

Front & two sides open

- **G8** is a state of the art engraving & marking laser system dedicated to metallic and thermoplastic materials, G8 is completely designed and manufactured by the leading Italian laser company SEI Laser: all G8 components (laser source, optics, mechanics, electronics and software) have been designed by SEI Laser to achieve the highest performances available on the market for this range of products today.
- The **G8** features a full width front opening cover providing excellent access to the 450x450 mm working area enabling quick/easy loading & unloading operations. Additional access is also provided by two hinged side panels for even greater accessibility for marking larger pieces/components. The Z axis has an automatic 300 mm

stroke programmable via the Icaro software. This feature enables the **G8** to process a wide range of sizes and shapes, even fields greater than the work area can be processed. Another remarkable feature of the G8 system is represented by the presence of a "dynamic beam expander", this enables the laser spot size to be driven dynamically adjusting the spot size of the laser via software, producing high quality engraving/marking even on items with different surfaces heights.

- **G8**, the right solution for small craft companies up to larger industry/manufacturing companies.
- The **G8** is a Class 1 product and as such complies with the following strict International standards (CE, CDRH, IEC 825-1).



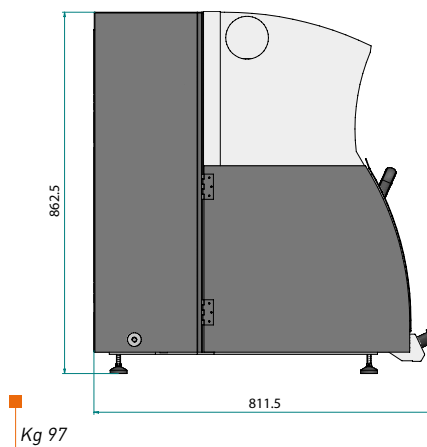
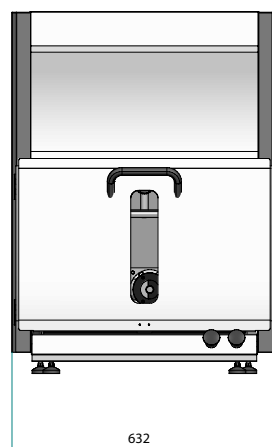
### Main technical features

Model	G8 Laser <sup>3</sup> 12 W	G8 Laser <sup>3</sup> 20 W
Wavelength (nm)	1064	
Max. Power (W)	> 12	> 22
Max. Frequency (kHz)	0-100	
Max. Peak power (kW)	140	200
Max. Pulse energy (mJ)	0.8	1.6
Laser beam quality M <sup>2</sup>	> 1.5	
Spot diameter (µm)	25-90	
Cooling	Air	
Working area (mm)	F-Theta 100 = 60 x 60 F-Theta 163 = 110 x 110 F-Theta 254 = 180 x 180	
Dynamic focus shifting (mm)	F-Theta 100 = 20 F-Theta 163 = 50 F-Theta 254 = 120	
Power supply	900 W 230 V 50-60 Hz	
Norm compliance	2006/95/CE Low Voltage Directive 2006/42/CE Machinery Directive 2004/108/CE Electromagnetic Compatibility Directive IEC EN 60825-1 Laser	



### General features and available options:

- Desk equipment with high steadiness and compact size.
- Hi-end engraving quality tank to the smaller spot size available <25 µm (f100).
- Dynamic Beam expander (dynamically shifts the focus spot) for marking objects with uneven surfaces. It optimizes positioning and marking times.
- Up to 1.6 mJ pulse Energy peak and peak power 200 kW (20W).
- Loading table 450x450 mm.
- Inclusive Electronic Z axis - programmable via software - vertical stroke 300 mm.
- Side doors can be opened to allow processing of non standard sized objects (only in Class 4).
- Electronic TW rotation axis programmable via software (option).
- Red diode laser pointer with marking path protection.



The product is CE marked.

Features and system requirements may change without notice.