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3015E Fiber Laser Cutting Machine



Specifications:

Cutting Table: 1500x3000mm

Laser Power: 1.5KW/2KW/3KW

Laser Software: Cypcut

Laser Cutting Head: Raytools

X/Y Axis Positioning Accuracy: 0.05mm

X/Y Axis Repositioning Accuracy: 0.03mm

Power: 3 phase 415V/ 25A-60A

Max. Acceleration: 1G

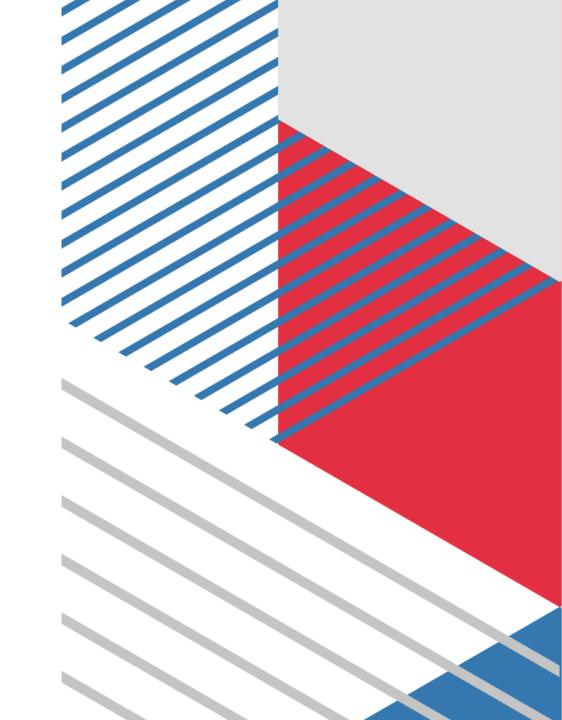
Max. No-load Speed: 80m/min

Max. Loading Weight: 1000Kg

Overall Dimensions (L*W*H) 4600x2300x1750mm

Suitable Materials for Laser Cutting:

Carbon steel - Stainless steel - Aluminum alloy - Brass- Copper - Galvanized Steel - Titanium



Features:

Compact design

Whole machine can be easily loaded into 20 foot container, it will only take 8 hours for installation and commissioning.

Pipe Welding Frame

Whole machine is machined by high accuracy CNC gantry machine center, 600° C heat treatment has been done on the machine frame, which gives Alpha laser cutting machine a minimum 20 years life without mechanical distortion.

Cast Aluminium Beam

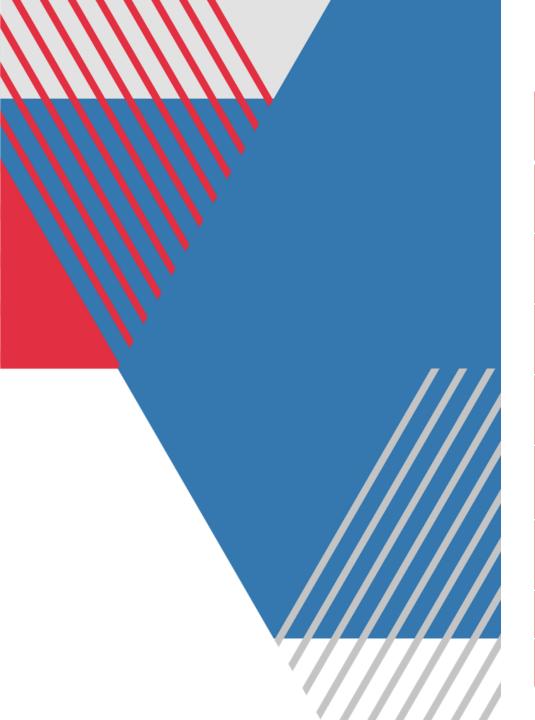
Light cast aluminium beam has been adopted to guarantee fast and high precision cutting.

Fast Piercing

With our autofocus cutting head, international first-class laser device and other gas control components, The pierced holes will remain unchanged in shape, be smooth in cutting surface, high in precision.

Cutting Speed

Material	1KW		2KW		3KW		Cutting Gas
	Thickness	Speed	Thickness	Speed	Thickness	Speed	
Stainless steel	1 mm	16 m/min	1 mm	25 m/min	1 mm	40m/min	N2/Air
	2 mm	6 m/min	3 mm	4.5 m/min	3 mm	8.5m/min	N2/Air
	3 mm	1.8 m/min	5 mm	1.3 m/min	8 mm	1.0 m/min	N2/Air
Carbon steel	1 mm	15 m/min	1 mm	23 m/min	1 mm	35m/min	N2
	2 mm	5.5 m/min	3 mm	4m/min	3 mm	4.5 m/min	O2
	3 mm	3 m/min	6 mm	1.6 m/min	6 mm	1.8 m/min	O2
	4 mm	1.8 m/min	8 mm	1.2 m/min	10 mm	1.1 m/min	O2
	6 mm	1.2 m/min	10 mm	1.0 m/min	12 mm	0.9 m/min	O2
	8 mm	0.8 m/min	14 mm	0.7 m/min	16 mm	0.7 m/min	O2
Brass	1 mm	7 m/min	1 mm	12 m/min	1 mm	15 m/min	N2/Air
	1.5 mm	4.5 m/min	3 mm	2.3 m/min	4 mm	2 m/min	N2/Air
Aluminum	1 mm	8 m/min	1 mm	13 m/min	1 mm	27 m/min	N2/Air
	2 mm	3 m/min	3 mm	3.5 m/min	3 mm	7 m/min	N2/Air



Typical Running Cost

Running cost of 3015E fiber laser cutter

ltem	Description	Mild steel with laser grade oxygen	Stainless steel cutting with nitrogen	cutting with compressed air		
1	Power consumption	ver consumption US\$4/hour based on 15Kw/hour				
2	Consumables cost (protective mirror, nozzle, ceramics)					
3	Maintenance	US\$200 US\$0.6/hou 38hours/week ar	US\$3000/year			
4	Gas consumption	US\$2/hour 2mm nozzle	US\$12~20 /hour 2mm nozzle	\$0		
Machine devaluation: \$86/week (10 years life and US\$45,000 machine price)		US\$2.5/hour				
	Labour cost	US\$30/hour				
Total running cost		US\$39/hour	US\$51~59/hour	US\$40/hour		

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