

Laser systems for marking and engraving



In the field of Nd:YAG lasers, FOBA supplies basic systems with a power range of 10 to 100 Watts. Basic systems are suitable for universal use in machine workplaces, manufacturing lines or special machines.

The innovative pulsed fibre lasers offer unprecedented efficiency and compactness. The small dimensions of the laser head, deflector unit and supply unit make integration much easier in, for example, small machines. The high level of pulse-to-pulse stability during material processing is a further advantage of this new type of light source.

- Small compact air-cooled laser
- Output power 19 Watt (CW)
- Excellent laser beam quality
- Single-phase mains connection
- No external cooling water
- Long working life of the laser diodes means little servicing



Area of application



Marking on almost all materials, mainly marking on plastics, foil, metal parts and electronic components.

DP20F

Basic system - 19 Watt

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System

Marking field 110 x 110 mm² (f=160 mm)

Marking speed up to 5000 mm/s

up to 500 characters/s

Line width 70 µm

Laser

Laser type Pulsed Yb Fiber Laser, 1060 -1070 nm,

diode pumped

typical 19 W (20 kHz) Power (QS)

Power stability +/- 1 % Pulse frequency 20 - 80 kHz Pulse energy 0,95 mJ (20 kHz) Pulse width 100 ns (20 kHz) Laser safety Laser class 4

Output fiber cable length 2 m

Control

CompactPCI-PC MS Windows[®] 2000 Operating system

Laser control FOBAGRAF with Import functions of

plt/dwg/dxf/ai/jpg/tif/pcx/bmp u.a.

serial, digital I/O, Ethernet, USB Interfaces

optionally: PROFIBUS

Installation

L/N/PE, AC 100 - 138 V, 187 - 240 V, Electrical

adjustable, 50/60 Hz

Power consumption typ. 550 W forced air Cooling system 15 - 40 °C Temperature

Humidity 90 % (up to max. 20 °C)

30 % (up to max. 40 °C)

non-condensing

Laser head approx. 5 kg 1) Weight

OEM-Components approx. 30 kg

cabinet approx. 45 kg 2)

Degree of protection IP 43 (cabinet)

Options

Pointer Adjustment aid

Scan heads Scan lens

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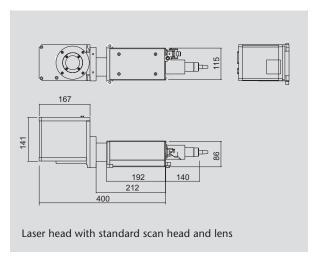
Cabinet Dimension: 19", 7 HE

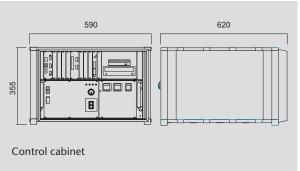
End to end excellence in laser systems

FOBA Technology + Services GmbH

1) without F-Theta lens

2) with OEM-Components





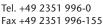


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