

# 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 12kW, 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**



**mNest  
Software**



**Anti-Collision  
Torch Technology**

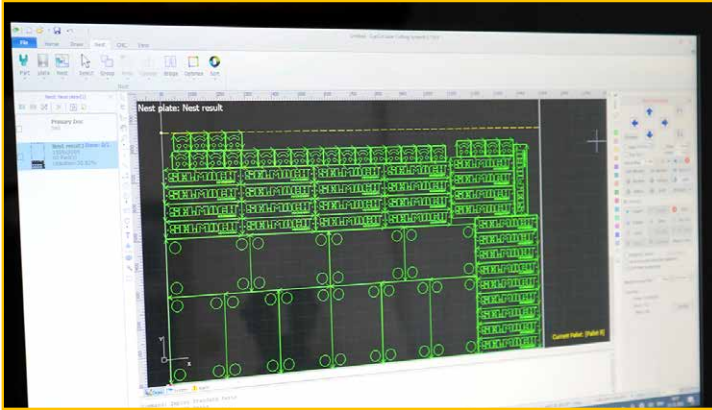


## MACHINE FEATURES

- High performance mLase Fibre Laser Source
- mNest Software
- MRT Controller
- Fibre optic beam delivery system
- M-Cut 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



mNest Software



mCut Torch

## CUTTING CAPACITIES

LASER SOURCE			3kW	4kW	6kW	8kW	12kW
Material	Gas	Capacity					
Carbon Steel	O2	mm	22	25	25	30	40
Stainless Steel	N2	mm	12	12	20	25	35
Aluminium	Air	mm	10	12	16	24	35
Brass	N2	mm	8	12	14	16	20
Copper	O2	mm	6	6	10	14	15
Galvanised	N2	mm	8	10	14	20	25

## TECHNICAL SPECIFICATIONS

STOCK CODE		XL 3015		XL 4020		XL 6020		XL 6525	
Laser Source	kW	3, 4 or 6		8 or 12		3, 4 or 6		8 or 12	
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		MRT CNC Controller							
Cutting Head		mCut							
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