



LM Series

Sheet Fiber Laser Cutting Machines

Engineered for Precision, Speed, and Efficiency

TECHNICAL SPECIFICATIONS

Parameters	S1313	S1309
Format	1330 x 1350mm	1330 x 950mm
Table Load Bearing	300kg	250kg
Power Range	1.5 - 6 kW	
Laser Generator	Max / Raycus	
Control System	<4kW: FSCUT2000E / 6kW: FSCUT4000E	
Laser Head	<3kW: RayTools BM110 / 6kW: BOCI BLT42X	
Bed	Welded Bed	
Beam	Aluminum Profiles	
Chiller	Hanli	
Electrical Components	Schneider / Omron	
Proportional Valve	SMC	
Max. Running Speed	60m/min	
Positioning Accuracy	0.03mm	
Repositioning Accuracy	0.02mm	
Max. Acceleration (X/Y Axis Linkage)	0.6G	
Z-Axis Length Of Travel	100mm	
Model Support Power	1.5-6 kW	
Y-Axis Motor Power	0.75 kW*2	
X-Axis Motor Power	0.75 kW	
Z-Axis Motor Power	0.4 kW	
Screw	TBI/PMI	
Display Size	18.5 inches	
Nesting Software	Optional	
Input Power Parameters	Single-phase 220V±5/50Hz	

CUTTING CAPACITY (6000W)

Material	Thickness	Nozzle	Speed m/min	Nozzle Height (mm)	Focus	Gas	Pressure Bar	Peak Power (W)	Dust Cycle %	Pulse Frequency (Hz)
Carbon Steel	1mm	1.5S/2.0S	30 - 35	0.6	0	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	30 - 35	0.6	-1		15	6000	100	5000
	3mm	1.5S/2.0S	15 - 20	0.6	-1.5		15	6000	100	5000
	4mm	2.0S/3.0S	9 - 13	0.6	-2		15	6000	100	5000
	6mm	2.0S/3.0S	6 - 8	0.6	-2.5		15	6000	100	5000
	2mm	1.0D/1.2D	4 - 5	0.7	+6	O2	0.8	1000	100	5000
	3mm	1.0D/1.2D	2.6 - 3.3	0.8	+5		0.65	2000	100	5000
	4mm	1.0D/1.2D	2.4 - 3	0.8	+5		0.65	2000	100	5000
	6mm	1.2D/1.5D	2.4 - 3	0.8	+4.7		0.7	3000	100	5000
	8mm	1.2D/1.5D	2.2 - 2.6	0.8	+5		0.7	6000	100	5000
	10mm	1.2D/1.5D	2 - 2.4	0.8	+5		0.6	6000	100	5000
	12mm	1.2D/1.5D	1.6 - 2	0.8	+5		0.65	6000	100	5000
	14mm	1.2SP/1.4SP	1.2 - 1.4	0.6	+11		0.65	6000	100	5000
	16mm	1.2SP/1.4SP	1 - 1.2	0.3	+12		0.7	6000	100	5000
	20mm	1.4SP/1.6SP	0.6 - 0.7	0.3	+13		0.8	6000	100	5000
	25mm	1.4SP/1.6SP	0.5 - 0.6	0.3	+13		0.8	6000	100	5000
	30mm	1.4SP/1.6SP	0.25 - 0.35	0.3	+13		0.8	6000	100	5000
	35mm	1.4SP/1.6SP	0.1 - 0.2	0.3	+15		1	6000	100	5000
Stainless Steel	1mm	1.5S/2.0S	30 - 35	0.5	0	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	30 - 35	0.5	-1		15	6000	100	5000
	3mm	2.0S/3.0S	15 - 20	0.5	-1.5		15	6000	100	5000
	4mm	3.0S/3.5S	9 - 13	0.5	-2		15	6000	100	5000
	6mm	3.0S/3.5S	6 - 8	0.5	-2.5		15	6000	100	5000
	8mm	3.0S/3.5S	3 - 4	0.5	-4		15	6000	100	5000
	10mm	4.0S/5.0S	1.5 - 2.5	0.5	-5		15	6000	100	5000
	12mm	4.0S/5.0S	1 - 1.4	0.5	-7		15	6000	100	5000
	16mm	4.0S/5.0S	0.6 - 0.8	0.5	-10		15	6000	100	5000
	18mm	4.0S/5.0S	0.2 - 0.4	0.5	-1.2		15	6000	100	5000
Aluminum	1mm	1.5S/2.0S	30 - 35	0.5	0	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	30 - 35	0.5	-1		15	6000	100	5000
	3mm	2.0S/3.0S	20 - 25	0.5	-1.5		15	6000	100	5000
	4mm	3.0S/3.5S	8 - 13	0.5	-2		15	6000	100	5000
	6mm	3.0S/3.5S	4 - 7	0.5	-2.5		15	6000	100	5000
	8mm	3.0S/3.5S	2 - 3.5	0.5	-4		15	6000	100	5000
	10mm	4.0S/5.0S	1.5 - 2	0.5	-5		15	6000	100	5000
	12mm	4.0S/5.0S	1 - 1.2	0.5	-7		15	6000	100	5000
	14mm	4.0S/5.0S	0.6 - 0.8	0.5	-10		15	6000	100	5000
	16mm	4.0S/5.0S	0.2 - 0.4	0.5	-1.2		15	6000	100	5000
Brass	1mm	1.5S/2.0S	20 - 25	0.5	0	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	20 - 25	0.5	-1		15	5000	100	5000
	3mm	2.0S/3.0S	7 - 9	0.5	-1.5		15	6000	100	5000
	4mm	3.0S/3.5S	8 - 13	0.5	-2		15	6000	100	5000
	6mm	3.0S/3.5S	3 - 5	0.5	-2.5		15	6000	100	5000
	8mm	3.0S/3.5S	1.8 - 2.1	0.5	-4		15	6000	100	5000
	10mm	4.0S/5.0S	1.3 - 1.6	0.5	-5		15	6000	100	5000
	12mm	4.0S/5.0S	0.9 - 1.1	0.5	-6		15	6000	100	5000
	14mm	4.0S/5.0S	0.5 - 0.7	0.5	-9		15	6000	100	5000
	16mm	4.0S/5.0S	0.2 - 0.4	0.5	-12		15	6000	100	5000

CUTTING CAPACITY (3000W)

Material	Thickness	Nozzle	Speed m/min	Nozzle Height (mm)	Focus	Gas	Pressure Bar	Peak Power (W)	Dust Cycle %	Pulse Frequency (Hz)
Carbon Steel	1mm	1.5S/2.0S	30 - 35	0.6	-1	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	12 - 15	0.6	-1		15	3000	70	2000
	2mm	1.0D/1.2D	4 - 5	0.7	+6	O2	0.8	1000	100	5000
	3mm	1.0D/1.2D	2.6 - 3.3	0.8	+5		0.65	2000	100	5000
	4mm	1.0D/1.2D	2.4 - 3	0.8	+5		0.65	2000	100	5000
	6mm	1.0D/1.2D	2.2 - 2.6	0.8	+4.7		0.7	3000	100	5000
	8mm	1.0D/1.2D	1.8 - 2.1	0.8	+5		0.7	3000	100	5000
	10mm	1.2D/1.5D	1.4 - 1.6	0.8	+5		0.6	3000	100	5000
	12mm	1.4D/1.5D	1 - 1.2	0.8	+5		0.7	3000	100	5000
	14mm	3.0D/3.5D	0.7 - 0.9	1.2	+5		0.65	3000	100	5000
	16mm	4.5D/5.0D	0.6 - 0.7	1.2	+5		0.65	3000	100	5000
	20mm	4.5D/5.0D	0.55 - 0.65	1	+4.5		0.6	3000	100	5000
	22mm	4.5D/5.0D	0.55 - 0.65	1	+5.5		0.6	3000	100	5000
Stainless Steel	1mm	1.5S/2.0S	25 - 35	0.5	-0.5	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	17 - 22	0.5	-1		15	3000	100	5000
	3mm	2.0S/3.0S	6 - 8	0.5	-2		15	3000	100	5000
	4mm	3.0S/3.5S	4 - 6	0.5	-2.5		15	3000	100	5000
	6mm	3.0S/3.5S	1.8 - 2.3	0.5	-3.5		15	3000	100	5000
	8mm	3.5S/3.5S	0.9 - 1.2	0.5	-4		15	3000	100	5000
	10mm	3.5S/3.5S	0.4 - 0.6	0.5	-5		15	3000	100	5000
	12mm	4.0S/5.0S	0.1 - 0.2	0.5	-6		15	3000	100	5000
Aluminium	1mm	1.5S/2.0S	25 - 35	0.5	-0.5	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	14 - 16	0.5	-1.5		15	3000	100	5000
	3mm	2.0S/3.0S	6 - 8	0.5	-2		15	3000	100	5000
	4mm	3.0S/3.5S	3 - 5	0.5	-3		15	3000	100	5000
	6mm	3.0S/3.5S	1.2 - 2.0	0.5	-4		15	3000	100	5000
Brass	1mm	1.5S/2.0S	20 - 25	0.5	-0.5	N2 / Air	15	3000	100	5000
	2mm	1.5S/2.0S	10 - 13	0.5	-1.5		15	3000	100	5000
	3mm	2.0S/3.0S	5 - 7	0.5	-2		15	3000	100	5000
	4mm	3.0S/3.5S	2 - 3	0.5	-2.5		15	3000	100	5000
	5mm	3.0S/3.5S	1 - 1.5	0.5	-4		15	3000	100	5000
	6mm	3.0S/3.5S	0.3 - 0.4	0.5	-5		15	3000	100	5000

MAIN CONFIGURATION

AORE / MAX / RAYCUS Power Laser

- High conversion rate, low energy consumption
- Resistant to high feedback, strong protection
- High integration, minimal footprint



AORE Sword / RayTools Laser Head

- Highly intelligent with instant responsiveness
- Interference resistant for reliable and seamless communication
- Durable and impact-resistant, requiring zero maintenance
- Water-cooling system for consistent temperature stability



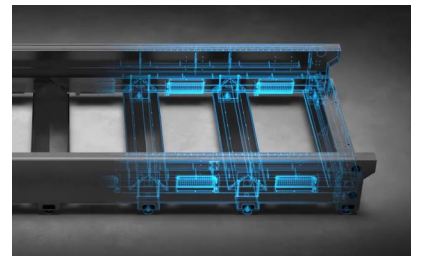
AORE Core / FUSCUT Control System

- Quick response for high efficiency
- Versatile and easy operation
- Covers a wide range of cutting operations
- Designed with user-friendliness in mind



New Double Bed Structure

- Engineered to meet high-efficiency processing demands
- Proprietary design with integrated stopper plug-in system
- Maintains structural integrity during prolonged cutting operation



Space Saving Design

- Occupies less floor space, ideal for workshops with limited room
- Easier to relocate within a facility if production needs change
- Simplifies operation and maintenance due to compact, ergonomic design



Dynamic Collision Sensor

- Dynamic collision sensing detects potential warping of the sheet in advance, automatically avoids obstacles, and reduces maintenance costs for the laser head

