.0-3.8	
	8		0.5-2.0	2.0-2.5	
	1	12.0-18.0	15.0-33.0	16.0-30.0	
Red Copper (O ₂)	2				
	3	4.5-6.5 1.1-1.8	5.5-9.5	8.0-12.0	
	4	1.1-1.0	1.7-3.8	5.5-8.5	
	5			4.0-6.0 3.0-4.0	

Version No.:2022.01

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



