

LASER CUTTING MACHINE



ONE-STOP SERVICE AIR DUCT EQUIPMENT MANUFACTURER

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ONE-STOP SERVICE AIR DUCT EQUIPMENT MANUFACTURER

Design / manufacture / quality control
LONGBOW MACHINERY



laser cutting machine

product brief introduction

1530C-1000/1500/2000/3000W laser cutting machine combines plate and tube processing function into one set, supporting cutting job of plate metal with working area 3000mm×1500mm and φ20-φ220mm of pipe cutting.

This machine is designed for dual-purpose cutting job with perfect cutting effect. It is widely used in stainless steel processing industry which serves for plate metal cutting and sports equipment manufacturing.



EXCELLENT STABILITY, HIGH QUALITY MACHINING SURFACE AND GOOD ADAPTABILITY.
CUTTING PLATE FROM THIN TO THICK, EASY TO HANDLE, LOW OPERATING COSTS

1530C Fiber Laser Combined Machine

QUOTATION:

TO:	Contact:	Quotation Date	
		Validity	
		Sale	
TERM OF PAYMENT:			
TIME OF DELIVERY:			

Laser combined Machine (Fiber), Model of 1530C

Below details:

No	Commodity	Model	Quantity	Unit Price	Total Amount
1	Laser Cutting Machine	1530C-1KW	1		
Scope of Supply					
	Resonator	Raycus 1KW			1
	CNC	Chint			1
	Machine Frame	Welding and heat treatment			1
	Cutting Head	Raytools			1
	Front and Rear Chucks	Pneumatic chucks			2
	Cooling Chiller	Hanli			1
Machine Price FOBSHANGHAI					

We are looking forward to serve you and please do not hesitate to contact us for more information.
Sincerely yours



Professional Laser Cutting Head

power rating:within 3. 3kw
Clear Aperture:28mm
Collimation protection glass:φ24.9mm*1. 5mm
Protect glass for focus lens:φ27.9mm*4.1mm
Assist Gas Pressure: <25bar

Laser Cutting Head

SWISS TECHNOLOGY AND A PROFESSIONAL QBH FIBER OPTIC OUTPUT INTERFACE
THE JQ1530C FEATURES A FIBER CUTTING HEAD

For a highly sealed and precise focus calibration. Owing to the excellent performance of high-speed capacitive sensor, the cutting gap can be as short as 0.1mm, which not only improves the cutting performance, but also reduces the gas consumption.

Mobile gantry Cantilever structure



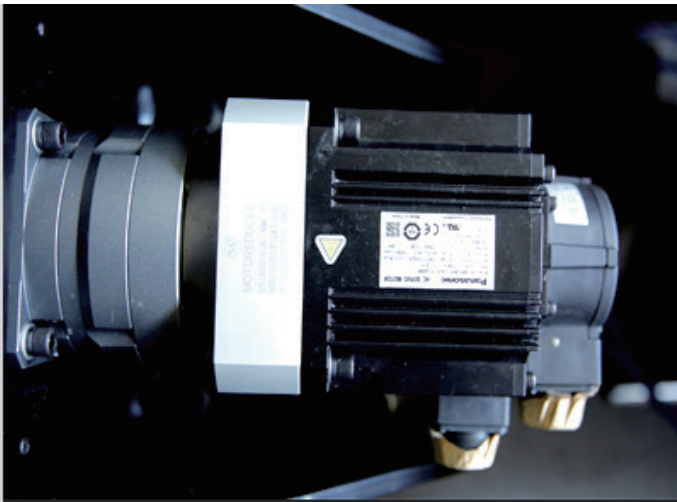
The machine adopts the mobile gantry cantilever structure, which can meet the needs of tube and sheet cutting, ensuring the high speed and precision of operation. The bed structure is made of pipe welded frame structure with high-quality. With professional welding, secondary aging treatment and precise machining of large-scale gantry milling machines, the machine has acquired excellent shock resistance, high rigidity and stability

JQ Laser JQ1530C optimizes your manufacturing process in a variety of ways. In a single operation, you can create perforations and complex contours.

Machine component



Servo



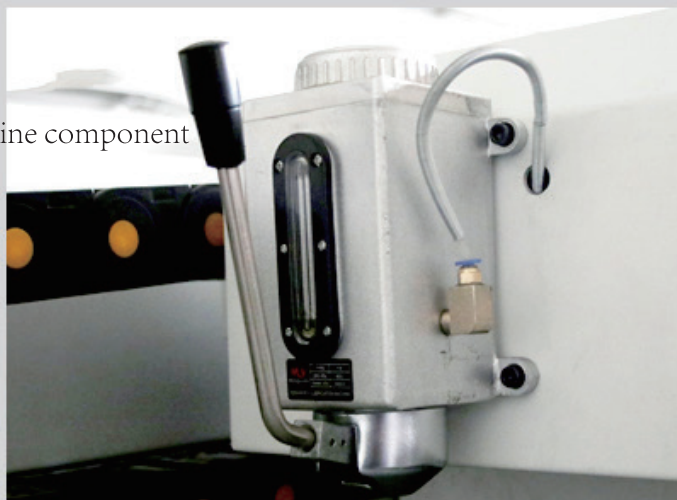
Precision motor and reducer



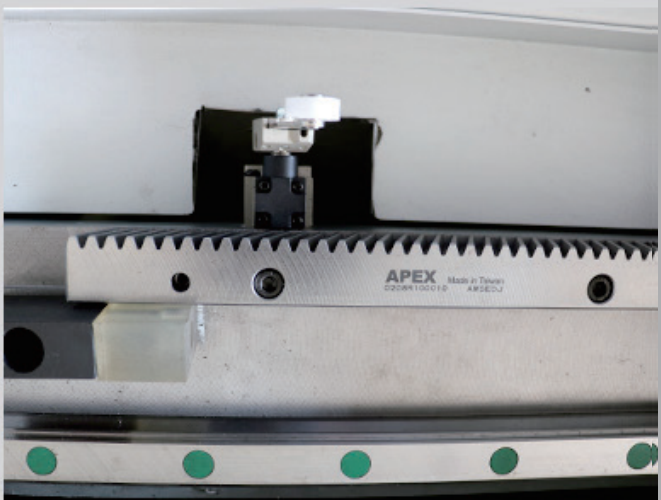
Limit switch



Water Chiller



Lubrication system



Taiwan precision rack and gear

JQ Laser JQ1530C optimizes your manufacturing process in a variety of ways. In a single operation, you can create perforations and complex contours. In addition, the tube can be cut into multiple sections. This enables innovative design solutions to minimize downstream tasks such as deburring, welding and assembly. The intermediate stages (such as storage and part handling) require much less resources, so you can greatly reduce the process and cost of each part compared to the production methods using traditional sawing, drilling and milling tool.

Technical Parameter

Model	JQ1530C	Unit
Working area	3000x1500	mm
Tube Diameter	Φ16-φ220, L=6000; (Square and rectangle tube diagonal≤200mm)	mm
X-axis travel	2350	mm
Y-axis travel	3050	mm
Z-axis travel	240	mm
X,Y positioning accuracy	±0.05/1000mm	mm
X,Y repeat positioning accuracy	±0.03/1000mm	mm
Acceleration	1G	
Max running speed	80	m/min
Rear chuck max rotating speed	100	rpm
Tailing length	≥90 (will have little difference according to different tubes)	mm
Table max load	900	kg
Machine size (length x width x height)	7600×3500×1700 (include rotary)	mm
Laser power	1000	w
Control system	Fscut	
Total power	17	Kw
Machine voltage	380v/50Hz	

(dates for reference only)

Item	Brand	Origin/Country	Quantity
Servo Motor	Fuji	Japan	7 sets
Linear Guides	Dinghan	Taiwan	Whole sets
Gear rack and pinion	Apex	Taiwan	Whole sets
Machine servo reducers	BEITTO	France	6 sets
Chucks	Liyuanheng	China	1 set
Pneumatic Components	AirTAG	Taiwan	Whole sets
Laser source	Raycus	China	1 set
Laser head	Raytools	China	1 set
Chiller	Hanli	China	1 set
Air condition	Tongfei	China	1 set (option)
Low voltage electrical components	CHNT	China	Whole sets
Industry Computer	China	China	1 set
Lubrication	China	China	1 set
Control system	Fscut	China	1 set

Machine configuration

(Note: If the customer purchases the above device, the specified brand and model must be purchased; if the brand is changed arbitrarily, the impact on the performance of the whole machine is the responsibility of the customer. The warranty period of the standard accessories provided by our company is 1 year.

Consumable analysis

Electricity consumption:

Item	Electricity consumption (KW)	Total
Laser device	4	14KW/H
Machine	9	
Chiller	4	

Gas Consumption:

Gas type	volume /can	Using time	Using Volume	Cutting performance	note
Oxygen	(40L)	80 minutes	30L/H	Black edge	1mm carbon steel
Nitrogen	(40L)	20 minutes	120L/H	White edge	1mm stainless steel

Remarks:

1. The recommended gas purity is 99.999%.
2. The above cost standard is Chinese standard for reference only
3. Air cutting can be chosen when conditions are ripe

Spare parts consumable list:

Spare parts	Using time (hour)	Unit	Note
Protect Glass	≥600	10\$	Good environment can keep parts using longer life time
Copper Nozzle	≥400	10\$	
Focus Lens	≥6000	200\$	

Installation preparation

Item	Name	Requirement	Note
Power supply	Capacity	≤30kva	
	Voltage	380±5% power cord is single 16mm2 or more	Automatic voltage stabilizing device must be installed
	Grounding resistance	≤4Ω	
	There should be no strong electromagnetic interference near the installation equipment, and there should be no radio transmission station or relay station around the installation.		
Water	Water chiller	It is recommended to use pure water, deionized or distilled water, and the specified antifreeze can be added in winter.	
Gas Requirements	N2, O2	Purity ≥99.99% O2 pressure:0.4-0.8Mpa N2 pressure: 1.2-2.5Mpa	Will have difference according to different materials, technology
	Compressed air	Pressure ≥2.5mpa	
Working Environment	Temperature	5-40℃	
	Humidity	≤70%	
	Ground	Ground standard: 500kg/m2 Amplitude ≤50um, Amplitude acceleration≤0.05g, No large punching vibration equipment nearby	
	Equipment space requirements to ensure smoke-free dust, avoid metal dust, grinding and other dusty working environment, and must install anti-static floor, connect shielded wire		

Cutting finished products

