

HIGH-POWER DOUBLE EXCHANGE PLATFORMS LASER CUTTING MACHINE



G3015X Pro

40HQ STANDARD CONTAINER TRANSPORT MODEL

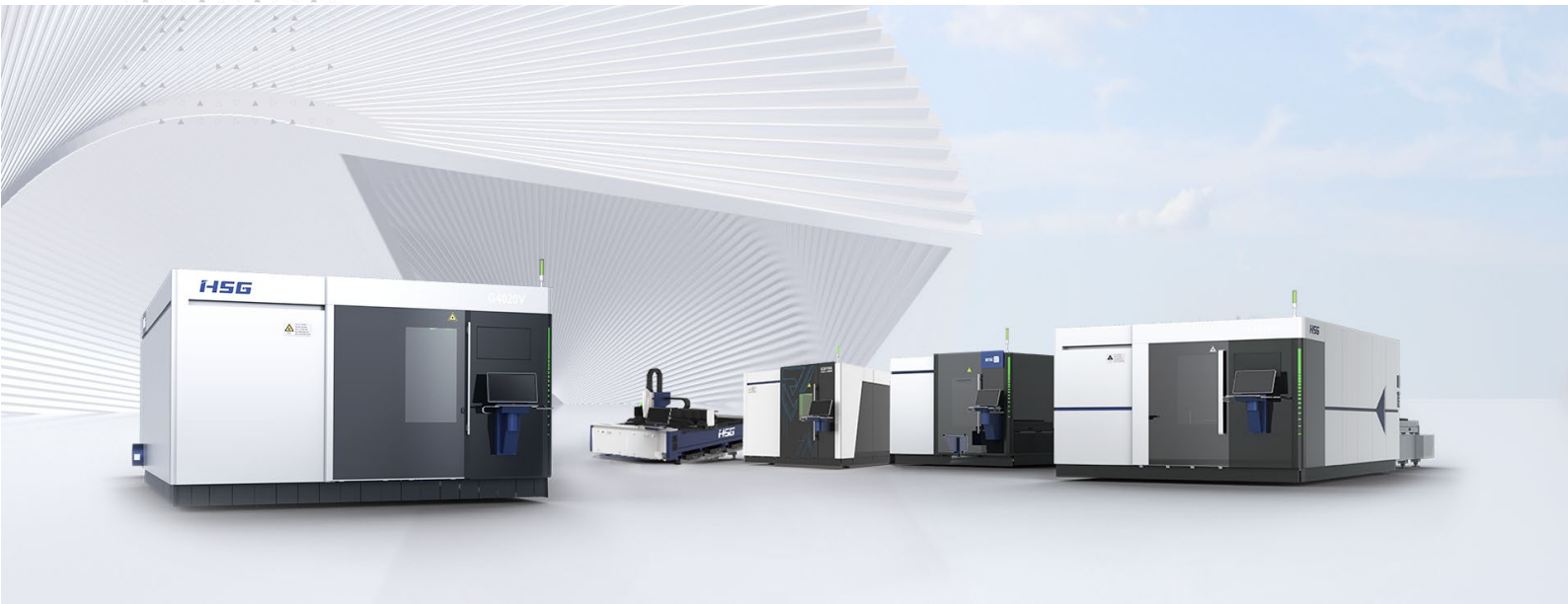
Technical Parameter	G3015X Pro
Processing Format (L*W)	3048*1524mm
Power	12000W
X/Y-axis Positioning Accuracy	±0.03mm/m
X/Y-axis Repositioning Accuracy	±0.03mm
Max. Acceleration	1.5G
Max. No-load Speed	140m/min
Max. Loading Weight of Platforms	1100kg
Overseas Transport	A 40HQ Standard Container
Overall 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			Coil Stock Cutting
1500W	GC III	X	GA IV	N/A	G3015X IV	GL
2000W				GX (2/3/6KW)		
3000W						
4000W	GF-A/GF-B		GT PRO II		N/A	N/A
6000W					G3015X PRO	
8000W			GV			
12000W				GH PRO II		
15000W					N/A	
20000W			N/A			
30000W						

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
- Built-in nesting software



1
21.5-inch touch screen

2
Easy to operate even by green hands

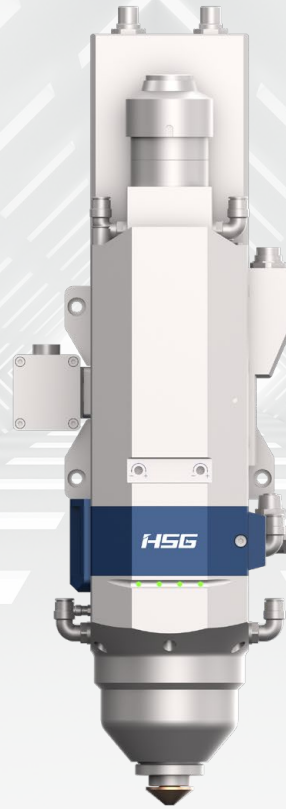
3
Match with 2000+ process data on its graphical programming interface

4
Compatible with multiple graphic files, incl. DXF, DWG, PLT and NC code

5
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.

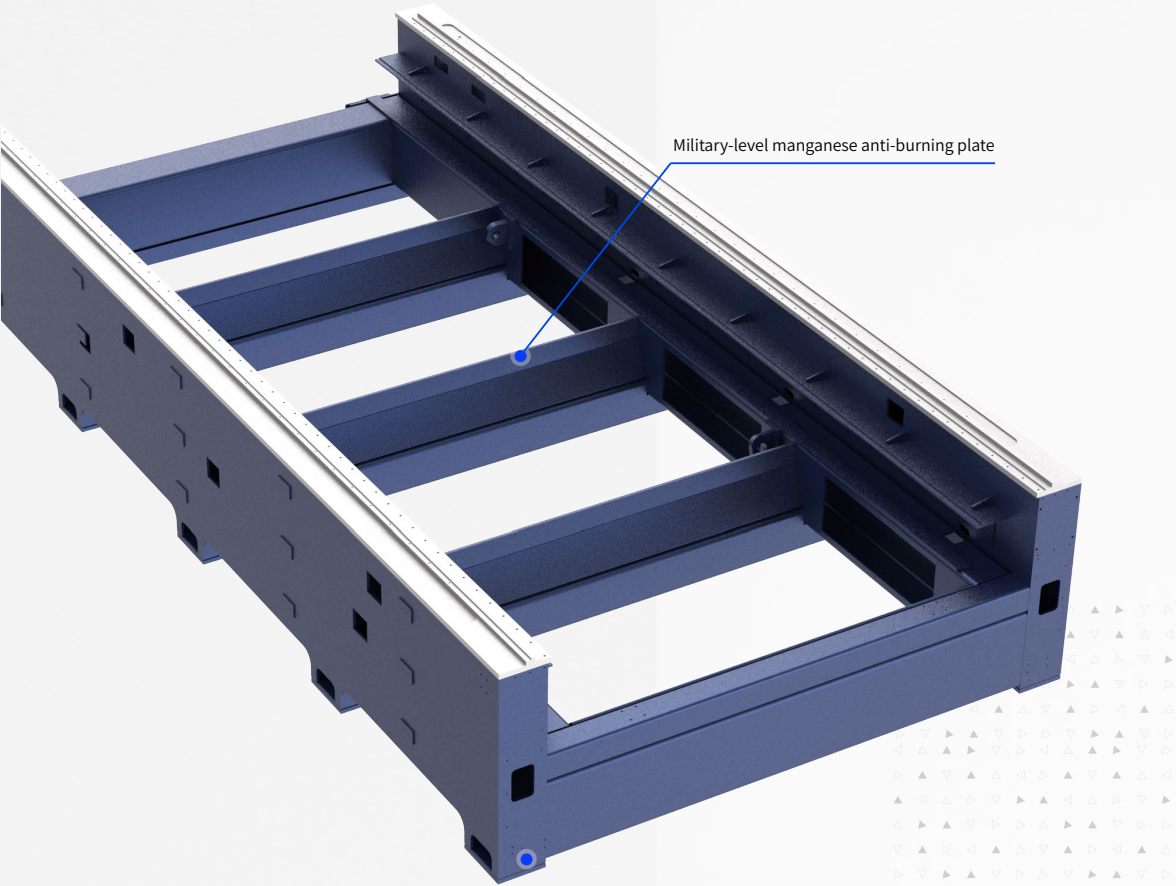
-  Autofocus precision $\pm 0.01\text{mm}$
-  Active obstacle avoidance
-  High-transmittance lens
-  Lower requirements for materials
-  Give early warning if abnormal
-  Easy to maintain at low costs



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



Military-level manganese anti-burning plate

Keep high precision for 20+ years



More solid in structure



Highly precise and stable for 20+ years



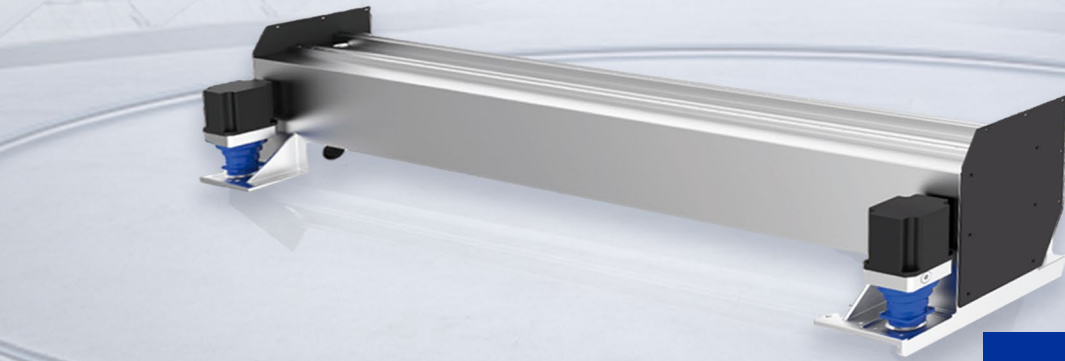
Much safer in cutting



Keep operators safe

HIGH-QUALITY CARBON STEEL WELDED MACHINE BED

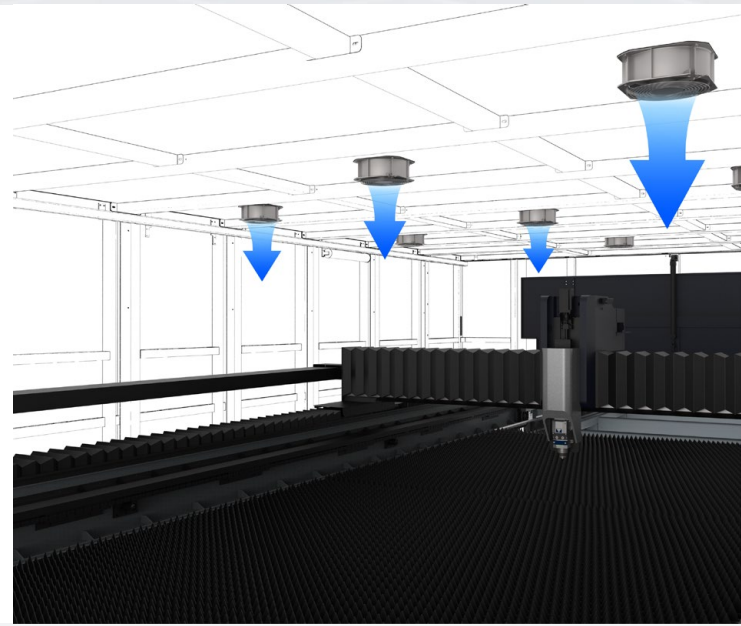
- High-quality carbon steel adopted, with less impurity, less heat absorption and good rigidity
- Keep high precision for long term due to welding stress removal via low annealing and vibration aging
- 20 years using without deformation
- Lessen the area heated by laser



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

THE LATEST GENERATION OF EXTRUDED AVIATION ALUMINUM BEAM

- ☞ 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



Long-life components

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

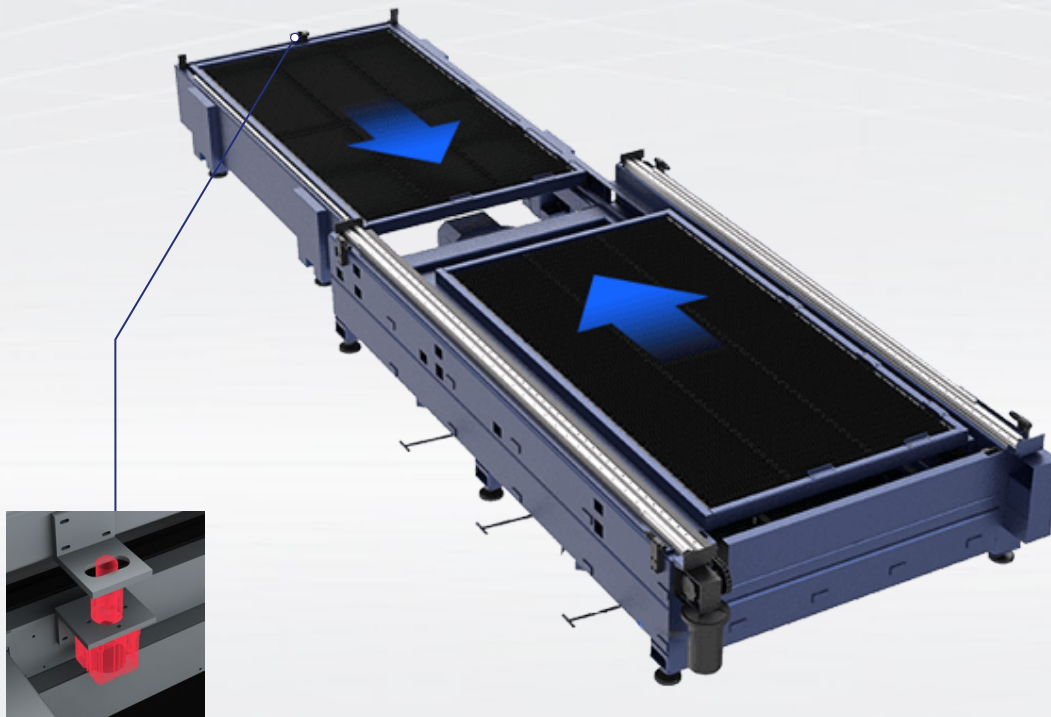
POSITIVE-PRESSURE PROTECTION

- * 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

FULL-PROTECTIVE STRUCTURE

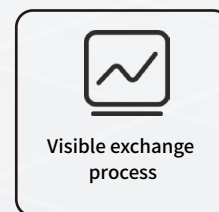
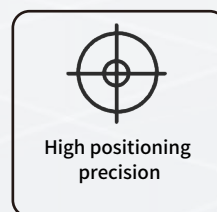
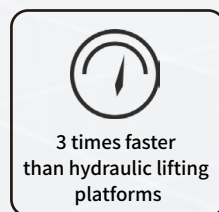


- 📦 G3015X Pro is full-protective without any laser leakage. There is a safety door between exchange platforms to enable eco-friendly cutting and protect operators and whole machine.



Taper Pins Positioning

DOUBLE EXCHANGE PLATFORMS TAPER PINS POSITIONING

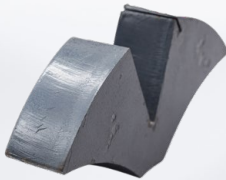


- 🔗 16A wide chains for more stable cutting
- 🔗 Positioned by taper pins to prevent vibration and secure high positioning precision
- 🔗 High-precision CNC system, protecting the machine and operators well

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

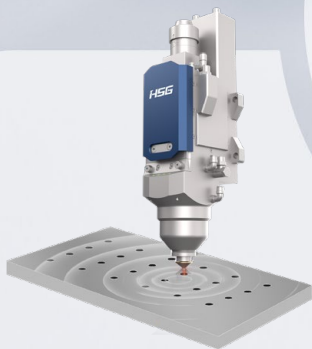
Tips: It is only applicable to carbon steel cutting by oxygen.



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

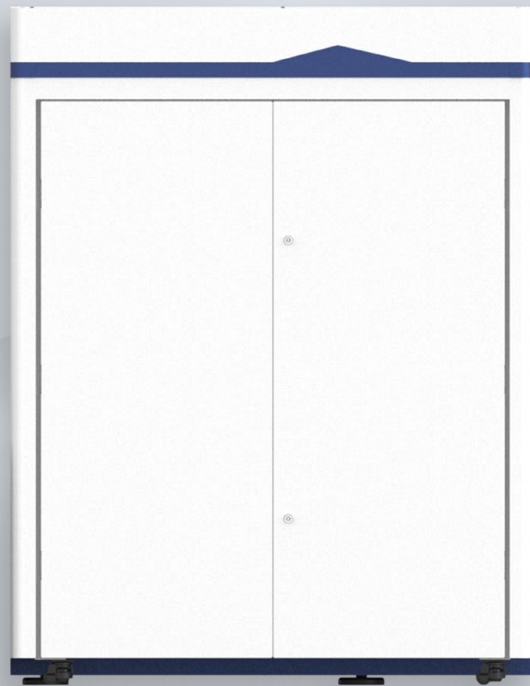
- * Piercing at millisecond level
- * Piercing with high precision
- * Negligible popping rate
- * Clean and slagless



INTELLIGENT CUTTING PATH PLANNING

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

STANDARD WIRING

**CE**

CE-compliant



No worry about wiring error



Independent electrical cabinet



Much safer in operation

- ✎ 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



Meet ocean shipping
criteria



\$1500 higher than
other pees in
packaging expenses

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

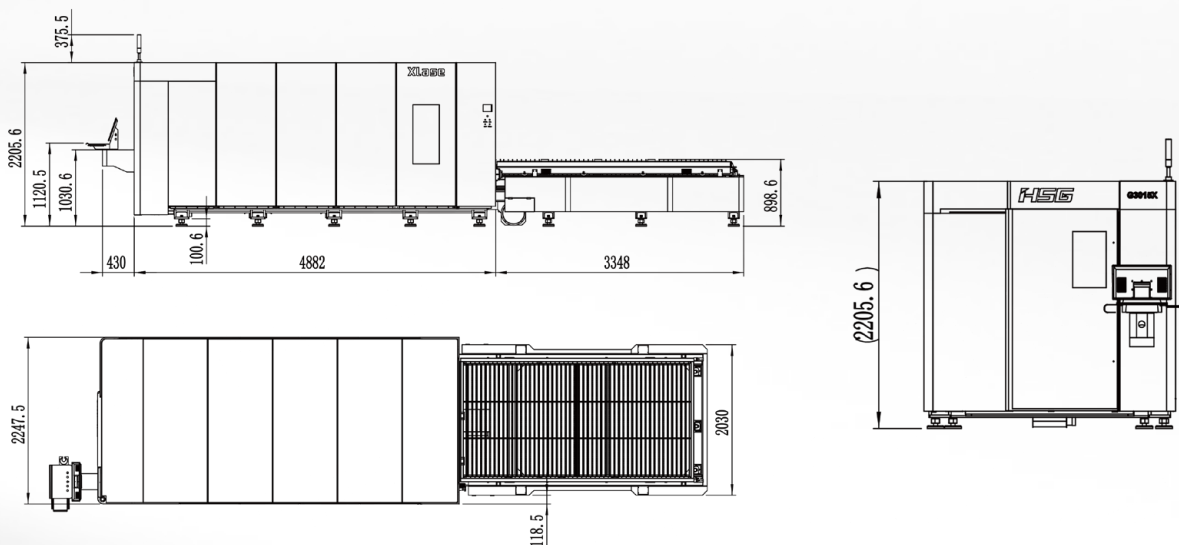
Electrical control and cutting path system



CUTTING SAMPLES



MACHINE DIMENSION



HIGH-STANDARD PACKAGE



CUSTOMER TESTIMONIALS





Intelligent Manufacturing Changes Future

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.



33 patents for
invention



316 patents
in total

SERVE 100+ COUNTRIES AND REGIONS



4
Standardized
manufacturing
bases in China

80000m² +
Total area of
production factories

5000+
Annual productivity

3000+
Global sales in 2020

1500+
Employees

170+
R&D personnel

10
Branches/subsidiaries/
sub-subsidiaries







30+
Service outlets overseas

R&D ACHIEVEMENTS

- * 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

IN PURSUIT OF
QUALITY
EXCELLENCE



STEP1
COLORIMETER



STEP2
FILM THICKNESS GAUGE



STEP5
COLLIMATOR
(beam)



STEP4
HARDNESS TESTER



STEP3
2D CATHETOMETER



STEP6
COLLIMATOR
(bed)



STEP7
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.

TABLE OF SHEET THICKNESS AND CUTTING SPEED

Material name	Thickness (mm)	CUTTING SPEED (m/min)
		12000W
Carbon steel (O ₂)	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
	8	2.3-2.8
	10	2.0-2.8
	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
Stainless steel (N ₂)	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	6.5-10.0
	10	5.0-7.0
	12	3.2-5.5
	14	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
Aluminum alloy (N ₂)	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
	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/min)
		12000W
Brass (N ₂)	1	40.0-50.0
	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
	8	4.0-5.0
	10	2.0-3.0