

GP9000

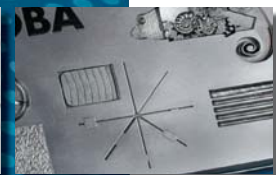
Laser engraving machine

Precise, variable, robust and with a wide range of options, the new GP9000 sets the standards for the future.

Equipped with specific front modules, this machine meets the many requirements made of loading, access and automation integration. A thermally and mechanically highly-robust machine bed is the result of joint development work carried out with leading Swiss universities.

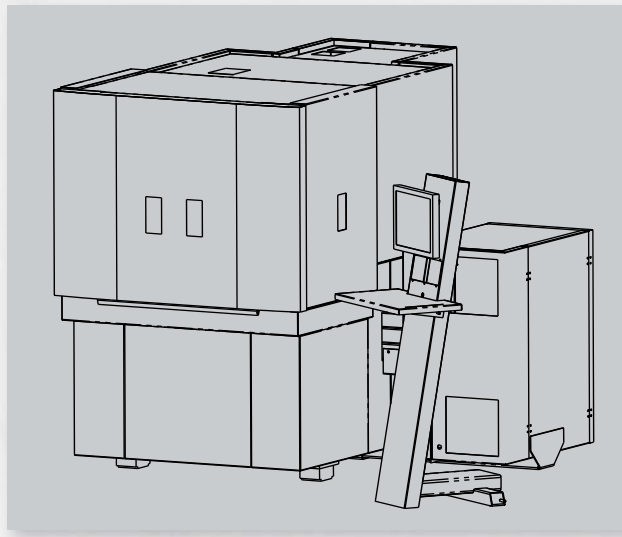
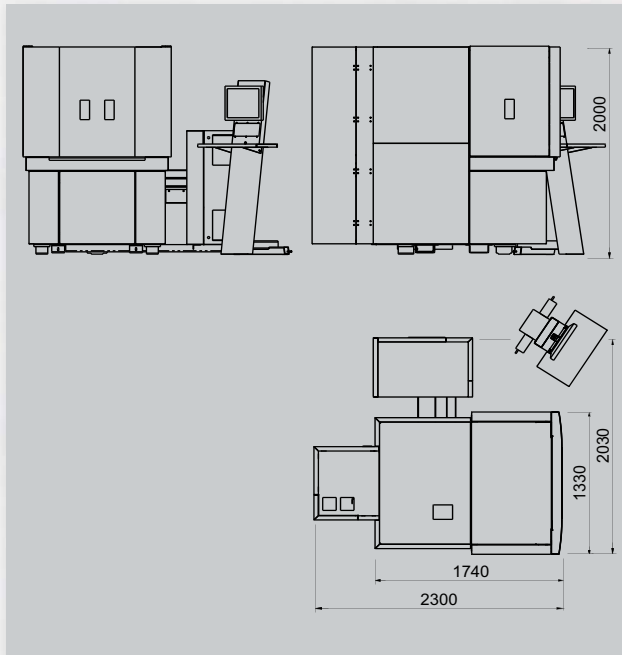
Advantages

- Engraving of 2D/3D structures, contours and surfaces
- Laser systems with spot size of 0.015 – 0.1 mm
- Surface roughnesses of Ra = 0.5 µm possible
- For workpieces up to 400 kg



GP 9000

Laser engraving machine



Machine

| | |
|-----------------|--------------------------------------|
| Load | Workpieces up to 400 kg |
| X-axis | up to 500 mm |
| Y-axis | up to 500 mm |
| Z-axis (focus) | up to 500 mm |
| Engraving field | 120 x 120 mm ² (f=163 mm) |

Control

| | |
|------------------|-----------------------------|
| AC Servomotors | 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), 0.1 - 65 kHz Mixed operation (parameterizable) |

Options

| | |
|-------------------------|--|
| Touch probe | For setting up workpieces |
| Laser distance sensor | Depth measurements |
| Tactile probe | Depth measurements |
| Pointer | Adjustment aid |
| Turn-swivel unit | 360°, +90°/-45° |
| Cylinder engraving unit | 360° |
| Axle systems | Dependent on precision, workpiece weight and additional requirements |

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 | max. 10 kVA |
| Cooling | Air |
| Temperature | 15 - 40 °C |
| Humidity | 90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing |
| Weight | Machine with control cabinet max. 2500 kg, Operating panel approx. 45 kg |
| Degree of protection | IP 54 |
| Safety | Laser class 1 |

Subject to technical alterations, Dimensions without obligation 2006-11

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