



FOBA M1000

Compact laser workstation for marking components and batches

The compact manual laser workstation FOBA M1000 has been designed for use with our high-quality laser markers for small to medium sized parts, work pieces and batches. It is ideally suited for manufacturers with low volume requirements or where space constraints demand an efficient solution. The workstation can also be cart mounted for mobility throughout a user's facility.

The compact M1000 can be employed in a variety of industrial applications, whether it is metal, plastic or other laser markable materials. The workstation is perfectly suited for the automobile, tool and metal industries but also for engineering or medical technology applications.

The desktop workstation is operated in laser safety class 1 and comes with a programmable Z-axis, a small worktable and a smoothly opening lift door – available either as manual or as optional electric lift door. When open, the interior space is accessible from three sides. In order to cover the broadest possible spectrum of applications, various fiber laser markers are available for integration. As a standard, the M1000 is supplied with an integrated lighting, a large window and an exhaust nozzle.

Your product benefits

- **Design:** small and compact desktop workstation with programmable Z-axis for flexible and mobile use
- **Ergonomics:** wide and easily opening door for a comfortable loading/unloading, perfectly visible and accessible; optional mobile, height adjustable worktable
- **Productivity:** small footprint, optimal accessibility, air-cooled laser systems, comfortable handling
- **Flexibility** in operation, manual laser adjustment to the left, right, front and rear for the processing of larger components
- **Safety:** workstation complies with European safety requirements (performance level d)



Day/night design switch:
demanding lacquer removal
Scalpel holder: black marking
on metal





Ergonomic manual workstation

For comfortable operation and portable use

FOBA's M1000 is a compact workstation for benchtop or cart mounted operation at the user's discretion. With a minimal footprint and generous working area, the user-friendly M1000 can be easily integrated in various environments for low- to medium-volume production requirements. With the built-in programmable focus and tooling plate, job setups are easy and highly repeatable.

- **Comfortable sitting or standing:** The M1000 is perfectly designed for both seated and standing use. Parts no longer have to be lifted as loading and unloading take place almost at tabletop level.
- **Mobile operation:** The laser workstation M1000 together with the supply unit, laptop and exhaust unit fits comfortably on the optionally available height adjustable and easily movable worktable.
- **Easy to open and close:** The smooth-running lift door ensures comfortable operation – particularly when the workstation is fully utilized to capacity due to the processing of batches. *On request, an electrical door is available that can be controlled via a manual or a foot switch.* Both switches can also be used to start a marking job.
- **Easy to load and unload:** Once the lift door is completely open, parts can be loaded or unloaded comfortably. The workspace is well accessible from the front and the sides.
- **Easy visibility:** Thanks to the wide upward opening lift door and integrated lighting the complete workspace of the M1000 is easily visible. Additionally, the large laser safety window allows the operator to maintain an overview even during the marking process.
- **Easy operation:** Major control elements and status displays are integrated in the membrane keyboard of the connected supply unit.



Supply unit



Pulsed fiber marking laser for integration

Highly efficient: FOBA's smallest marking machine

The minimal footprint and optimal accessibility ensure high efficiency in a small space. FOBA's compact M1000 workstation makes maximum use of the available space and almost fatigue-proof loading and unloading with a wide easy operating door for interior access.

Near maintenance-free air-cooled laser marking systems are available for integration with the M1000. These laser systems apply high-quality laser marks both efficiently, reliably, and repeatably even in low-volume operations.

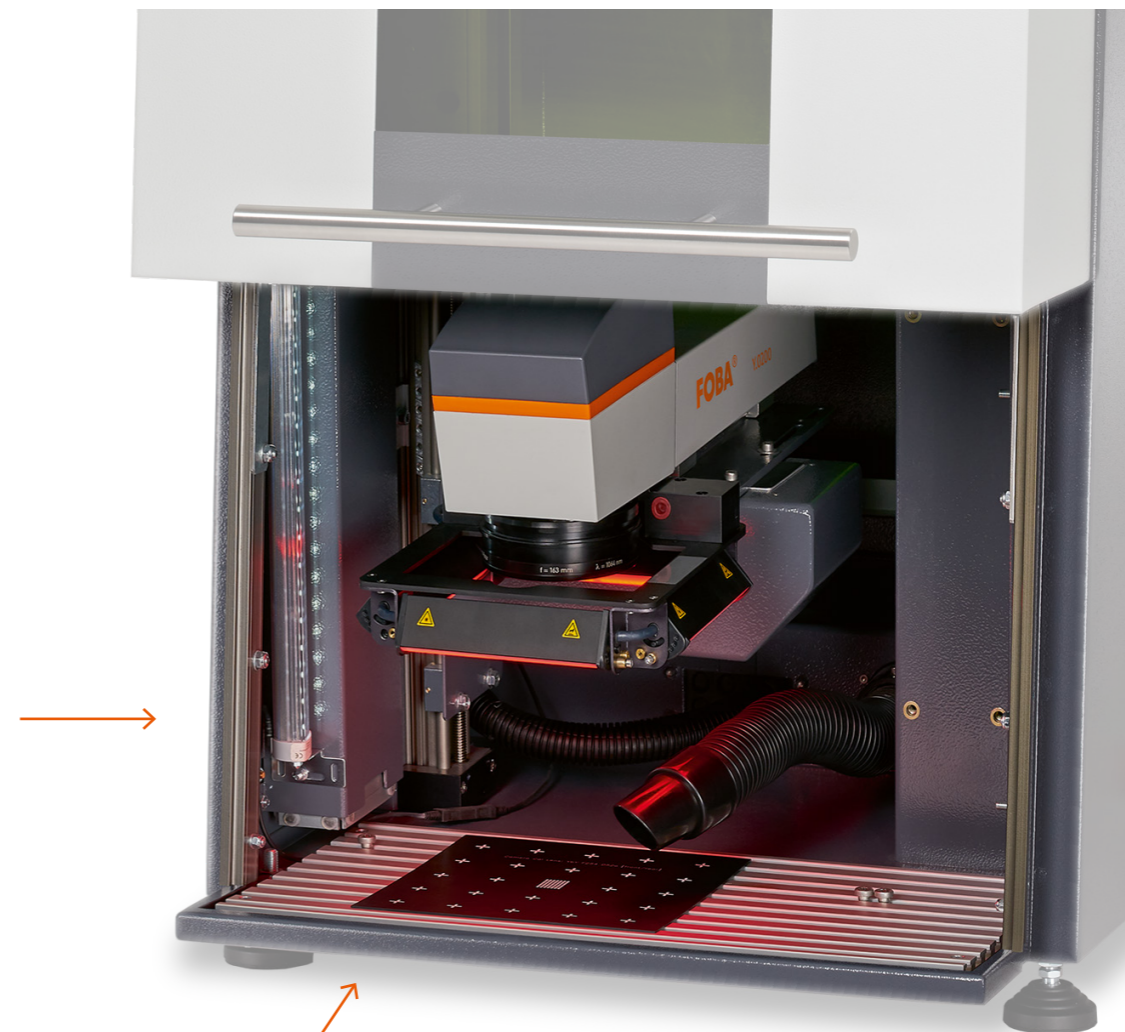


M1000 with lift door closed and completely open



1,210 mm with open door

Height: 780 mm with door closed



Optimal accessibility pays off during daily use: The inside of the workstation has excellent visibility. Thanks to the large doorway the M1000 can be easily accessed from three sides. To-be-processed parts and components are as quickly placed as they are removed.

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Technical Data

Model Table-top laser workstation with programmable Z-axis

Available laser systems

Fiber laser markers Y.0100, Y.0200, Y.0300, Y.0201, Y.0301, Y.0500

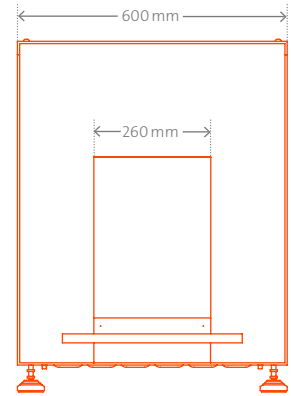
Workstation

Workspace 450 x 250 mm
Max. load Up to 25 kg
Max. work piece size 450 x 250 x 200 mm (W x D x H)
Lift door Manual opening, max. doorway 430 mm
User interfaces → Laser marking software FOBA MarkUS (on separate, external, optional Win 10 PC)
 → Ethernet interface
 → Operation via a laptop/all-in-one PC/remote PC
Axes Programmable Z-axis
 → Travel 298 mm
 → Travel speed up to 20 mm/s
Dimensions 600 x 702 x 780 (L, D, H)* mm (W x D x H)
Footprint 0.45 m²
Weight Housing** approx. 55 kg, marking unit (laser) approx. 5 kg, supply unit approx. 20 kg
Safety class Laser class 1 (according to DIN EN 60825-1)
IP rating Housing IP43, supply unit IP21

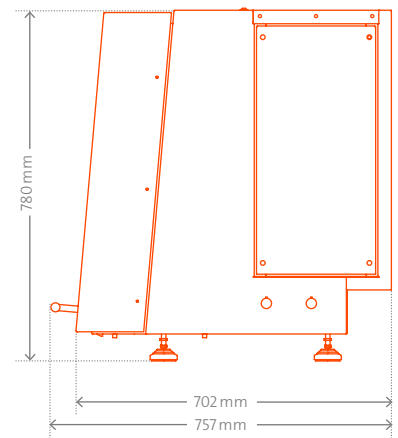
Supply Depends on workspace and utilized laser system
Electrical requirements L/N/PE 100–240 VAC, 50/60 Hz
Power consumption Depends on integrated laser system, fiber lasers listed above: 400 VA
Temperature 5–35 °C
Humidity 10–90%, non-condensing

Scope of delivery → Laser workstation M1000 with integrated Z-axis
 → Configurable laser system
 → Laser marking software MarkUS

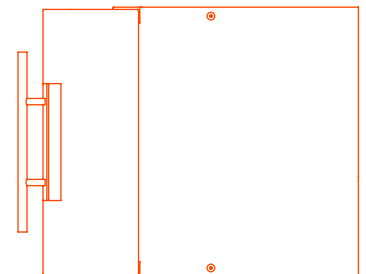
Options and accessories → Electric lift door
 → Vision systems IMP*** and Point & Shoot***
 → Mobile worktable
 → Exhaust systems
 → Accuracy package



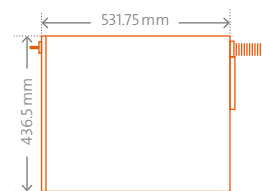
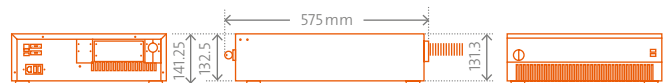
Front view



Side view

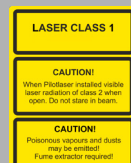


Top view



Supply unit

* Height with door completely open ** Without laser and external components *** The workstation depth is extended by 100 mm (802 mm)



Laser class 1