

SHEET METAL CNC CUTTING MACHINE Model FL3015



- t0.2-6mm carbon steel plate
- t0.2-5mm stainless steel plate
- Min. cutting line $\leq 0.1\text{mm}$

Part 1. Main specification

Cutting area (LxW)	3000×1500mm	
Laser power source	500W continuous fiber laser	
X/Y/Z travel	3025/1525/100mm	
Cutting thickness		
(t)	Carbon steel 0.2-6mm	
	Stainless steel 0.2-5mm	
Min. cutting line	$\leq 0.1\text{mm}$	
X/Y positioning	0.05mm/m	
X/Y repositioning	\pm	0.05mm
Max. G0 speed	40m/min	
Max. plus-speed	0.3G	
Environment temperature	0-40℃	
Max. loading sheet metal	500kG	
X/Y/Z feed-motor	Japan servo driver & motor	
X/Y/Z feeding transmission	HIWIN ball-screw	
Machine weight	4500kG	
Machine dimension (LxWxH)	4600×2450×1700mm	

Part 2. Cutting parameters

Thickness (mm)	Steel	Carbon	Max. cutting speed (m/min.)	Gases
1				
Steel	9			Oxygen
2		4		
3		2.5		
4		1.5		
5		1		

500W FIBER LASER

Written by Administrator

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6	0.6	
0.8	Stainless	
Steel	10	Nitrogen
1	8	
1.5	4	
2	2	
3	0.6	
1	10	Oxygen
1.5	8	
2	4.5	
3	2.5	
4	1.5	
5	1	

Part 3. Cutting cost

items	Carbon sheet t1mm	Stainless sheet t1mm	
Liquid oxygen	Gas nitrogen	Liquid nitrogen	
Electricity cost	Baht25./hour		
Power source cost	0 (continuous fiber laser	power source no expence!)	
Easy-damaged parts	Baht5./hour		
Gas cost	Baht50./hour	Baht170./hour	Baht100./hour
<i>Total cost</i>	<i>Baht80./hour</i>	<i>Baht200./hour</i>	<i>Baht130./hour</i>

Part 4. Machine standard for Manufacturing and Installation:

《GB7247-87: Laser Products' Safety Requirement》

《GB10320-88: Laser Equipment Electrical Safety》

Part 5. Standard device &

accessories

No.	Items & name	Qty.	Remark
1	3000x1500mm cutting table	1 set	
2	500W continuous fiber laser		
power source C05001	RAYCUS, China	1 set	
3	Power source water-cooled	1 set	
4	High-speed servo driver & motor	3 sets	SANYO, Japan
5	High-precision ball-screw & guide-way	3 sets	HIWIN, Taiwan
6	High-speed reducer	1 set	Taiwan
7	Fiber laser use cutting head	1 set	German technology
8	Head height sensor BCS100	1 set	
9	FSCUT laser cutting system	1 set	China

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10	IPC-510 Industrial PC	1 set	Taiwan
11	Electrical control system	1 set	
12	Gas control system	1 set	
13	Safety mirror & Copper cutting head	1 set	1 year consumable
14	Servicing tools & Operation Manual	1 set	English



500w Continuous Fiber Laser Power Source



cutting samples