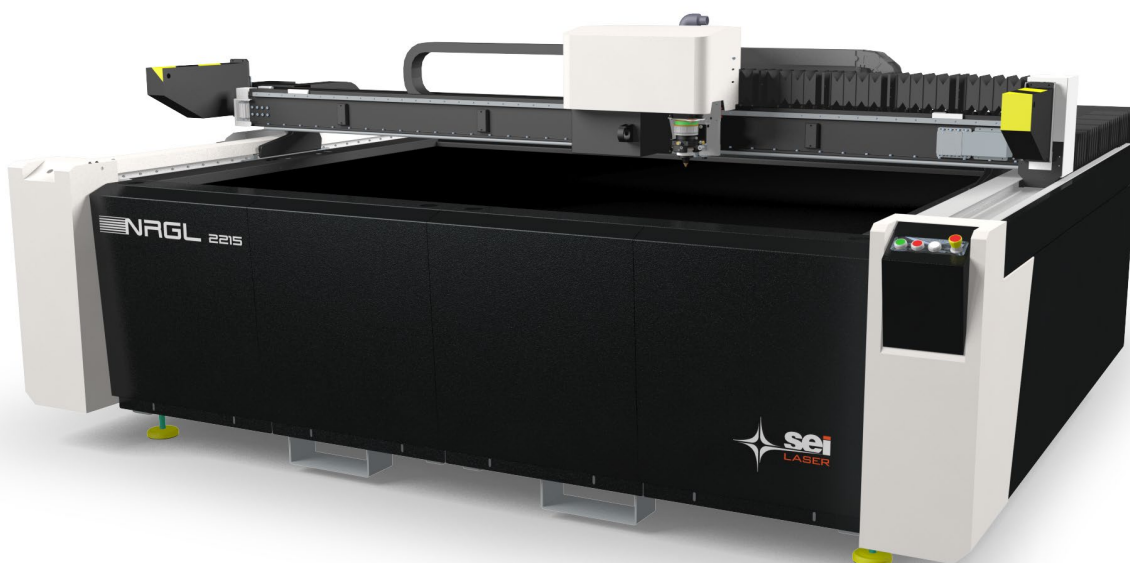




# NRGL

## Medium and large size CO<sub>2</sub> laser system for cutting, engraving and marking.

- **NRGL** is a laser system designed for cutting, engraving and marking of sheets and roll materials with maximum working area of 3200x2000 mm.
- Workable materials: paper, cardboard, genuine and fake leather, natural and artificial textiles, rubber, wood, plastics, PMMA etc...
- **NRGL** is equipped with X-Y plotter system with fixed working table and motorized Z axis.
- High dynamic performances thanks to four brushless motors for the X axis and one brushless motor for the Y axis with **SEI Laser** digital control.
- Cutting head with motorized Z axis and with proportional valve for gas pressure management for cutting and marking.
- Icaro software (cam): cutting and marking process management, advanced functions like rubber stamps creation (raster gray scale levels up to 16 bit) and 3D cut.
- Industry 4.0 ready: full digital workflow integration.



*Suction inlet on the cutting head*



*Safety optic barriers*





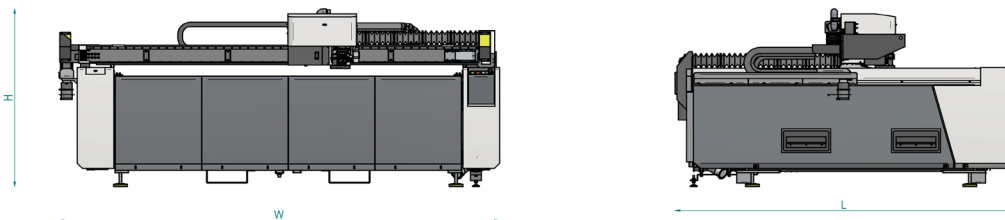
NRGL

Main technical features:

Available models	1612	2215	3215	3220
Useful working area (mm)	1600x1200	2200x1500	3200x1500	3200x2000
Laser power (W)	150-300-400			
Laser technology	Sealed CO <sub>2</sub> laser source excited by RF discharge			
Nozzle / head clearance (mm)	70 (with 5" focal unit)			
Repeatability (mm)	± 0,05			
Resolution X-Y axes (mm)	< 0,002			
Max. acceleration (m/s <sup>2</sup> )	15			
Max. vector speed (mm/s)	2000			
Max. raster speed Y axis (mm/s)	2000			
Interface software	CAM Icaro on Windows™ platform			
Vector images import	.dxf; .plt; .ai; .eps; .pdf;			
Raster graphics import	.bmp; .jpg; .tiff; .wmf; .pcd; .pnt; .pcx; etc.			
Norm compliance	2014/35/EU Low Voltage Directive			
	2006/42/CE Machinery Directive			
	2014/30/EU Electromagnetic Compatibility Directive			
	IEC EN 60825-1 Laser Safety			

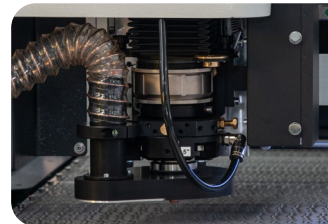
Available options that increase flexibility:

- Cutting kit with print marker recognition; CCD optics+software;
- 3D plug-in for cutting/contouring 3D surface materials (compatibility with .dxf 3D files);
- Creasing kit for cardboard and corrugated cardboard;
- Available focal units and lens holders: 3,75"; 5"; 7,5";
- Conveyor, rewinder/unwinder for textile applications;
- Prearranged fumes suction.



	1612	2215	3215	3220
W	2605 mm	3245 mm	4250 mm	4250 mm
L	2165 mm	2845 mm	2845 mm	3095 mm
H	1425 mm	1425 mm	1425 mm	1425 mm

Cutting head + CCD camera



Cutting head + Creaser

