

# FOBA<sup>®</sup>

Technology + Services

A **VIRTEK** Company

## Laser systems for marking and engraving



In the field of Nd:YAG lasers, FOBA supplies basic systems with a power range of 15 to 100 Watts. Basic systems are suitable for universal use in machine workplaces, manufacturing lines or special machines.

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

- Output power 100 Watt (CW)
- Very economic thanks to increased writing speed
- Easy accessibility means easy to service
- Standardised customer interface
- Easily integrated in semi- or fully-automated systems
- Free programming and graphic import means flexibility in use
- Powerful user-friendly software under MS Windows<sup>®</sup>
- DUAL DOUBLE HEAD-Technology



### Applications



Permanent marking on almost all materials, also suitable for use in places which are difficult to access, especially suitable for depth marking, 3D engraving and lacquer removal.

# LP100

Basic system - 100 Watt

Practical Brilliance in Lasers

# LP100

Basic system - 100 Watt

## System

Marking field	110 x 110 mm <sup>2</sup>
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)	100 W
Power (QS)	typical 200 kW/pulse (1 kHz)
Power stability	+/- 3-4 % (CW) +/- 5 % (QS, < 10 kHz)
Output modes	Continuous wave operation (CW) Pulsed operation (QS), 0.1 - 65 kHz Mixed operation (parameterizable)
Aperture	Interchangeable aperture, 8 different diameters
Safety	Class IV Laser

## Control

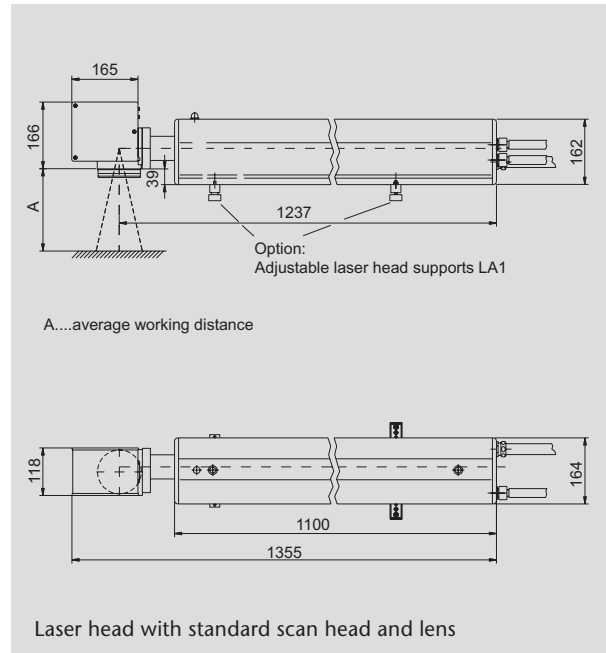
Control system	modular CompactPCI-PC
Operating system	MS Windows <sup>®</sup> 2000
Laser control	FOBAGRAF with import function of plt, dwg, dxf, ai, jpg, tif, pcx, bmp ...
Interfaces	serial, digital I/O, Ethernet, USB optionally: CAN, PROFIBUS

## Installation

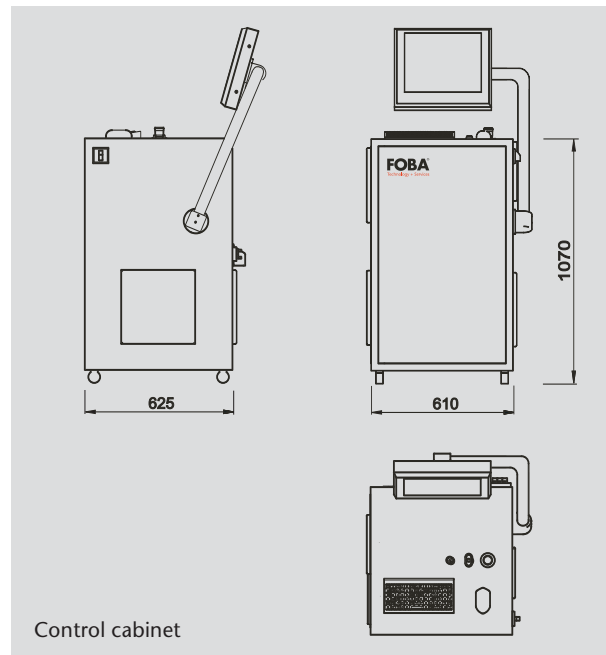
Electrical	3/N/PE AC 400V, +/- 10 %, 50/60 Hz
Power consumption	typ. 6.6 kW
Cooling system	Water/water cooler
Temperature	5 - 40 °C
Humidity	90 % (up to max. 20 °C), 30 % (up to max. 40 °C), non-condensing
Weight	Laser head approx. 34 kg Control cabinet approx. 170 kg
Degree of protection	IP 54

## Options

Marking on the fly	for marking moving workpieces
Pointer	adjustment aid
Monitor	separate
Changeable lens	



Laser head with standard scan head and lens



Control cabinet

Subject to technical alterations, Dimensions without obligation 2004-08

**FOBA**<sup>®</sup>  
Technology + Services  
A **VIRTEK** Company

End to end excellence in laser systems



### EUROPE

FOBA Technology + Services GmbH  
www.foba.de  
sales@foba.de

Postfach 15 60  
D-58465 Lüdenscheid  
Germany

Tel. +49 2351 996-0  
Fax +49 2351 996-155

### NORTH & SOUTH AMERICA

Virtek  
www.virtek.ca  
fobasales@virtek.ca

785 Bridge Street  
Waterloo, ON N2V 2K1  
Canada

Tel. +1 800 684-7835 or 519 746-7190  
Fax +1 519 746-3383

### ASIA

Virtek Asia Pacific Inc.  
www.virtek.ca  
asia.sales@virtek.ca

Eru Building, 2<sup>nd</sup> Floor  
3-14-6 Higashikashiwagaya  
Ebina City, Kanagawa, 243-0401, Japan

Tel. +81 46-292-0739  
Fax +81 46-292-0793

