

A VIRTEK Company



Laser systems for marking and engraving

For many years we have been supplying industrystandard 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.

G900

Laser engraving machine

G 900

Laser engraving machine

Machine

Load Workpieces up to 400 kg X-axis 900 mm 400 mm Y-axis Z-axis (focus) 500 mm 110 x110 mm² Engraving field Manual operation for all axes Jog Dial

Control

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

Options

Suction filter

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

Laser

Laser type Nd:YAG, 1064 nm, lamp pumped Power (CW) 100 μm (optionally 50 μm) Spot size Removal rate up to 12 mm³/min (tool steel) Output modes Continuous wave operation (CW) Pulsed operation (QS), 0.1 - 65 kHz Mixed operation (parameterizable)

Installation

Power consumption Cooling system Temperature Humidity

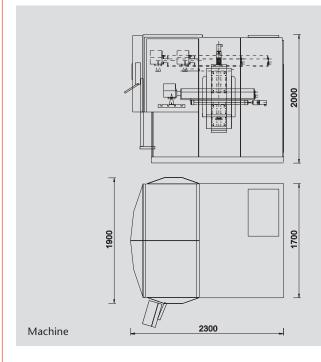
3/N/PE AC 400V, +/-10 %, 50/60 Hz

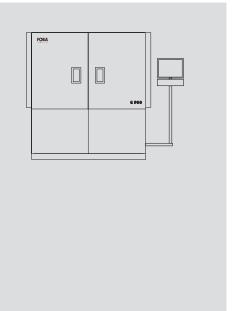
max. 10 kW Water/air cooler 5 - 40 °C 90 % (up to max. 20 °C),

30 % (up to max. 40 °C), non-condensing

Machine approx. 1500 kg Weight Safety

Laser class 1







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End to end excellence in laser systems



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