

fiberhome

Laser marking machine

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.

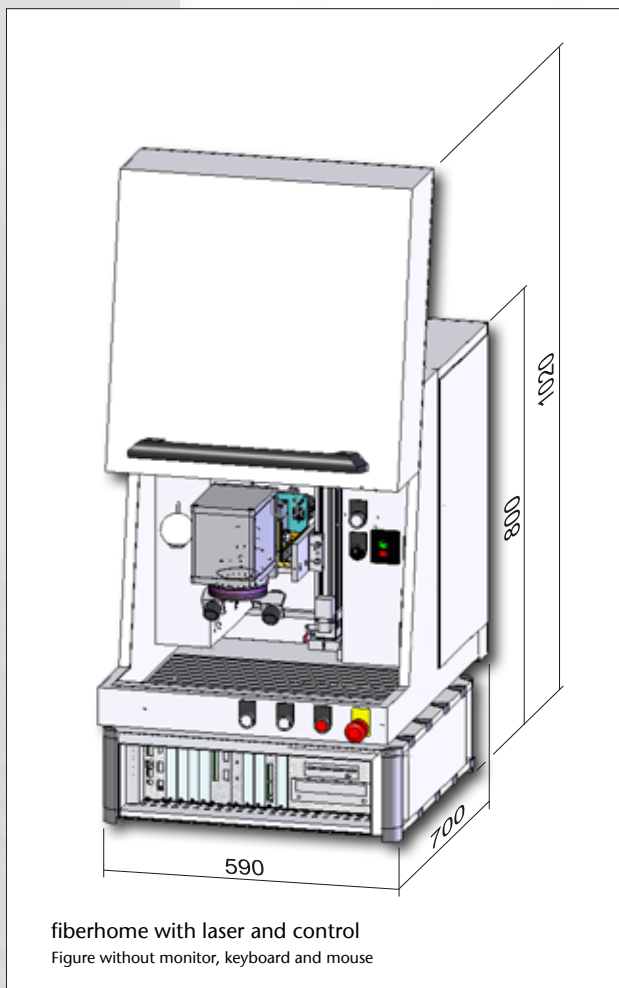
Advantages

- 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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Working area

Load	Workpieces up to 20 kg
Processing area	420 x 320 [mm]
Marking field	110 x 110 mm ² (f=160 mm)
Marking speed	up to 5000 mm/s up to 500 characters/s
Line width	typical 50 µm
Z-axis (focus)	250 mm
Vacuuming connection	
Illumination	
Camera	

Laser

	DP10F	DP20F
Laser type	Pulsed Yb Fiber Laser, 1060-1070 nm, diode pumped	
Power (QS)	typical 9 W (20 kHz)	typical 18 W (20 kHz)
Power stability	+/- 2.5 %	
Pulse frequency	20 - 100 kHz	
Pulse energy	0,45 mJ (20 kHz)	0,9 mJ (20 kHz)
Pulse width	110 ns (20 kHz)	

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

Options

Pointer	Adjustment aid
Safety windows	in lifting door
Axis of rotation	with servodrive

Installation

Electrical	1/N/PE, AC 230 V ± 10%, 50/60 Hz	
Power consumption	typical 400 W	typical 600 W
Cooling	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	Housing IP43 Monitor, keyboard, mouse IP 20	
Safety	Laser class 1	