

## R400 – Technical Specifications



### Mechanics

|                      |  |
|----------------------|--|
| Working area         | 40.55 x 24.8 inches (1030 mm x 630 mm)   |
| Loading area         | 44.45 x 27.17 inches (1130 mm x 690 mm)  |
| Work piece table     | Aluminum cutting grid table<br>Software controlled Z-axis; max. Z-height 200 mm (7.87 inches)  |
| Z-height             | 7.87 inches (200 mm)   |
| Max. engraving speed | 39.37 in/sec. (1 m/sec.)   |
| Acceleration         | 393 in/sec <sup>2</sup> (10m/s <sup>2</sup> )  |
| 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. 20 kg   |
| Software             | Rayjet® Manager printer driver, Rayjet® Manager laser software<br>Compatible with standard graphic and CAD software like Corel Draw, Adobe Illustrator, and more |

### Features standard

|                   |  |
|-------------------|--|
| Features standard | RayPack Technology™, kill and key switch, LED light, electrical Z-axis, 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 <sub>2</sub> DC laser source water-cooled integrated, water chiller, laser class 2, CE certification |
|-------------------|--|

### Options

|                   |   |
|-------------------|---|
| Optional features | Rotary attachment, 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 <sub>2</sub> DC laser source water-cooled<br>Laser power: 100 W |
| Water chiller | 16 l/min  |

Dimensions & weight

Machine dimensions (Width x Depth x Height) 61.02 x 42.52 x 42.52 inches (1550 mm x 1080 mm x 1080 mm)

Weight Approx. 662 lb (300 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<sup>nd</sup> degree according to IEC 60947-1)

Laser Safety

Laser class CDRH Laser Safety  
 Laser Class 2  
 CE compliant  
 Interlock Double interlock safety system

Exhaust

Adjustable cabinet exhaust, adjustable table exhaust  
 Ports: 5.9 in (2 x 150 mm) outer diameter  
 External ventilator (optional)

Electrical Equipment

Power consumption laser 100 – 250V, 1200 W  
 Power consumption chiller 900 W

Subject to change without notice.  
 Errors and omissions reserved.  
 August 2022