

## LMM0005 - Laser cutting machine: Sheet and Tube

FIXED CONFIGURATION	
Model	LF-3015STP Fiber Laser Cutting Machine
Control System	Cypcut 2000
Working Size	Sheet:3000*1500mm
Machine Power	1 KW
Laser Source	MAX Laser source
Drives and Motors	Japan Yaskawa Servo Motor System
Fiber Laser Head	Raytools Automatic Focus Laser Head
Electric Proportional Valve	Japan SMC Electric Proportional Valve
Guide Rails	Taiwan HIWIN Rails
Lubrication	Automatically Lubrication System
Electron Component	France SCHNEIDER
Chiller	S&A
Voltage	380V 3Ph 50hz
Handle Control	WIFI Wireless Control Handle
Monitor	Video on the Screen

TECHNICAL PARAMETERS	
Model	LF-3015STP Fiber Laser Cutting Machine
Working Length	3000mm*1500mm and 600mm
Laser Power	1000W
Machine beds	Double machine beds and rotary beds
Laser Wavelength	1080nm
Laser Beam quality	<0.373mrad
Working Life of Fiber Source	
Position Type	Red Dot Pointer
Max. Idle Running Speed	120M/min
Geometric Position Accuracy	Within $\pm 0.05\text{mm/M}$
Reorientation Accuracy	Within $\pm 0.03\text{mm/M}$
Lubrication System	Electrical Motored
Min. Line Width	$\pm 0.02\text{mm}$
Power Consumption	$\leq 10\text{-}22\text{KW}$
Auxiliary Gas for Cutting/Assisti sys	Oxygen, Nitrogen, Air/Germany SMC
Compatible Software	AutoCAD, CorelDraw, etc.
Handle Control	WIFI Wireless Control Handle
Graphic Format	DXF/PLT/AI/
Effective Pipe Cutting Diameter	$\varnothing 20\text{-}\varnothing 220$ mm diameter
Effective Square Tube Cutting Diameter	$\square 20*20$ - $\square 160*160$ mm
Rectangular Tube	Min.Edge length $\geq 20\text{mm}$ Max. Outer Circle Diameter $\leq 160\text{mm}$
Effective Pipe Cutting Length	100mm - 6500mm

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Materials	Thickness (mm)	Gas	Speed (m/min)	Laser Power (W)	Cutting Frequency (Hz)	Cutting Pwr (%)	Pressure (bar)	Cutting Height (mm)	Cutting Position	Nozzle
Carbon Steel	1	N2	20~22	1000	5000	100	12~16	0.5	0	single: 1.0
	2	N2	6~7	1000	5000	100	12~16	0.5	0~-0.5	single: 1.5
	3	O2	2.8~3	1000	5000	100	0.6~0.9	0.8	4.5~5.5	double: 1.2
	4	O2	2.2~2.4	1000	5000	100	0.6~0.9	1.5	2~3	double: 2.0
	5	O2	1.5~1.7	1000	5000	100	0.6~0.9	1.5	2~3	double: 2.5
	6	O2	1.2~1.4	1000	5000	100	0.6~0.9	1.5	2~3	double: 3.0
	8	O2	1.0~1.1	1000	5000	100	0.6~0.9	1.5	2~3	double: 3.0
Stainless Steel	1	N2/Air	21~23	1000	5000	100	12~16	0.5	0	single: 1.0
	2	N2/Air	6.5~7	1000	5000	100	12~16	0.5	0~-0.5	single: 1.5-2.0
	3	N2/Air	2.3~2.5	1000	5000	100	12~16	0.5	-1~-1.5	single: 2.0-3.0
	4	N2/Air	1.4~1.6	1000	5000	100	12~16	0.5	-2~-2.5	single: 3.0