

PROFESSIONAL LASER  
EQUIPMENT MANUFACTURER



LASER TECHNOLOGY MAKES A BETTER LIFE



# PHOTOGRAPHS OF FACTORY





Fiber Laser Cutting Machine Factory

Gantry Milling Working Factory



LASER CUTTING. SERVICE FOR 150 COUNTRIES WORLDWIDE

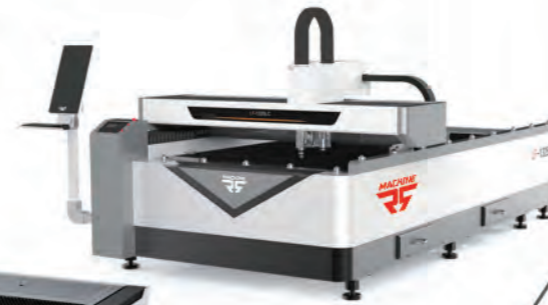




42 FIBER LASER CUTTING MACHINE



44/ $CO_2$  METAL & NONMETAL DUAL USE FIBER LASER CUTTING MACHINE



46/ $\equiv$  3D FIBER LASER CUTTING ROBOT



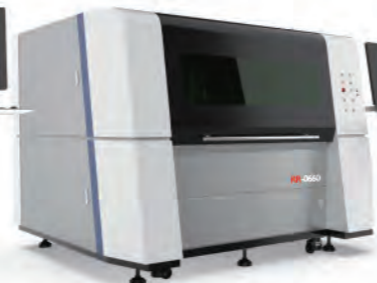
48/ $\equiv$  3D/HAND HELD LASER WELDING MACHINE



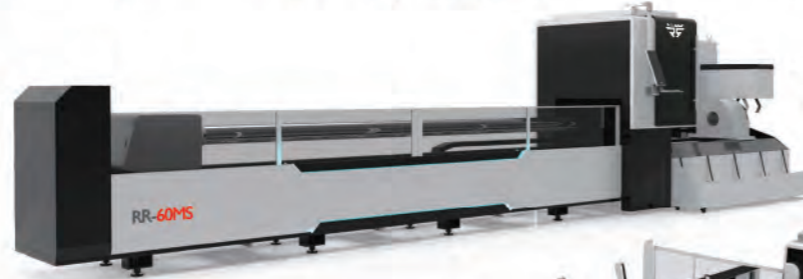
49/ LASER CLEANING MACHINE



40/ PRECISION FIBER LASER CUTTING MACHINE



38/ AUTOMATIC FIBER LASER METAL TUBE CUTTING MACHINE



34/ AUTO LOADING AND UNLOADING FIBER LASER TUBE CUTTING MACHINE

36/ $\equiv$  THREE CHUCKS ZERO REMAINS FIBER LASER METAL CUTTING MACHINE



32/ PIPE & PLATE DUAL-USE FIBER LASER CUTTING MACHINE



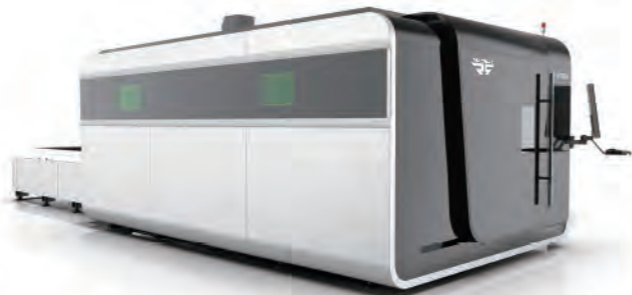
31/ DUAL DRIVER GEAR RACK FIBER LASER CUTTING MACHINE



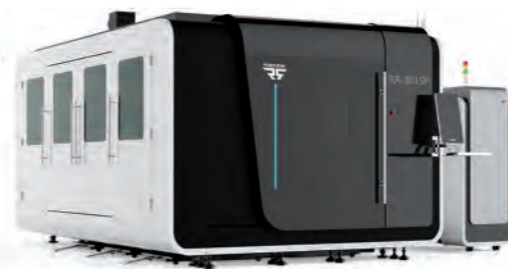




HIGH POWER WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE /12



WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE /14



ALL COVER FIBER LASER CUTTING MACHINE /16



WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE /18



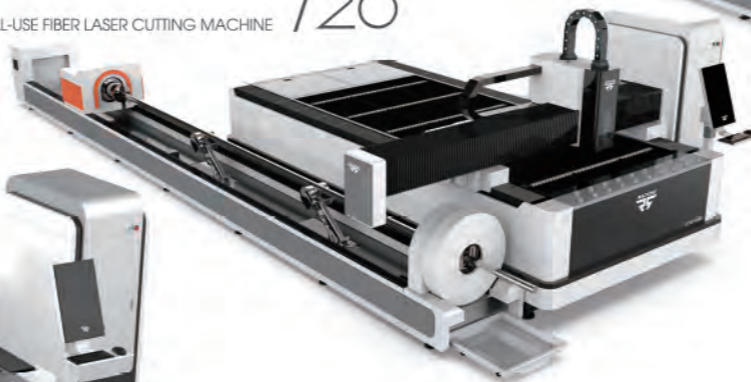
PIPE & PLATE WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE /20



EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE /22



PIPE & PLATE EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE /24



PIPE & PLATE DUAL-USE FIBER LASER CUTTING MACHINE /26



HIGH SPEED FIBER LASER CUTTING MACHINE /28



DUAL DRIVER GEAR RACK FIBER LASER CUTTING MACHINE /30



## Rapid Perforation

Rapid perforation, suitable for different thickness sheet metal porous batch processing  
Stable perforation, efficient cutting work, easy operation, saving time and labor cost

Machine model	LF4020GH/6025GH
Laser power	3000W 4000W 6000W 8000W 10000W 12000W 15000W 20000W(Optional)
Dimensions	8850*2850*2310mm 10800*3350*2310 15475*3970*2575
Working area	4000mm×2000mm 6000mm×2500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	90m/min
Max. acceleration	2.5G
Specified voltage and frequency	380V 50Hz/60Hz



Type Z Overweight Welding Bed



Aviation Aluminum Gantry



German Precitec Laser Head



German Atlanta Gear Rack



GH

HIGH POWER WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE





## Aviation Aluminum Gantry

It is manufactured with aerospace standards and formed by 4300 tons press extrusion molding. After aging treatment, its strength can reach 6061 T6 which is the strongest strength of all gantries. Aviation aluminum has many advantages, such as good toughness, light weight, corrosion resistance, anti-oxidation, low density, and greatly increase the processing speed.

Machine model	LF3015GA/4020GA/6020GA
Laser power	3000W 4000W 6000W 8000W 10000W 12000W15000W 20000W(Optional)
Dimensions	8850*2850*2310mm 10800*3350*2310 14740*3350*2310
Working area	3000mm×1500mm 4000mm×2000mm 6000mm×2000mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Heavy Plate Welding Bed



CE Standard Protective Glass



German Precitec Laser Head

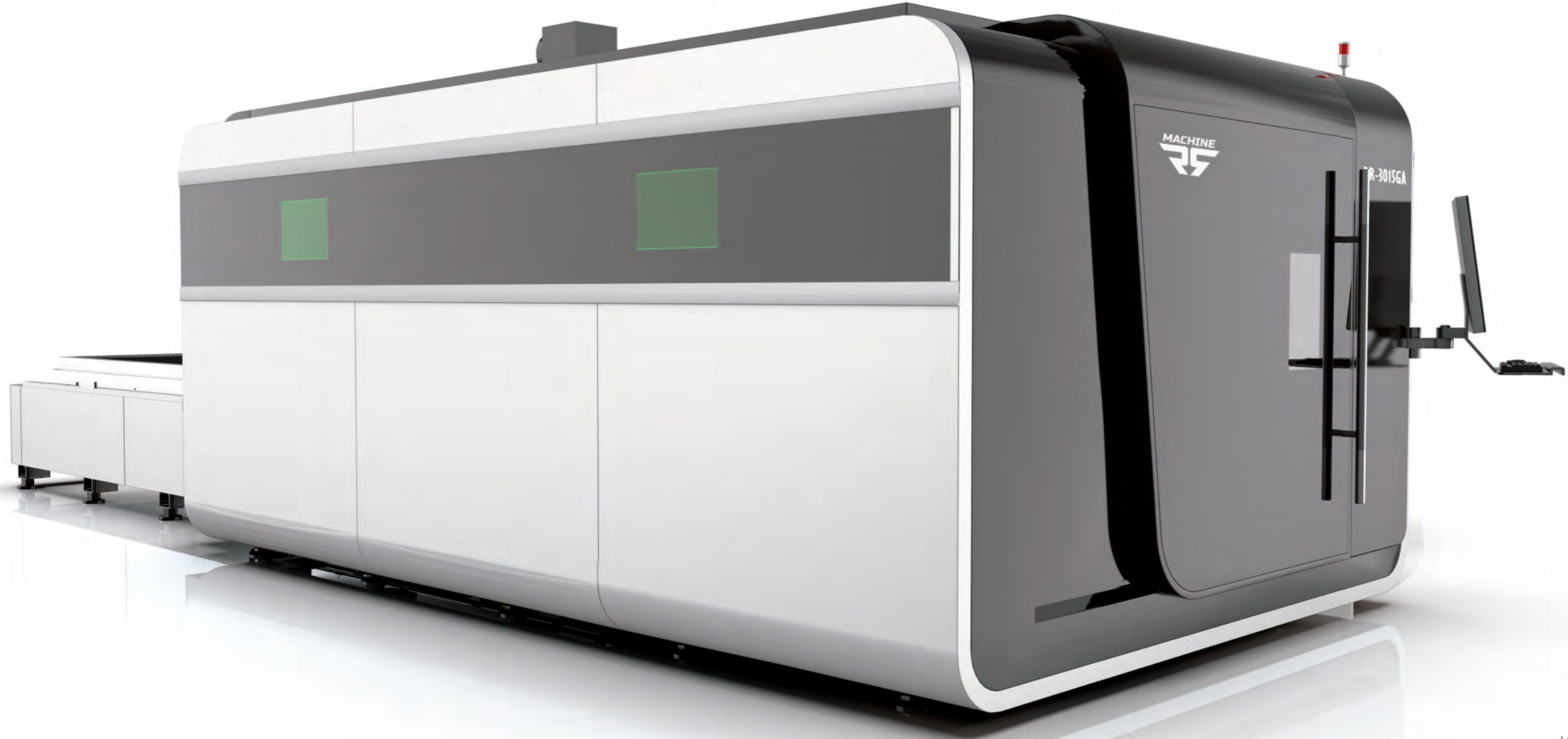


German Atlanta Gear Rack

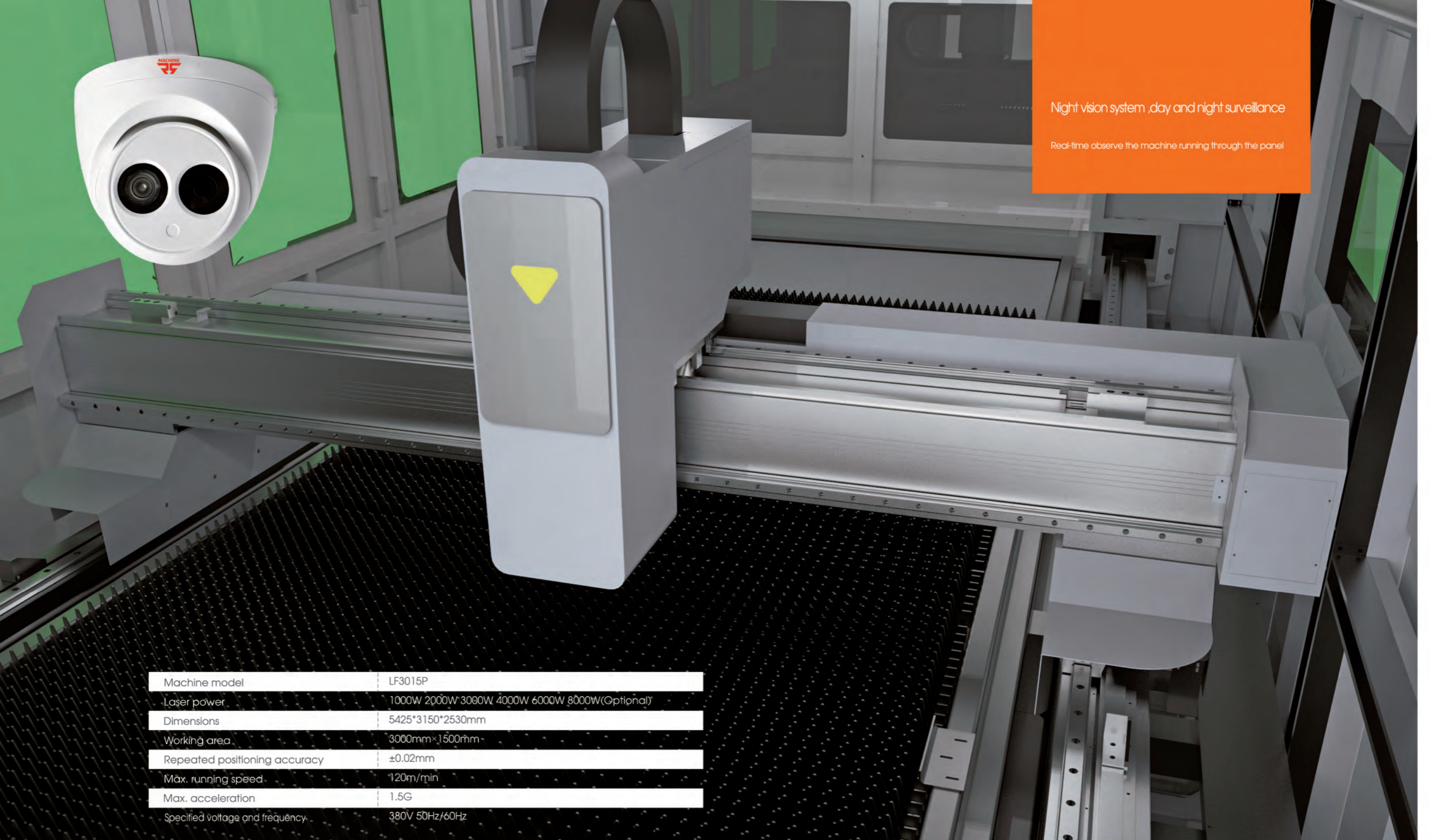




WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE







Night vision system ,day and night surveillance  
 Real-time observe the machine running through the panel

Machine model	LF3015P
Laser power	1000W 2000W 3000W 4000W 6000W 8000W(Optional)
Dimensions	5425*3150*2530mm
Working area	3000mm*1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Heavy Plate Welding Bed



Aviation Aluminum Gantry

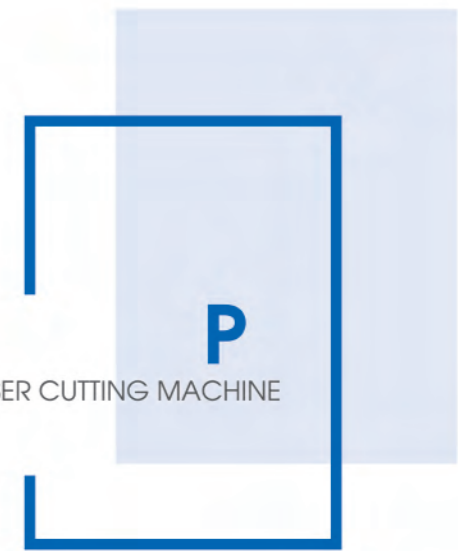


CE Standard Protective Glass



German Atlanta Gear Rack





ALL COVER FIBER LASER CUTTING MACHINE





## The Segmented Rectangular Welded Bed

The internal structure of the bed adopts the aircraft metal honeycomb structure, which is welded by a number of rectangular. Stiffeners are arranged inside the to increase the strength and tensile strength of the bed, it also increases the resistance and stability of the guide rail so as to effectively avoid the deformation of the bed.

Machine model	LF6020G/LF6025G
Laser power	3000W 4000W 6000W 8000W 10000W 12000W 15000W(Optional)
Dimensions	14085*3345*2130mm 14600*3845*2350mm
Working area	6000mm x 2000mm 6000mm x 2500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Aviation Aluminum Gantry



CE Standard Protective Glass



Exchange Platform

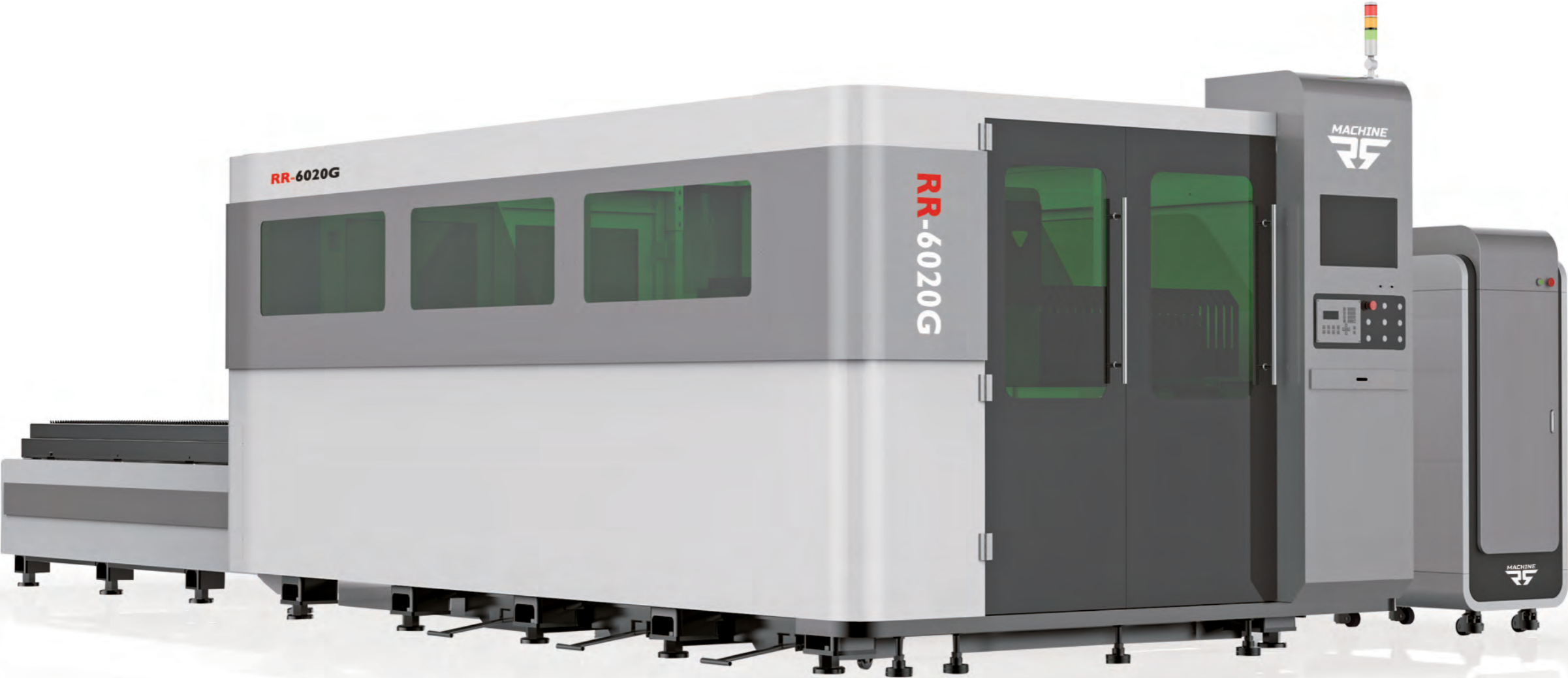


German Neugart Reducer

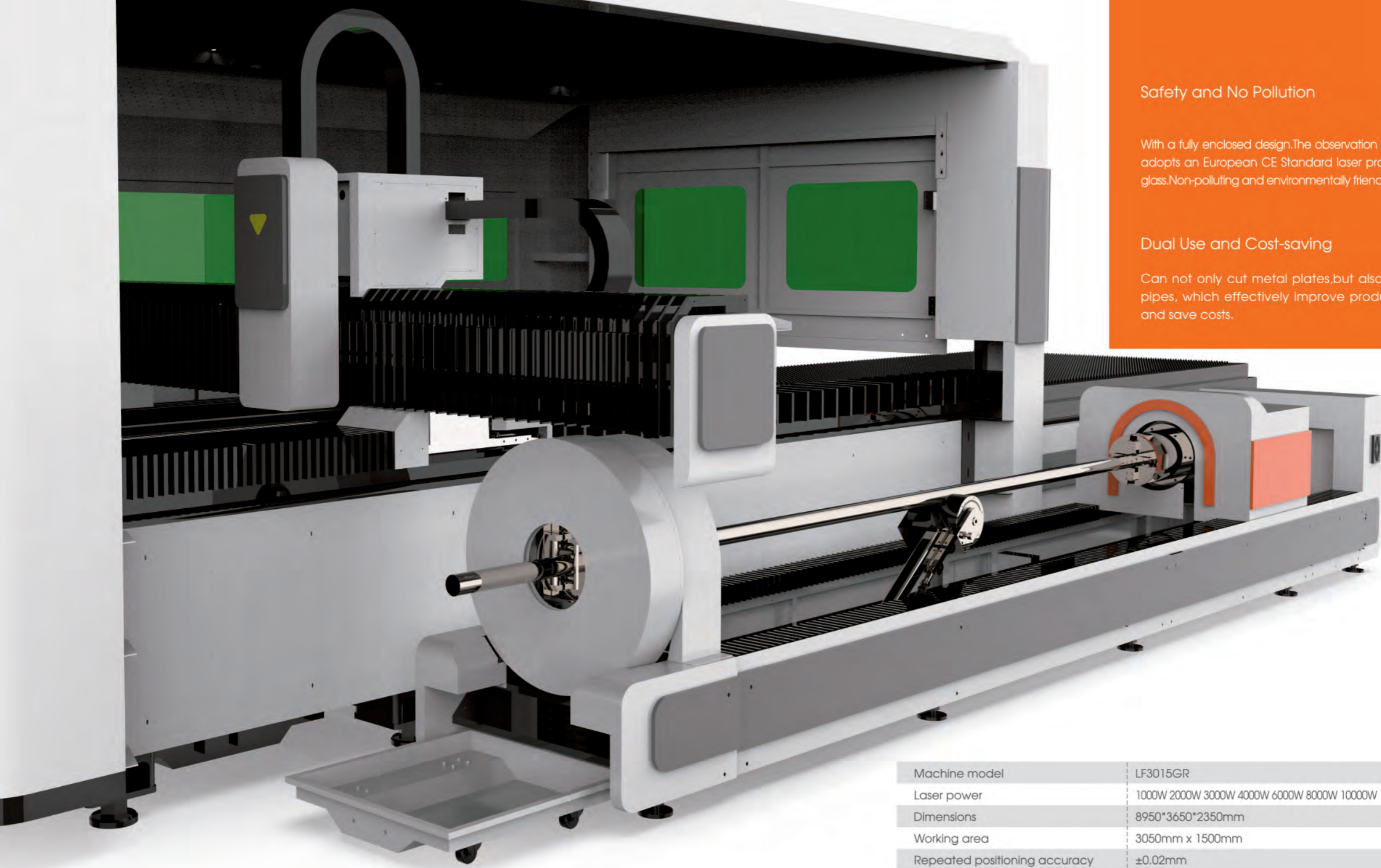




WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE







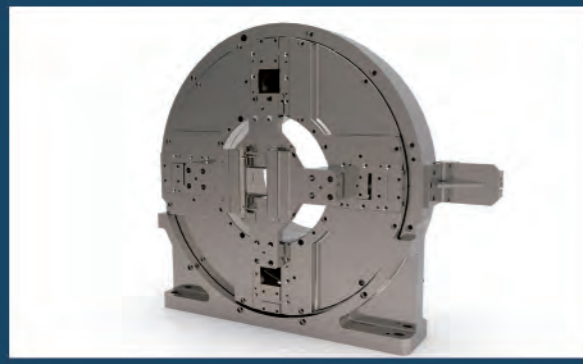
### Safety and No Pollution

With a fully enclosed design, the observation window adopts an European CE Standard laser protective glass. Non-polluting and environmentally friendly.

### Dual Use and Cost-saving

Can not only cut metal plates, but also metal pipes, which effectively improve productivity and save costs.

Machine model	LF3015GR
Laser power	1000W 2000W 3000W 4000W 6000W 8000W 10000W 12000W(Optional)
Dimensions	8950*3650*2350mm
Working area	3050mm x 1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Pneumatic Chuck Clamping Design



Fractional Automatic Support Installation



Aviation Aluminum Gantry



Heavy Plate Welding Bed

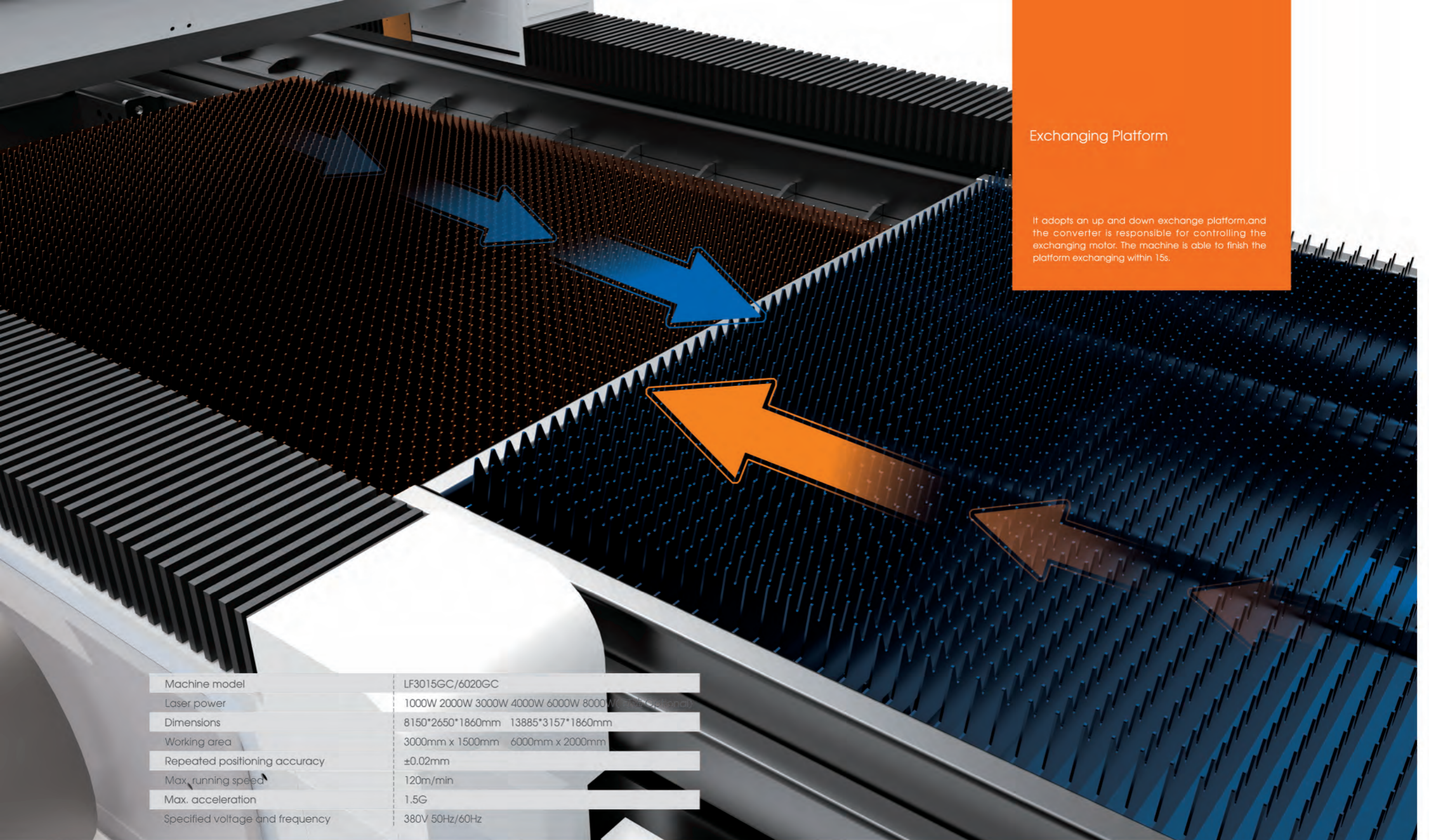




PIPE & PLATE WHOLE COVER EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE



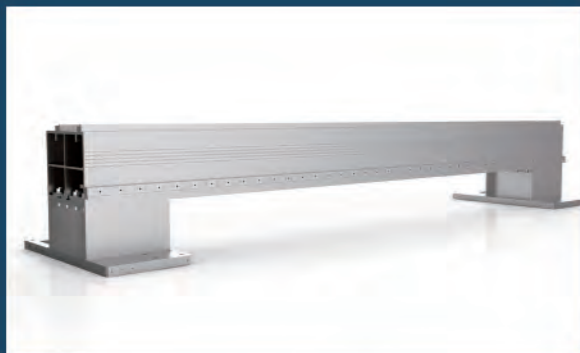




## Exchanging Platform

It adopts an up and down exchange platform, and the converter is responsible for controlling the exchanging motor. The machine is able to finish the platform exchanging within 15s.

Machine model	LF3015GC/6020GC
Laser power	1000W 2000W 3000W 4000W 6000W 8000W (Optional)
Dimensions	8150*2650*1860mm 13885*3157*1860mm
Working area	3000mm x 1500mm 6000mm x 2000mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Aviation Aluminum Gantry



Heavy Plate Welding Bed



Japan Shimpo Motor Reducer



Japan Yaskawa Servo Motor





EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE





## RayTools Laser Head

High quality machine, rapid perforation  
Automatic focusing, more precise, more stable  
High efficiency cutting, fast to cut different thickness metal.

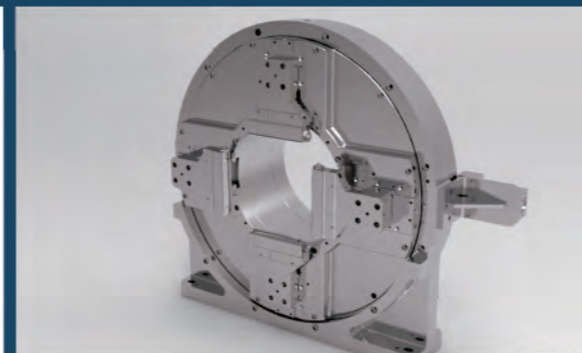
Machine model	LF3015GCR
Laser power	1500W 2000W 3000W 4000W 6000W 8000W 10000W 12000W 15000W 20000W
Dimensions	8950*3550*1860mm
Working area	3000mm x 1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Aviation Aluminum Gantry



Heavy Plate Welding Bed



Pneumatic Chuck Clamping Design

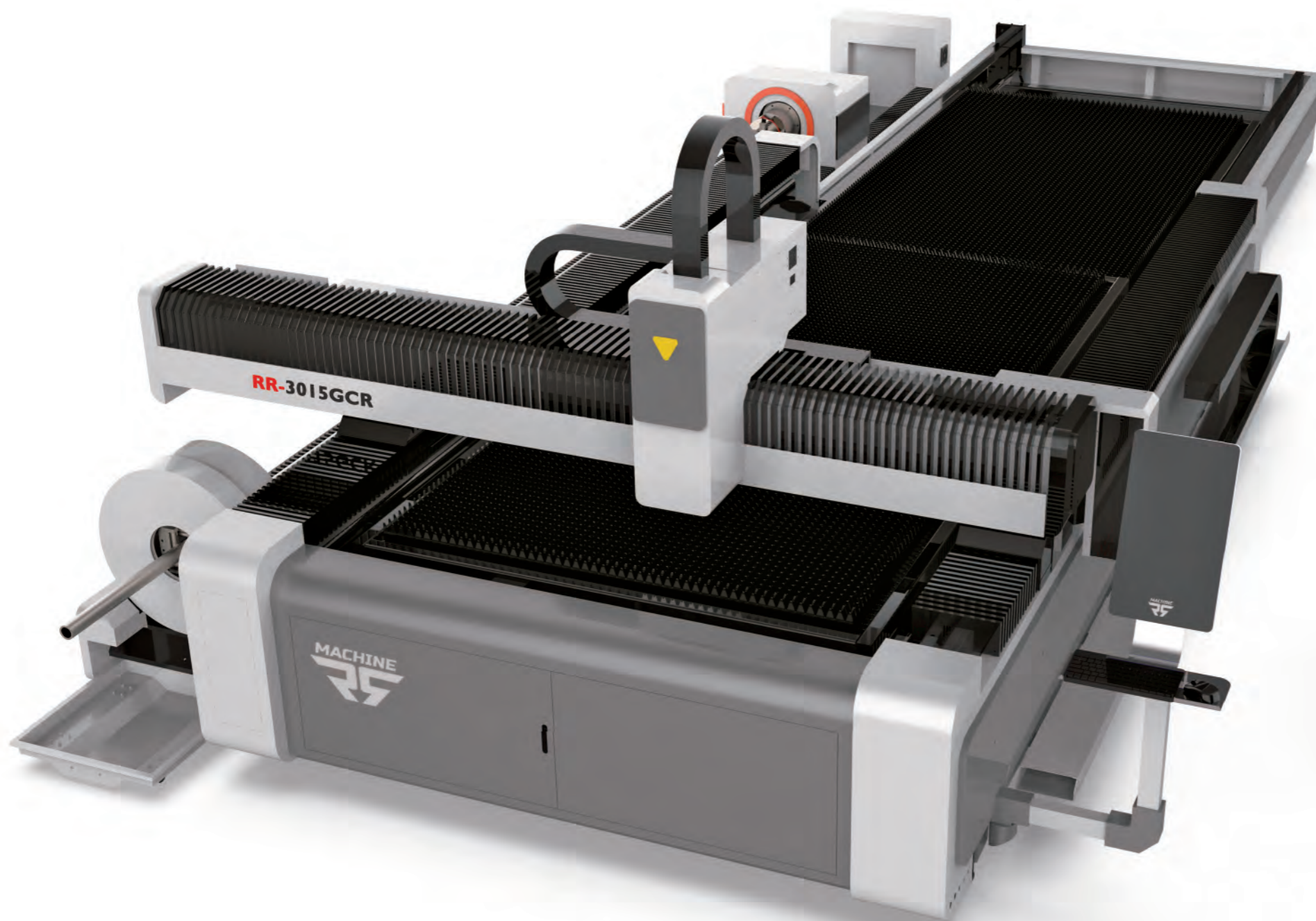


Fractional Automatic Support Installation





PIPE & PLATE EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE

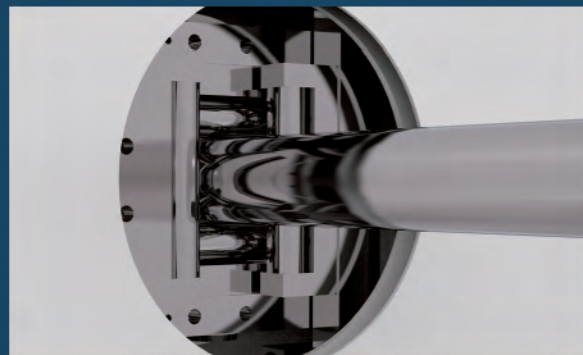




## New Pneumatic Chuck

Automatic clamping, efficient and labor-saving, strong support force, clamping deformation, to ensure the accuracy of pipe processing.

Machine model	LF3015CNR
Laser power	1000W 2000W 3000W 4000W 6000W 8000W(Optional)
Dimensions	5315*3930*1950mm(3m) 8300*3930*1950mm(6m)
Working area	3000mm x 1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Specified voltage and frequency	380V 50Hz/60Hz



Pneumatic Chuck Clamping Design



Fractional Automatic Support Installation



Aviation Aluminum Gantry

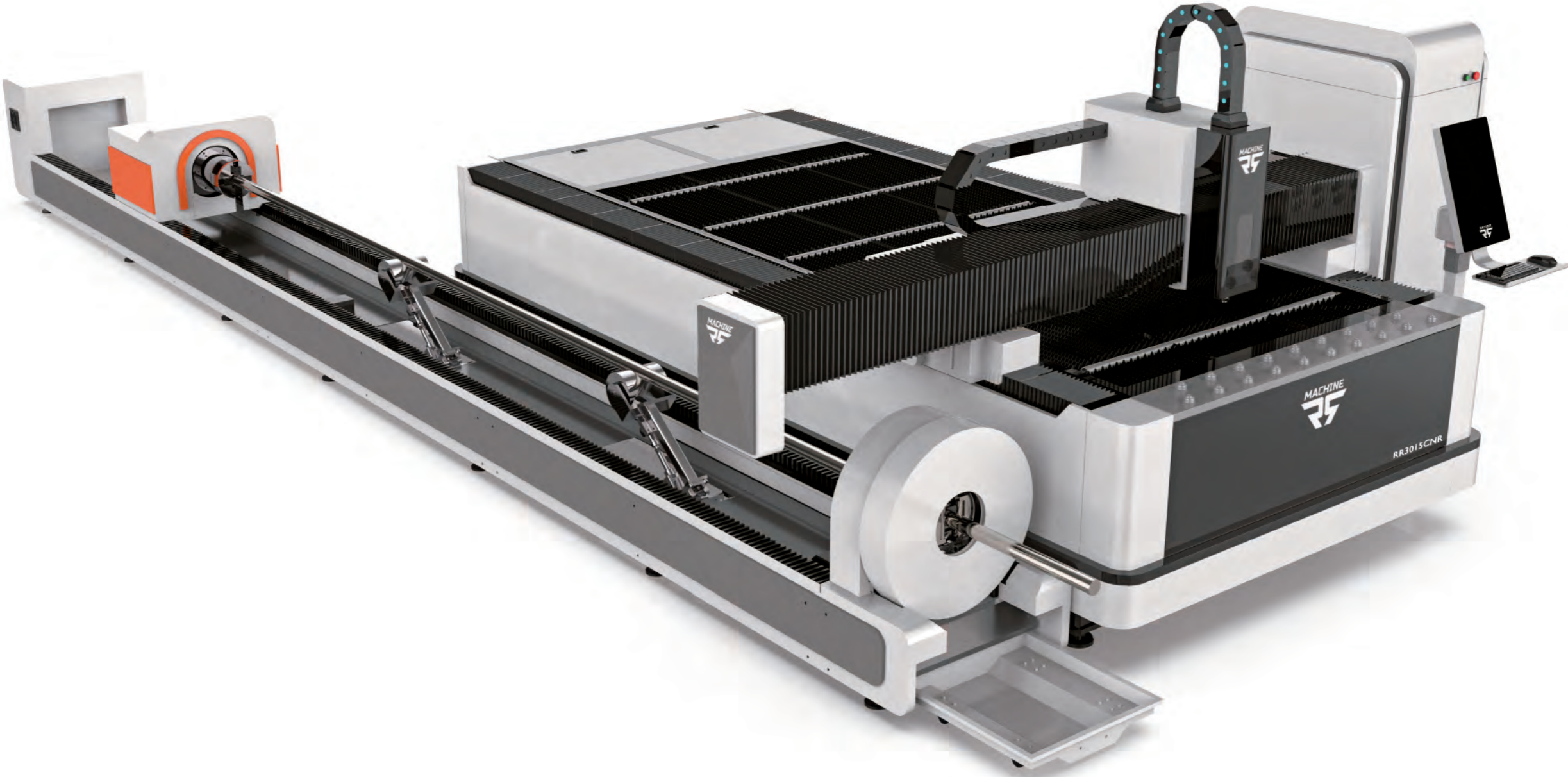


The Segmented Rectangular Tube Welded Bed



# CNR

PIPE & PLATE DUAL-USE FIBER LASER CUTTING MACHINE





CN

HIGH SPEED FIBER LASER CUTTING MACHINE







## Application materials

Used for cutting a variety of metal plates, mainly used in stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass, aluminum, steel, various alloy plate, rare metal and other materials.

## Technical parameters

Machine model	LF3015CN
Laser power	1000W 2000W 3000W 4000W(Optional)
Dimension	4440*2500*1860mm
Working area	3000mmx1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	120m/min
Max. acceleration	1.5G
Transmission	Double driver rack gear



Aviation Aluminum Gantry



Japan Yaskawa Servo Motor



Japan Shimpo Motor Reducer



LN

DUAL DRIVER GEAR RACK FIBER LASER CUTTING MACHINE

## Technical parameters

Machine model	LF3015LN
Laser power	1000W 1500W 2000W(optional)
Dimensions	4440* 2500* 1860mm
Working area	3000mmx1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	80m/min
Max. acceleration	1G
Specified voltage and frequency	380V 50Hz/60Hz/60A

## Application materials

Used for cutting a variety of metal plates, mainly used in stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass, aluminum, steel, various alloy plate, rare metal and other metal materials





## Technical parameters

Machine model	LF4515L
Laser power	1000W 1500W 2000W(optional)
Dimensions	6240* 2535* 1860mm
Working area	4500mmx1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	80m/min
Max. acceleration	1G
Transmission	Double driver rack gear
Specified voltage and frequency	380V 50Hz/60Hz/60A



Aviation Aluminum Gantry

Dust-proof Cabinet

Taiwan Rack

DUAL DRIVER GEAR RACK FIBER LASER CUTTING MACHINE






## Application materials

Pipes—Professionally cutting square pipes, round pipes, rectangle pipes, D-shaped pipes and hexagon pipes and etc.  
Cutting capacity-square pipes: 20\*20-145\*145, round pipes:  $\Phi$  15-210mm, more than 0.5mm thickness carbon steel pipes, stainless steel pipes, galvanized steel pipes and other steel material pipes

Plates—Professional to cutting more than 0.5mm carbon steel, stainless steel, brass, copper, galvanized steel, electrolytic steel, silicon steel and etc. (thicknesses are related to the kinds of materials and fiber source power)



Machine model	LF3015LNR
Laser power	1000W 2000W 3000W (Optional)
Dimensions	5315*3930*1950mm/ 8300*3930*1950mm
Working area	3000mm x 1500mm
Repeated positioning accuracy	$\pm 0.02$ mm
Max. running speed	80m/min
Max. acceleration	1G
Specified voltage and frequency	380V 50Hz/60Hz



Pneumatic Chuck Clamping Design



Fractional Automatic Support Installation



Aviation Aluminum Gantry

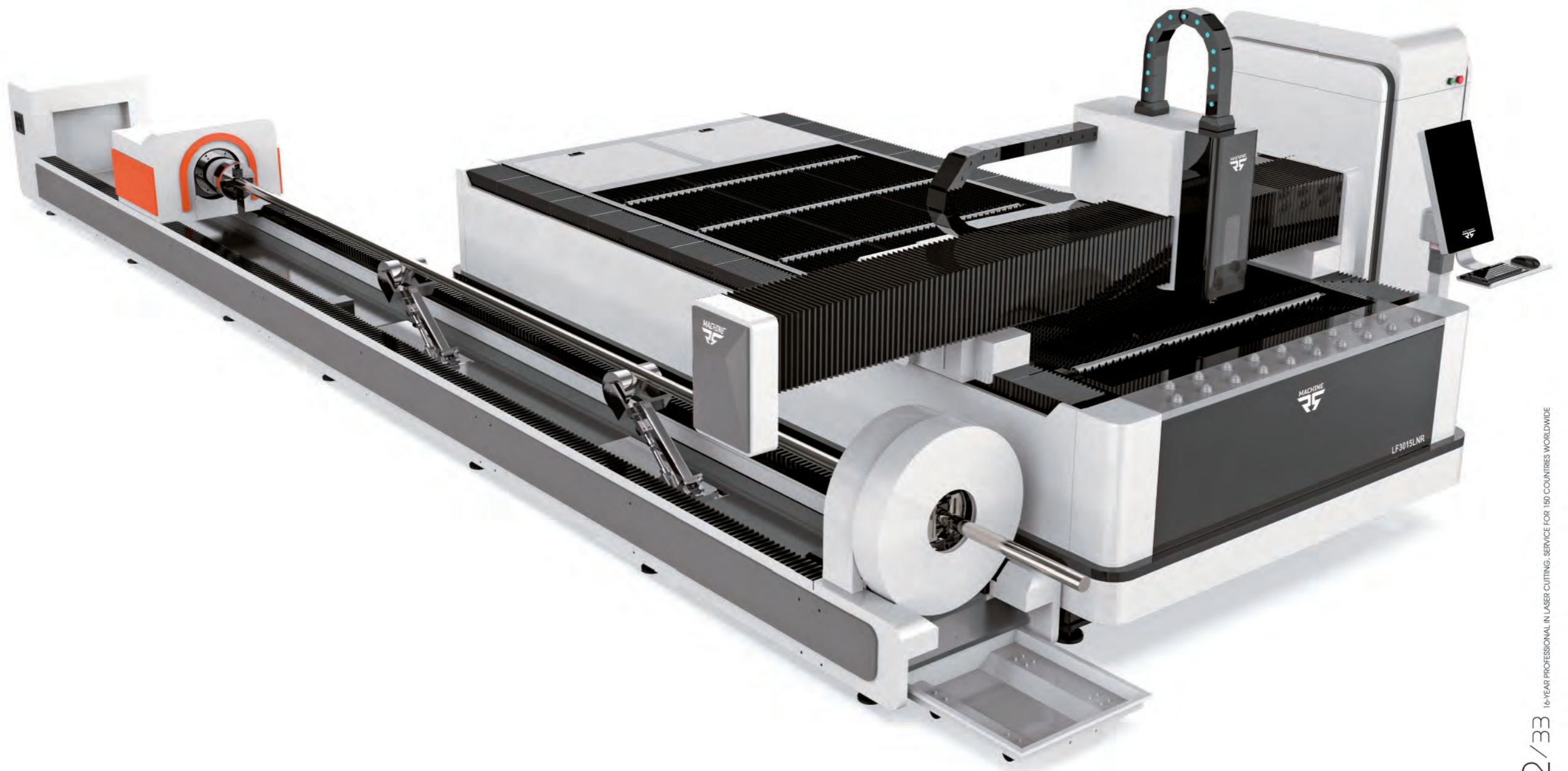


The Segmented Rectangular Tube Welded Bed



**LNR**

PIPE & PLATE DUAL-USE FIBER LASER CUTTING MACHINE





## Automatically loading and unloading materials

Realize the intelligent material separation, feeding and seamless docking with the fiber laser cutting machine after the whole bundles of tubes are placed in the feeding device.

The finished product is automatically dropped to the storage bin, separate of finished product from remains intelligently. Save labor, reduce sorting and improve efficiency.

Machine model	LF60MA
Laser power	1000W/2000W/3000W/4000W/6000W/8000W(Optional)
Dimensions	12695*5345*2627mm
Machining range	Hold diameter: $\Phi$ 15mm- $\Phi$ 300mm
Repeated positioning accuracy	$\pm$ 0.02mm
Specified voltage and frequency	380V 50Hz/60Hz



Pneumatic Chuck Clamping Design



Easy To Operate



Fractional Automatic Support Installation

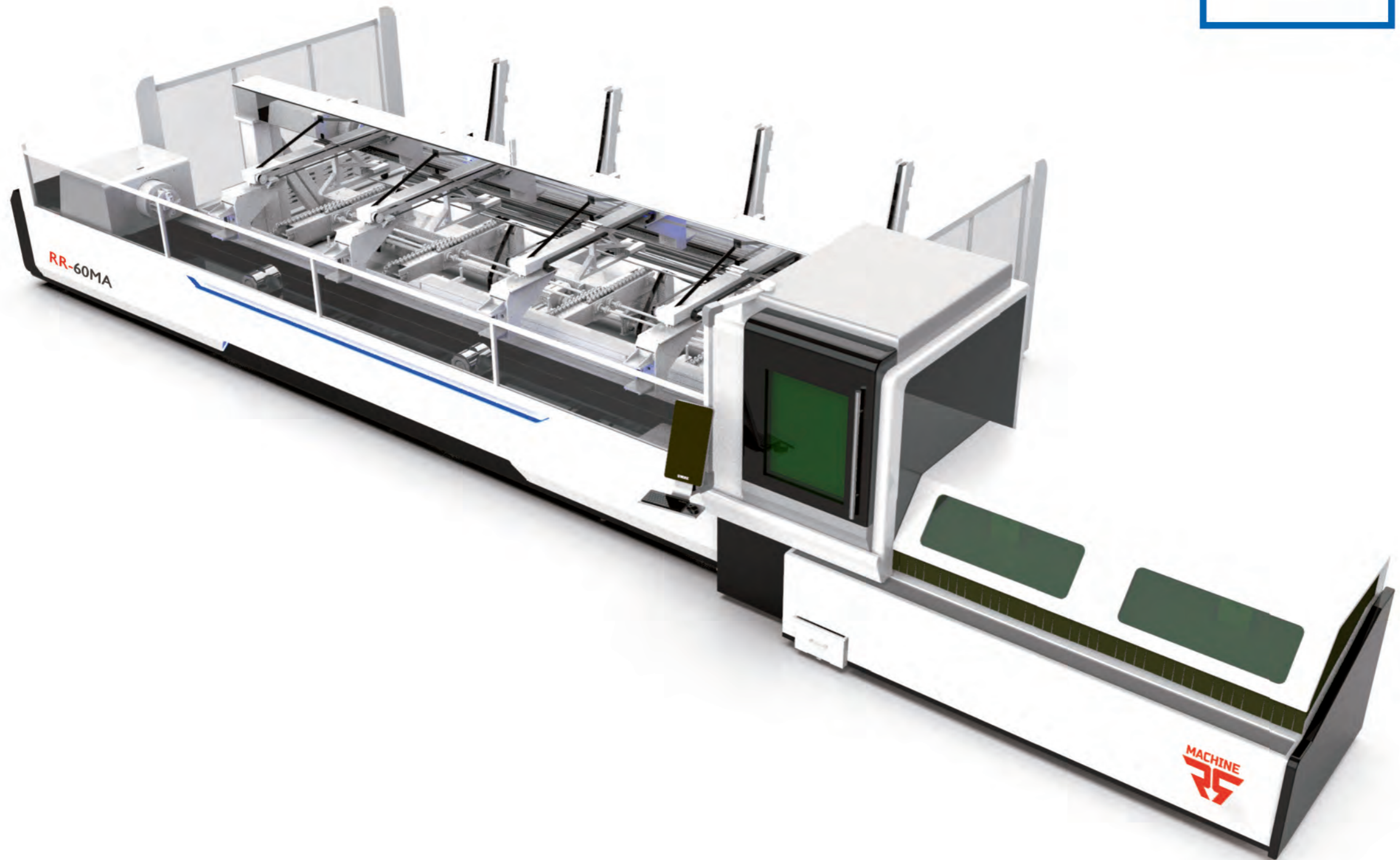


The Samples Show



MA

AUTO LOADING AND UNLOADING FIBER LASER TUBE CUTTING MACHINE







## Zero Remains, Save materials

Zero remains cutting, can save customers material cost.

## Application materials

Pipes—Professionally cutting square pipes, round pipes, rectangle pipes, waist-shaped pipes, D-shaped pipes and hexagon pipes and etc. Cutting capacity-square pipes: 20\*20-150\*150, round pipes:  $\Phi$ 20-210mm, more than 0.5mm thickness carbon steel pipes, stainless steel pipes, galvanized steel pipes and other steel material pipes

Machine model	LF60MS
Laser power	1000W 2000W 3000W 4000W 6000W 8000W(Optional)
Dimensions	11979*2113*2825mm
Machining range	Hold diameter: $\Phi$ 15mm- $\Phi$ 300mm
Repeated positioning accuracy	$\pm$ 0.01mm
Specified voltage and frequency	380V 50Hz/60Hz



Auto Clamp Chuck



Three Chuck



Fractional Automatic Support Installation



Easy To Operate



**MS**

THREE CHUCKS ZERO REMAINS FIBER LASER TUBE CUTTING MACHINE

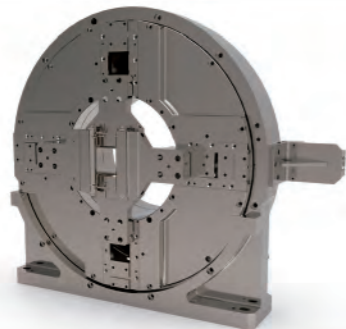




## Pneumatic Chuck Clamping Design

It adopts an electric clamp design on both sides and it can modulate the center automatically. The diagonal adjustable range is 20-200mm.

Machine model	LF60M
Laser power	1000W 2000W 3000W 4000W 6000W 8000W(Optional)
Dimensions	12700*1855*2625mm
Machining range	Hold diameter: $\phi$ 20mm- $\phi$ 300mm
Repeated positioning accuracy	$\pm$ 0.02mm
Specified voltage and frequency	380V 50Hz/60Hz



Pneumatic Chuck Clamping Design



Easy To Operate



Fractional Automatic Support Installation

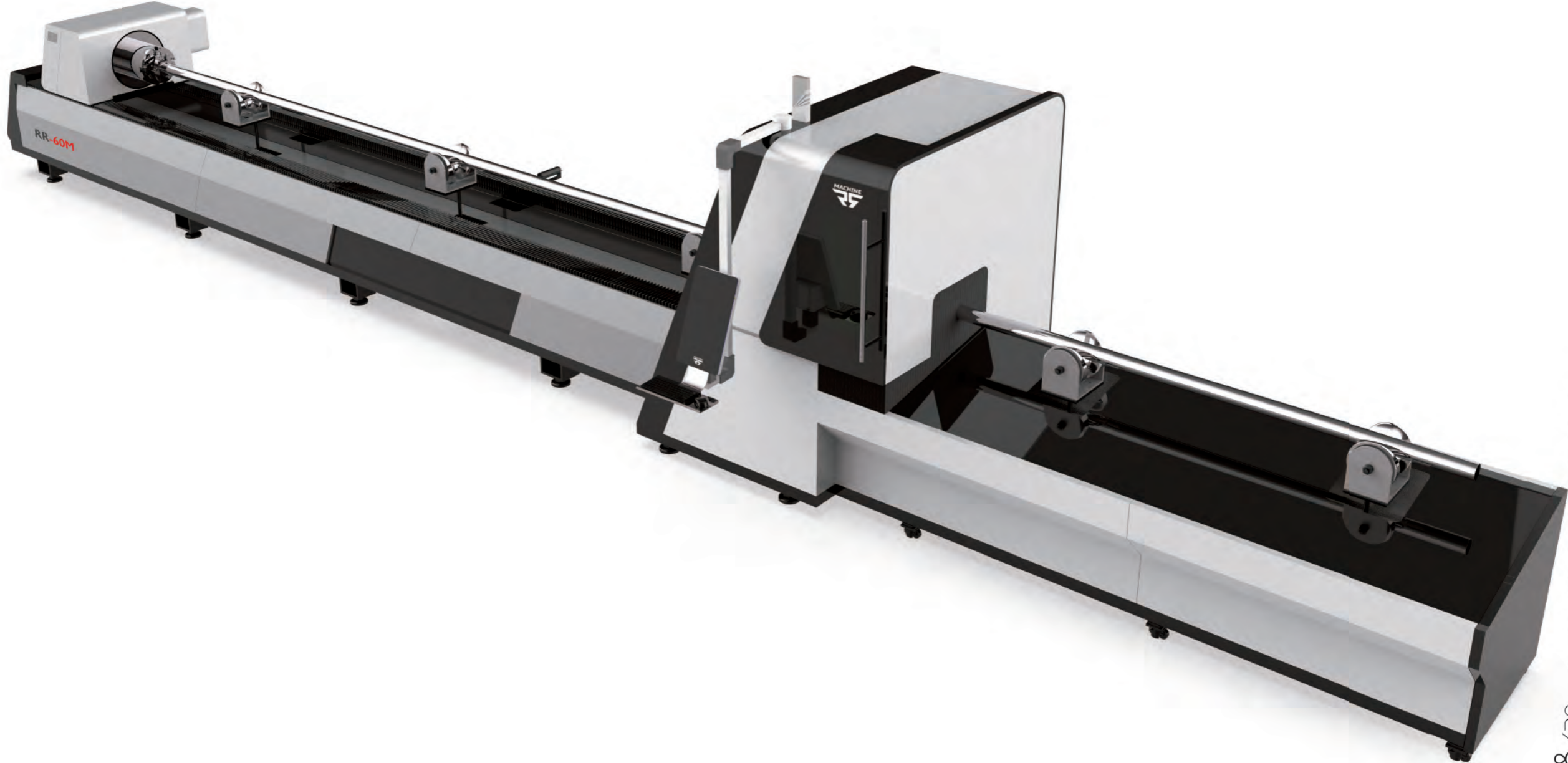


The Samples Show





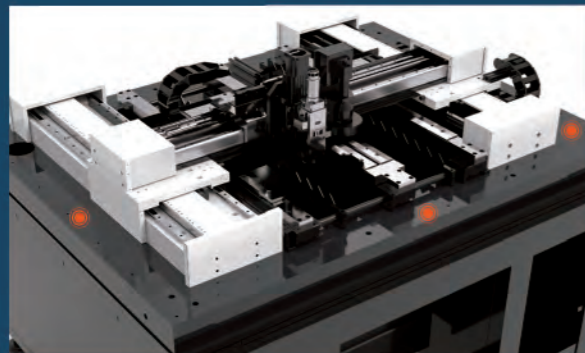
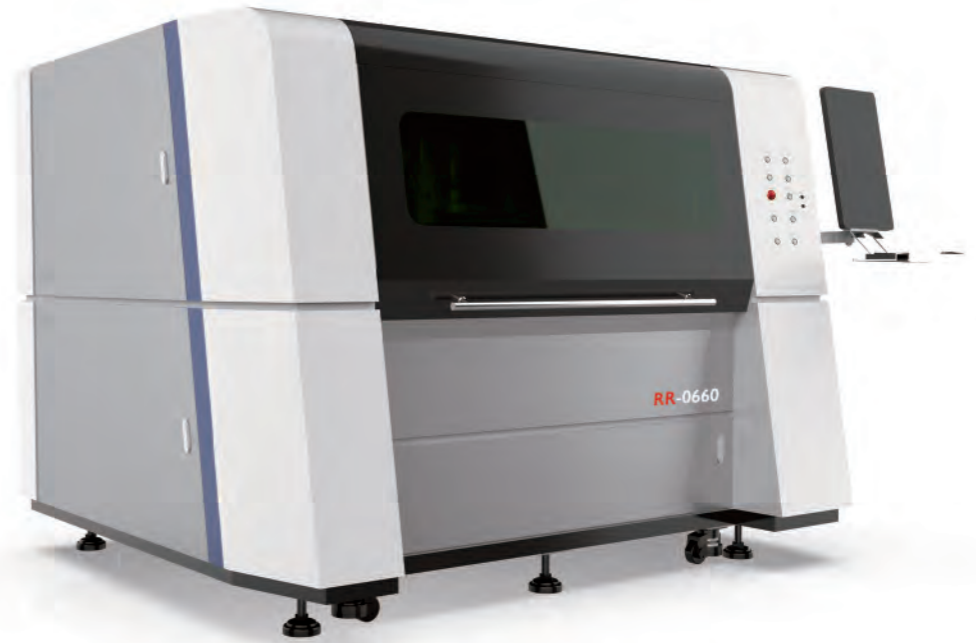
AUTOMATIC FIBER LASER METAL TUBE CUTTING MACHINE



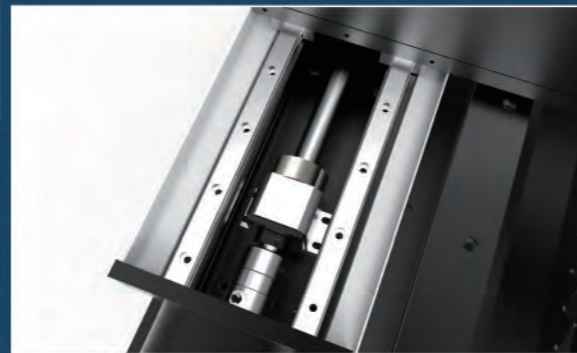


# LF0660/1390

PRECISION FIBER LASER CUTTING MACHINE



Marble table



Dual Rail and Dual Driver Design



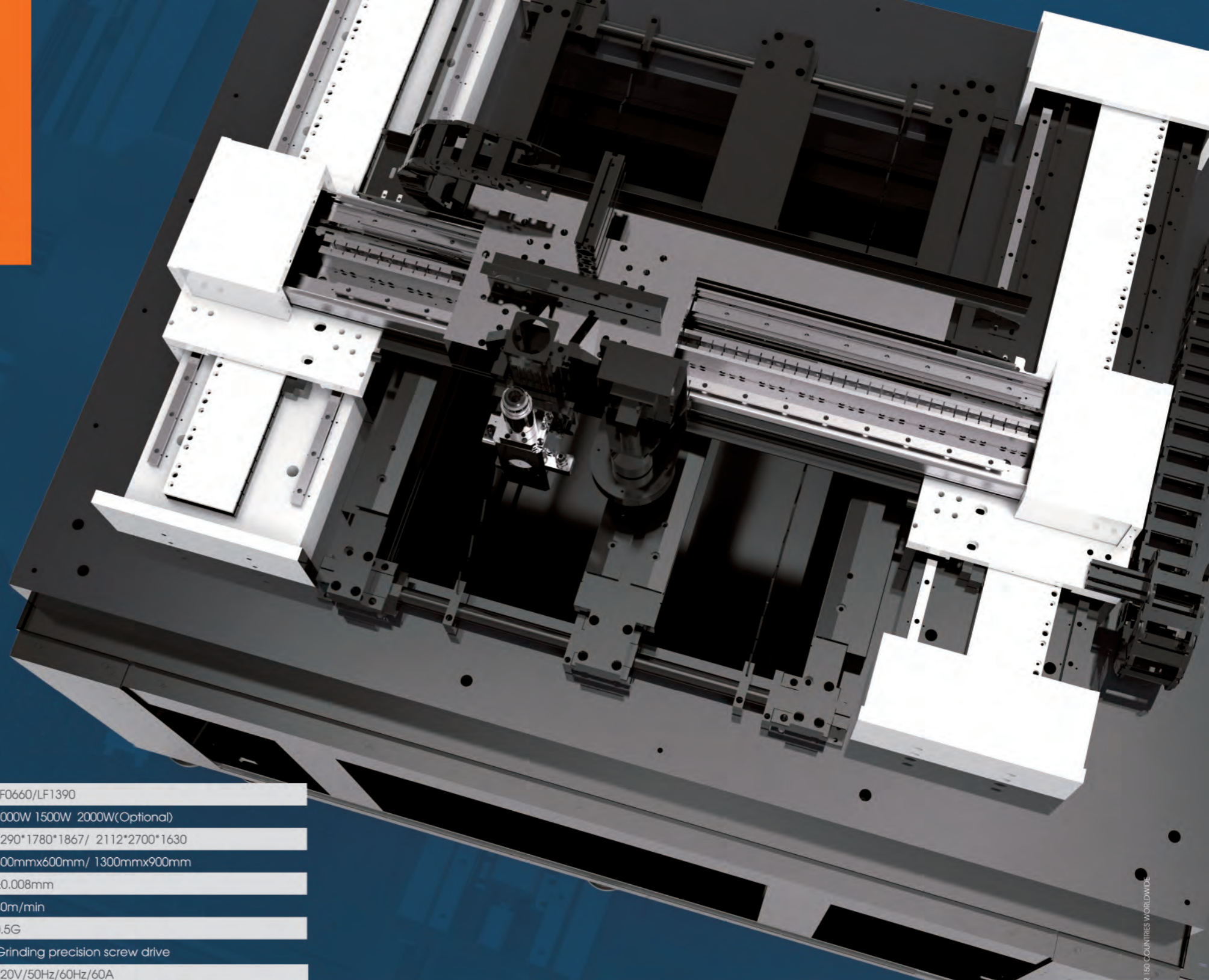
3rd Generation Aviation Aluminum Gantry



Japan Yaskawa Servo Motor



On both sides have been equipped two rail guides and double ball drive Screw design to ensure the straightness and arc degree when with high-speed cutting is in operation.



Machine model	LF0660/LF1390
Laser power	1000W 1500W 2000W(Optional)
Dimensions	1290*1780*1867/ 2112*2700*1630
Working area	600mmx600mm/ 1300mmx900mm
Repeated positioning accuracy	±0.008mm
Max. running speed	40m/min
Max. acceleration	0.5G
Transmission mode	Grinding precision screw drive
Specified voltage and frequency	220V/50Hz/60Hz/60A





## Stainless Steel Protection Design

The operating area adopts a 304 stainless steel design to prevent high temperature cutting sparks from damaging the machine's surface .



Machine model	LF3015E
Laser power	1000W 1500W (Optional)
Dimensions	4600*2450*1700mm
Working area	3000mm x 1500mm
Repeated positioning accuracy	±0.02mm
Max. running speed	40m/min
Specified voltage and frequency	380V 50Hz/60Hz



RayTools Laser Head



Aviation Aluminum Gantry

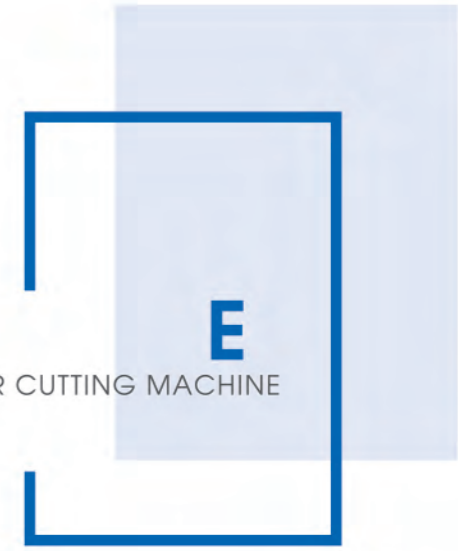


PAD Design Screen



Delta Servo Motor





FIBER LASER CUTTING MACHINE





## World-class Technology, Dual-use Machine

It has a broad cutting range, it can cut both metal and nonmetal materials.



Equipment model	LF1325LC
Laser working medium	1000W 1500W Fiber laser source 150W CO <sub>2</sub> laser source
Dimension	3800*1850*1300mm
工作幅面 Working area	2500mm × 1300mm
Cutting thickness	Metal 10mm Nonmetal 20mm (As to material)
XYZ axis working size	2525mm/1325mm/100mm
X/Y axis positioning accuracy	0.03mm/m
Max. running speed	40m/min



Aviation Aluminum Gantry



Taiwan High Precision Ball Screw



Delta Servo Motor



Taiwan Rail





METAL & NONMETAL DUAL USE FIBER LASER CUTTING MACHINE





It uses the FANUC robot arms and FANUC operating system imported from Japan, making it convenient to use.

Machine model	LF1800
Laser type	Imported fiber laser source
Laser power	500W 750W 1000W (Optional)
Working area	1800mm
Repeated positioning accuracy	±0.05mm
Installation	Loor Stand/Hang Upside Down/Wall Mounted





# LF1800

3D FIBER LASER CUTTING ROBOT





# LW/LWAA

3D/HAND HELD LASER WELDING MACHINE

## Technical parameters

Machine model	LW
Laser power	1000W-10000W(optional)
Dimensions	935* 720* 1248mm
Laser wavelength	1070 NM
Fiber length	Standard10M    Maximum support15M
Welding machine speed range	0~120 mm/s
Welding thickness recommendations	0.5-3mm
Welding gap requirements	≤0.5mm
Working voltage	220V/380V 50Hz/60Hz



## Technical parameters

Machine model	LWA
Laser power	1000W-10000W(optional)
Working voltage	220V/380V/50Hz/60Hz
Machine power	7KW-15KW
Transmission system	FANUC
Repeated positioning accuracy	±0.05mm
Working environment temperature	0°C -40°C

## Application materials

Laser welding can be used in the welding of carbon steel, stainless steel, aluminum, and other metals and their alloys.

## Industry application

Can be widely used in cabinets, kitchen, staircase elevator, shelf, oven, stainless steel door and window guardrail, distribution box, stainless steel home and other industries complex and irregular welding procedures



## Technical parameters

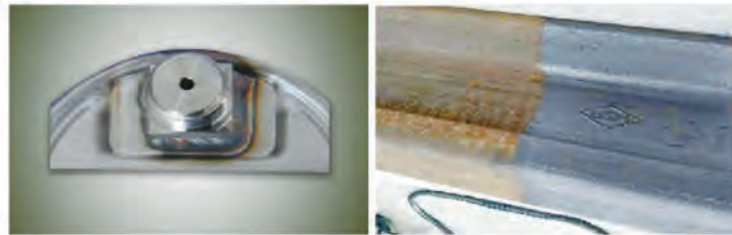
Machine model	LC200/LC300/LC500		
Laser power	200W	300W	500W
Dimensions	1111*720*1230mm		
Scan width	10-80mm		
Power regulation range (%)	10-100(Gradual adjustment)		
Working voltage	AC220V±10% 50Hz-60Hz		
Moving type	hand held		
Whole machine consumption	4000W		
Cleaning head weight	3.0Kg		

## Application materials

Laser cleaning machine is applied for removing the resin, grease, stains, dirt, rust material, coating, coating and paint, it has the advantages of high efficiency, energy conservation and environmental protection.

## Industry application

Laser cleaning machine is widely used, mainly in mold, automobile manufacturing, cultural relics restoration, ship manufacturing and other industries.

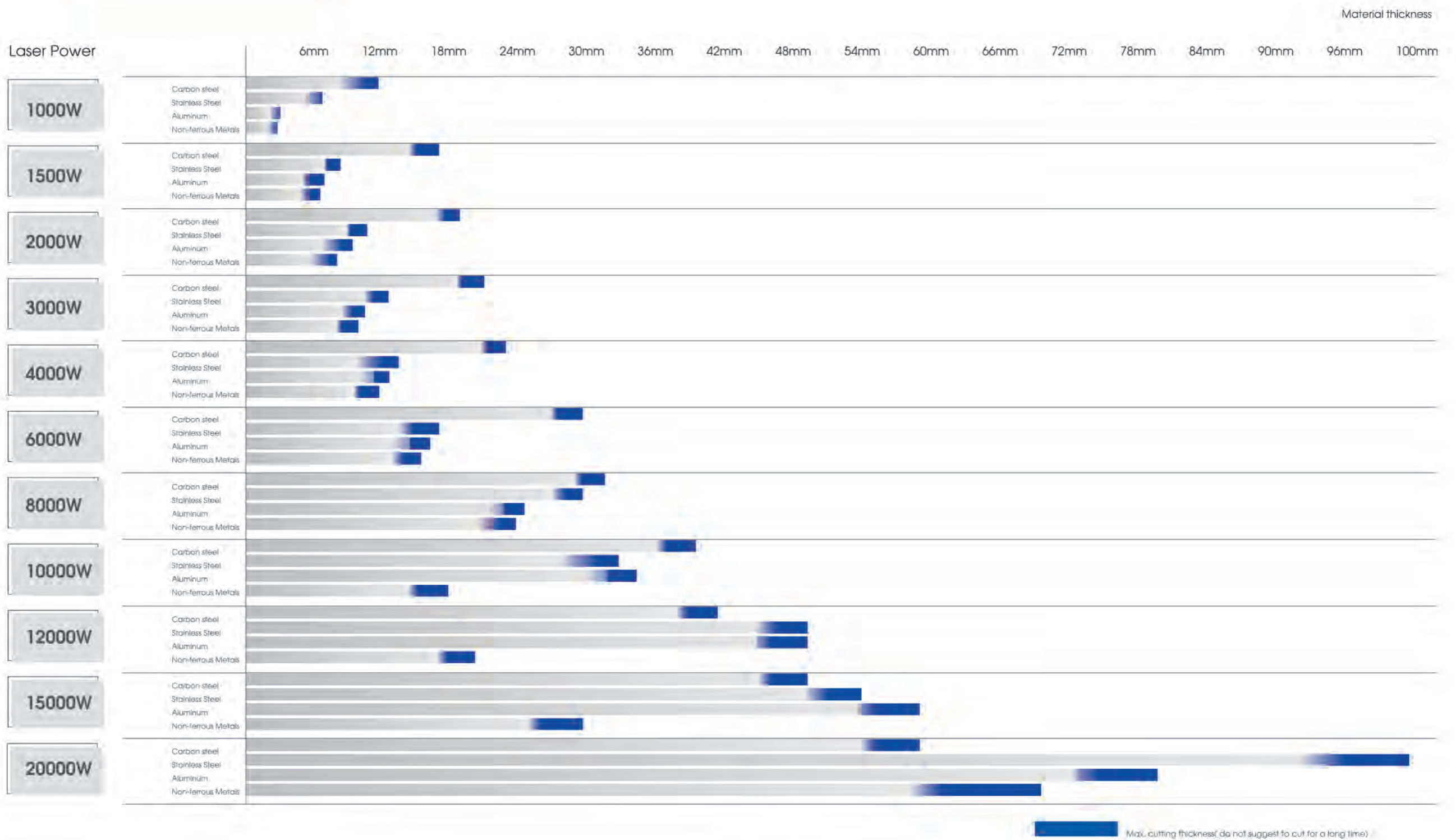


LC  
LASER CLEANER





# CUTTING PARAMETER ANALYSIS



Max. cutting thickness (do not suggest to cut for a long time)



## Technical Parameters

Material	(mm) Thickness	IPG1000W	IPG1500W	IPG2000W	IPG3000W	IPG4000W	IPG6000W	IPG8000W	IPG10000W	IPG12000W	IPG15000W	IPG20000W
		Speed	Speed	Speed	Speed	Speed	Speed	Speed	Speed	Speed	Speed	Speed
		(m/min)	(m/min)	(m/min)	(m/min)	(m/min)	(m/min)	(m/min)	(m/min)	(m/min)	(m/min)	(m/min)
Carbon steel	1	15.0-22.0	18.0-25.0	25.0-33.0	28.0-38.0	30.0-44.0	35.0-48.0	60.0-70.0	65.0-75.0	66.0-80.0	70.0-90.0	95.0-100.0
	2	3.5-5.0	4.0-6.0	5.0-6.5	5.5-7.0	5.5-7.7	6.0-8.25	6.8-7.2	7.0-7.5	7.2-7.8	7.5-8.2	5.5-6.5
	3	2.5-3.85	3.8-5.0	4.0-5.0	3.6-5	3.7-5.5	4.0-5.5	4.8-5.5	5.0-5.5	5.2-5.8	5.5-6.0	3.5-4.5
	4	2.0-3.3	2.5-3.5	2.8-4.0	3.0-4.5	3.5-4.62	3.5-5.0	3.8-4.3	4.0-4.5	4.2-4.6	4.5-5.2	3.5-3.9
	5	1.4-2.0	1.8-2.5	2.0-2.75	2.5-3.3	2.5-4.0	3.0-4.2	3.3-4.3	3.6-4.5	3.8-4.7	4.0-5.0	3.2-3.5
	6	1.2-1.65	2.0-2.42	2.0-2.42	2.3-2.86	2.5-3.52	2.6-3.52	3.0-3.4	3.3-3.7	3.5-4.0	3.8-4.3	2.9-3.2
	8	0.9-1.32	1.2-1.65	1.2-1.65	1.8-2.2	2.0-2.8	2.0-2.8	2.3-3.0	2.5-3.2	2.6-3.3	2.8-3.5	2.5-2.8
	10	0.6-0.9	1.0-1.32	1.0-1.32	1.2-1.65	1.2-2.2	1.8-2.3	2.0-2.5	2.3-2.6	2.5-3.0	2.6-3.0	2.2-2.5
	12	0.4-0.7	0.7-1.0	0.7-1.0	1.0-1.32	1.0-1.76	1.6-2.1	1.7-2.2	1.9-2.2	2.0-2.3	2.5-3.0	1.9-2.3
	16		0.6-0.8	0.6-0.8	0.6-0.9	0.7-1.0	0.7-1.0	1.2-1.4	1.3-1.5	1.4-1.6	1.7-2.0	1.6-1.8
	20				0.5-0.8	0.6-0.9	0.65-0.95	1.0-1.1	1.1-1.2	1.1-1.4	1.3-1.5	1.3-1.5
	22					0.66-0.9	0.6-0.77	0.9-1.0	0.9-1.0	0.9-1.2	1.1-1.3	1.2-1.4
	25						0.4-0.65	0.6-0.7	0.6-0.7	0.6-0.8	0.9-1.2	1.2-1.3
	30								0.5	0.5	0.6-0.8	1.0-1.2
	40								0.3	0.3	0.5	0.5-0.9
50										0.3	0.19-0.55	
60											0.13-0.17	
70											0.1-0.13	
Stainless Steel	1	16.5-22.0	20.0-26.0	27.5-33.0	31.0-38.5	33.0-45.0	50.0-65.0	63.0-66.0	68.0-72.0	70.0-80.0	75.0-90.0	50.0-60.0
	2	4.5-6.1	7.0-10.0	9.0-11.0	10.0-16.5	10.0-20.0	30.0-40.0	40.0-44.0	42.0-46.0	44.0-48.0	46.0-50.0	35.0-40.0
	3	2.0-3.1	4.5-5.5	4.5-5.5	7.0-10	7.5-12.0	18.0-25.0	25.0-28.0	27.0-30.0	28.0-35.0	30.0-38.0	30.0-35.0
	4	1.0-1.65	2.0-2.5	2.2-2.8	5.0-7.2	5.5-9.0	10.0-15.5	15.0-18.0	18.0-21.0	20.0-26.0	22.0-28.0	30.0-32.0
	5	0.4-0.7	1.5-2.0	1.5-2.0	1.8-2.45	4.0-5.5	8.0-13.5	12.0-14.0	14.0-16.0	15.0-20.0	16.0-22.0	24.0-28.0
	6	0.2-0.45	0.6-0.9	0.7-1.32	1.0-1.65	2.6-4.5	6.0-9.0	9.0-9.5	10.0-10.5	11.0-13.0	12.0-15.0	23.0-25.0
	8		0.2-0.45	0.35-0.6	1.2-2.0	1.6-2.8	4.0-5.5	5.0-5.3	6.5-6.8	7.0-7.5	7.5-8.5	14.0-17.0
	10				0.7-1.0	0.7-1.65	1.8-2.8	3.8-4.0	4.7-5.0	5.0-5.5	5.5-6.5	10.0-13.0
	12					0.5-0.9	1.2-1.65	2.5-2.7	2.8-3.0	3.0-3.5	3.3-4.0	9.0-10.0
	14						0.8-1.2	1.8-1.9	2.2-2.4	2.3-2.8	2.5-3.0	7.0-8.5
	16						0.6-0.9	1.3-1.5	2.0-2.2	2.1-2.5	2.3-2.8	5.0-6.0
	20							0.7-0.8	1.2-1.3	1.4-1.7	1.5-1.9	2.5-3.0
	25							0.5-0.6	0.7-0.8	0.7-1.0	0.9-1.2	1.4-1.8
	30								0.5	0.5-0.7	0.6-0.8	0.9-1.2
	35									0.4-0.5	0.5	0.25-0.85
40									0.3	0.3	0.18-0.5	
50									0.3	0.3	0.15-0.2	
60										0.2	0.1-0.12	
70											0.08-0.1	
80											0.05-0.05	
90											0.01-0.05	
100											0.02-0.03	
Aluminum	1	10.0-13.2	15.0-27.5	25.0-31.0	25.0-40.0	26.0-44.0	50.0-60.0	53.0-65.0	55.0-70.0	60.0-80.0	65.0-85.0	50.0-60.0
	2	2.0-4.5	7.0-8.6	10.0-13.2	10.0-20.0	10.0-22.0	25.0-38.5	30.0-40.0	33.0-42.0	35.0-45.0	38.0-50.0	35.0-40.0
	3	0.6-1.32	2.5-4.0	5.0-6.6	5.0-6.6	8.0-12.0	13.0-20.0	15.0-23.0	18.0-26.0	22.0-35.0	25.0-38.0	32.0-35.0
	4		1.0-1.65	1.5-2.2	3.0-4.0	4.5-8.25	10.0-13.2	12.0-16.0	15.0-18.0	17.0-24.0	20.0-26.0	45.0-50.0
	5		0.6-0.9	1.0-1.32	3.5-5.5	5.0-8.8	5.0-8.8	7.0-10	11.0-15.0	14.0-20.0	17.0-22.0	35.0-38.0
	6		0.4-0.7	0.6-0.9	1.0-1.65	2.2-4.5	4.0-6.6	5.0-7.0	9.0-11.0	12.0-17.0	14.0-18.0	22.0-25.0
	8			0.4-0.7	0.5-0.8	1.2-2.0	2.0-3.3	2.5-4.0	4.0-6.0	9.0-11.0	11.0-15.0	12.0-15.0
	10				0.3-0.45	0.8-1.65	1.0-2.3	1.5-2.8	2.5-3.5	3.5-4.5	4.0-5.0	9.5-10.0
	12					0.5-0.9	0.8-1.55	1.0-1.6	1.5-2.0	2.0-3.0	2.3-3.2	6.2-7.0
	14					0.3-0.66	0.6-0.9	0.8-1.2	1.0-1.5	1.5-1.8	1.7-2.1	4.5-5.0
	16						0.4-1.0	0.6-0.8	0.7-1.0	1.1-1.4	1.3-1.6	2.6-3.0
	20							0.5-0.7	0.5-0.8	1.0-1.2	1.1-1.4	1.6-2.0
	25							0.3	0.5-0.7	0.7-1.0	1.0-1.2	1.2-1.4
	30								0.3-0.5	0.5-0.7	0.6-0.8	0.8-1.0
	35								0.3	0.4-0.5	0.5-0.6	0.7-1.2
40									0.3	0.4-0.5	0.6-0.8	
50									0.3	0.3	0.3-0.4	
60										0.2	0.15-0.2	
70											0.08-0.13	
80											0.06-0.08	
Brass	1	14.0-20.0	30.0-38.5	30.0-38.5	20.0-31.0	25.0-38.5	45.0-55.0	48.0-60.0	50.0-62.0	55.0-65.0	60.0-75.0	95.0-100.0
	2	3.0-4.5	4.0-7.2	7.7-8.8	7.0-13.2	8.0-13.2	25.0-33.0	27.0-32.0	30.0-35.0	32.0-40.0	35.0-45.0	55.0-65.0
	3	1.0-1.55	1.0-1.5	3.0-4.5	5.0-7.2	5.5-7.7	12.0-20.0	13.0-20.0	15.0-21.0	16.0-22.0	18.0-25.0	38.0-45.0
	4		1.0-1.2	1.32-1.8	3.5-5.5	8.0-11.0	3.5-5.5	8.0-11.0	10.0-12.0	12.0-15.0	14.0-18.0	35.0-39.0
	5		0.6-0.9	0.6-0.9	1.0-1.65	2.0-3.52	6.0-7.7	7.0-9.0	8.0-11.0	10.0-14.0	12.0-16.0	32.0-35.0
	6			0.4-0.66	0.8-1.32	1.4-2.2	3.5-5.0	4.0-5.5	5.0-7.5	8.0-13.0	10.0-13.0	29.0-32.0
	8				0.3-0.45	0.8-1.32	1.6-2.42	2.0-2.5	3.0-4.5	5.5-6.5	7.0-8.5	25.0-28.0
	10					0.2-0.45	0.8-1.32	1.6-2.2	2.0-2.5	3.5-4.7	5.0-6.5	22.0-25.0
	12							0.8-1.2	1.1-2.0	1.7-2.8	2.0-3.5	19.0-23.0
	15								0.8-1.2	1.0-1.6	1.5-2.2	1.8-2.0
	18									0.6-0.8	0.8-1.2	0.8-1.3
	20									0.3-0.6	0.5-0.8	1.3-1.5
	25										0.4-0.7	1.2-1.3
	30										0.3-0.6	1.0-1.2
	40											0.5-0.9
50											0.19-0.59	
60											0.13-0.17	
70											0.1-0.13	



## Cost Analysis

Laser power	Assisted gas Consumption		Option I:Using air compressor Cutting Stainless steel	Option II :using O <sub>2</sub> Cutting Stainless steel	Option III :using N <sub>2</sub> Cutting Stainless steel
1500W	Power Consumption	Laser power	4.5KW	4.5KW	4.5KW
		Water Chiller Group	3.5KW	3.5KW	3.5KW
		Host Machine	6KW	6KW	6KW
		Dust Exhausting Equipment	3KW	3KW	3KW
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5KW	About ) 30RMB/h*	About ) 120RMB/h
	Total Power		22.5KW	17KW	17KW
	Average Power Consumption(Take60% Cutting Efficiency)		22.5x60%=13.5KW	17x60%=10.2KW	*17x60%=10.2KW*
All Cost(1RMB/kwh)		13.5+2.5=16 RMB/h	*10.2+30+2.5=42.7RMB/h*	*10.2+120+2.5=132.7RMB/h*	
2000W	Power Consumption	Laser power	6KW	6KW	6KW
		Water Chiller Group	5.7KW	5.7KW	5.7KW
		Host Machine	6KW	6KW	6KW
		Dust Exhausting Equipment	3KW	3KW	3KW
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5KW	About ) 30RMB/h*	About ) 120RMB/h
	Total Power		26.2KW	20.7KW	20.7KW
	Average Power Consumption(Take60% Cutting Efficiency)		26.2x60%=15.72KW	20.7x60%=12.42KW	*20.7x60%=12.42KW*
All Cost(1RMB/kwh)		15.72+2.5=18.22 RMB/h	*12.42+30+2.5=44.9RMB/h*	*12.42+120+2.5=134.9RMB/h*	
3000W	Power Consumption	Laser power	9KW	9KW	9KW
		Water Chiller Group	5.7KW	5.7KW	5.7KW
		Host Machine	10KW	10KW	10KW
		Dust Exhausting Equipment	3KW	3KW	3KW
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5KW	About ) 30 RMB/h*	About ) 120RMB/h
	Total Power		33.2KW	27.7KW	27.7KW
	Average Power Consumption(Take60% Cutting Efficiency)		33.2x60%=19.92KW	27.7x60%=16.62KW	*27.7x60%=16.62kw*
All Cost(1RMB/kwh)		19.92+2.5=22.42 RMB/h	*16.62+30+2.5=49RMB/h*	*16.62+120+2.5=139RMB/h*	
4000W	Power Consumption	Laser power	12KW	12KW	12KW
		Water Chiller Group	6KW	6KW	6KW
		Host Machine	10KW	10KW	10KW
		Dust Exhausting Equipment	3KW	3KW	3KW
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5KW	About ) 30 RMB/h*	About ) 120RMB/h*
	Total Power		36.5KW	31KW	31KW
	Average Power Consumption(Take60% Cutting Efficiency)		36.5x60%=21.9KW	31x60%=18.6KW	*31x60%=18.6KW*
All Cost(1RMB/kwh)		21.9+2.5=24.4RMB/h	*18.6+30+2.5=51RMB/h*	*18.6+120+2.5=141RMB/h*	
6000W	Power Consumption	Laser power	18kw	18kw	18kw
		Water Chiller Group	7.9kw	7.9kw	7.9kw
		Host Machine	10kw	10kw	10kw
		Dust Exhausting Equipment	3kw	3kw	3kw
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5kw	About ) 30 RMB/h*	About ) 120 RMB/h
	Total Power		44.4 kw	38.9 kw	38.9 kw
	Average Power Consumption(Take60% Cutting Efficiency)		44.4x60%=26.64 kw	38.9x60%=23.34 kw	*38.9x60%=23.34kw*
All Cost(1RMB/kwh)		26.64+2.5=29.14 RMB/h	*23.34+30+2.5=55.8RMB/h*	*23.34+120+2.5=145.8RMB/h*	

The cost price of gas and electricity for different regions are different, all of the above price is for reference only.

Reference electricity price is 1RMB/kWh, gas price is 40RMB/bottle(40L) in this form.



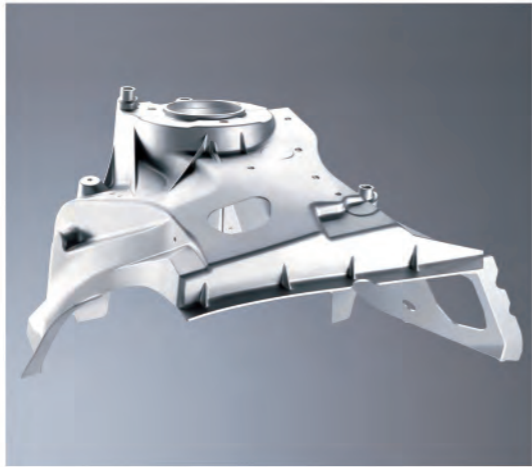
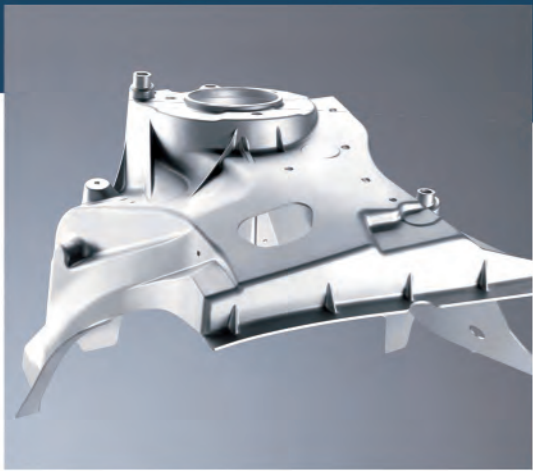
## Cost Analysis

Laser power	Assisted gas Consumption		Option I:Using air compressor Cutting Stainless steel	Option II :using O <sub>2</sub> Cutting Stainless steel	Option III :using N <sub>2</sub> Cutting Stainless steel
8000W	Power Consumption	Laser power	24kw	24kw	24kw
		Water Chiller Group	10kw	10kw	10kw
		Host Machine	10kw	10kw	10kw
		Dust Exhausting Equipment	3kw	3kw	3kw
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5kw	( About ) 30RMB/h	About ) 120RMB/h
	Total Power		52.5kw	47 kw	47 kw
	Average Power Consumption(Take60% Cutting Efficiency)		52.5x60%=31.5 kw	47x60%=28.2 kw	47x60%=28.2 kw
All Cost(1RMB/kwh)		31.5+2.5=34 RMB/h	*28.2+30+2.5=60.7RMB/h*	*28.2+120+2.5=150.7RMB/h*	
10000W	Power Consumption	Laser power	30kw	30kw	30kw
		Water Chiller Group	10kw	10kw	10kw
		Host Machine	10kw	10kw	10kw
		Dust Exhausting Equipment	3kw	3kw	3kw
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5kw	About ) 30 RMB/h	About ) 120RMB/h
	Total Power		58.5 kw	53 kw	53 kw
	Average Power Consumption(Take60% Cutting Efficiency)		58.5x60%=35.1 kw	53x60%=31.8 kw	53x60%=31.8 kw
All Cost(1RMB/kwh)		35.1+2.5=37.6 RMB/h	*31.8+30+2.5=64.3RMB/h*	*31.8+120+2.5=154.3RMB/h*	
12000W	Power Consumption	Laser power	36kw	36kw	36kw
		Water Chiller Group	12kw	12kw	12kw
		Host Machine	10kw	10kw	10kw
		Dust Exhausting Equipment	3kw	3kw	3kw
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5kw	About ) 30 RMB/h	About ) 120RMB/h
	Total Power		66.5 kw	61 kw	61 kw
	Average Power Consumption(Take60% Cutting Efficiency)		66.5x60%=40 kw	61x60%=36.6 kw	61x60%=36.6 kw
All Cost(1RMB/kwh)		40+2.5=42.5RMB/h	*36.6+30+2.5=69.1RMB/h*	*36.6+120+2.5=159.1RMB/h*	
15000W	Power Consumption	Laser power	45kw	45kw	45kw
		Water Chiller Group	15kw	15kw	15kw
		Host Machine	10kw	10kw	10kw
		Dust Exhausting Equipment	3kw	3kw	3kw
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5kw	About ) 30 RMB/h	About ) 120RMB/h
	Total Power		78.5 kw	73 kw	73 kw
	Average Power Consumption(Take60% Cutting Efficiency)		78.5x60%=47.1 kw	73x60%=43.8 kw	73x60%=43.8 kw
All Cost(1RMB/kwh)		47.1+2.5=49.6RMB/h	*43.8+30+2.5=76.3RMB/h*	*43.8+120+2.5=166.3RMB/h*	
20000W	Power Consumption	Laser power	60kw	60kw	60kw
		Water Chiller Group	20kw	20kw	20kw
		Host Machine	15kw	15kw	15kw
		Dust Exhausting Equipment	3kw	3kw	3kw
	Consumable Part		2.5 RMB/h	2.5 RMB/h	2.5 RMB/h
	Gas Consumption		5.5kw	About ) 30RMB/h	About ) 120RMB/h
	Total Power		100.5kw	95 kw	95 kw
	Average Power Consumption(Take60% Cutting Efficiency)		100.5x60%=60kw	95x60%=57kw	95x60%=57.6kw
All Cost(1RMB/kwh)		60+2.5=62.5RMB/h	*57+30+2.5=89.5RMB/h*	*57.6+120+2.5=180.1RMB/h*	

Reference electricity price is 1RMB/kWh, gas price is 20RMB/bottle(40L) in this form.

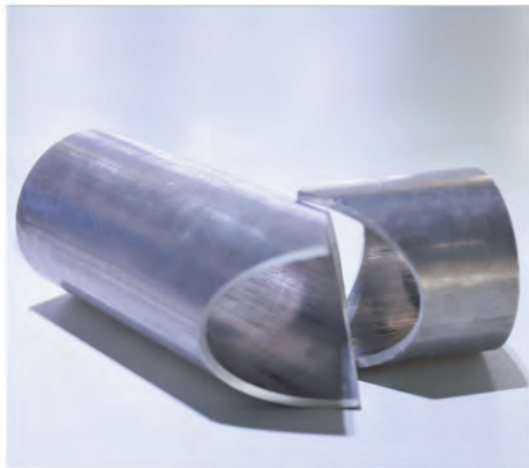
The reference price of this table is RMB 1 per kilowatt hour and the reference price of gas is RMB 40 per bottle (40 liter).







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