FOBA C.0100

Small-sized marking laser for challenging tasks in the electronic industry

Most notably, FOBA C.0100 is small, short and compact: Just tailor-made for the manufacture of electronic components and devices in the electronic industry where space is often scarce.

C.0100 applies microscopic and fine laser marks on equally tiny components: Immediately, in zero-tolerance quality and anytime traceable – just as requested within the industry. FOBA C.0100 applies complex, variable data both on moving and static products and is therefore first choice for the application of permanent marks on electronic devices and boards.

Your product benefits

→ **Small, short, compact:** One-box design, shortest unit on the market

→ **Easy to integrate:** Compact design, flexible software/interfacing concept, multilingual user interface, two beam exit versions

→ **Main fields of application:** Electronic industry (laser marking of boards and electronic devices: transistors, diodes, small ICs)
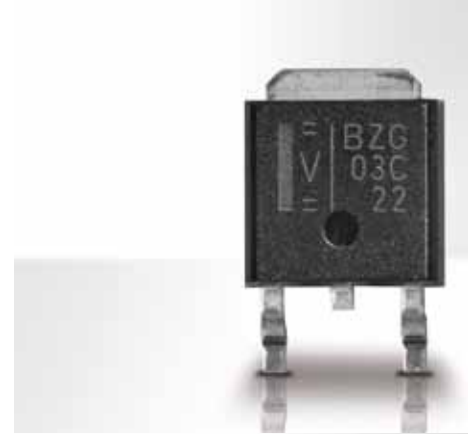
Microchip (IC) components
On top: epoxy resin, 6 x 6 mm marking field, marking time 45 ms
Below: epoxy resin, 2 x 1 mm marking field, marking time 10 ms

The integration concept
The small and compact all-in-one solution

FOBA C.0100 is that small and short that it can easily be carried under one's arm: Best prerequisites for the fast and smooth integration into tight production lines and electronic test and handling machines.
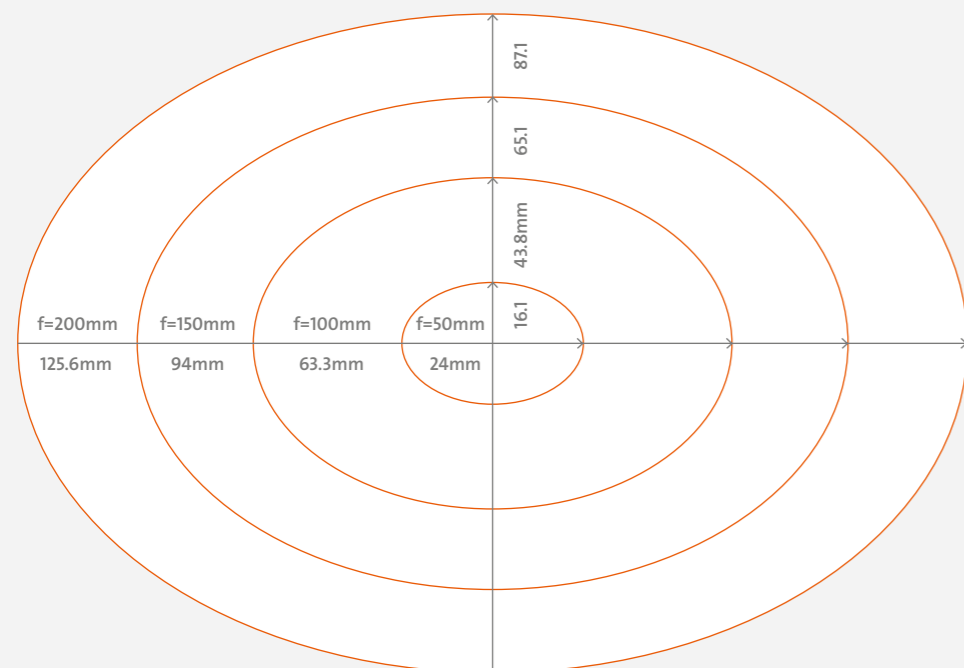
Mounting screws on all sides of the laser marking system allow for a trouble-free horizontal or vertical assembly. The beam can either exit the system in 0° or 90° direction so that a flexible integration is guaranteed anytime.

With regard to the software, the laser's scripting interface with Ethernet and RS232 interface ensures seamless integration even into complex production lines.

→ Shortest, most compact unit on the market
→ One-box design: easy and fast installation
→ Optimal suited for integration into test and handling systems
→ Smart system components: focus finder for adjustment of working distance
→ 30 % larger working distances compared to conventional systems

Front view with straight beam exit (0°)

The marking fields
Four focusing lenses for various applications

f=200mm	f=150mm	f=100mm	f=50mm
125.6mm	94mm	63.3mm	24mm

87.1
65.1
43.8mm
16.1

4 focusing lenses			
Working distance (mm)			
89	80	128	179
f=…mm			
50	100	150	200
50 mm focus lens for small line widths			

Marking fields, actual size

The software concept
Versatile, powerful, reliable: FOBA Draw

The intuitive and powerful graphical user interface FOBA Draw ensures user-friendly and flexible operation. FOBA Draw allows for the creation and editing of various laser marking jobs with a variety of available marking formats.

Communication
Ethernet (TCP/IP, 100Mbit LAN), RS232, digital I/Os
Inputs for encoders and product detector triggers
I/Os for the signals „start, stop, error, job select (32 different jobs with acknowledge), trigger, encoder; ready to mark, marking, shutter closed" and machine/user interlocks
Customer-specific solutions

FOBA Draw
Graphics-orientated user interface under Windows® XP/Vista for the intuitive and fast preparation of complete marking jobs on PCs
System configuration
Text/data/graphics/parameter editor
Configurable in 20 languages, e.g. in German, English, Japanese, Chinese
Easy access to standard CAD and graphic programs thanks to import functions for the most important file formats (DXF, JPG, AI, etc.)
WYSIWYG
Various password-protected security levels

FOBA Draw Com
ActiveX software interface for integration into operation software

For ultimate flexibility
Various marking formats

→ Multiple language fonts
→ Machine-readable codes (2D and bar codes)
→ Graphics/graphic components, logos, symbols, etc. (the most common formats can be imported)
→ Grayscale images and contents
→ Complex fillings (hatch, contour and meander)
→ Linear, circular and angular text marking; ring writing, rotation, reflection, expansion, compression, horizontal and vertical stretching of marking contents and texts
→ Sequence and serial numbering; automatic date, layer, time coding, real-time clock; online coding of individual data

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打标格式　打标格式　打标格式

BC25I

ECC200

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FOBA C.0100
Technical Data

Components of the marking system

Standard configuration	→ Marking unit Includes laser, digital high-speed galvanometer scanners, one lens with lens protection, controller, I/O panel, built-in keypad, power supply, connectors, lamps, switches, focus finder for adjustment of working distance → Beam exit straight (0°) or 90° → Marking software FOBA Draw
Laser	Sealed CO_2 laser, power class 10 W, central emission wavelength 10.6 µm, 4 focusing lenses
Laser class	4 (according to DIN EN 60825-1:2008-05)
Languages	English, French, German, Italian, Spanish, Portuguese, Chinese
Options	→ Beam shield → Exhaust unit → Product detector → Pilot laser → PC or laptop

User interfaces

Integrated keypad	→ Start and stop keys → LED indicators for status, laser emission, error
Marking software	FOBA Draw (configurable in 20 languages, part of standard delivery)
Software interfaces	Ethernet (TCP/IP, 100Mbit LAN), RS232, digital I/Os

Supply

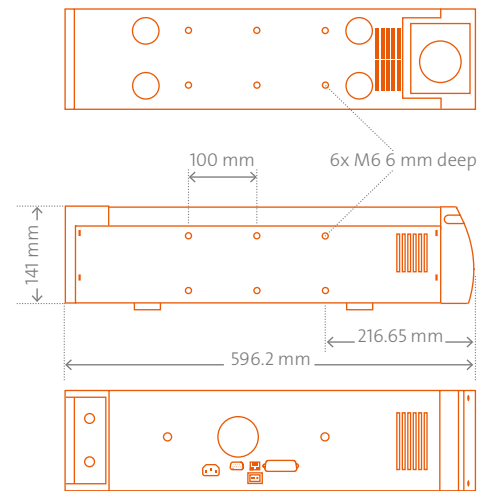|	
Electrical requirements	100−120V, 200−240V, Autorange 1PH, 350 VA, 50/60 Hz
Cooling	Internally air-cooled
Ambient temperature	5−35 °C
Humidity range	10−90 %, non-condensing
IP rating	IP30
Weight	Marking unit approx. 12.5 kg

146.8 mm

150.25 mm
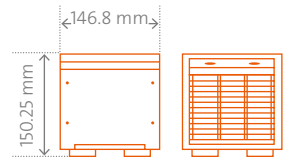
Front/rear view C.0100, 90° beam exit

100 mm

6x M6 6 mm deep

141 mm

216.65 mm

596.2 mm

Top view, side view and bottom view C.0100, 90° version

Rear view with integrated control panel

Your local agency