

FT-150 FIBER

Mazak

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Wide variety of functions for high-speed and high-quality cutting

Just load material into loading station, and material handling, laser cutting and unloading of finished workpieces are all performed automatically.

Higher speed cutting

- Fiber laser realizes higher speed feedrates
- High-speed acceleration and accuracy functions for small diameter material
- Fast chuck indexing and high-speed feedrate
- Reduced time required for piercing

Higher productivity

- Large capacity bundle loader enables continuous operation over extended periods of time
- Unloader automatically unloads finished workpieces
- Auto-profiler calibration, nozzle cleaning, and other automatic functions



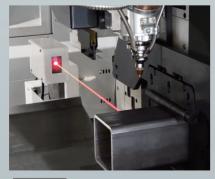
Automatic unloading of finished workpieces

Unloaded parts can be unloaded on belt conveyor (option) with sorting functions for higher productivity

High accuracy cutting



The support units prevent long material from sagging from their own weight to ensure high speed cutting with high accuracy.



OPTION

Measures the OD of pipe material and automatically compensates for material distortion detected on the machine to determine the to ensure high precision positioning.



OPTION

The weld seam of pipe material can be required radial position for cutting.

Designed for high efficiency

Loading and unloading of material and finished workpieces are performed at the machine front to minimize the distance that has to be moved by the operator.



High quality cutting



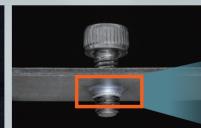
The laser head B-axis provides the ability to perform high accuracy bevel cutting.



The bundle stocker / lifter ensures only one piece of pipe

material is loaded at a time - other material shapes are loaded manually.





In addition to tapping holes, the optional rotary-tool spindle unit can also perform thermal drilling.







The internal spatter guard prevents spatter from adhering and laser burning to the internal workpiece surface.

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Designed for safe operation

Fully enclosed cover

The enclosed cover, which covers not only the entire cutting area but also the internal loading / unloading area, protects operators from the laser beam.

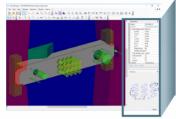
The top cover of loading area is open to check chuck and workpiece.



CAD/CAM, CNC program

Pattern input

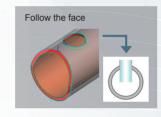
The parametric pattern menu is prepared for easier model generation.

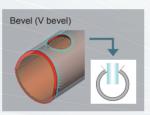




High versatility

NC programs for cutting holes can be made with the wall surfaces parallel or beveled.





Convenient input of production schedule

Scheduling

Production schedule can be created by utilizing nesting programs generated by Mazak software.



Pipe machining program made by FX TUBE CAD / CAM

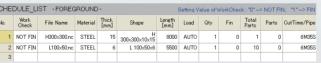








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Continuous operation by schedule

QR code reader OPTION

The FX TUBE 3D CAD / CAM system can print out a QR code* that contains a cutting program name. When this QR code is scanned at the CNC, the program will be automatically called up from the CNC memory and by pressing the cycle start button, cutting will

start. This function can reduce the time spent searching for cutting programs as well as preventing operator error. (*QR code is a registered trademark of DENSO WAVE INCORPORATED.)





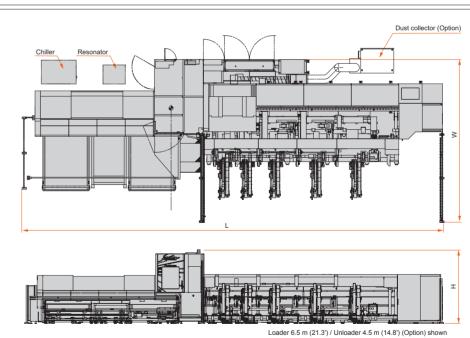


Machine specifications

		FT-150 FIBER							
Model		6.5 m / 3 m (21.3' / 9.8')	6.5 m / 4.5 m (21.3' / 14.8') Option	6.5 m / 6.5 m (21.3' / 21.3') Option	8 m / 3 m (26.2' / 9.8') Option	8 m / 4.5 m (26.2' / 14.8') Option	8 m / 6.5 m (26.2' / 21.3') Option		
Workpiece shape*1		round, square, rectangle pipe							
Workpiece material		mild steel, stainless, copper, brass, aluminum							
Workpiece diameter	Round pipe	Φ20 mm - Φ152.4 mm (Φ0.79" ~ Φ6.0")							
	Square pipe	20 mm × 20 mm - 125 mm × 125 mm (0.79" × 0.79" ~ 4.92" × 4.92")							
Max. material length for loading		6500 mm (255.91")		8000 mm (314.96")					
Min. material length for loading		2500 mm, 1500 mm (98.43", 59.06") Option							
Max. material length for unloading		3000 mm (118.11")	4500 mm (177.17")	6500 mm (255.91")	3000 mm (118.11")	4500 mm (177.17")	6500 mm (255.91")		
Max. workpiece weight		25kg/m (16 lbs/ft)							
Max. total weight capacity of bundle loader		4000 kg (8818 lbs)							
Machine weight		24000 kg (52910 lbs)	25000 kg (55115 lbs)	26500 kg (58422 lbs)	26000 kg (57319 lbs)	27000 kg (59524 lbs)	28500 kg (62831 lbs)		
Resonator		3.0 kW							
Electrical power consumption*2	Max. electrical power consumption	43 kW/h							
	Consumption at stand-by	18 kW/h							
Sound*3	_	Less than 80 dB (A)							

^{*1} Other material shapes are loaded manually.

Floor space



FT-150 FIBER Model 14400 mm (566.93") | 15600 mm (614.17") | 17600 mm (692.91") | 16100 mm (633.86") | 17300 mm (681.10") | 19300 mm (759.84") 6000 mm (236.22") W 2800 mm (110.24")

*Standard specifications may vary by marke

^{±3} Equivalent continuous sound pressure level at operator position (dependent on equipment options)