

LP100

Basic system 100 W

In the field of Nd:YAG lasers, FOBA supplies basic systems with a power range of 15 to 100 Watts.

Using the high-power LP100 basic system guarantees you a wide range of uses and sufficient reserves of power.

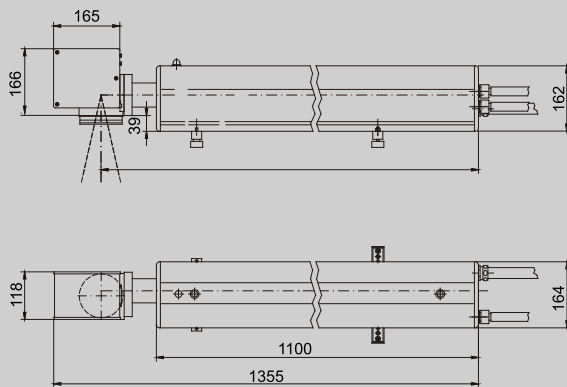
Advantages

- Output power 100 Watt (CW)
- Very economic thanks to increased writing speed
- Easily integrated in semi- or fully-automated systems
- Standardised customer interface
- Free programming and graphic import means flexibility in use

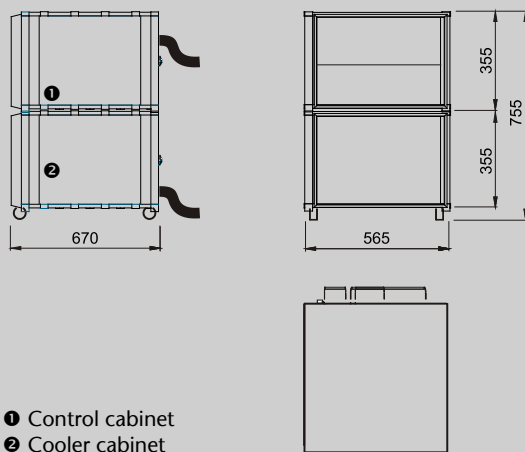


LP 100

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Laser head with standard scan head and lens



① Control cabinet
② Cooler cabinet

System

Marking field	110 x 110 mm ² (f=160 mm)
Marking speed	up to 5000 mm/s up to 500 characters/s
Line width	100 µm (optionally 50 µm)

Laser

Laser type	Nd:YAG, 1064 nm, lamp pumped
Power (CW)	typical 100 W
(QS)	typical 40 kW/pulse (10 kHz)
Power stability	+/- 2.5 % (CW)
Output modes	Continuous wave operation (CW) Pulsed operation (QS, 0.5 - 65 kHz) Mixed operation (parameterizable)
Pulse energy	16 mJ (1 kHz)
Pulse width	50 ns (1 kHz)
Aperture	8 different diameters

Control

PC	CompactPCI-PC
Operating system	MS Windows XP
Laser control	FOBAGRAF with Import functions of plt, dwg, dxf, ai, jpg, tif, pcx, bmp ...
Interfaces	serial, digital I/O, Ethernet, USB

Installation

Electrical	3/N/PE, AC 400 V, ± 10%, 50/60 Hz
Power consumption	typical 6.0 kW
Cooling	Water/water cooler ¹⁾
Temperature	15 - 40 °C
Humidity	90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing
Weight	Laser head approx. 34 kg ²⁾ Control cabinet approx. 60 kg ³⁾ Cooler cabinet approx. 60 kg ³⁾
Degree of protection	Control-/Cooler cabinet IP43 (IP54 ⁴⁾ Laser head IP54
Safety	Class IV Laser

Options

Pointer	Adjustment aid
Scan head	
Changeable lens	100 mm/163 mm/254 mm/420 mm
SHG modul	for frequency doubling

¹⁾ optionally water/air cooler

²⁾ without F-Theta lens

³⁾ with OEM-Components

⁴⁾ optionally

FOBA®

Laser Marking + Engraving

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