

# fiberhome

## Protection housing

The fiberhome protection housing is designed as a laser protection class 1 table-top model. Either fiber laser DP10F or DP20F can be fitted, as required. The manually operated unit is suitable for processing single parts and small series.

### Advantages

- Compact construction
- Processing area  
420 x 320 [mm]
- Motor-driven Z-axis with  
250 mm stroke
- With illumination, integrated  
camera and vacuuming  
connection as standard
- Extremely cost-effective



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## Protection housing

### Housing

Load	Workpieces up to 20 kg
Processing area	420 x 320 [mm]
Z-axis (focus)	250 mm
Vacuuming connection	
Illumination	
Camera	

### Laser

Laser type	Pulsed Yb Fiber Laser, 1060 -1070 nm, diode pumped DP10F / DP20F
Marking field	110 x 110 mm <sup>2</sup> (f=160 mm)
Marking speed	up to 5000 mm/s up to 500 characters/s
Line width	50 µm
Power (QS)	typ. 10 W (20 kHz) / typ. 19W (20 kHz)
Power stability	+/- 1 %
Pulse frequency	20 - 80 kHz
Pulse energy	0.5 mJ (20 kHz) / 0.95 mJ (20 kHz)
Pulse width	100 ns (20 kHz)
Laser safety	Laser class 4

### Control

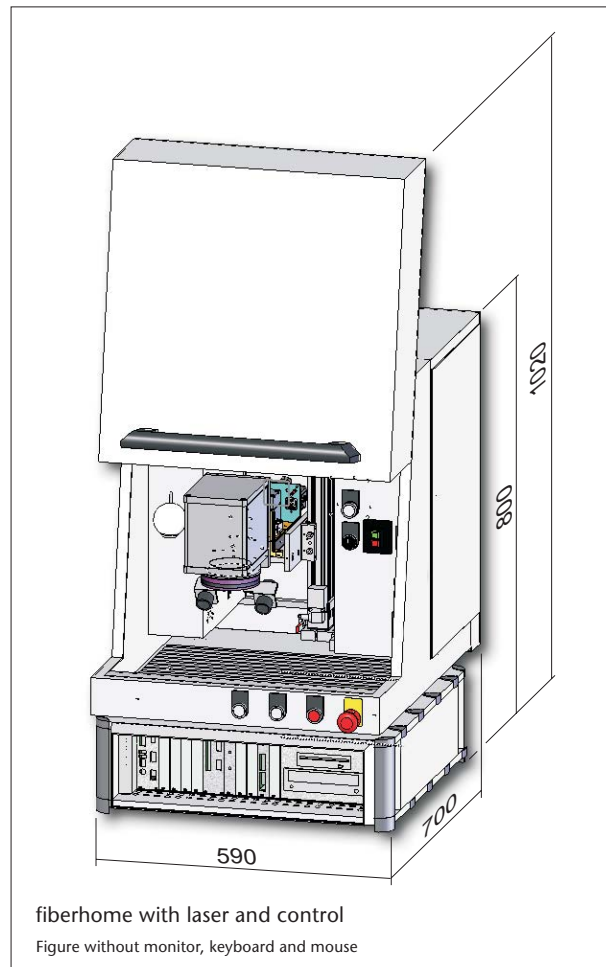
PC	CompactPCI-PC
Operating system	MS Windows <sup>®</sup> 2000
Laser control	FOBAGRAF with Import functions of plt/dwg/dxf/ai/jpg/tif/pcx/bmp u.a.
Interfaces	serial, digital I/O, Ethernet, USB optionally: PROFIBUS

### Installation

Electrical	L/N/PE, AC 100 - 138 V, 187 - 240 V, adjustable, 50/60 Hz
Power consumption	typ. 500 W
Cooling system	forced air
Temperature	15 - 40 °C
Humidity	90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing
Weight	Housing with laser approx. 95 kg Control approx. 15 kg Monitor, keyboard, mouse approx. 10 kg
Degree of protection	IP 43

### Options

Safety windows	in lifting door
Axis of rotation	with servodrive



fiberhome with laser and control  
Figure without monitor, keyboard and mouse

Subject to technical alterations, Dimensions without obligation 2006-01

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