

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.

The DP20GS - an end-pumped high-end system - provides optimal laser beam quality and performance. The most popular fields of use are for personalisation, in particular the marking of identity cards with grey-scale images, as well as the field of lacquer removal in order to achieve a day & night design.

When used in combination with speed-optimised scan heads in a double-head design, the excellent performance permits the MOTF marking of electronic components up to extreme line speeds.

- Output power 20 Watt (CW)
- Excellent laser beam quality
- Single-phase mains connection (230 V)
- 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, lacquer removal (day and night design) and marking of electronic components.

DP20GS

Basic system - 20 Watt

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Laser

Nd:YVO₄, 1064 nm, diode pumped Laser type Power typical 20 W (single mode 16 W)

1,5 % (QS, 30 kHz) Power stability

Pulse width < 15 ns Marking field 120 x 120 mm² Class IV Laser Safety

Control

modular CompactPCI-PC Control system MS Windows® 2000 Operating system

FOBAGRAF with import function of Laser control plt, dwg, dxf, ai, jpg, tif, pcx, bmp ...

Interfaces serial, digital I/O, Ethernet, USB

optionally: PROFIBUS

Installation

Electrical 1/N/PE AC 230 V, +/- 10 %, 50/60 Hz

Power consumption typical 1,9 kW

Cooling system internal water/air cooler

Temperature 15 - 40 °C

Humidity 90 % (up to max. 20 °C),

30 % (up to max. 40 °C),

non-condensing

Weight Laser head approx. 15 kg

> OEM components approx. 80 kg Control cabinet approx. 150 kg 1)

Degree of protection IP 54 (Control cabinet)

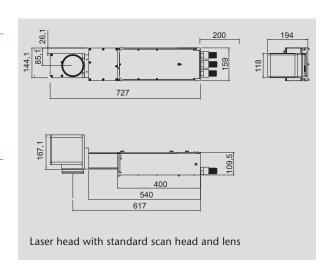
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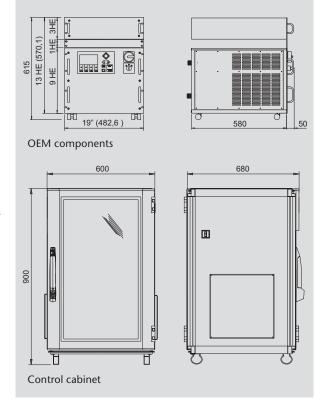
Marking on the fly 19" racks

Changeable lens

for marking moving workpieces

for Integration







End to end excellence in laser systems



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¹⁾ with OEM components