

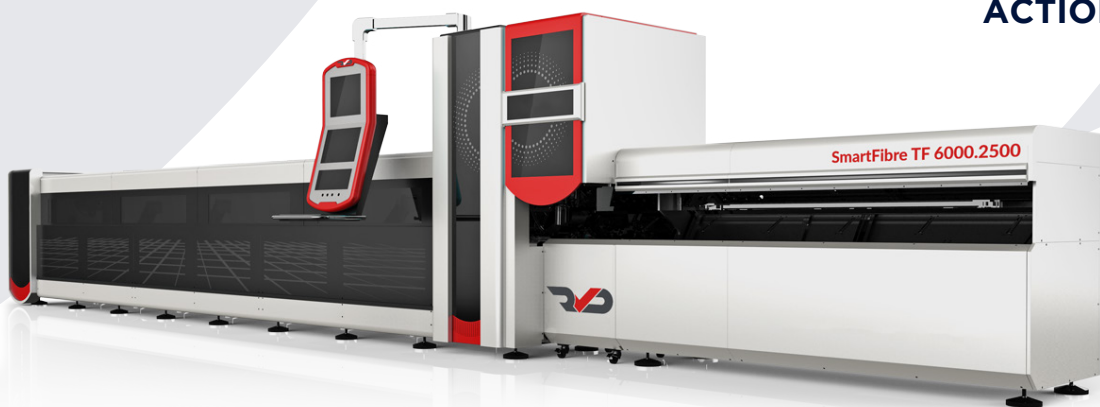


## Smart Fibre TF Tube Laser

The RVD SmartFibre TF 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.

**WATCH THIS  
MACHINE IN  
ACTION**





## SUPERIOR TUBE CUTTING QUALITY



## OPTIONAL MAGAZINE LOADING SYSTEM

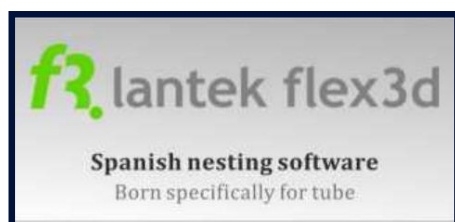


## CNC CONTROL AT YOUR FINGER TIPS

- Equipped with new multi-touch CNC Controller
- 5000mm-8000mm unrestricted mixed row automatic intelligent processing
- Seamlessly docked with the intelligent manufacturing factory
- MESS cloud data management system

## LANTEK FLEX3D

- Easy, Flexible Design
- Accurate, suitable for a wide range of pipe types
- Optimising and Cutting of Tubes
- CNC Simulation and Generation



## Machine Features

- High performance Max Photonics Laser Source
- Fibre optic beam delivery system
- RayTools Autofocus Laser Cutting Head
- High strength, rigid gantry design to ensure high accuracy and allow high acceleration
- High precision class alpha 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.
- CE compliant complete machine enclosure and light barrier system
- Lantek Flex3d CNC Laser Control and Software

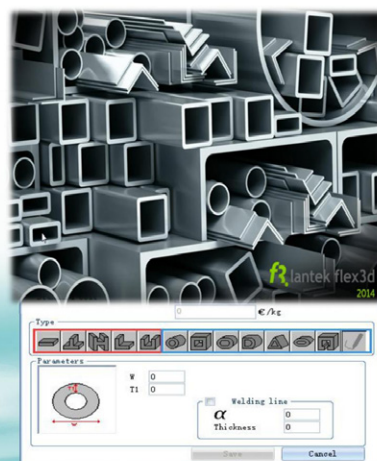
## Optional Equipment

- Outfeed Support - 4m / 6m
- Precitec ProCutter Head
- 3D Bevel Cutting Torch
- Optional Magazine Loading system
- Conveyor outfeed
- Weld Seam Detection
- UPS: Uninterruptible Power Supply
- Filtration & Extraction

## Lantek Flex3d Supporting Various Pipes

Standard pipes :  
Equal diameter pipes such as round, square, OB-type, D-type, triangular, oval etc.

Meanwhile, flex3d is equipped with profile cutting function modules to cut angle steel, channel and H-shaped steel, etc.





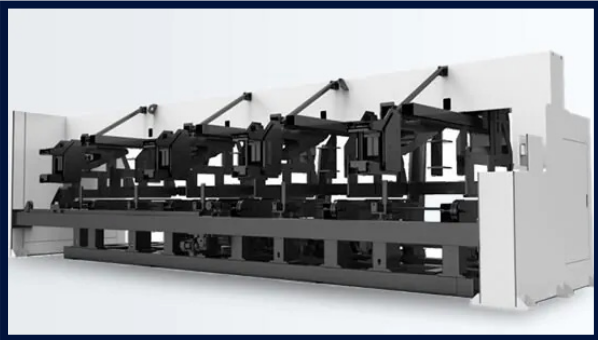
## HIGH SPEED FULL STROKE CHUCK - UP TO 130 RPM

Tube Range Up to 235mm / 350mm



## FULL SERVO DYNAMIC SUPPORT

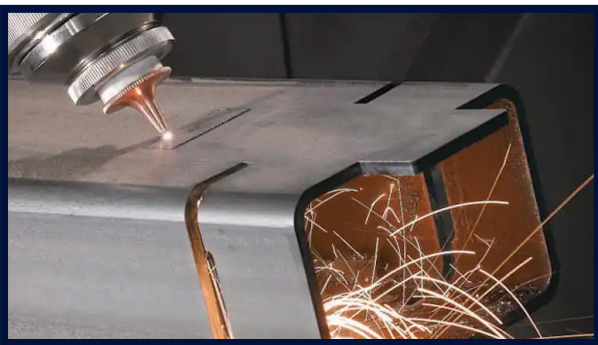
Tube Range Up to 235mm / 350mm



## INTELLIGENT AUTO LOADER

2.5T Ø20-200mm; 800 x 800 x 6200mm

3,500 - 6,200mm, unrestricted mixed-row automatic intelligent processing



## AUTOMATED LASER CUTTING HEAD

2D (3D Laser Cutting Optional)

Auto Focus

High degree of automation and good performance



### FLY CUTTING OF TUBE

Ultra-fast fly cutting, high precision and time saving.



### SLAG REMOVAL

Ensures the inner wall of the pipe is clean, eliminating secondary cleaning processes.



### DUST REMOVAL

Tail chuck dust removal function to reduce environmental pollution and dust.

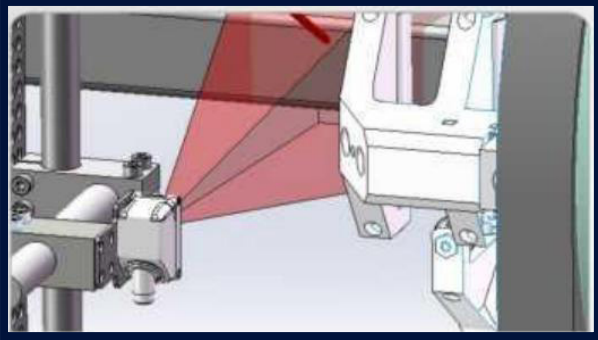


### LONG PIPES & TUBES

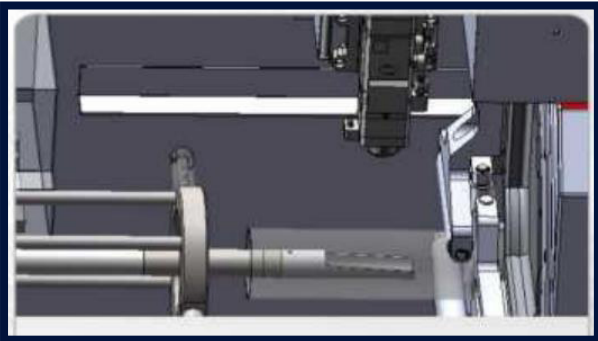
Floating support specially designed for cutting long finished workpieces.



## OPTIONAL EXTRAS



**KEYENCE VISUAL WELDING SEAM  
DETECTION**



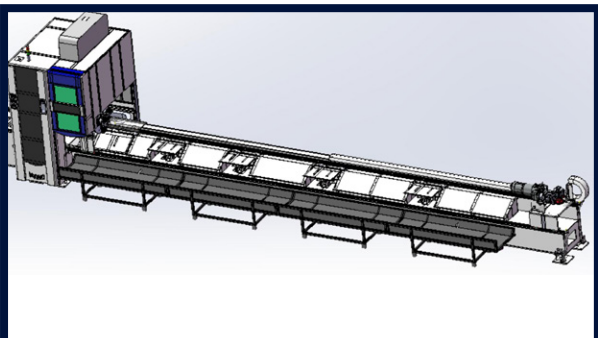
**AUTOMATICAL DESLAGGING**



**3D BEVEL CUTTING (+45°)**



**MES PRODUCTION MONITOR  
SOFTWARE**



**C3 CHUCK**

## CUTTING CAPACITIES

LASER SOURCE	kW	1.5	2.5	3	4	6
Cutting Capacity - Mild Steel	mm	14	20	22	25	25
Cutting Capacity - Stainless Steel	mm	6	10	12	12	20
Cutting Capacity - Aluminium	mm	5	8	10	12	16
Cutting Capacity - Brass	mm	5	8	8	12	14
Cutting Capacity - Copper	mm	4	6	6	6	10
Cutting Capacity - Galvanised Steel	mm	5	6	8	10	14

## KEY COMPONENTS

COMPONENT	BRAND
Fibre Laser Source	Max Photonics
CNC Controller	Power Automation Higerman
CAM/CAD software Flex3D	Lantek
Servo motor and driver	Yaskawa
Rack and Pinion	YYC / J & T
Linear Guide	Hiwin
Laser Head	Raytools
Gas Proportional Valve	SMC
Reduction Gear Box	Innowelle
Chiller	Tong Fei
Rotate Chuck System	RVD
Automatic Support	RVD
Automatic Bundle Loader	RVD
Automatic Unloading	RVD
Electrical Components	Schneider
Welding Seam Visual Detection (Optional)	Keyence
C3 Chuck (Optional)	RVD

## TECHNICAL SPECIFICATIONS

TABLE STOCK CODE		TF6025 / TF6025A		TF8025 / TF8025A		TF6035 / TF6035A		TF8035 / TF8035A	
Laser Power	kW	1.5 / 2 / 3 / 4 / 6							
Tube Length	mm	6,000		8,000		6,000		8,000	
Tube Diameter	mm	Round Ø : 20 - 235 Square : 20 x 20 - 235 x 235				Round Ø : 20 - 350 Square : 20 x 20 - 245 x 245			
Cutting Profiles (Standard)		Round, Square, Rectangular							
Cutting Profiles (Optional)		Angle, Channel, H-Shape, L-Shape, Steel Band, etc							
Weight of Single Tube	kg	250				530			
Positioning Speed	m/min	120				72			
Chuck Rotation Speed	rpm	130				75			
Axis Acceleration	G	1.2				0.6			
Positioning Accuracy	mm	±0.05				±0.05			
Repeat Positioning Accuracy	mm	±0.03				±0.03			
Length	mm	12,070		13,400		12,070		13,400	
Width	mm	2,700				2,700			
Width (with Optional Magazine Loader)	mm	5,000				5,000			
Height	mm	2,300				2,300			
Weight	kg	8,000				9,000			
Weight (with Optional Magazine Loader)	kg	15,000				17,000			
OPTIONAL BUNDLE LOADING SYSTEM									
Bundle Size (Optional Bundle Loader)	mm	800 x 800 x 800				800 x 800 x 800			
Bundle Loading Weight	kg	2,500				2,500			









