MORGAN RUSHWORTH
SINCE 1872

BENDING. CUTTING. EXCELLENCE



XL Fibre Laser Cutting Machine

The Morgan Rushworth XL range of fibre lasers features a range of cutting size areas, with an automatic shuttle table and dual pallet changer, allowing safe loading and unloading during cutting.

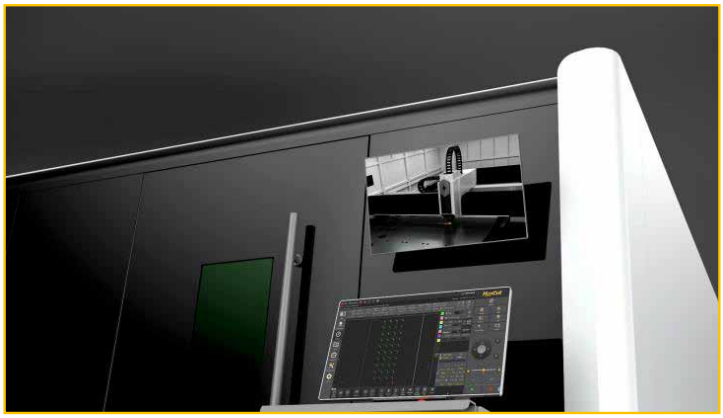
Class-leading components ensure excellent cut quality, high reliability, and minimal downtime. Ranging up to 20kW, these are highly capable machines.



FEATURES AND BENEFITS

- **1.5m to 2.5m Bed Widths**
- **3m to 6.5m Bed Lengths**
- **Up to 12kW Laser Power**
- **1.5G Acceleration**
- **CypNest Nesting Software**
- **Anti-Collision Torch Technology**

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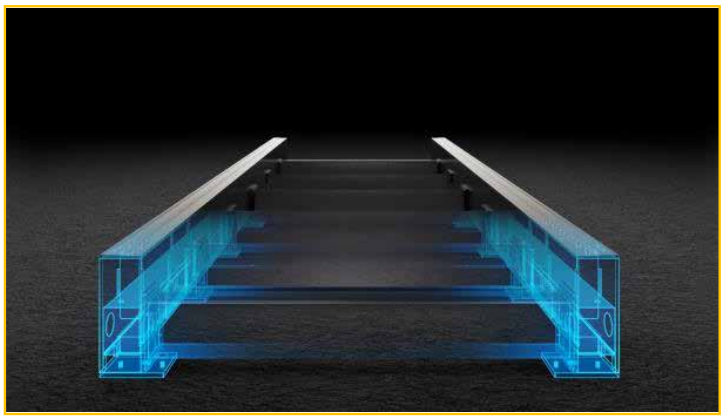


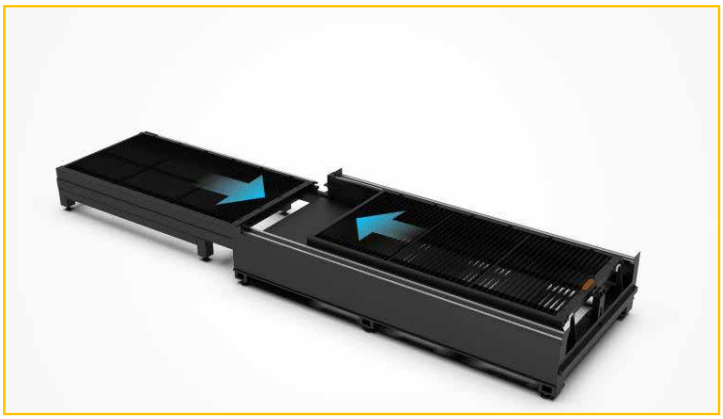
Intelligent Control System

Intelligent nesting and automatic focus adjustment reduces manual intervention, lowering costs and increasing productivity.

New Double-Keeper Bed Structure

Targeting high-efficiency machining needs, the self-developed double-keel design with interlocking stop joints ensures no deformation during long-term cutting and guarantees stable equipment operation.



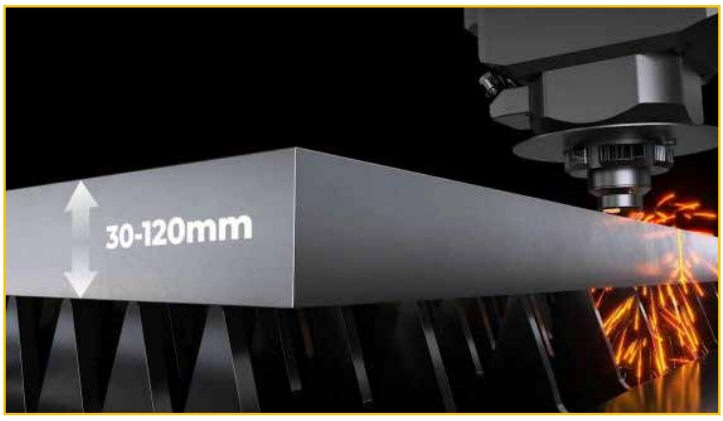


Smart Dual Platform

Streamline loading and unloading workflow and reduces processing periods for better efficiency

Engineered for Heavy Sheet Cutting

Effortlessly handles ultra-thick metal sheets from 30mm to 120mm. Equipped with a high-power laser source, it delivers deep penetration, high-speed cutting, and stable performance.





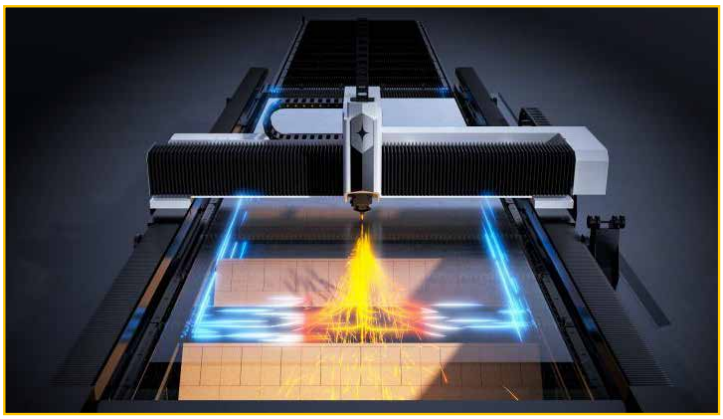
Fully-Protective Design

Ensure operator safety and environmentally friendly production with this CE-marked, fully enclosed design.

Advanced Heat-Resistant Design

The machine bed uses mineral, fireproof materials to significantly reduce the risk of heat distortion during heavy-duty processing, extending the equipment's service life.



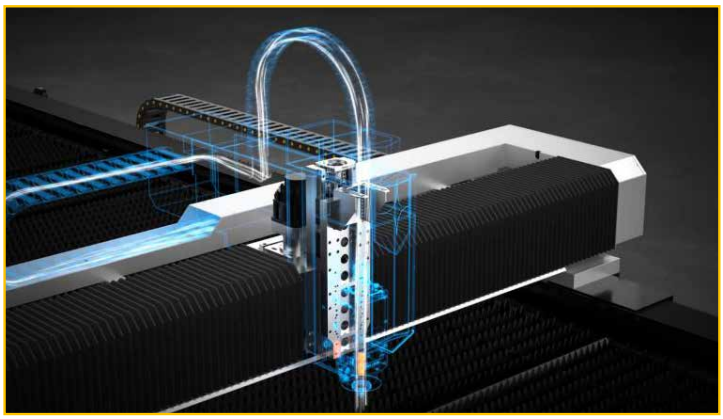


Follow-Up Zoned Dust Removal

The zoned dust collection system achieves dust removal efficiency of ≥95%, effectively improving the cutting environment.

Intelligent and precise air pressure control

Through intelligent system monitoring, air pressure is detected and adjusted in real time to ensure stable cutting.



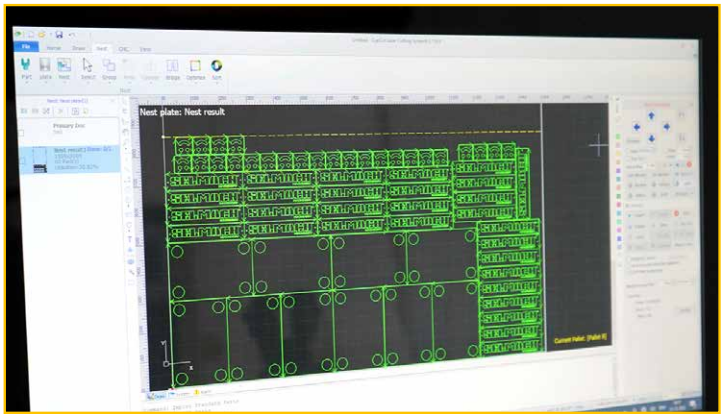


MACHINE FEATURES

- High performance Fibre Laser Source
- CypCut Software
- Bochu Controller
- Fibre optic beam delivery system
- Boci Laser Cutting Head
- Dual Shuttle Exchange Table
- S & A Chiller
- High strength, rigid gantry design to ensure high accuracy and allow high acceleration
- CE compliant complete machine enclosure and light barrier system

OPTIONAL EQUIPMENT

- Fume extractor with filters
- Air compressor and dryer



CypCut Software



Boci Torch

CUTTING CAPACITIES

LASER SOURCE			3kW	6kW	8kW	12kW	20kW
Material	Gas	Capacity					
Carbon Steel	O2	mm	22	25	30	40	60
Stainless Steel	N2	mm	12	20	25	35	50
Aluminium	Air	mm	10	16	24	35	50
Brass	N2	mm	8	14	16	20	20
Copper	O2	mm	6	10	14	15	15
Galvanised	N2	mm	8	14	20	25	25

TECHNICAL SPECIFICATIONS

STOCK CODE		XL 3015		XL 4020		XL 6020		XL 6525	
Laser Source	kW	3 or 6	8, 12 or 20	3 or 6	8, 12 or 20	3 or 6	8, 12 or 20	3 or 6	8, 12 or 20
X Axis Travel	mm	3,050		4,050		6,050		6,550	
Y Axis Travel	mm	1,530		2,030		2,030		2,530	
Z Axis Travel	mm	315		375		375		375	
Processing Size	mm	3,050 x 1,530		4,050 x 2,030		6,050 x 2,030		6,550 x 2,530	
Acceleration	G	1.5							
CNC Control Unit		BOCHU CNC Controller							
Cutting Head		Boci							
Max. Traverse Speed	m/min	120							
Max. Table Capacity	kg	915	1,835	1,300	3,200	1,950	4,750	2,550	6,380
Absolute Positioning Accuracy	mm	± 0.03							
Repeatability (X & Y Axis)	mm	± 0.02							
Length	mm	8,350		11,400		15,300		17,300	
Width	mm	2,270		3,430		3,430		3,930	
Height	mm	2,600		2,350		2,700		2,700	
Weight	kg	5,370	6.420	9,100	11,000	12,125	14,385	16,170	18,185