

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 **G5** is a laser engraving machine in the G-series. It is equipped with an automatically height-adjustable laser head and can be expanded to 5 axes. The supply units are easily accessible in the machine.

- 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



Lacquer removal (including for creating large-area structures), engraving and marking of tool moulds, mould inserts, erosion electrodes, stamping and printing dies, pad-printing plates and also for decorating engraving.

G5

Laser engraving machine

Practical Brilliance in Lasers

G5

Laser engraving machine

Machine

Load	Workpieces up to 200 kg without X/Y cross table (100 kg with X/Y cross table)
Z-axis (focus)	500 mm
Engraving field	120 x 120 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

Laser

Laser type	Nd:YAG, 1064 nm, 15-100 Watt
Output modes	Continuous wave operation (CW) Pulsed operation (QS), 0.1 - 65 kHz Mixed operation (parameterizable)

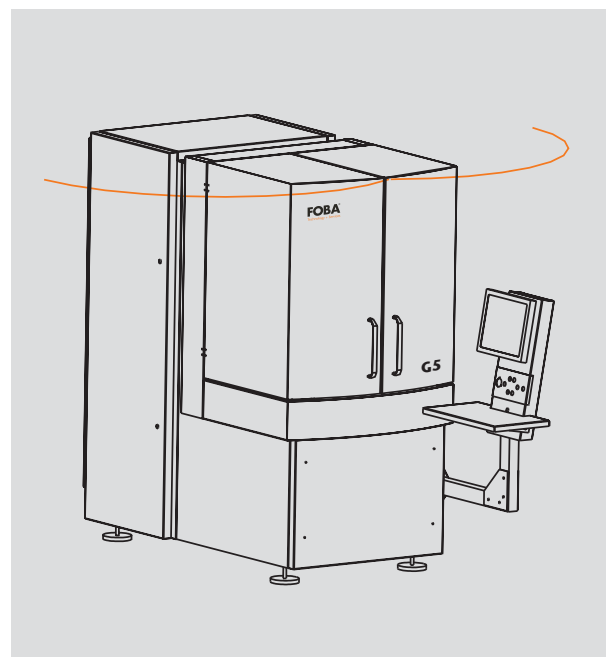
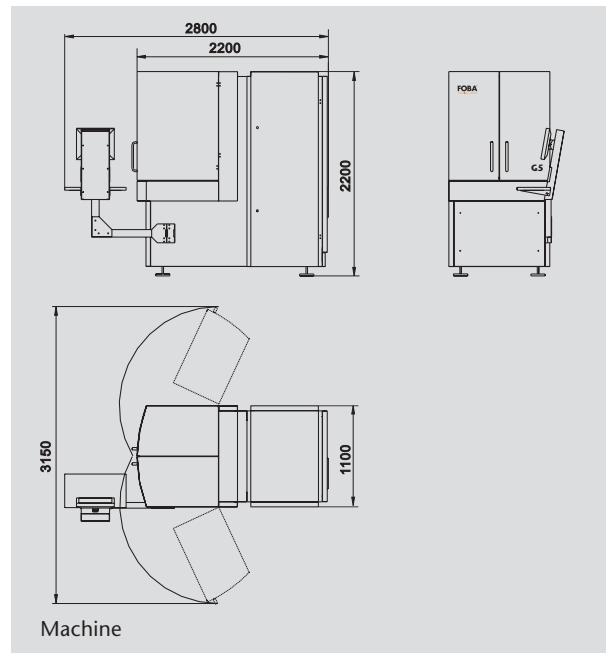
Options

Touch probe	For setting up workpieces
Laser distance sensor	Depth measurements
Tactile probe	Depth measurements
Pointer	
X/Y cross table	Table plate 250 x 250 [mm] Travel: 500 x 500 [mm]
Turn-swivel unit	360°, +90° 360°, +90°/-45°
Suction filter	
Water/air cooler	optionally to Water/water-cooler

Installation

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

Temperature	5 - 40 °C
Humidity	90 % (up to max. 20 °C), 30 % (up to max. 40 °C), non-condensing
Weight	Machine approx. 800 kg
Safety	Laser class 1



Subject to technical alterations, Dimensions without obligation 2005-03

FOBA[®]
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End to end excellence in laser systems



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