

FOBA[®]

Technology + Services

A **VIRTEK** Company



Laser systems for marking and engraving

For many years we have been supplying industry-standard systems for laser engraving. Around 10 years of development experience have resulted in a complete family of machines in which function and design combine to satisfy practical needs. The use of the most modern components guarantees the necessary precision for laser processing.

The **G 900** is the largest and most powerful machine in the G-series. Even the basic unit has 3 axes, and can be expanded to 5 axes for the most sophisticated requirements.

- Engraving of 3D structures, contours and surfaces
- Contact-free processing - no need to clamp the workpieces
- No agents which affect the environment (cooling lubricants and dielectrics)
- Software for marking, engraving, measuring and moving the axes
- Import of 2D and 3D graphics (stl/dxf/ai/plt/tif/bia and others)



Applications



Engraving and marking of tool moulds, blow moulds, mould inserts, erosion electrodes, stamping and printing dies as well as for decorative engraving and for surface improvement.

G 900

Laser engraving machine

Practical Brilliance in Lasers

G 900

Laser engraving machine

Machine

Load	Workpieces up to 400 kg
X-axis	900 mm
Y-axis	400 mm
Z-axis (focus)	500 mm
Engraving field	110 x110 mm ²
Jog Dial	Manual operation for all axes

Control

AC Servo motors	with digital control system
Path control	up to 5 axes
Laser control	FOBAGRAF
Machine control	FOBA EMC
Operating system	MS Windows® 2000

Options

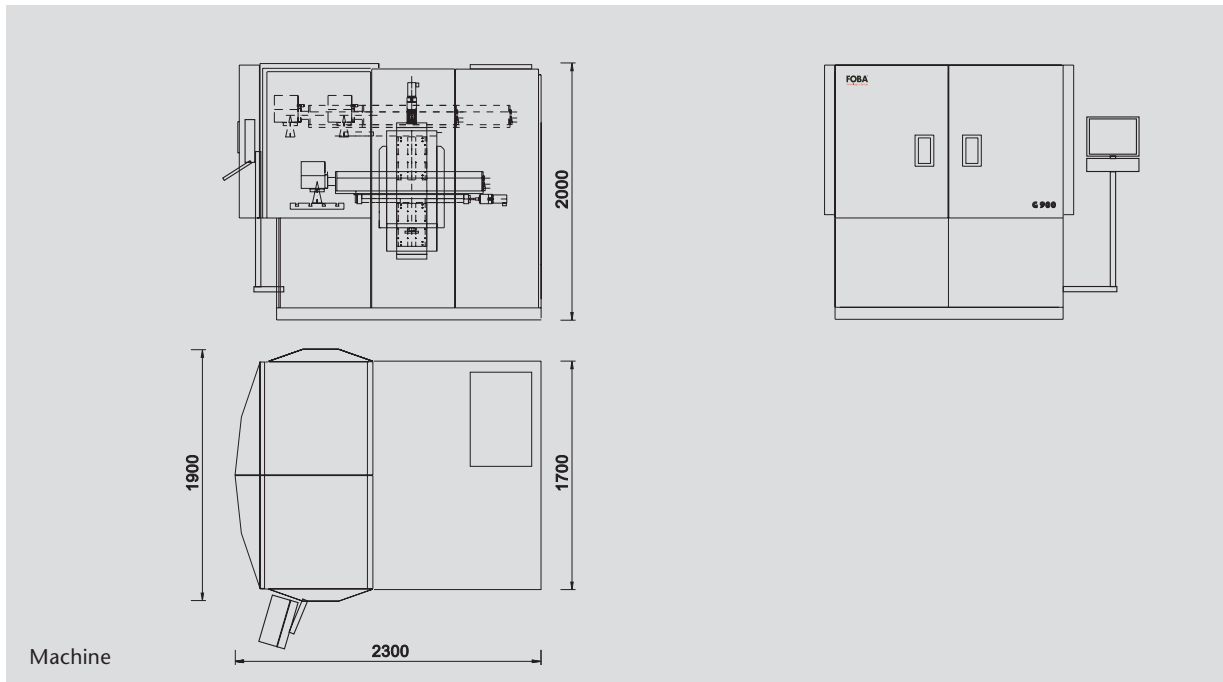
Turn-swivel unit	360°, +90°/-45°
Cylinder engraving unit	
Touch probe	For setting up workpieces
Laser distance sensor	Depth measurements
Tactile probe	Depth measurements
Pointer	
Suction filter	

Laser

Laser type	Nd:YAG, 1064 nm, lamp pumped
Power (CW)	100 W
Spot size	100 µm (optionally 50 µm)
Removal rate	up to 12 mm ³ /min (tool steel)
Output modes	Continuous wave operation (CW) Pulsed operation (QS), 0.1 - 65 kHz Mixed operation (parameterizable)

Installation

Electrical	3/N/PE AC 400V, +/-10 %, 50/60 Hz
Power consumption	max. 10 kW
Cooling system	Water/air cooler
Temperature	5 - 40 °C
Humidity	90 % (up to max. 20 °C), 30 % (up to max. 40 °C), non-condensing
Weight	Machine approx. 1500 kg
Safety	Laser class 1



FOBA[®]
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AVIRTEK Company

End to end excellence in laser systems



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