



FOBA DP30FGS

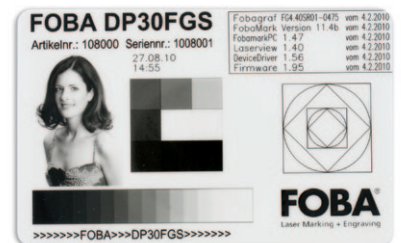
Fiber laser marker for grayscale marking
What security looks like: Gray with every fiber

FOBA DP30FGS was developed for high-security marking applications in identification (ID), authentication and personalization. The 30W grayscale fiber laser marks sensitive and security documents (ID cards, smart cards, bank cards, badges, driver's licenses, passports) counterfeit-proof, accurate and fast. DP30FGS applies all industry-wide stipulated contents both in best marking quality and in high-resolution: be it owner-related data, graphics, photos, logos, 2D codes, Multiple Laser Images (MLI), Changeable Laser Images (CLI) or tactile markings.

In the end, sensitive documents are prepared to meet strict worldwide safety requirements, and are protected against misuse and counterfeit. This is what security means. And this is how security feels like: simply safe.

Your product benefits

- Absolutely counterfeit-proof
- Maximum marking quality and easy setup
- More flexibility
- 30 % lower operating costs at up to 10 % more productivity



Laser marked ID cards with
exemplary marking contents

FOBA DP30FGS

Technical Data

Marking features

Speed*	Up to 5,000 mm/s
Formats	Owner-related data/ Photos, graphics, logos/ 2D codes/ Multiple Laser Images (MLI), Changeable Laser Images (CLI)/ Tactile Markings
Line width	In standard config. 70 µm (min. 50 µm)

Laser

Type	Ytterbium (Yb) fiber laser, 30 W, diode-pumped, wavelength 1,060–1,070 nm
Laser class	4 (acc. to DIN EN 60825-1:2008-05)
Power (QS)	Typ. 21 W, max. 25 W
Power stability	+/- 2.5 %
Operating mode	Q-switched (QS, 10 kHz–200 kHz)
Pulse energy	Typ. 0.60 mJ (50 kHz)
Pulse power	Typ. 6 kW (50 kHz), max. 10 kW (50 kHz)

Control

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

Supply

Electrical req.	L/N/PE AC 100–240 V, 50/60 Hz
Power consumption	650 W (typ. 450 W)
IP rating	Marking unit IP54, control cabinet (with supply unit and laser control) IP43, OEM version IP00
Cooling	Air-cooled
Temperature**	15–32 °C (100 % DC), 15–35 °C (50 % DC)
Humidity range	Rel. 90 % (max. 20 °C), 30 % (max. 40 °C)
Weight	Marking unit approx. 13 kg, control cabinet approx. 45 kg, OEM components approx. 30 kg

Options

Patented process for the tilt-free creation of Multiple Laser Images (MLI) + Changeable Laser Images (CLI)

