



FOBA V.0071-gr | V.0141-gr

FOBA's Green Laser-Markers: "Cool" Technology for Stunning Marking Results

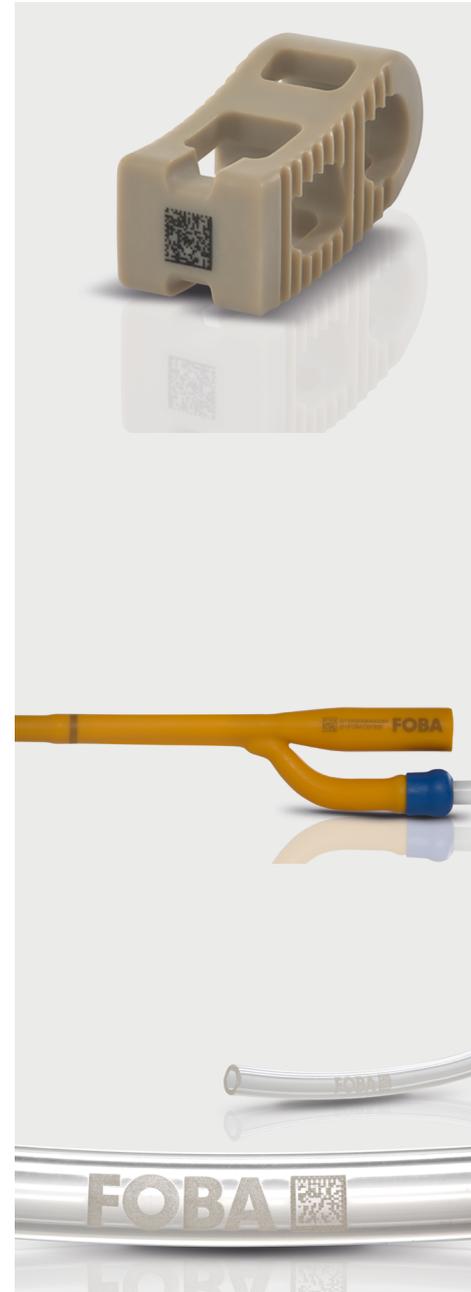
With the "green lasers" (532 nm wavelength), FOBA offers marking systems with **low heat impact**. The new **vanadate laser sources** are available with **7- or 14-watt laser power**. Providing **outstanding speed and accuracy**, they mark substrates that do not show satisfactory marking results using other wavelengths. The materials affected include many **white and transparent plastics**, glass surfaces, **highly reflective metals**, or **combined material parts**.

Also red or orange plastic surfaces, which often only allow for poor marking contrasts due to existing color properties, obtain **perfectly legible codes and characters**. On **special plastics** such as UHMWPE, HDPE or PMMA, the marking quality achieved is impressive just as well. The green laser also makes **laser additives unnecessary** in most cases.

The FOBA V.0071-gr and FOBA V.0141-gr marking systems close the gap between UV (355 nm)- and fiber (1,064 nm)-laser systems and address the **most challenging marking applications**.

Your product benefits

- 532 nm wavelength for low laser marking heat impact
- 7 or 14 watt laser power for high application versatility
- Outstanding marking speed in line and system
- Filigree, high-contrast markings with high resolution for reliable legibility
- Additive-free plastic marking
- Safety and integrity even of sensitive and critical materials
- Extended range of application in medical technology and automotive industry a. o.
- Long lifetime and therefore low TCO (Total Cost of Ownership) of the system



PEEK-implant, colored medical balloon catheter and transparent plastic tube



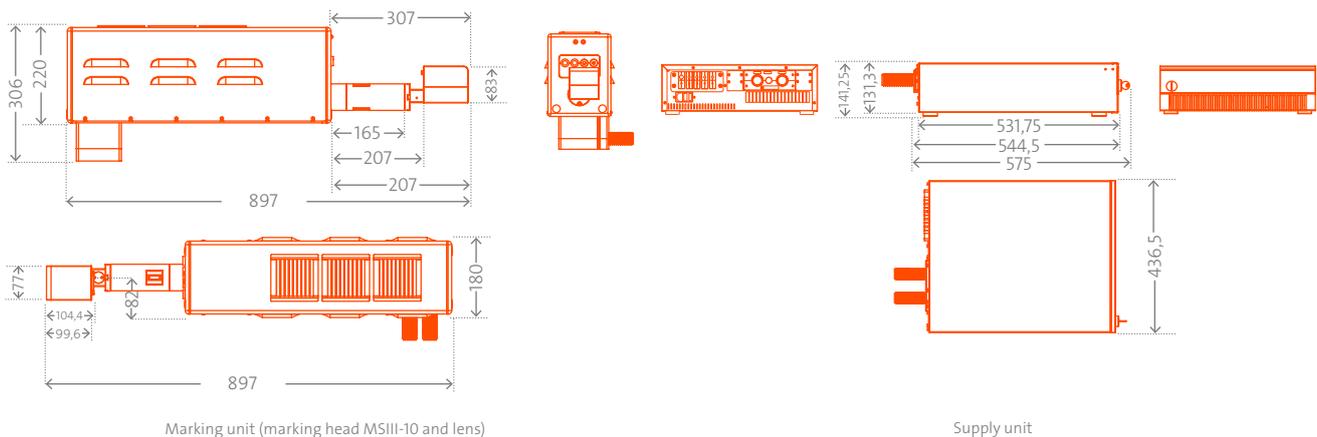


TECHNICAL DATA → V.0071-GR | V.0141-GR

Marking features	
Laser type	Pulsed Nd:YVO ₄ laser (Vanadate), diode pumped, wavelength 532nm, laser class 4 (acc. to IEC 60825-1)
Marking heads	MSIII with five focus lenses (f=100 mm/160 mm/240 mm/410 mm/ 535 mm)
Marking field sizes*	Five sizes between f = 100 mm (MarkUS 34.5 * 35.5 mm ² Foba Draw 39,9 * 68,6 mm ²) and f = 535 mm (MarkUS 336,5 * 336,5 mm ² FobaDraw 392,1 * 392,1 mm ²)
Marking speed*	Up to 6,000 mm/s or 700 characters/s
Line width	From 13 µm (depends on focusing optic)
Interfaces	TCP/IP, Profibus, PROFINET, EtherCAT, EtherNetIP
PC software	FOBA MarkUS, FOBA Draw or FOBA Go
Supply	
Electrical requirements	L/N/PE 110–240 VAC, 50/60 Hz
Power consumption	Typically 550 W
IP rating Cooling	→ Marking unit IP20 → Supply unit IP20 Air-cooled
Temperature Humidity	V.0071-gr: 15 – 35°C (59 – 95 °F) V.0141-gr: 15 – 30°C (59 – 86 °F) 90 % (max. 20 °C 68 °F), 30 % (max. 40 °C 104 °F), non-condensing
Weight	→ Marking unit approx. 25 kg** → Supply unit approx. 20 kg
Other options	
→ Vision alignment system: Intelligent Mark Positioning (IMP) for the precise position detection of parts/to-be-processed areas and automatic alignment of marking/engraving/finishing	
→ Laser pointer	

* depends on application ** without F:Theta lens

DIMENSIONED DRAWINGS → V.0071-GR | V.0141-GR



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