

R500 – Technical Specifications



Mechanics	
Working area	51.18 x 35.43 inches (1300 mm x 900 mm)
Loading area	55.12 x 45.28 inches (1400 mm x 1150 mm)
Work piece table	Aluminum cutting grid table Manual Z-axis on laser head, max. Z-height 30 mm (1.18 inches)
Max. engraving speed	1 m/sec. (39.37 in/sec.)
Acceleration	393 in/sec ² (10m/s ²)
Max. cutting speed	19.68 in/sec. (0.5 m/sec.)
Motor	Stepper motors
Optical elements	lens air-flushed for soil-protection
Lens	2.0"
Max. material load	Max. 77 lb (35 kg)
Software	Rayjet® Manager printer driver, Rayjet® Manager laser software Compatible with standard graphic and CAD software like Corel Draw, and Adobe Illustrator
Features standard	
Features standard	kill- and key switch, LED light, manual Z-axis on laser head, power potentiometer for machine control panel, air cooled optics, laser pointer (655nm, <0,99mWcw), coaxial air assist (without pump), 2.0" lens, air-assist nozzles (Ø3mm and Ø7 mm), aluminum cutting grid table, sealed CO ₂ DC laser source water-cooled integrated, water chiller, laser class 2, CE certification
Options	
Optional features	External pump for air assist, aluminum slat cutting table, 4.0" lens, exhaust system
Control System	
Laser power	Adjustable from 0-100%
Hardware interface	USB 2.0
Laser Equipment	
Laser source	Sealed CO ₂ DC laser source water-cooled Laser power: 100 W

Water chiller	16 l/min
Dimensions & weight	
Machine dimensions (Width x Depth x Height)	73.62 x 66.93 x 43.7 inches (1870 mm x 1700 mm x 1110 mm)
Weight	Approx. 1257 lb (570 kg)
Ambient conditions	Mandatory ambient temperature 59° to 77° F or +15° to +25° C Humidity 40% to max. 70%, not condensing Dust free environment (2 nd degree according to IEC 60947-1)
Laser Safety	
Laser class	CDRH Laser Safety Laser Class 2 CE compliant
Interlock	Double interlock safety system
Exhaust	
	cabinet exhaust, table exhaust Ports: 2 x 150 mm (5.9 in) outer diameter External ventilator (optional)
Electrical Equipment	
Power consumption laser	100V – 250V 1100 - 1500W
Power consumption chiller	900 W

Subject to change without notice.
Errors and omissions reserved.
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