

G5

Laser engraving machine

The G5 is our All-round talent for marking and engraving. It is equipped with an automatically height-adjustable laser head and can be expanded to 5 axes. According to individual request, the machine can be delivered with pneumatic lifting door, rotary table or 2 large swing doors.

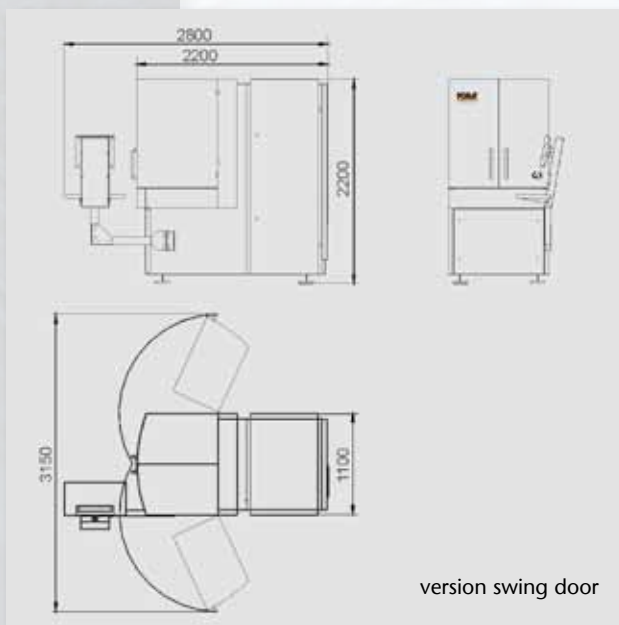
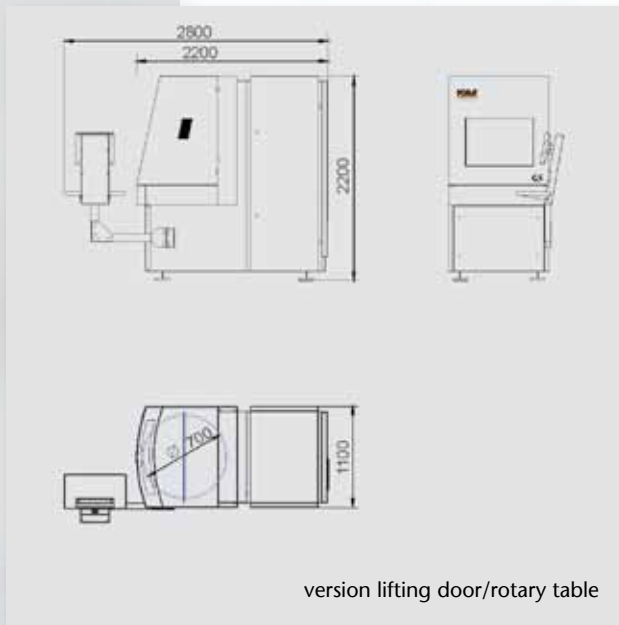
Advantages

- Marking and engraving of 2D and 3D structures, contours and surfaces
- Contact-free processing - no need to clamp the workpieces
- Software for marking, engraving, measuring and moving the axes



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Machine

Load	Workpieces up to 100 kg ^{1) 3)} 16 kg (8 kg per station) ²⁾
Z-axis (focus)	up to 500 mm
Engraving field	120 x 120 mm ² (f=163 mm)
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	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
Tactile probe	Depth measurements
Pointer	Adjustment aid
IMP	Vision-based mark positioning
X/Y cross table ^{1) 3)}	Table plate 250 x 250 [mm] Travel 500 x 500 [mm]
Turn-swivel unit ^{1) 3)}	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.

Electrical	3/N/PE, AC 400V, 50/60 Hz
Power consumption	2.8 - 8 kVA ⁴⁾
Temperature	15 - 40 °C
Humidity	90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing
Weight	Machine approx. 800 kg
Degree of protection	IP 54
Safety	Laser class 1

- ¹⁾ version lifting door
- ²⁾ version rotary table
- ³⁾ version swing door
- ⁴⁾ depends on the basic system

FOBA®

Laser Marking + Engraving

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