



FOBA Y.1000

*From zero to one hundred in a blink of an eye:
Ultrafast 100-Watt fiber laser for high contrast marks
on robust metals and plastics*

High performance pays off: In case of the new Y.1000 in form of **highest marking quality and speed, increased productivity and reliable product traceability and system uptime**. The small in size yet extremely powerful 100-Watt fiber laser marker applies crisp, clear marks on resistant materials that permanently withstand even the toughest conditions. This is why FOBA's Y.1000 is specifically suited for the marking of automobile parts and aerospace components – such as engine and powertrain parts, transmission components, hard plastic and plastic products such as cable or extrusion parts – that are exposed to high stresses and strains. In addition to the reliable marking quality, the fast line speeds meet the highest demands for increased throughput, manufacturing efficiency and productivity.

Your product benefits

- **High contrast marking at high-speed** on hard plastics, metals and other industrial products
+ Crisp and clear permanent codes at ultrafast line speeds ensure increased throughput, reliable traceability and tamper-proofing + High precision scan head delivers consistent high quality codes across the entire marking field
- **High performance and reliable uptime** with virtually maintenance-free, air-cooled laser
+ Source life expectancy > 100,000 hours
- **Built-in productivity** + High line speeds (up to 600 m/min) for mark-on-the-fly applications
+ 498 mm wide marking field (with f=420 mm lens) provides more time to mark, more throughput and higher productivity
- **High line integration capability** + Compact mechanical design for easy integration in tight environments + flexible configuration and interfacing options for line and OEM integrations



Top: Brake caliper → marking
time 14.4 s | Bottom: Brake disc
→ marking time 4.6 s



FOBA Y.1000 Fiber Laser Marker

Technical Data

Marking features

Marking head	CP10 with various precision optics for focusing (f=100/163/254/420 mm)
Marking fields*	Various fields, ranging from 60 x 76 mm ² (f=100 mm) up to 315 x 368 mm ² (f=420 mm)
Marking speed*	Up to 10 m/s (600 m/min)

Laser source

Type	Pulsed Ytterbium fiber laser (Yb), 100 W, several pulse frequency ranges, wavelength 1,064 nm
Laser class	4 (acc. to IEC 60825-1)

User Interfaces

- PC software: FOBA Draw (on separate, external, optional Win7 PC), FOBA MarkUS as of Q2.2018 (on separate, external, optional Win10 PC)

Interfaces

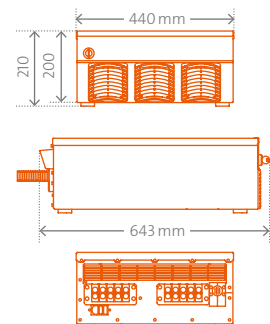
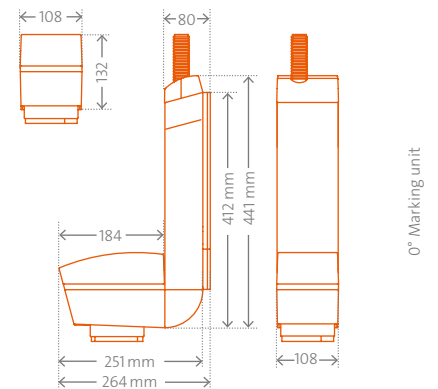
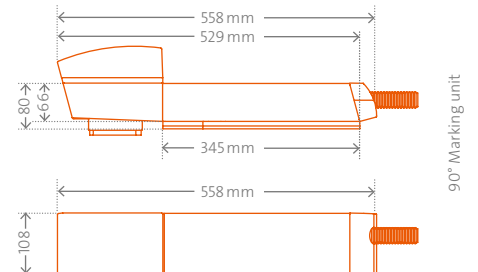
- Ethernet, RS-232 (Profibus, Profinet, TCP/IP as of Q2.2018 with MarkUS)

Supply

Electrical requirements	L/N/PE 100–240 VAC, 50/60 Hz
Power consumption	700 VA max.
IP rating	→ Marking unit IP54 → Supply unit IP22
Cooling	Air-cooled, auto overheat protection
Temperature	10–35 °C, up to 40 °C with a duty cycle of 70 %
Humidity	10–90 %, non-condensing
Weight	→ Marking unit approx. 8 kg → Supply unit approx. 25 kg

Scope of delivery	→ Fiber laser marker with selectable tunings (High-Q tuning, High-S tuning) and pilot laser
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Options, accessories	→ Customer specific plug-ins → Exhaust systems
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* Depends on the application