

JLM3015 Fiber laser cutting machine

Offer (1000W Fiber laser)



JLM3015

Leadtime: 30 days

A gyártó által kiadott műszaki specifikáció

1. Machine specification(Single table)

Item		Model		
			JLM3015	
Effective size(mm)			3000*1500	
Max process height(mm)		90		
Machine size	X axis(mm)		3050	
	Y axis(mm)		1550	
	Z axis(mm)	100		
Position accuracy	X axis(mm/m)	±0.03		
	Y axis(mm/m)	±0.03		
	Z axis(mm/m)	±0.01		
Repeated accuracy	X axis(mm)	±0.02		
	Y axis(mm)	±0.02		
	Z axis(mm)	±0.005		
Fast positioning Speed	X axis(m/min)	72		
	Y axis(m/min)	72		
	Z axis(m/min)	30		
Max cutting thickness		12mm/CS; 5mm/SS		
Power consumption		8.5kw/h		
Protection level		IP54		
Machine weight (Ton)			5.1	
Size L*W*H(mm)			4116*2165*1346	

2. Machine Configuration

Machine parts list			
No	Item	Brand	Note
1	Machine table	Qiaolian	China
2	Industrial air conditioner	Qiaolian	China
3	1000W Fiber laser	IPG	Germany/USA/Russia
4	Laser head	Raytools AG with auto focus	Switzerland
5	Chiller	Hans	China
6	CNC controller	Cypcut	Special for laser cutting
7	Helical gear rack	Gambini	Italy
8	Linear guide	Bosch Rexroth	Germany
9	X,Y axis Servo	Yaskawa	Japan
10	Solenoid valve	SMC	Japan
11	Gearbox	Shimpo	3arc/min, Japan
12	Proportional valve	SMC	Japan
13	Pressure valve	ARK	Korea
14	Auto height controller	BCS100	China
15	Relay	Schneider	France

Power transformer and stabilizer are included in the offer, will not be charged separately.

Laser Power Option

Below 2kw,we recommend IPG; over 2kw, we recommend Trumpf laser.

For Aluminum, Copper, brass such reflective material cutting, Trumpf laser is best solution.

If customer accept China laser, we can offer it as customer's need.

Please note follow information before you pay

Laser power matters with your often cut thickness and max cut thickness both.

Cut through a plate (max cut) doesn't mean cut the plate with a high quality. You need to check if the max cut quality meet your production quality request or not in advance.

When cut a plate, you can set slower speed for better quality, or faster speed to save production cost. It's meaningless to check speed or cutting quality separately.

3. Operation reference and cost

Consumables (as reference)

Consumable list	Life time (hour)/pc	QTY For 1 Year	Price (USD)/pc	Total(USD)
Protection glass	240	24	10	\$240.00
Brass Head 1.0 single layer	240	24 (Quantity for each type depend on the material thickness, please inform us in advance.	10	\$240.00
Brass Head 1.5 single layer	240			
Brass Head 2.0 single layer	240			
Brass Head 1.5 bilayer layer	240			
Brass Head 2.0 bilayer	240			
Sensor Cable	1200	1	30	\$30.00
Ceramic Ring	1200	2	80	\$160.00

Operation cost

Gas consumption takes 1mm CS and SS plate cutting as reference,

O2 consumption decreases along with plate thickness increase,

N2 consumption increases along with plate thickness increase,

Item	Consumption.	Note
Electricity (kw/h)	8.5	Complete machine
O2(L/h)	5.5	1mm carbon
N2(L/h)	20	1mm stainless
Protection glass/month	2-3	
Nozzle/month	2-3	

4. Warranty and Service

Complete machine has TWO year warranty after installation, and life-long technical support service.

During warranty period, any quality problem, we offer free repairing or replacement of parts.

After warranty period, we offer free technical support, just charge material cost.

Our promise: Respond to any of your inquiry within 24 hours.

Pre-sale service

1. Free sample cutting,

For free sample cutting/testing, please send us your CAD file, we will do cutting here and make video to show you the cutting, or send sample to you check cutting quality.

2. Customized machine design

According to customer's application, we may revise our machine accordingly for customer's convenience and high production efficiency.

Service after sales

- A. Machine will be supplied with training video and user's manual in English for installation, operation, maintenance and trouble-shooting, and shall give technical guide by e-mail, fax, telephone, skype.... for fast solution. We may offer technician for onsite service, customer shall cover visa, ticket, local living cost.
- B. Customer may come to our factory for training. We will offer training of installation, operation, machine trouble-shooting, and maintenance.
During training in our workshop, we offer free training and living cost for 7 days, limit 2 people.
- C. We offer technician to customer for technical support, but customer should help to arrange travel and cover local living cost.

Payment Term

50% in advance, balance before delivery.

6. Tools and documents delivered with machine

Machine tool

No	Item	Qty	Unit
1	M6 inner hexagon spanner	1	pc
2	Straight screwdriver	1	pc
3	Cross type screwdriver	1	pc
4	Adjustor wrench	1	pc
5	Protection lens	5	pc
6	Nozzle	10	pc
7	2G U disk	1	pc
8	Protection glass	1	pc

Laser lens cleaning tool

No	Item	Qty	Note
1	Cleaning tool box	1	
2	Cotton stick	1	
3	Isopropyl	1	
4	Dust cleaner	1	
5	Dustproof gloves	5	
6	Lens cleaning paper	1	

Documents

- Qiaolian machine Turn on/off struction manual
- Qiaolian machine operation manual
- Qiaolian machine safety guide
- Qiaolian machine maintenance guide
- Qiaolian machine daily maintenance
- Qiaolian machine installation guide
- Qiaolian machine electrical diagram
- X/Y axis Laser interferometer measurement table

7. Buyer's Preparation

If not available at customer's side, please inform us in advance.

No	Item	Specs	Qty
1	Machine powersupply cable	10mm ² *8	25m
2	Machine grounding cable	10mm ²	25m
3	Grounding copper rod	Diameter:35mm	2.5m
4	deionized water	Second grade	100L
5	Switch box	380V, 3 phases, five wire	1
6	High pressure pipe joint	In-line for air compressor. 10mm	2
7	Gas pipe	10mm	20m
8	Oxygen cylinder	220L	1
9	N2 cylinder	220L	1
10	Carburetor(with pressure adjustor and pipe)	100L	1
11	Input powersupply	>30kw	1