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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

Item	Description	Mild steel with laser grade oxygen	Stainless steel cutting with nitrogen	cutting with compressed air
1	Power consumption	US\$4/hour based on 15Kw/hour		US\$8/hour based on 25Kw/hour
2	Consumables cost (protective mirror, nozzle, ceramics)	About US\$1/hour		
3	Maintenance	US\$2000/year US\$0.6/hour based on 38hours/week and 52 weeks/year		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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