Mazak

FT-150 FIBER





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



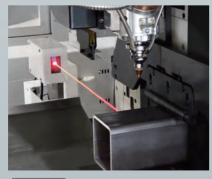
Automatic unloading of finished workpieces

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.



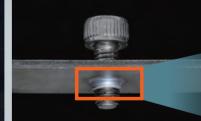
High quality cutting



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







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.

Unit: mm (in)

Designed for safe operation

Fully enclosed cover

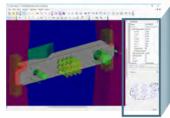
The enclosed cover, which covers not only the entire cutting area but also the internal loading / unloading area, protects operators from the laser beam. The enclosed cover can be automatically opened and closed for chuck jaw adjustment, maintenance and cleaning.

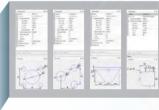


CAD/CAM, CNC program

Pattern input

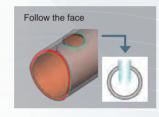
The parametric pattern menu is prepared for easier model generation.

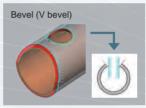




High versatility

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.



Program made by FX TUBE CAM







SCH	SCHEDULE_LIST -FOREGROUND- Setting Value of WorkCheck: "0"-> NOT FIN, "1"-> FIN									V, "1"→> FIN			
No.		Work Check	File Name	Material	Thick. [mm]	Shape	Length [mm]	Load	Qty	Fin	Total Parts	Parts	CutTime/Pipe
.0	1	NOT FIN	H300x300.nc	STEEL	15	300x300x10x15	8000	AUTO	1	0	1	0	6M35S
	2	NOT FIN	L100x50.nc	STEEL	6	L 100x50x6	5500	AUTO	1	0	10	0	6M35S
*	3												

Continuous operation by schedule

QR code reader (option) OPTION

The FX TUBE software 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.)





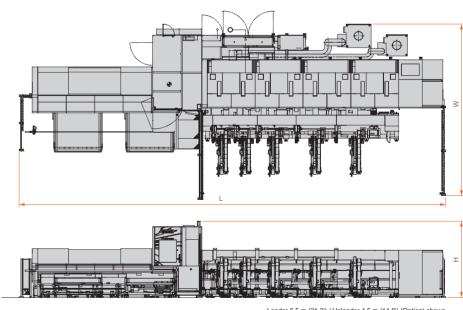


Machine specifications

					m (ft.)			
		FT-150 FIBER						
Model		6.5 m / 3 m (21.3' / 9.8')	6.5 m / 4.5 m (21.3' / 14.8')Option	8 m / 3 m (26.2' / 9.8') Option	8 m / 4.5 m (26.2' / 14.8') Option			
Workpiece shape*1			round, square,	rectangle pipe				
Workpiece material			mild steel, stainless, co	opper, brass, aluminum				
Workpiece diameter round pipe		Φ20 mm ~ Φ152.4 mm (Φ 0.79" ~ Φ 6.0")						
	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")	6500 mm (255.91")	8000 mm (314.96")	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")	3000 mm (118.11")	4500 mm (177.17")			
Max. workpiece weight		25 kg/m (55 lbs/39.37')						
Max. total weight capacity of bundle loader		4000 kg (8818 lbs)						
Machine weight		23000 kg (50705 lbs)	24000 kg (52910 lbs)	25000 kg (55115 lbs)	26000 kg (57319 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 spare



Loader 6.5 m (21.3') / Unloader 4.5 m (14.8') (Option) shown

		FT-150 FIBER					
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Length	L	14400 (566.93")	15600 (614.17")	16100 (633.86")	17300 (681.10")		
	W	6000 (236.22")					
	н	2800 (110.24")					

^{*}Standard specifications may vary by market.

^{*2} Power consumption is reference value. Dust collector not included (option).

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



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