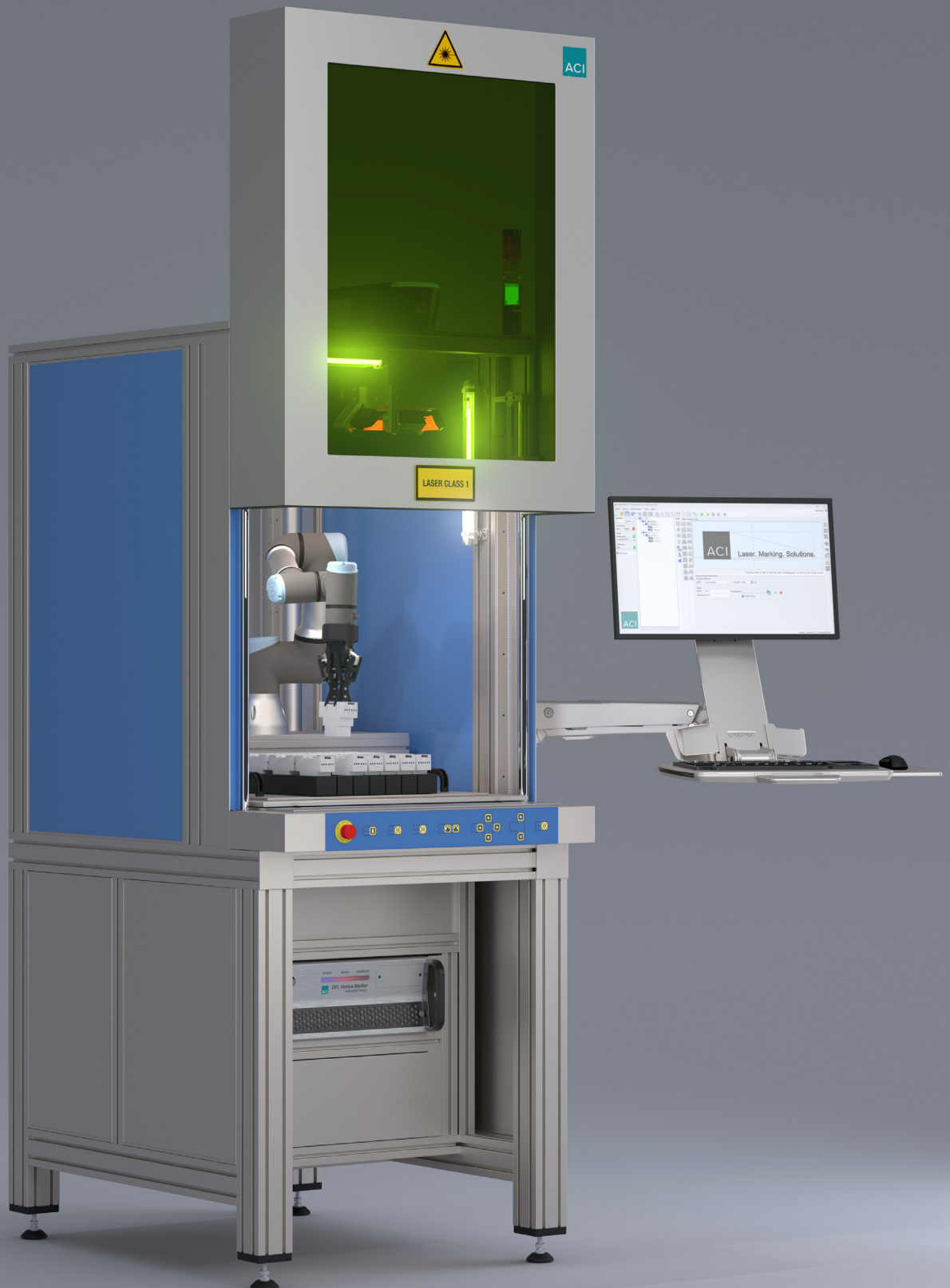




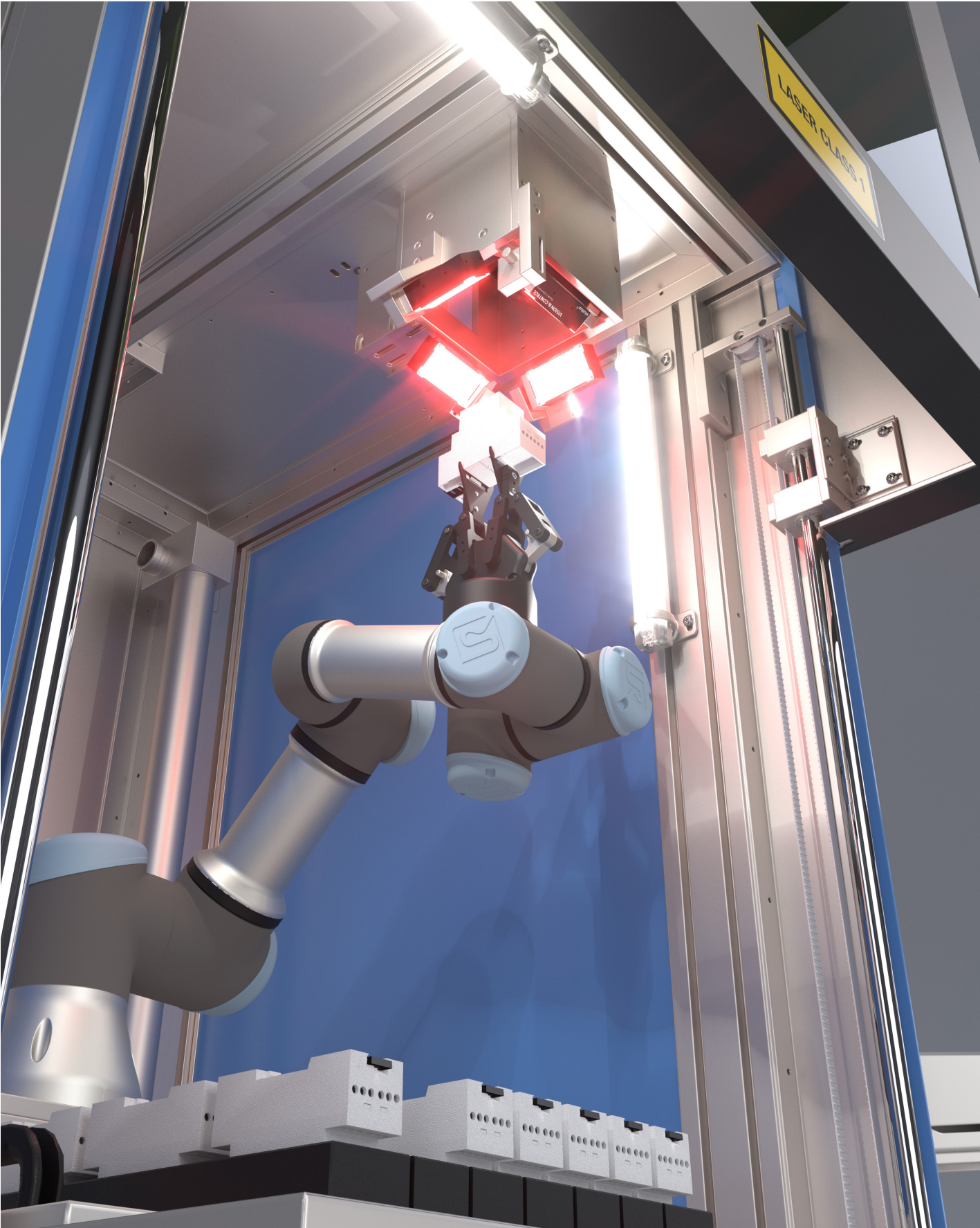
Workstation Robotic

The automated laser station

The **Workstation Robotic** is a laser station equipped with an ultra-lightweight, compact industrial robot. The robot boasts excellent repeat accuracy, enabling products to be machined to consistent quality standards and with a high cycle time.

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Workstation Robotic



Workstation Robotic

Flexible laser marking station with industrial robot

A robot which is integrated into the **Workstation Robotic** is able to rapidly execute complex motion sequences when handling objects. Components can be automatically rotated, tilted or flipped so that they can be marked in any position on more than one side. The station is suitable for automated laser marking of large batches, as well as large and heavy components, or alternatively, large batches of small components, which can be machined in multi-position holders.

→ Features/properties

→ Optional features

→ Technical specifications

Features/ properties

- Can be combined with any of ACI's lasers
- Laser marking on multiple sides, e.g. three-sided marking
- 360° circumferential marking, e.g. shank tools
- Laser class 1
- Integrated control panel
- Large laser safety window
- Electric door
- Industrial PC
- Flexible monitor arm

Optional features

- Motorised Y-axis/Y-axis table
- Imaging systems for camera-assisted laser marking (AOI)
- ID-/code-reading systems (code reader, tool reader)
- Workpiece holders
- Laser extraction system with control line and suction hose (external)



An industrial robot integrated into the **Workstation Robotic** automatically removes objects from a pallet and replaces them afterwards. Six articulated joints allow free movement anywhere within the laser station. This means that there are fewer steps for the user to perform and cycle times are therefore reduced. Especially when handling delicate components, robots offer considerable potential savings through improved product quality.

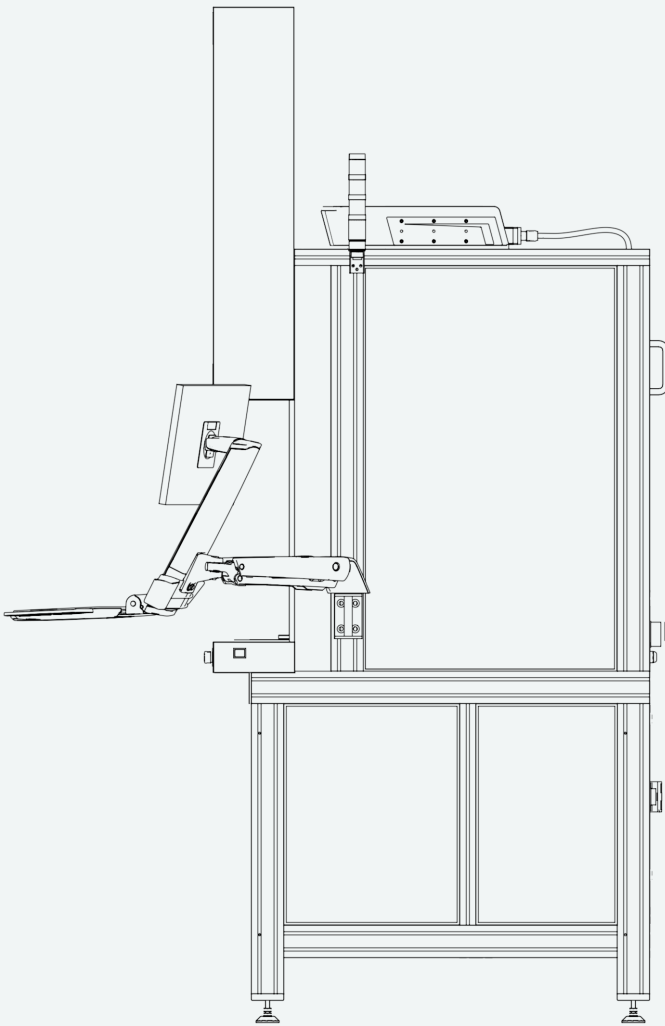
Time-consuming changeover times are no longer needed because the robot can be easily reprogrammed for different components. An individual gripping system can be selected to match the component. The robot is fully integrated into the laser station's safety circuit. The Magic Mark laser software provides an intuitive control function.

Other handling systems can be added to the **Workstation Robotic** to make process sequences and checks even more efficient. It is also possible to integrate camera-based position recognition systems (AOI) or reading systems for retrieving, reading back and checking codes and plain text into the laser station.

The **Workstation Robotic** is a system solution that complies with the requirements of laser safety class 1 and does not require any additional safety measures. It can be combined with any of ACI's lasers.

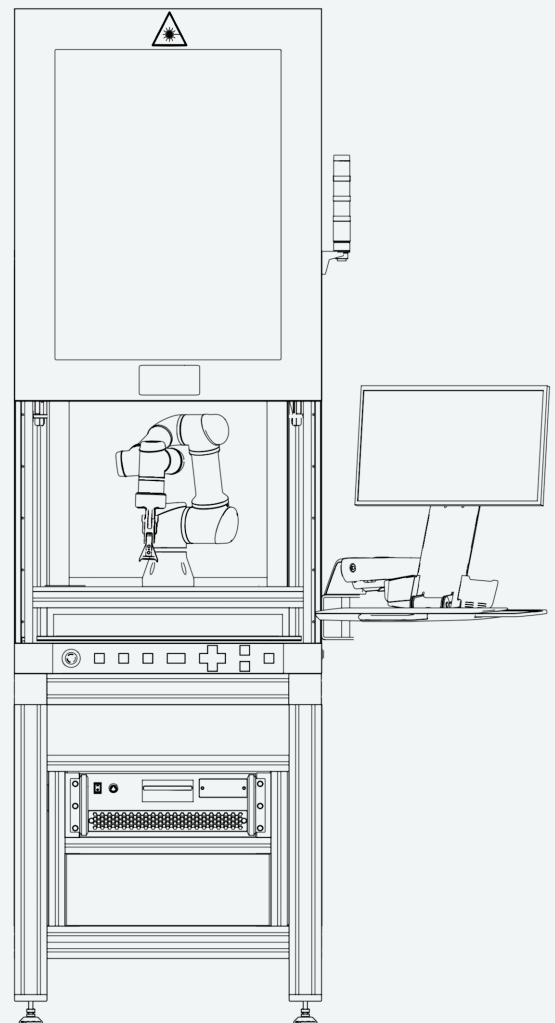
Workstation Robotic

Views



**Frame (with feet)
when door is open**

Dimensions (W×H×D)
760x2690x1090 mm ¹



**Frame (with feet)
when door is closed**

Dimensions (W×H×D)
760x1901x1090 mm ¹

¹ Dimensions apply without monitor arm

Technical specifications

Laser station

Size (W×H×D) ¹	760 x 1901 x 1090 mm – when door is closed 760 x 2690 x 1090 mm – when door is open
Surface area of installation space (W×H×D)	650 x 920 x 1000 mm
Clamping plate of Y-axis table (W×D)	615 x 430 mm
Travel of Y-axis table (W×D)	240 mm
Load capacity of Y-axis table (max.) ²	25 kg
Software	Magic Mark V3

¹ Specifications apply with feet

² Assumes evenly distributed load when using a Y-axis

6-axis robot

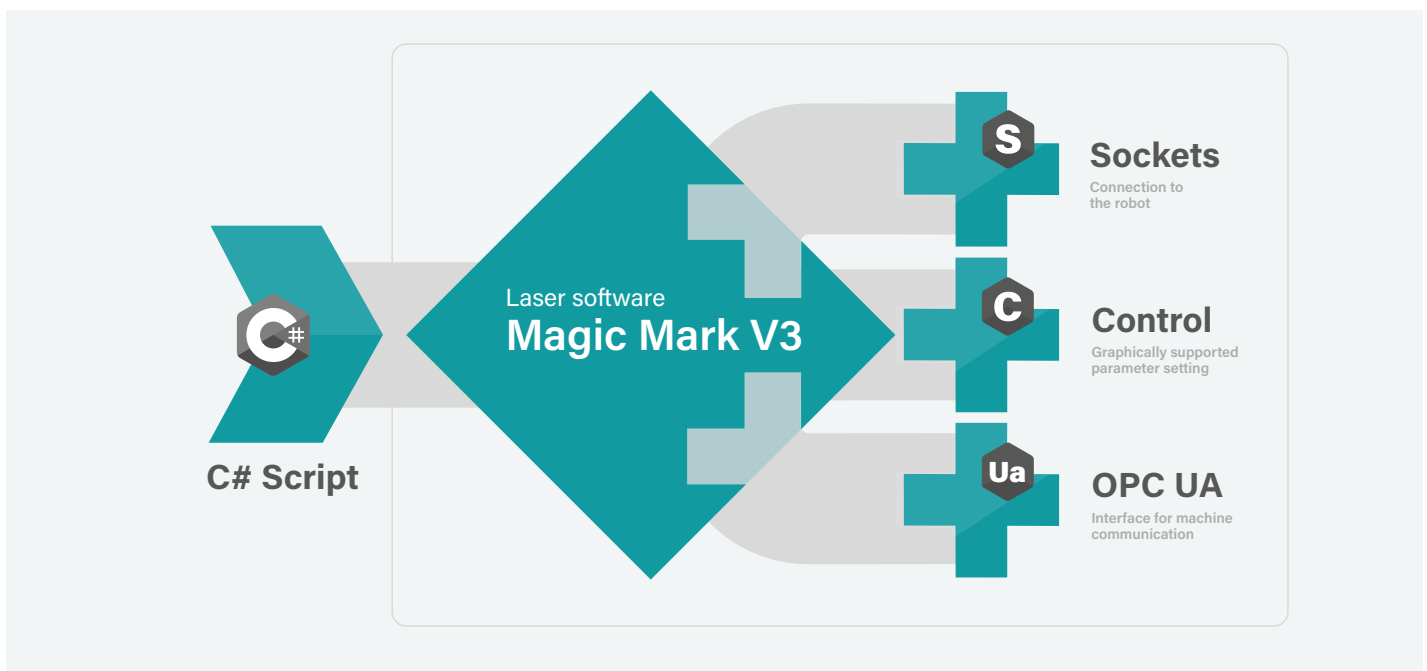
Robot type	UR3e
Weight	11.1 kg
Load capacity (max.)	3 kg
Working range	500 mm
Repeat accuracy	±0.03 mm
Degrees of freedom	6 rotating articulated joints
Speed	All wrists: 360°/s Other articulated joints: Max. 180°/s Tool: Approx. 1 m/s
Programming (optional)	Graphical user interface on 12-inch panel

Control



The modern software architecture of the **Magic Mark V3** laser software enables targeted access to all available functions and allows users to control the laser and laser peripherals (workstation, axis of rotation, etc.).

The Sockets plugin provides the connection (interface) between the robot and the Magic Mark laser software and is responsible for sending control commands. The Control plugin is used to control and implement the entire program sequence of the robot from Magic Mark.



Internal programming

VB.Net [Winwrap Basic]
integrated into Magic Mark V3

External programming

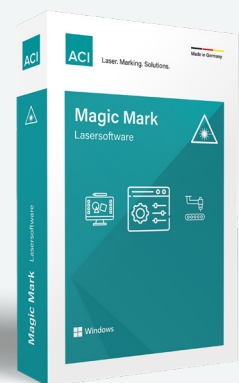
C#.Net [MS Visual Studio]
Access to class library

Benefits of Magic Mark V3

Software package included with product

Predefinable parameter sets

Easy addition of features using plugins





Partnerships with ACI Laser

Benefits for customers

The search for excellent partnerships is at the heart of everything we do. We offer our customers sustainable solutions based on all-encompassing advice, reliability and stability.

ACI Laser embodies:

- ✓ *Made in Germany* development and production with over 25 years of experience
- ✓ Complete solutions from a single source:
Laser systems, protective housings, software and accessories
- ✓ Customisable laser systems
- ✓ Functions can easily be added to the software using plugins



Made in Germany



We would be happy to advise you.

We guarantee you a tailor-made, all-in-one solution that meets the requirements of your application. Our experienced sales team provides you with comprehensive, in-depth advice. We look forward to hearing from you.

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