



## Morgan Rushworth XR Laser Cutting System

The Morgan Rushworth XR laser can process a range of materials such as brass, stainless steel, and aluminium. This laser system can cut up to 25 mm thickness and process a burr-free product with excellent edge quality. It is equipped with Auto Focus functioned cutting head for best cutting results.

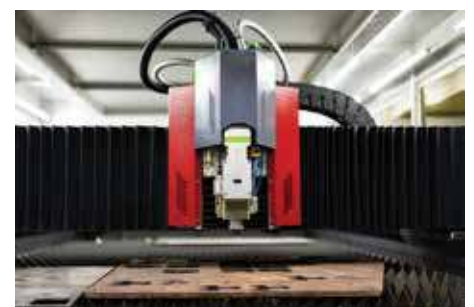
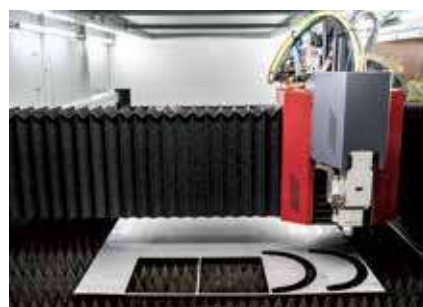
The Morgan Rushworth XR laser enables parts to be safely loaded and unloaded while the machine is still cutting. Its design includes the fibre laser source and chiller inside the body of the machine, resulting in a compact footprint and space economy.

### Machine Features

- Extremely compact design of Laser cabin & shuttle table
- Advanced HMI machine control for intuitive programming
- Modular design for continuous operation and maximum uptime
- Tunable beam quality with an all-fibre design
- Hardware-based back-reflection protection allows the processing of even the most reflective metals with no interruptions or damage to the laser.
- High quality laser cutting system built in Europe with class leading componentry
- Trained technicians for long term peace of mind and optimum after-sales
- Ultra compact machine layout for space utilisation
- Zoned Extraction bed for optimum filtration
- CE Protection Cabin ensuring operator safety
- Full Lightbarrier guarding for operator safety
- Class leading warranty options
- Low maintenance



**High precision,  
flexible profiling**



### Optional Equipment

- Precitec LightCutter cutting head Standard with 4kw
- Speed Package - Upgraded Servo motors & motion system Increases acceleration and positioning speed
- Lantek or Metalix CAM software
- CCTV view of cutting action
- Fume extractor with average life-time of filters approximately 20.000 hours
- Air compressor and dryer
- UPS (uninterruptable power supply)

## TECHNICAL SPECIFICATIONS

Fibre Laser Source	mm	1.0 kW nLIGHT	1.5 kW nLIGHT	2.0 kW nLIGHT	3.0 kW nLIGHT	4.0 kW nLIGHT	1.0 kW IPG YLR	2.0kW IPG YLR	3.0kW IPG YLR	1.0kW IPG YLS	2.0kW IPG YLS	3.0kW IPG YLS	4.0kW IPG YLS
Mild steel	mm	10	12	15	18	20	10	15	18	10	15	18	20
Stainless steel	mm	4	6	8	10	12	4	8	10	4	8	10	12
Aluminium	mm	3	5	6	8	12	3	6	8	3	6	8	12
X Axis travel	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Y Axis travel	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Z Axis travel	mm	100	100	100	100	100	100	100	100	100	100	100	100
Maximum sheet size	mm	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500	3000 x 1500
Positioning speed – Standard	m/min	90	90	90	90	90	90	90	90	90	90	90	90
Positioning speed – Beckhoff	m/min	110	110	110	110	110	110	110	110	110	110	110	110
Axis acceleration – Standard	kg	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Axis acceleration – Beckhoff	G	2	2	2	2	2	2	2	2	2	2	2	2
Shuttle table exchange time	sec	38	38	38	38	38	38	38	38	38	38	38	38
Maximum table capacity	kg	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Positioning accuracy	mm	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Length	mm	9045	9045	9045	9045	9045	9045	9045	9045	9045	9045	9045	9045
Width	mm	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280
Height	mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Weight	Kg	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000



## Fibre Laser Tower System

The Morgan Rushworth Tower System allows you to get the maximum throughput from your Fibre Laser cutting machine. This tower stacker enables you to run machines at optimum speed, with continual loading and unloading of sheet material and cut parts.

The Morgan Rushworth Tower System is easily integrated into your production. All stages, all the way to fully automated production, are possible. The tower is able to store raw material, load sheets for cutting, unload cut parts and automatically cycle through those steps. It's easy to set-up and quickly installed, with a minimal footprint, enabling fully automatic production.

With a correctly configured system, the Fibre Laser can be left running overnight or on weekends to maximise productivity.

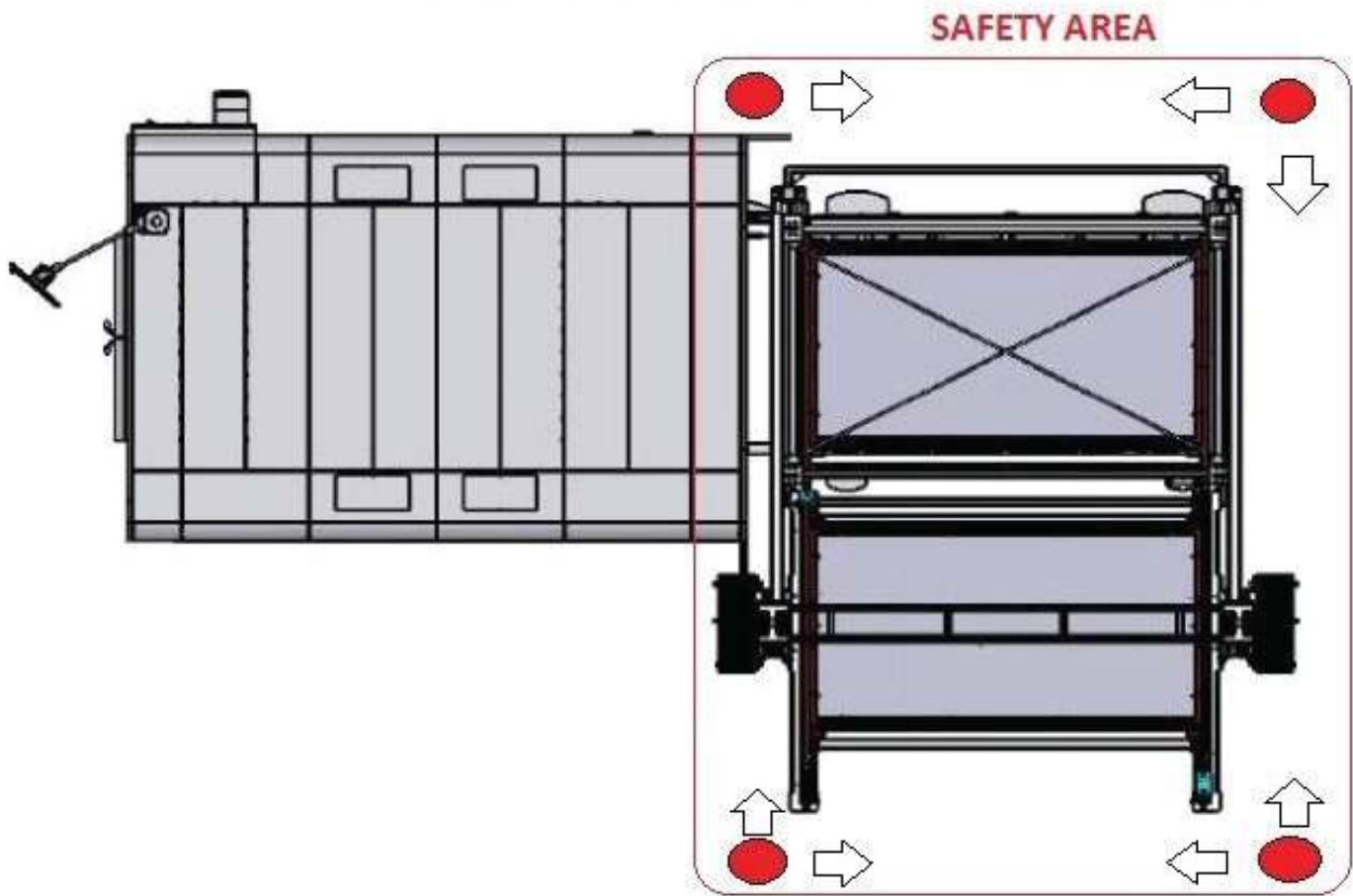
Optimised flow of material and cut parts ensures that your Laser is cutting for the highest possible amount of time.

### Machine Features

- Automatic loading and storage of raw material
- Automatic unloading of parts and scraps
- Allows fully automatic running
- Beckhoff Motors
- Bonfiglioli Gearbox
- Rexroth linear guideways
- Schmalz-festo pneumatics
- Beckhoff, Siemens,
- Schneider and Omron electrical components

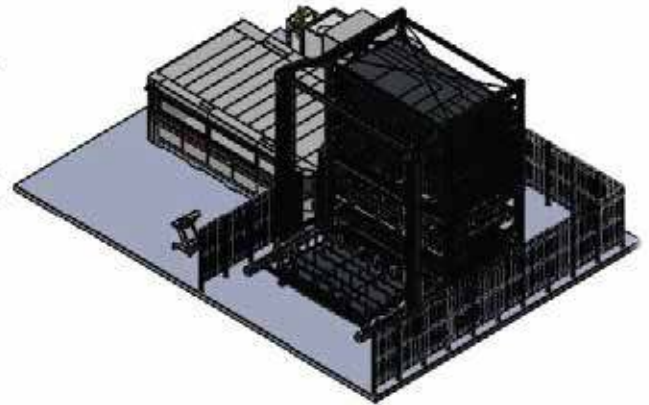
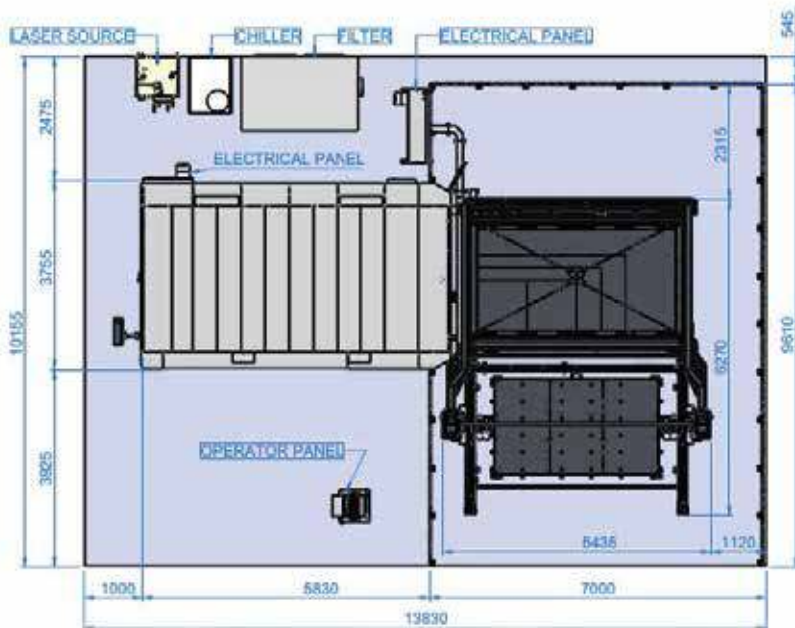


## LOADING / UNLOADING AND STORAGE SYSTEM





**LOADING-UNLOADING STORAGE SYSTEM**



**TECHNICAL SPECIFICATIONS**

MODEL	2040	
Max. Sheet Size	mm	2000 x 4000
Max. Load Per Compartment	mm	3000
Lifting Speed	m/min	15
Number of Compartments		8
Loading and Unloading Positioning Accuracy	mm	±1
Capacity of Loading and Unloading System	kg	1300
Electrical Requirement	kW	35
Pneumatic Requirement	bar	6
Pneumatic Consumption	Lt/min	1000
Length	mm	5435
Width	mm	6270
Height	mm	6015