



FOBA Y.0201-DN

*Forward-thinking technology for backlit components:
The new standard for high-speed, high-precision
day & night marking (paint removal)*

Day & night design of painted controls as well as backlit dashboards and buttons requires fast, high-quality and high-precision marking (paint removal). Over the past 25 years, FOBA has established itself as a preferred marking solution for global manufacturers and automotive suppliers. FOBA lasers apply functional marks that convince on various colors, coatings and materials with their utmost black-white brilliance or superior light-dark contrast.

These proven solutions are now being enhanced by a **new day & night marking laser especially tailored for demanding paint removal applications**: The Y.0201-DN comes with an integrated vision system for increased precision and up to 80 percent less scrap due to marking, and with up to 50 percent shorter process times.* This makes the new high-precision fiber laser marker the new benchmark for the repeatable layered color and paint removal. The marking results are of superior quality, and users can rely on the low operating costs and extra productivity the system ensures.

Your product benefits

- **Superior marking quality at 50 percent higher* marking speed** + More throughput due to larger marking field + Enhanced application range due to smaller spot size and optimized beam quality (finest, highly precise removal, sharp contours, no melting)
- **Low operating costs** thanks to 8 times longer lifetime of laser source** + High uptime due to efficient and low maintenance air cooling, improved beam stability, resistance against critical environmental conditions (i.e. high temperatures) and dust-tight IP64 laser head
- **Shortest setup** with Autofocus in the M-Series workstations (3 times faster vs. manual focus finding) and due to intelligent software features (Parameter Matrix Tool, contour offset, mark alignment, etc.)



Backlit buttons with day & night design marking



*compared to similar products on the market **and to conventional Nd:YAG systems

FOBA Y.0201-DN Fiber Laser Marker

Technical Data

Marking features

Marking head	SS10 with high-precision focusing optic (f = 420 mm)
Marking field*	307 x 307 mm ²
Marking speed*	Up to 20,000 mm/sec., up to 800 characters/sec.

Laser source

Type	Pulsed Ytterbium fiber laser (Yb), 20W, several selectable pulse durations from 4 to 200 ns, wavelength 1064 nm
Laser class	4 (acc. to IEC 60825-1)

Interfaces

- PC software FOBA MarkUS and FOBA Draw (on separate, external, optional Windows 7 or Windows 10 PC**)
- TCP/IP, Profibus, Profinet (optional)

Supply

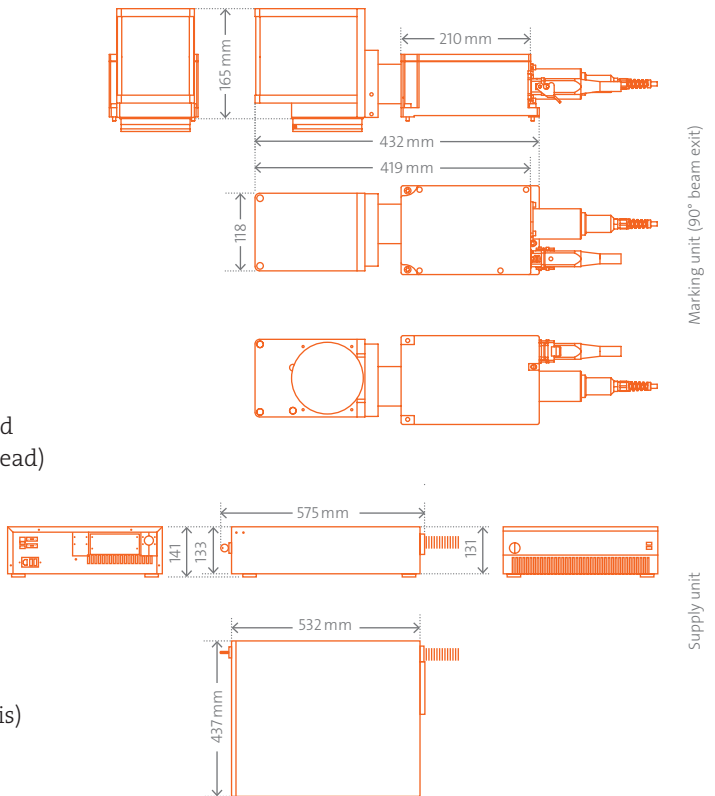
Electrical requirements	L/N/PE 100–240 VAC, 50/60 Hz
Power consumption	400 VA
IP rating	→ Marking unit IP64 → Supply unit IP21
Cooling	Air-cooled, auto overheat protection
Temperature	5–40 °C
Humidity	10–90 %, non-condensing
Weight	→ Marking unit approx. 10 kg → Supply unit approx. 19 kg

Scope of delivery

- Fiber laser marker
- IMP camera for mark alignment and validation (integrated in marking head)
- Lighting for camera systems IMP, Point & Shoot
- Rotating units (with M-Series)
- Customer specific plugins
- Exhaust systems

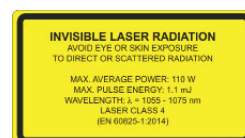
Machine integration

- M2000/3000-B (workstations with worktable and programmable Z-axis)
- M2000/3000-P (workstations with programmable axes X, Y, Z)
- M2000/3000-R (workstations with 2-station rotary table and programmable Z-axis)



* Depends on the application ** with MarkUS version 2.12 as of Q2 2018

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