

MORGAN RUSHWORTH XTC 6312.6000 CNC FIBRE LASER TUBE CUTTING MACHINE

The Morgan Rushworth XTC Compact Tube Fibre Laser Cutting Machine combines intelligent automation, modular design, and high-speed tube processing. With ultra-fast automatic loading and the flexibility to switch between semi-automatic and fully automatic (reduced capacity) operation, the XTC range is available in three capacities to process round tubes from 8-120mm, 10-160mm, or 10-240mm diameter. The machine achieves three major breakthroughs: "zero scrap waste, multi-scenario compatibility, and high-precision ultra-fast production," redefining the standards for small tube cutting.

The machine adopts a side-mounted machine bed structure, with the front chuck featuring a retractable function. When combined with a composite dual-function chuck, it enables zero scrap cutting, thereby minimising material waste. Additionally, it is equipped with a high-speed pneumatic chuck specially customised for small tubes. A full-servo floating support system is utilised at both the loading and unloading ends, working in tandem to enhance cutting accuracy and processing efficiency.

FEATURES

- High performance MAX Photonics fibre laser technology
- Fibre optic beam delivery system
- BOCI autofocus laser cutting head with crash protection system
- Automatic height sensor to ensure optimum cutting efficiency
- Fully enclosed cutting area
- High strength, rigid gantry design to ensure high accuracy and allow high acceleration
- German LEITENEN rack and pinion drive motion system
- Applicable tube types: Round tube, square tube, rectangular tube, oval tube, D-shaped steel, T-shaped steel, H-shaped steel, channel steel, angle steel, etc.
- 2 metre automatic outfeed support and unloading system
- CE compliant complete machine enclosure and light barrier system
- FSCUT3000 CNC Control System
- TubesT CAD/CAM Tube Nesting Software
- Semi-Automatic Loading System with reduced capacity Auto Loading System
- Zero scrap cutting with pneumatic clamping system to avoid final parts being stuck in the chuck
- Scrap collection drawer

OPTIONS

- Fume extractor with filters
- Automatic Loading System (full capacity)
- Bevel Cutting Head
- PA/Lantek Control System for production cutting
- Increase Outfeed to 4 metre

TECHNICAL INFORMATION

MODEL		XTC 6312.6000
Fibre Laser Source		6.0 kW
Maximum Tube Length	mm	6300
Tube Diameter Range (semi-auto)	mm	8 - 120
Box Section Diameter Range (semi-auto)	mm	8x8 - 120x120
Tube Diameter Range (auto)	mm	20 - 80
Box Section Diameter Range (auto)	mm	20x20 - 80x80
Tube Diameter Range (optional auto loader)	mm	15 - 120
Box Section Diameter Range (optional auto loader)	mm	15x15 - 120x120
Maximum Bundle Size	mm	750 x 600
Maximum Bundle Size (optional auto loader)	mm	650 x 550
Maximum Bundle Weight	kg	1500
Maximum Single Tube Weight	kg	70
Positioning Speed	m/min	120
Axis Acceleration	G	2.0
Positioning Accuracy	mm	±0.05
Repeatability	mm	±0.03
Cutting Capacity:		
Mild Steel	mm	25
Galvanised Mild Steel	mm	14
Stainless Steel	mm	15
Aluminium	mm	15
Brass	mm	12
Copper	mm	8
Length (with standard 2m outfeed)	mm	11000
Length (with bevel cutting head)	mm	11300
Width	mm	3150
Width (with optional auto loader)	mm	3000
Height	mm	2080
Height (with bevel cutting head)	mm	2500
Weight	kg	6000
Weight (with bevel cutting head)	kg	6300

OTHER IMAGES



Optional Automatic Loading System