

RVD SmartFibre TF 6020/1000 CNC



The RVD SmartFibre TF tube laser cutting machines are an excellent solution for laser cutting with a vast variety of tubular profiles and other sections of various lengths, diameters, materials and wall thicknesses. For the ultimate productivity these machines can be fitted with an automatic loading system for processing of bundles of up to 2500kg. Driven by powerful Lantek Flex3d processing and nesting software, developed specifically for tube cutting, these machines can produce intricate components in a variety of profiles, including round, square, oval and flat sided oval. An optional Lantek module is also available for processing flat bar and open sided parts such as angles and channels. These models are specified with class leading components including a RayTools auto focus cutting head, Yasakawa drives and nLIGHT laser sources in power ratings from 1000W to 6000W.



Features

- High performance nLIGHT fibre laser technology
- Raytools high performance torch with crash protection system
- Automatic height sensor to ensure optimum cutting efficiency
- Fully enclosed cutting area
- Self centring pneumatic clamping chuck in highly stable cast iron frame
- Self centring pneumatic feeding chuck
- Automatic infeed support system
- Automatic outfeed support and unloading system
- Laser chiller unit
- Class leading brand components
 - nLIGHT laser source – US
 - Raytools auto focus cutting head – Switzerland
 - Power Automation Higerman CNC control – Germany
 - Lantek Flex3d CAD/CAM software – Spain
 - Schneider electrics – France
 - Atlanta rack and pinion - Germany
 - Hiwin linear guides – Taiwan

Technical Specification

Maximum Tube Length	mm	6000
Tube Diameter Range	mm	10 - 200
Positioning Speed	m/min	90
Axis Acceleration	G	1.2
Positioning Accuracy	mm	±0.05
Repeatability	mm	±0.03
Laser Power	kW	1.0
Cutting Capacity:		
Mild Steel	mm	12
Stainless Steel	mm	5
Aluminium	mm	4
Brass	mm	4
Copper	mm	3
Galvanised Mild Steel	mm	3
Motor Power - Machine	kW	18
Motor Power - Optional Magazine Loading System	kW	8
Motor Power - Optional Extraction/Filtration System	kW	5.5
Length	mm	12070
Width	mm	2700
Width (with Optional Magazine Loading System)	mm	5000
Height	mm	2300
Weight	kg	8000
Weight (with Optional Magazine Loading System)	kg	15000

Options

- Magazine loading system
- Welding seam detection system
- Lantek module for open profiles e.g. angle, channel, flats
- Extraction/filtration system