

# GP9000

## Laser engraving machine

Precise, variable, robust and with a wide range of options, the new GP9000 sets the standards for the future.

Equipped with specific front modules, this machine meets the many requirements made of loading, access and automation integration. A thermally and mechanically highly-robust machine bed is the result of joint development work carried out with leading Swiss universities.

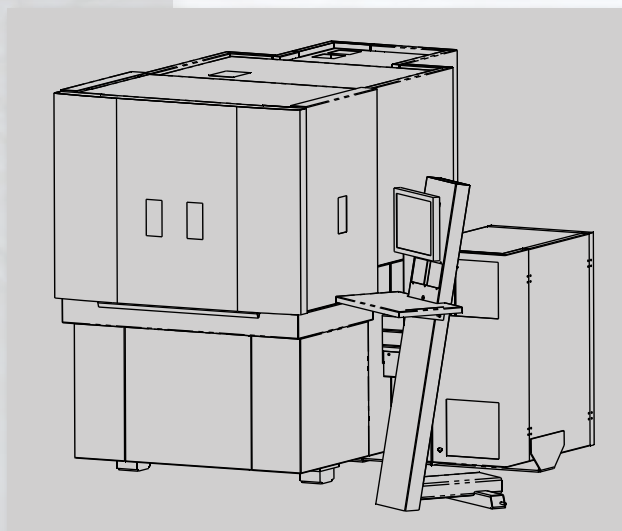
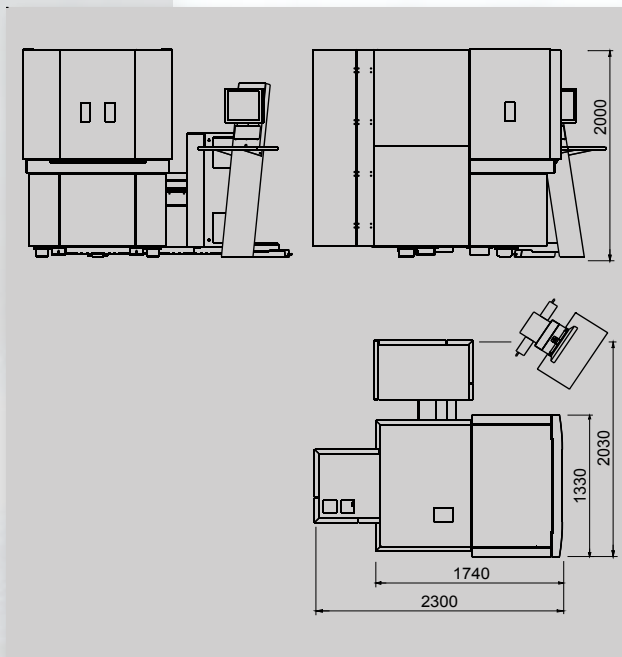
### Advantages

- Engraving of 2D/3D structures, contours and surfaces
- Laser systems with spot size of 0.015 – 0.1 mm
- Surface roughnesses of Ra = 0.5 µm possible
- For workpieces up to 400 kg



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### Machine

Load	Workpieces up to 400 kg
X-axis	up to 500 mm
Y-axis	up to 500 mm
Z-axis (focus)	up to 500 mm
Engraving field	120 x 120 mm <sup>2</sup> (f=163 mm)

### Control

AC Servomotors	with digital control system
Path control	up to 5 axes
Laser control	FOBAGRAF
Machine control	FobaEMC
Operating system	MS Windows 2000 / XP

### Laser

Laser type	1064 nm, up to 100 Watt
Output modes	Continuous wave operation (CW) Pulsed operation (QS), 0.5 - 65 kHz Mixed operation (parameterizable)

### Options

Touch probe	For setting up workpieces
Laser distance sensor	Depth measurements
Tactile probe	Depth measurements
Pointer	Adjustment aid
Turn-swivel unit	360°, +90°/-45°
Cylinder engraving unit	360°
Axle systems	Dependent on precision, workpiece weight and additional requirements

### Installation

The way the unit is set up depends on the design of the working area and the integrated laser system.

Electrical	3/N/PE, AC 400V, 50/60 Hz
Power consumption	max. 10 kVA
Cooling	Air
Temperature	15 - 40 °C
Humidity	90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing
Weight	Machine with control cabinet max. 2500 kg, Operating panel approx. 45 kg
Degree of protection	IP 54
Safety	Laser class 1