



PLS-F1515 1kW Advanced Fibre Laser System

PLS-F1515 fully enclosed Fibre Laser System offers superior sheet metal cutting accuracy, greater precision, power, and speed than all its predecessors. Wide range of applications in metal processing, including: Mild Steel, Stainless Steel, Aluminum alloy etc.

Technical Data

Fibre Laser Power	1KW (Optional: 500W~3kW)
Table Travels	X Axis 1500mm Y Axis 1500mm Z Axis 120mm
Rapid Speed	140m/min
X, Y Max. Acceleration	1.5G
Machine Dimension	2.71m x 3.49m x 2m

Location Precision	±0.05mm
Repeatability	±0.03mm
Load Capacity	600kg
Motors	Yaskawa Servo Motors
Warranty	2 Year Warranty

Description

- High Accuracy Fiber laser source with 1000W power (Raycus)
- Superior edge quality plus high cutting speed
- Fully enclosed protective cover with lifting door and safety interlocks
- Drawer type working table
- Automatic Exhaust Extraction system



- High precision, World Leading Rack & Pinion Drive Technologies and Gearbox
- Advanced European dual processor CNC system for axial movement
- Direct laser control with PWM (Pulse Width Modulation)
- Automatic Gas Assist System
- Windows Driven Control Software with Materials Parameters Database

//////// Cutting Parameter //////////

Material	Thickness (mm)	Speed (M/min)	Air	Pressure (Bar)	Nozzle (mm)	Focus (mm)	Focal distance (mm)
Mild Steel	0.8	18	N2	10	S1.5	0	0.8
	1	10	O2	10	D1.2	0	0.8
	2	4		2	D1.2	+3	0.8
	3	3		0.6	D1.2	+3	0.8
	4	2.3		0.6	D1.2	+3	0.8
	5	1.8		0.6	D1.5	+3	0.8
	6	1.5		0.6	D1.5	+3	0.8
	8	1.1		0.6	D1.5	+3	0.8
Stainless Steel	0.8	20		N2	12	S1.5	0
	1	13	12		S1.5	0	0.5
	2	6	12		S2.0	-1	0.5
	3	3	12		S3.0	-1.5	0.5
	4	1	14		S3.0	-2	0.5
Aluminum	0.8	18	N2	12	S1.5	0	0.8
	1	10		12	S1.5	0	0.5
	2	5		14	S2.0	-1	0.5
Brass	1	9	N2	12	S2.0	0	0.5
	2	2		14	S2.0	-1	0.5

//////// What we do //////////



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