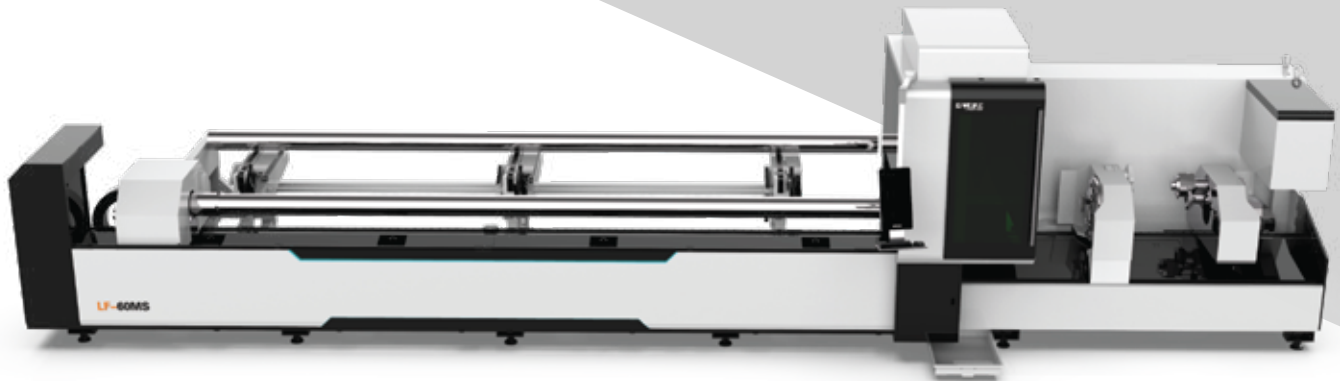


LF60MS 3-CHUCK TUBE FIBER

Tube Fiber Laser - with Fast 3-Chuck Cutting System

FROM \$187,900+GST



Power : 1kW, 1.5kW, 2kW, 3kW, 4kW, 6kW

Tube (L): 6m (standard), 9m and 12m available

Tube (Dia.): 20-240mm (standard)

20-280, 20-360mm chuck available

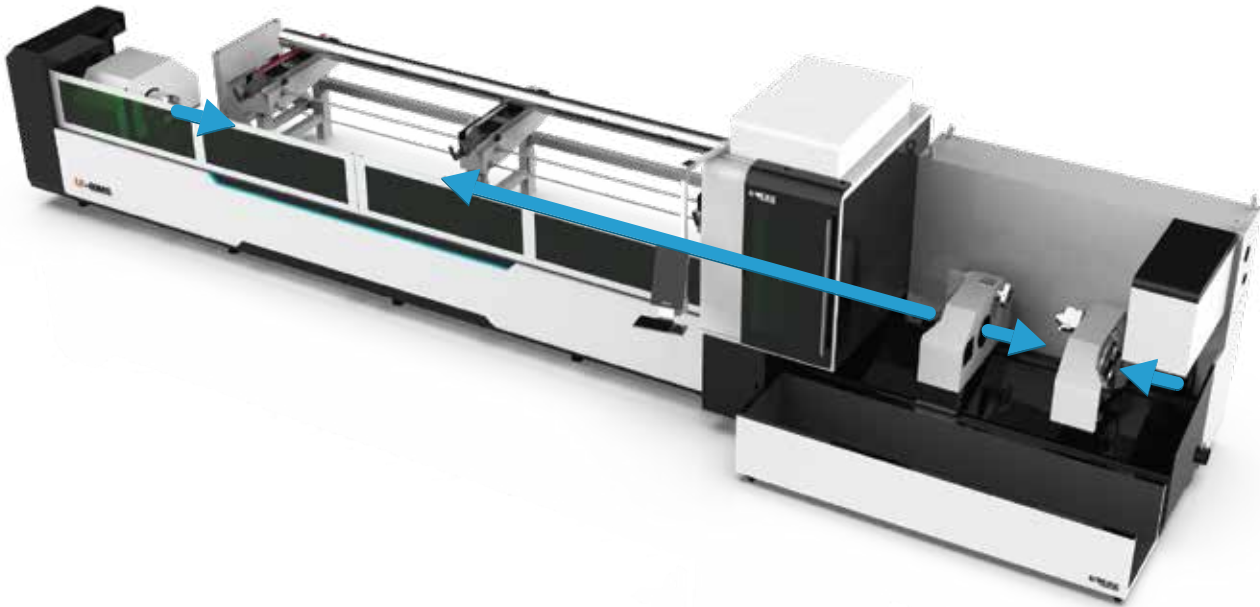
Laser source : MAX, Raycus or IPG

“The LF60MS is our 3-chuck tube cutting machine. The 3-chuck system allows for faster movement of the tube, better support over the length of the tube when working with heavier sections, allowing for zero-remains, meaning there is no piece wasted in the cutting process and no waste piece at the end. The LF60MS version can also be combined with the LF60MA to create the LFF60MAS model, with both 3-chuck assembly and automatic loading/unloading system.”

FEATURES:

- Up to 7m tube stock with model LF60MA (10m stock length with 9m model - LF90M)
- Zero remains - no end or waste piece required
- Automatic unloading - dropping the tube into a collection bin
- Dual electronic tube clamping- no manual chuck adjustment
- Clamping range 20-240mm standard (20-280mm Chuck or 20-360mm chuck upgrade available)
- Fractional automatic supports along the length of the machine to avoid deformation during cutting (servo-controlled option available for longer weaker profiles such as bar and angle iron)
- Cypcut controller using TubesT Pro professional tube cutting and design software - allowing for all closed and open tube profiles, custom profile design, 3D cut design, array/nesting etc.
- Cypcut 5000 control system with BCS100 Automatic material tracking system track the capacitance anomalies to predict an avoid collisions and controls the tube support height electronically to improve cutting quality and precision
- BOCI or Raytools precision automatic focussing laser head with fine 3D tip (5-axis options available)
- Large Portrait style monitor screen with wireless controller
- TBI Ball screw drive system, Panasonic Servo motors
- Hiwin guide rails and automatic lubrication system
- Electronic regulators for all gas connections O₂, N₂ and compressed air, allowing for fully software-controlled pressure





“3-chuck clamping system where the centre chuck can move from the left to the right side of the laser head, allowing the supporting chuck to move during the cutting process, allowing you to cut back-to-front and re-position the piece, therefore allow for zero-waste cutting. The third chuck is also providing much needed support to the tube allowing for higher quality cutting and precision.”

Technical Parameters	Specification
Laser Power	1kW, 1.5kW, 2kW, 3kW, 4kW, 6kW
Tube Length	LF60MS - 6m Standard model – up to 7m tube length (100mm min end piece) LF90MS - 9m model – up to 10mm tube length (100mm min end piece) LF120MS - 12m model – up to 12.5mm tube length (100mm min end piece)
Clamp Diameter	20-240mm diameter (20-280, 20-360 upgrade available)
Tube weight capacity	240mm chuck = 500kg, 280mm chuck = 400kg, 360mm chuck = 500kg
Outfeed table	3m as standard (extendable options in 1.5 or 3m lengths)
Machine Size	LF60MS - 11900mm*1880mm*2260m LF90MS - 14900mm*1880mm*2260m LF120MS - 17900mm*1880mm*2260m
Laser source type	MAX, Raycus or IPG
Laser Head Type	Automatic focussing laser head with “3D” fine tip 1-2kW = Raytools BM111 3kW = BOCI BLT421 4-6kW = BOCI BLT441 (5 axis head options available – Raytools/BOCI or German LT)
Cooling Type	Industrial Water Cooling – S&A water chiller
Moving Speed	30m/min
Acceleration	1.5G
Laser Output Control	0-100% set by software
Drive method	TBI ball screen drive, Panasonic servo motor control with Hiwin guide rails
Positioning Accuracy	0.03 mm
Re-positioning accuracy	0.02mm
Minimum line width	0.1mm
Controlling Software	Cyput Control System 5000 – sheet cutting, TubesT lite (standard) or TubesT Pro upgrade - tube
Graphic Format Supported	Graphics files - Ai, DXF, PLT, Gerber, G code – MaterCam, Type3, Wentai etc.
Compatible Software	Illustrator, photoshop, CorelDraw, Autocad, Solidworks, MaterCam, Type3, Wentai etc.
Colour Separation	Yes (imports colours to control cutting layers)
Auxiliary Equipment	Exhaust Fan, Industrial water-cooling unit
Power Supply	Machine: 1kW = 415V 50Hz 20amp 1.5kW = 415V 50Hz 32amp 2kW = 415V 50Hz 50amp 3kW = 415V 50Hz 50amp 4kW = 415V 50Hz 60amp 6kW = 415V 50Hz 63amp
Gas Regulation	Software controlled electronic low- pressure O2 regulator (for fine adjustment at low pressure) And high pressure N2 and Compressed air electronic regulator (high pressure cutting)
Gas connection	O2 (mild steel and copper cutting) – 4 pack min Min 99.7% purity – 10m3/h maximum flow rate – 10bar max pressure N2 (Stainless, Aluminium, Brass and thin Mild steel cutting) – 9 pack min Min 99.9% purity – 40m3/h maximum flow rate – 24bar max pressure Compressed air (Stainless, Aluminium, Brass and thin Mild steel cutting) SEE OUR 18DHY-18Bar or 20DHY-20Bar COMPRESSOR OPTIONS
Working Environment	Temperature:0-45C, Humidity 5-95% (No Condensate Water)