Machine specifications					
		SUPER TURBO-X 2412	SUPER TURBO-X 3015	SUPER TURBO-X 4020	
Max. workpiece size		1250×2500 mm (49.21"×98.43")	1525×3050 mm (60.04"×120.08")	2000×4000 mm (78.74"×157.48")	
Work table height		900 mm (35.43")			
Axis stroke	X-axis	2520 mm (99.21")	3070 mm (120.87")	4020 mm (158.27")	
	Y-axis	1270 mm (50.0")	1545 mm (60.83")	2020 mm (79.53")	
	Z-axis		90 mm (3.54")		
Rapid traverse rate		X, Y: 50 m/min (1969 IPM)	X, Y: 50 m/min (1969 IPM)	X, Y: 36 m/min (1417 IPM)	
		Z: 25 m/min (984 IPM)			
Max. cutting feedrate		50 m/min (1969 IPM)	50 m/min (1969 IPM)	36 m/min (1417 IPM)	
Positioning accuracy		±0.01 mm/500 mm (±0.0004"/19.69" mm)(X,Y-axes)			
		±0.01 mm/100 mm (±0.0004"/3.94" mm)(X,Y, Z-axes)			
Repeatability		±0.005 mm (±0.0002") (X,Y, Z-axes)			
Machine weight		11000 kg (24251 lbs)	12700 kg (27999 lbs)	20700 kg (45636 lbs)	
Total electrical requirement(kVA)*			47 kVA(2.5 kW)	66 kVA(4.0 kW)	
Machine dimensions		2600 mm×6700 mm (102.36"×263.78")	2900 mm×7400 mm (114.17"×291.34")	3400 mm×9300 mm (133.86"×366.14")	
Sound*2		Less than 80 db (A)			

^{*} Without dust collector and compressor

^{*2} Equivalent continuous sound pressure level at operator position (depend on equipment options)

Laser Oscillator Specifications				
Resonator type	2.5kW, 4.0kW			
Laser Gases Mixed	He, N ₂ and CO ₂			
*Gas consumption rate	10L/h (2.5kW), 15L/h (4.0kW)			
*\^/				

^{*}When continuous operation

CNC Standard specifications				
	MAZATROL PREVIEW 3			
CPU	64 bit			
Control method	Preview control			
Minimum program increment unit	0.001 mm(0.0001")			
Programming method	Intelligent program system and			
	EIA/ISO			
Display	15" color LCD (TFT)			

S	Standard Equipment / Optional Equipment		
	Intelligent nozzle changer		
	Intelligent auto focal distance measurement & adjustment		
	Automatic nozzle cleaner		
	Auto profiler function		
	Intelligent monitoring system		
	Work lifter		
	Assist gas pressure NC function		
	Workpiece clamps & locator		
	Assist gas changer		
Standard	rd Side air blast		
Equipment	Scrap conveyor		
	Mazak high accuracy nozzles ø1.2mm, ø2.0mm, ø3.0mm (one of each)		
	Mazak high accuracy nozzles adapter (3)		
	7.5" servo focus torch without lens (1)		
	7.5" Mazak high accuracy lens (2.0 Mpa) (1)		
	Non-contact profiling unit with retry function		
	Preparation for dust collector		
	Auto power off		
	Auto open/close protective cover (Class 1)		
	Blue flame nozzle		
	5" Servo focus torch		
	5" Mazak high accuracy lens (Supply pressure : 2.5 Mpa)		
Optional	Two pallet changer		
equipment	Mazak high accuracy nozzles ø1.2, ø1.5, ø2.0, ø2.5, ø3.0, ø3.5, ø4.0mm		
	4th assist gas piping (Supply pressure: 3.0 Mpa)		
	Dust collector		

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- Specifications are subject to change without notice.
- This product is subject to all applicable export control laws and regulations.
- The accuracy data and other data presented in this catalogue were obtained under specific conditions.
- They may not be duplicated under different conditions. (room temperature, workpiece materials, tool material, cutting conditions, etc.)



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SUPE



















2412 3015 4020





High-precision, CO₂ laser cutting machine SUPER TURBO-X 2412,3015,4020



Table Feed System

Designed for excellent table access, ease of operation, and convenient processing of a wide variety of workpieces in small size lots

MAZATROL PREVIEW 3 CNC

Unsurpassed speed of operation is ensured by advanced hardware



Rapid traverse is faster than conventional machines

SUPER TURBO-X 2412 50 m

SUPER TURBO-X 3015

50 m

SUPER TURBO-X 4020

*The value of X-, Y-axes

36 m

Intelligent functions for reduced setup time

High-productivity is ensured by automation in adjusting, changing, and measuring of tools and materials

Automation function supports the setup

- Nozzle changer
- Auto focal distance measurement & adjustment
- Automatic nozzle cleaning
- Auto profiler function

Enhance productivity by reducing setup time

- Servo positioning system for optimum positioning
- Piercing Sensor for reduced time required



Intelligent functions for detecting the defects

- Burning Sensor
- Plasma Sensor



Constant-beam length system

Stable production is realized thanks to the constant-beam length that provides uniform cutting performance anywhere on the table

Work lifter

High positioning accuracy and ease of loading/unloading for a heavy weight material is ensured.

A flaw on backside of a stainless material can be reduced



Totally enclosed cover (class 4 cover)

The total machine cover, which covers the entire processing area, protects operators from the laser beam and cutting spatter. The large front door and side door provides convenient worktable access to the operator

Unmanned operation system ensures higher productivity



02