

Laser Marking +
Engraving Solutions

FOBA[®]
Laser at your service



FOBA DP10GS

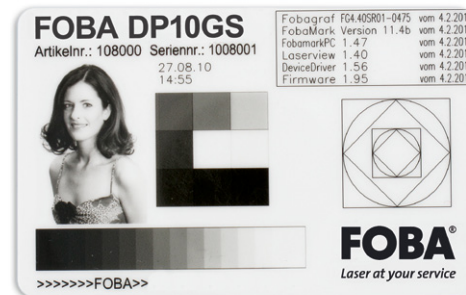
*Highly efficient marking laser for brilliant
grayscale marks*

The end-pumped Vanadate grayscale marking laser DP10GS (Nd:YVO₄) is synonymous with first-class laser beam quality and excellent laser power. Preferred areas of application are in the ID and personalization sectors (personalization of highly sensitive cards, badges and passports; especially marking ID cards with grayscale images) as well as in the automotive industry (lacquer/coating removal to produce day/night designs). FOBA's DP10GS is also used for engraving metal parts and materials.

The air-cooled grayscale marking laser convinces with outstanding laser properties, fast markings and uncompromising marking quality. Its compact design allows smooth integration in both automation lines and FOBA machines.

Your product benefits

- Excellent laser beam quality
- Best pulse to pulse stability
- Brilliant marking quality
- Low-maintenance and high efficiency due to long-life laser diodes
- Low operating costs due to efficient air-cooling



*Laser marked ID card with
exemplary marking contents;
Automotive day/night design
element (with the kind per-
mission of Preh GmbH)*



FOBA DP10GS

Technical Data

Marking features

Speed* Up to 5,000 mm/s, up to 500 characters/s
Line width Typically 55 µm

Laser

Type Nd:YVO₄ (Vanadat), diode-pumped
Wavelength 1,064 nm
Laser class 4 (according to DIN EN 60825-1:2008-05)
Laser power CW: typically 10 W
QS: typically 10 kW/pulse (30kHz)
Power stability +/- 1% (CW), +/- 1.5% (QS)
Operating mode Continuous wave operation (CW)
Q-switched (QS, 10 kHz – 100 kHz)
Pulse energy 0.5 mJ (10 kHz)
Pulse width 30 ns (30 kHz)

Control

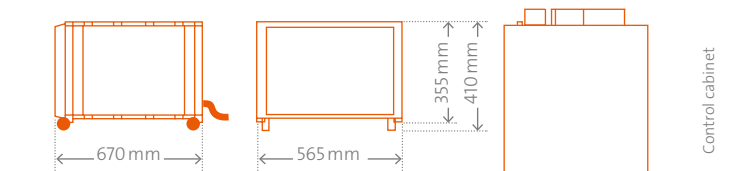
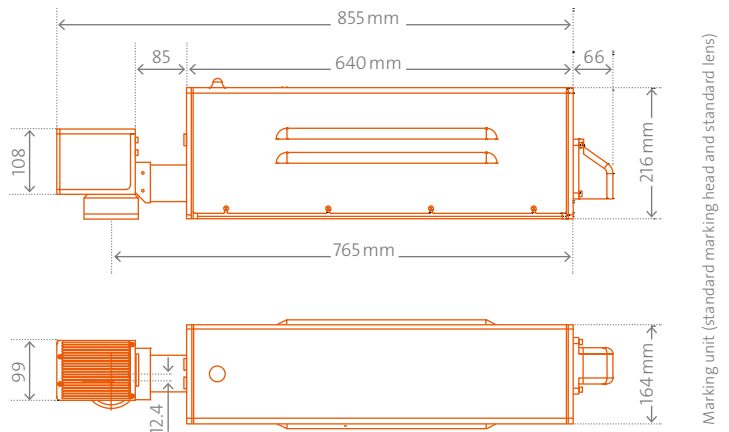
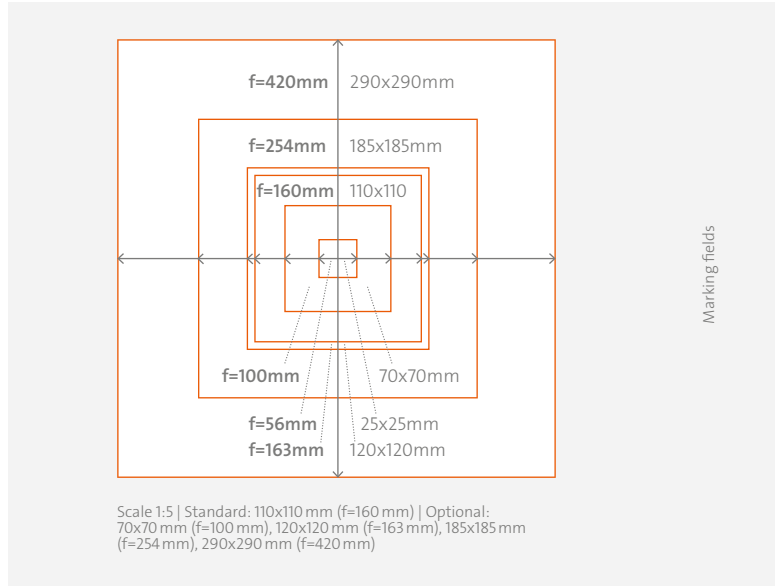
PC, OS Modular CompactPCI-PC, Windows XP
Laser control Fobagraf with import functions of plt/dwg/dxf/ai/jpg/tif/pcx/bmp, etc.
Interfaces Serial, digital I/O, Ethernet, USB, Profibus

Supply

Electrical req. L/N/PE 100 – 240 VAC, 50/60 Hz
Power consumption Typ. 1.0 kW
IP rating Marking unit IP20, control cabinet (with supply unit and laser control) IP43
Cooling Air-cooled
Temperature 15 – 40 °C
Humidity Rel. 90% (max. 20 °C), 30% (max. 40 °C) non-condensing
Weight Marking unit approx. 15 kg**, Control cabinet approx. 45 kg

Options

Marking on the fly For marking moving work pieces
19" racks For integration
Changeable lenses 100 mm/163 mm/254 mm/420 mm
High-speed scan heads



* depends on the application ** without F-theta lens

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