MORGAN RUSHWORTH
SINCE 1872

BENDING. CUTTING. EXCELLENCE

XTM High Volume Tube Laser

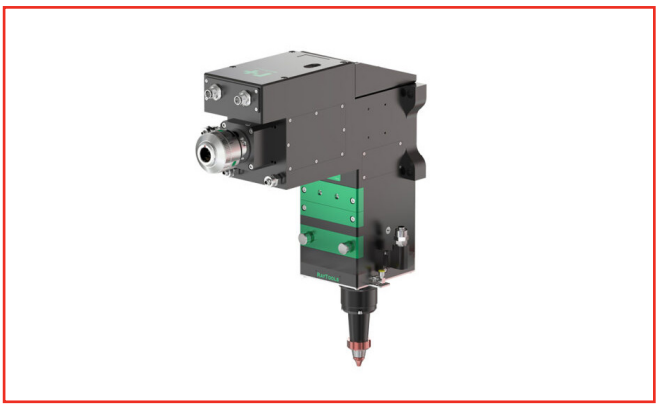
The Morgan Rushworth XTM range of tube laser cutting machines are especially applicable for round, square, rectangular, oval and waist round tubes.
Manufactured with the world's leading fibre laser resonator and electronic components to ensure superior stability. The high clamping bed feature provides outstanding rigidity whilst performing at high speed and acceleration, taking your tube laser cutting to the next level.

The Morgan Rushworth XTM Tube Laser has the potential not just to enable your business but also to empower it: Both to create the unique designs and products your customers need and to combine the very best software with the best quality hardware and components to meet the needs of our industry, not just today but going forwards long in to the future.

FEATURES AND BENEFITS

Up to 7.5m Infeed	Up to 6m Outfeed	3, 6 or 12kW Laser Power	Up to 1.5G Acceleration	Up to 360mm Tube Diameter	Up to 2,500kg Bundle Weight

www.morganrushworth.com | 01785 508 030 | sales@morganrushworth.com



RAYTOOLS CUTTING TORCH

CHUCK OPEN

MACHINE FEATURES

- Fibre optic beam delivery system
- Raytools Autofocus Laser Cutting Head
- Applicable tube types : Round tube, square tube, rectangular tube, oval tube, D-shaped steel, T-shaped steel, H-shaped steel, channel steel, angle steel, I-Beams etc.
- Material Receiving and Collecting System
- CE compliant complete machine enclosure and light barrier system
- PA Control System
- Lantek / Sigmanest Software
- Bundle Loader Loading System
- Scrap collection draw
- 3m Outfeed

OPTIONAL EQUIPMENT

- Weld Seam Detection
- 4m / 6m Outfeed
- Head Scanning
- IPG Laser Source
- Deslagging Device
- Filtration & Extraction

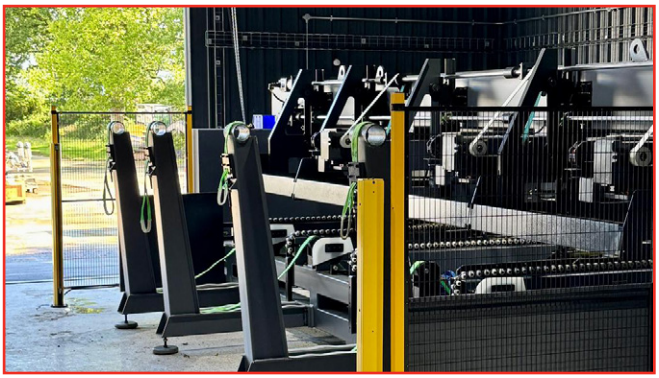
REAR LOADING SYSTEM

FRONT OF LOADING SYSTEM

CNC CONTROL

PART COLLECTOR

FULL MACHINE INSTALLATION



LOADING SYSTEM

CONVEYOR OUTFEED

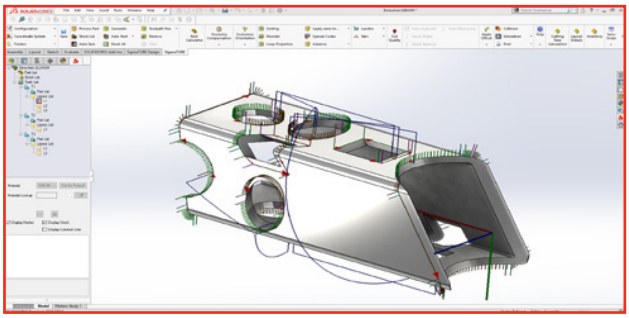
LOADING SYSTEM

PA CONTROLLER

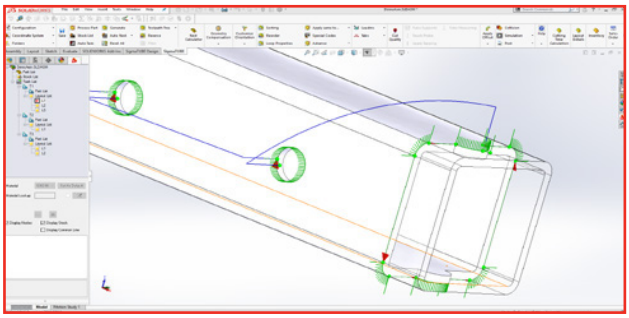
LOADING SYSTEM

Tube and Pipe Made Simple with SigmaTUBE SW Software

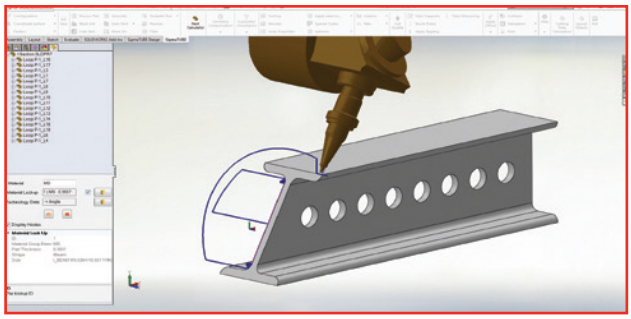
While SigmaNEST covers sheet and plate, SigmaTUBE SW extends this intelligence into the world of tube, pipe, and structural cutting. Fully embedded within SOLIDWORKS, it provides fabricators with a seamless way to process complex 3D assemblies. Entire tube assemblies can be imported, automatically broken down into individual parts, and nested for maximum yield within seconds.



The software's advanced feature recognition identifies tube sections, holes, and joint details, grouping similar parts by material and cutting process. Toolpathing is designed to be both automatic and flexible, with options for weld preparation, seam compensation, and common-line cutting to reduce cycle times.

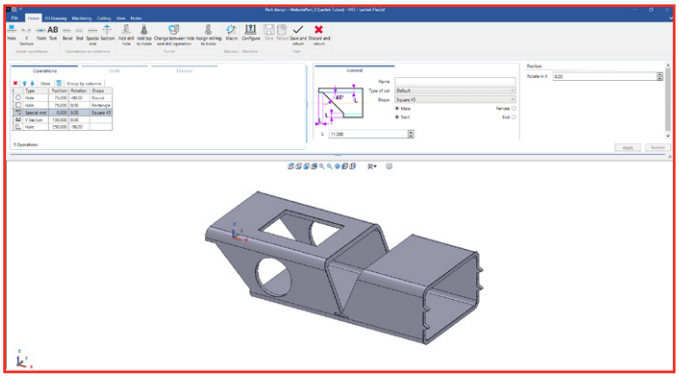


Its fully 3D environment provides instant visualisation of machine heads, nests, and toolpaths, making editing and verification straightforward. Large assemblies can be easily handled, while animated previews of the cutting process offer confidence before a single pierce is made. Reporting is equally strong, generating clear documentation on cutting length, time, toolpaths, and inventory use.



Lantek Flex3D Tubes Software

Lantek Flex3D Tubes integrates with various kinds of tubular geometry importers such as SAT and IGES. This software allows 3D design to be simple and intuitive. It gives a true vision of the resulting design profile that will eventually be cut on a machine.



This system is a parametric system which allows the user to change the values of any operations previously made, including changes to the initial parameters of each tube (lengthening, shortening, change of diameter).

Once the design stage is complete, the user can simulate optimisation of the tube (nesting) and the path followed by the cutting head. The software will directly generate the NC program in order to send this optimisation to the machine.

TECHNICAL SPECIFICATIONS

MODEL NUMBER		XTM 6023.3000	XTM 6023.6000	XTM 7523.3000	XTM 7523.6000	XTM 6028.3000	XTM 6028.6000	XTM 7528.3000	XTM 7528.6000	XTM 6036.3000	XTM 6036.6000	XTM 6036.12000	XTM 7536.3000	XTM 7536.6000	XTM 7536.12000
STOCK CODE		M7970	M7971	M7972	M7973	M7974	M7975	M7976	M7977	M7978	M7979	M7980	M7981	M7982	M7983
Laser Source	kW	3	6	3	6	3	6	3	6	3	6	12	3	6	12
Max. Tube Length	mm	6,000		7,500		6,000		7,500		6,000			7,500		
Tube Diameter Range	Ø mm	20 - 230				20 - 280				20 - 360					
Box Section Diameter Range	mm	20 x 20 - 230 x 230				20 x 20 - 280 x 280				20 x 20 - 360 x 360					
Axis Acceleration	G	1.5													
Scrap Length	mm	100mm +:180mm - 200mm 100mm -: 50mm - 80mm													
Max. Single Tube Weight	kg	225				400				530					
Max. Bundle / Semi-Auto Loading Weight	kg	2,500				2,500				2,500					
Type of Infeed Supports		Servo Controlled													
Type of Outfeed Supports		Servo Controlled													
Chuck Speed	rpm	130				80				60					
Feed Speed	m/min	120				100				60					
Absolute Positioning Accuracy	mm	± 0.05													
Repeatability (X & Y Axis)	mm	± 0.03													
Cycle Time	s	13													

CUTTING CAPACITIES

			LASER SOURCE		
Material	**Gas**	**Capacity**	**3kW**	**6kW**	**12kW**
Carbon Steel	O2	mm	16	20	30
Stainless Steel	N2	mm	10	15	30
Aluminium	Air	mm	6	15	30
Brass	N2	mm	5	10	15
Copper	O2	mm	3	8	14