

Q500DU – Technical Specifications

Mechanics

Working area	1300 mm x 900 mm (51.18 x 35.43 inches)
Loading area	1400 mm x 1150 mm (55.12 x 45.28 inches)
Working piece table	Aluminum cutting grid table Manual Z-axis on laser head, max. Z-height 45 mm (1.77 inches)
Max. Z-height	45 mm (1.77 inches)
Max. engraving speed	2 m/sec. (78.74 in/sec.)
Acceleration	15m/s ² (590 in/sec ²)
Max. cutting speed	0.7 m/sec. (27.56 in/sec.)
Motor	Servo motors
Optical elements	lens air-flushed for soil-protection
Lens	2.0"
Max. material load	Max. 35 kg
Software	JobControl® Expert printer driver, JobControl® Expert laser software Compatible with standard graphic and CAD software like Corel Draw, Adobe Illustrator, ...

Feature standard

Feature standard	OptiMotion™, InPack Technology™, kill and key switch, LED light, manual Z-axis on laser head, air cooled optics, 2.0" lens, laserpointer (655nm, <0,99mWcw), coaxial air assist incl. integrated pump, air-assist nozzles (Ø3mm and Ø7 mm), aluminum cutting grid table, sealed-off CO2 DC laser source water-cooled AND sealed-off CO2 RF CeramiCore® laser source water-cooled, water chiller, laser class 2, CE certification
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Options

Optional features	JobControl® Vision, aluminum slat cutting table, 4.0" lens, exhaust system, external variable power meter via RJ45-connection
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Control System

Laser power	Adjustable from 0-100%
Hardware interface	USB 2.0

Laser Equipment

Laser source	Sealed-off CO2 DC laser source water-cooled Laser power: 100 W/ 120 W AND sealed-off CO2 RF CeramiCore® laser source water-cooled Laser power: 60 W
Water chiller	70 l/min

Dimensions & weight

Machine dimensions	Width x Depth x Height 1870 mm x 1655 mm x 1110 mm (73.62 x 65.16 x 43.7 inches)
Weight	Approx. 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 (2nd 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)
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Electrical Equipment

Power consumption laser	100 – 250V, 1100 - 1500W
Power consumption chiller	1800W

Subject to change without notice. Errors and omissions reserved.
Laser identification Q500DU-8057
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