

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 10** is the smallest machine in the G-series, equipped with an automatically height-adjustable laser head and expandable to 5 axes. The machine's supply units are fitted in a separate control cabinet, where they are easily accessible.

- 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)



Area of application



Engraving and marking of tool moulds, blowing moulds, mould inserts, erosion electrodes, dies, tampon-printing blocks as well as for decorative engraving and for surface improvement.

G 10

Laser engraving machine

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Machine

Load	Workpieces up to 50 kg with X/Y cross table (100 kg without X/Y cross table)
X/Y cross table	300 x 300 mm ²
Z-axis (focus)	500 mm
Engraving field	114 x 114 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 (Engraving Management Console)
Operating system	MS Windows®

Options

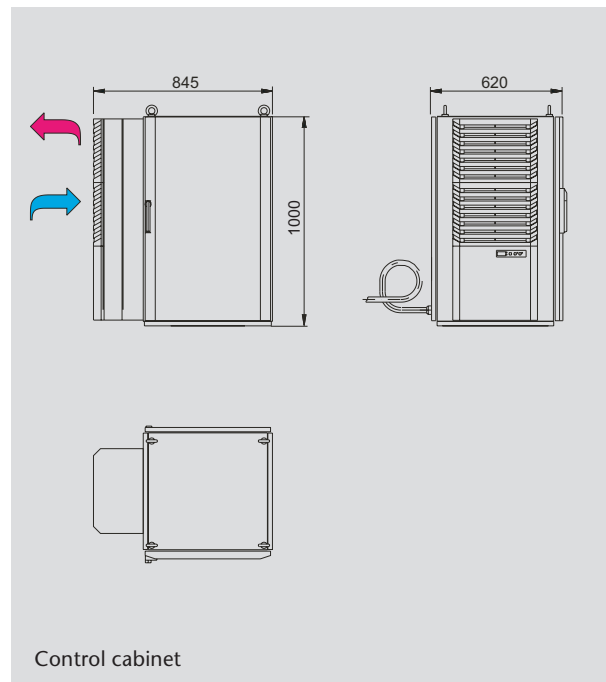
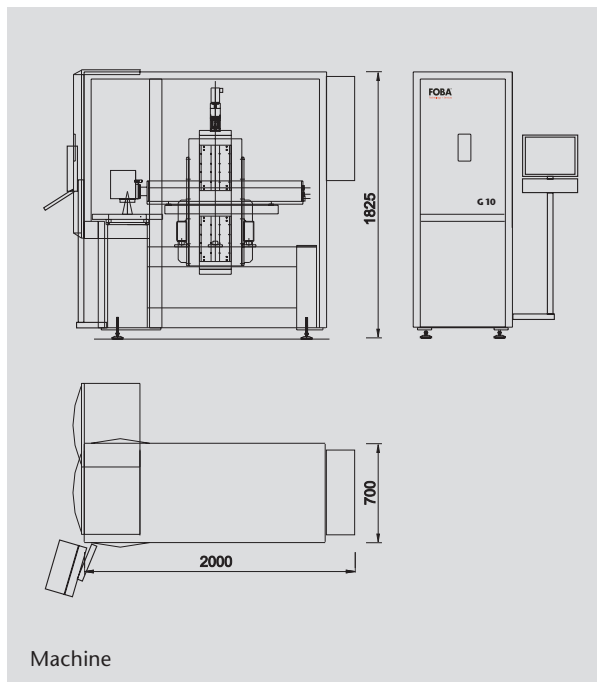
Touch probe	For setting up workpieces
Laser distance sensor	Depth measurements
Pointer	
Suction filter	

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. 800 kg Control cabinet approx. 170 kg
Safety	Laser class 1



Subject to technical alterations 2001-11 U30012

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Technology + Services

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