

XTS Compact Tube Laser

The Morgan Rushworth XTS Compact (2 Chuck) Tube Laser features a semi-automatic loading mode, efficiently handling Automatic loading and cutting tasks. For tubes with diameters ranging from 20 to 360mm. It adopts a side-mounted machine tool structure, with a front chuck equipped with a clearance function, and is fitted with a fully Servo-controlled floating support.

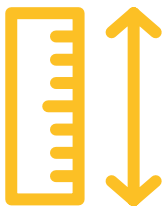


Supporting automatic loading of various tube profiles including; round tubes, rectangular tubes, square tubes, channel steel, i-beams, and custom shaped tubes - reducing labour requirements. The XTS features chuck-clearance cutting capability, allowing the cutting head to automatically move between the front and rear chucks for cutting, achieving the shortest possible tail-off and maximising material utilisation.

FEATURES AND BENEFITS



**Up to
7.5m Infeed**



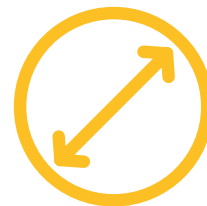
**Up to
6m Outfeed**



**3, 6 or 12kW
Laser Power**



**Up to 1.0G
Acceleration**



**Up to 360mm
Tube Diameter**



**Up to 1,500kg
Bundle Weight**



CUTTING TORCH



LOADING SYSTEM



LOADING SYSTEM



PA CONTROLLER

MACHINE FEATURES

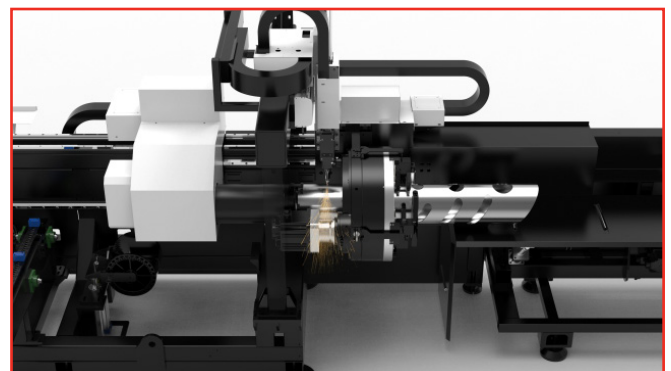
- Fibre optic beam delivery system
- Ospri Autofocus Laser Cutting Head
- Applicable tube types : Round tube, square tube, rectangular tube, oval tube, D-shaped steel, T-shaped steel, H-shaped steel, channel steel, angle steel, i-beams etc.
- Material Receiving and Collecting System
- CE compliant complete machine enclosure and light barrier system
- PA Control System
- Lantek / Sigmanest Software
- Chain Loader Semi-Automatic Loading System
- Zero scrap cutting with pneumatic clamping system to avoid final parts being stuck in the chuck.
- 2 Chuck Machine
- Scrap collection draw
- 3m Outfeed

OPTIONAL EQUIPMENT

- Bevel Head - LT Ultra
- Weld Seam Detection
- 4m / 6m Outfeed
- Head Scanning
- IPG Laser Source
- Filtration & Extraction



REAR CHUCK



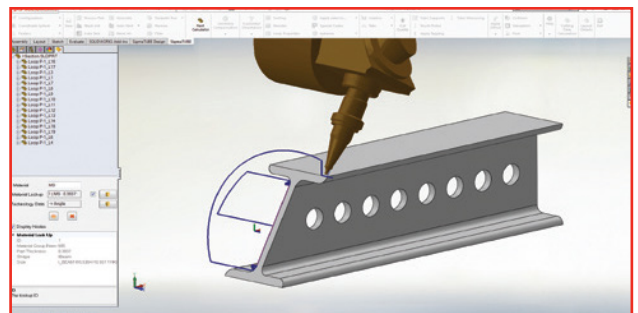
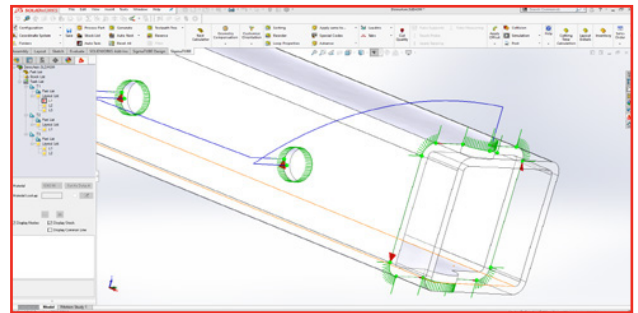
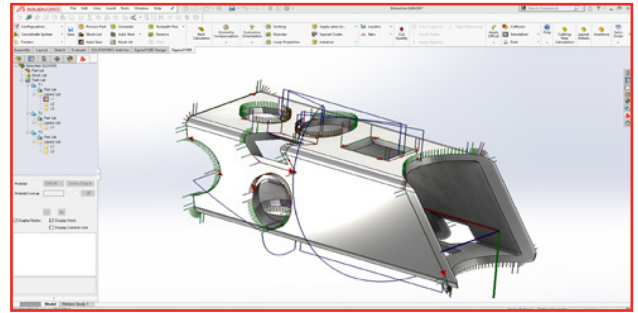
ZERO SCRAP CUTTING

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.

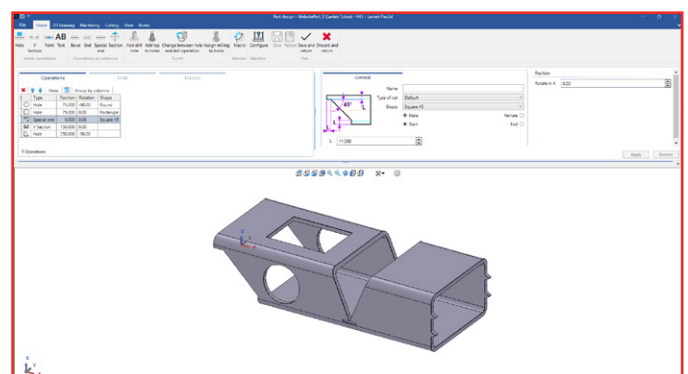


Lantek Flex3D Tubes Software

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		XTS 6023.3000	XTS 6023.6000	XTS 7523.3000	XTS 7523.6000	XTS 6028.3000	XTS 6028.6000	XTS 6028.12000	XTS 7528.3000	XTS 7528.6000	XTS 7528.12000	XTS 6036.3000	XTS 6036.6000	XTS 6036.12000	XTS 7536.3000	XTS 7536.6000	XTS 7536.12000
STOCK CODE		M7840	M7841	M7842	M7843	M7844	M7845	M7846	M7847	M7848	M7849	M7850	M7851	M7852	M7853	M7854	M7855
Laser Source	kW	3	6	3	6	3	6	12	3	6	12	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Max. Single Tube Weight	kg	225	225	225	225	400	400	400	400	400	400	530	530	530	530	530	530
Max. Bundle / Semi-Auto Loading Weight	kg	900	900	900	900	1,500	1,500	1,500	1,500	1,500	1,500	2,000	2,000	2,000	2,000	2,000	2,000
Type of Infeed Supports		Servo Controlled															
Type of Outfeed Supports		Servo Controlled															
Chuck Speed	rpm	80	80	80	80	80	80	80	80	80	80	60	60	60	60	60	60
Feed Speed	m/min	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Absolute Positioning Accuracy	mm	± 0.05															
Repeatability (X & Y Axis)	mm	± 0.03															
Cycle Time	s	18															

CUTTING CAPACITIES

Material	Gas	Capacity	LASER SOURCE		
			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

