FROM \$114,300+G57

LF60M TUBE FIBER

Tube Fiber Laser - Manual Loading

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



"The LF60M is our manual loading tube cutting machine. With quick pneumatic clamping design the machine will clamp down onto any diameter from 20-240mm as standard (or 20-360mm with chuck upgrade) without the need to change or adjust the clamping chuck. Fractional automatic supports keep the tube perfectly supported along the length while cutting and the enclosure surrounding the cutting head provide protection for the operator."

FEATURES:

- Up to 7m tube stock with model LF60M (10m stock length LF90M, 12.5m stock length with LF120M)
- Small end piece requirement 100mm
- Dual electronic tube clamping and alignment no manual chuck adjustment required
- 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 and 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
- Automatic lubrication system
- Electronic regulators for all gas connections O2, N2 and compressed air, allowing for fully software controlled pressure





















Technical Parameters	Specification
Laser Power	1kW, 1.5kW, 2kW, 3kW, 4kW, 6kW
Tube Length	LF60M - 6m Standard model – up to 7m tube length (100mm min end piece)
	LF90M - 9m model – up to 10m tube length (100mm min end piece)
	LF90M - 9m model – up to 12.5m tube length (100mm min end piece)
Minimum waste stock length	100mm
Clamp Diameter	20-240mm standard (20-280mm Chuck or 20-360mm chuck 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	LF60M - 12450mm*19190mm *2515m (including collection draw)
	LF90M - 15454mm*19190mm*2515m (including collection draw)
	LF120M - 15454mm*19190mm*2515m (including collection draw)
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	Cypcut 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 3kW = 415V 50Hz 50amp
	1.5kW = 415V 50Hz 32amp
	2kW = 415V 50Hz 50amp 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)