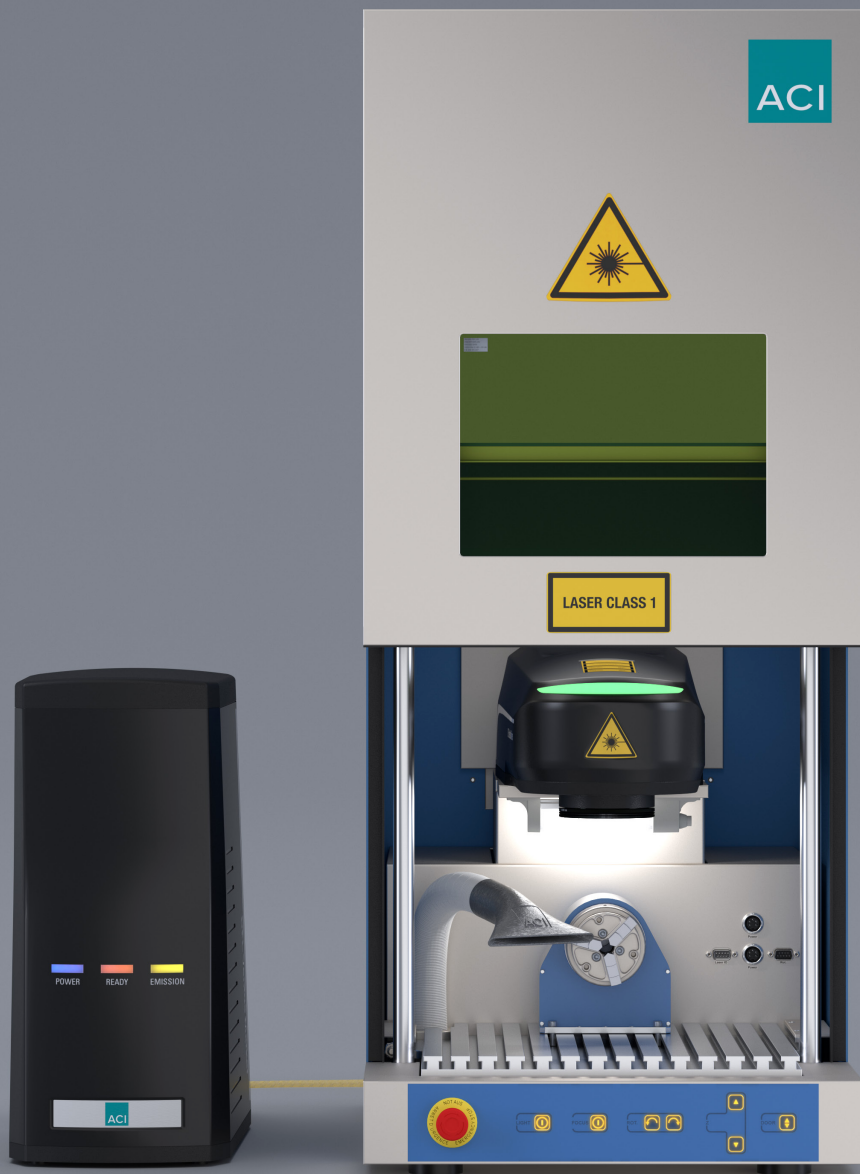




Workstation Classic

The flexible laser station

Laser marking with guaranteed quality

Laser stations from ACI are designed as manual workstations for laser material processing of individual parts and small series, as well as fully automated all-in-one solutions for large quantities.

ACI's laser stations can be used in conjunction with any of our laser markers or laser trimmers, making them suitable for machining virtually any material.

CONTENTS

- Workstation Classic &
Workstation Classic XL | Page 3
- Software-based control | Page 10
- Collaborating with ACI | Page 12
- Contact details, legal information | Page 13

Workstation Classic

Workstation Classic XL



Workstation Classic & Workstation Classic XL

Compact manual laser stations

Typically, the **Workstation Classic** is used for machining small components in small- to medium-sized batches. The compact protective housing has an integrated, motorised Z-axis as standard, which enables components with height variations to be marked.

If needed, the **Workstation Classic XL** laser station variant offers a more capacious working chamber and larger marking area.

→ Features/properties

→ Optional features

→ Technical specifications

Features/properties Optional features

- Focus finder
- Motorised Z-axis
- Laser class 1
- Integrated control panel
- Large laser safety window
- Electric door
- Scope for connecting an external extraction and filtration system

- Axis of rotation for uniform marking around the circumference of workpieces (360°)
- Imaging system (CPM, AOI) for camera-assisted laser marking
- Code- and ID-reading system (code reader, tool reader)
- Type plate handling system
- Desktop or industrial PC

- Workpiece holder (e.g. prism device, changing device)
- Laser extraction system with control line and suction hose (external)

The **Workstation Classic** is a manual workstation and boasts a compact, ergonomically optimised design that is practical and incredibly user friendly.

This laser station can be used in conjunction with any laser marker, making it suitable for machining virtually any material.

The **Workstation Classic**'s working chamber is easy to access and has a T-slot table. This table has a mounting surface of 340 × 360 mm and can be loaded with parts up to a weight of 25 kg. In the **standard version** (Economy Diode, Business Diode and Business CO₂ series), which features Nd:YAG lasers, the integrated Z-axis allows the laser to travel up to 100 mm. The maximum possible component height and marking area depend on which laser system and lens are used. With a standard, 163-mm lens, the maximum possible component height is 150 mm and the maximum possible marking area is 110 × 110 mm.

In the **version with fibre lasers** (Economy Fibre and Business Fibre series), the laser's Z-axis travel is 150 mm. If a standard, 163-mm lens is used, the maximum possible component height is 150 mm. With the **Workstation Classic XL** variant, a larger maximum component height of

up to 270 mm is possible. A maximum marking area of 110 × 110 mm can be achieved. Using a 254-mm lens, a marking area of up to 180 × 180 mm is possible. With this lens, the maximum possible component height is 143 mm.

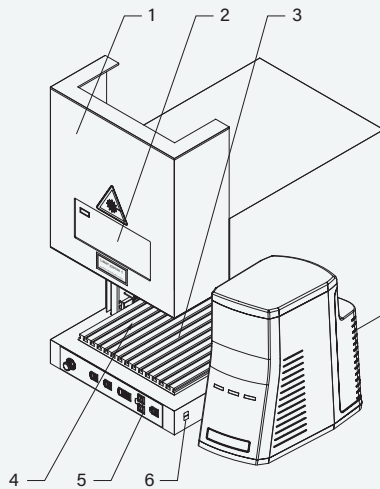
A focus finder, consisting of two pilot lasers, helps the user to find the optimal Z-axis position in no time at all. Within just a few seconds, the correct working distance can be established between the laser and the component. The laser system has an integrated pilot laser preview function, which makes it easy to position marking content in the X-Y direction.

The **Workstation Classic** and **Workstation Classic XL** are turnkey system solutions that comply with the requirements of laser safety class 1 and do not require any additional safety devices. This makes them an attractive alternative to conventional marking technologies, even for small companies.

Workstation Classic

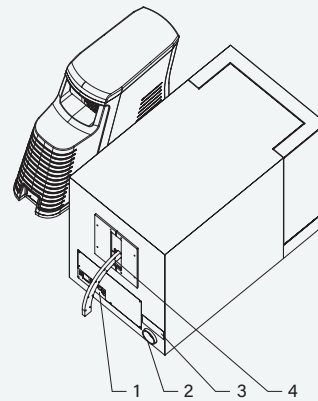
Views

With fibre laser



Front view

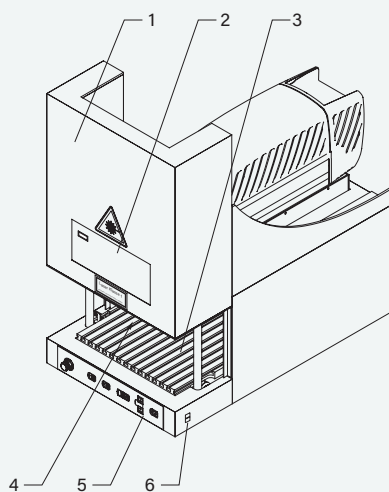
- | | |
|-------------------|-----------------|
| 1 Safety door | 4 T-slot table |
| 2 Viewing window | 5 Control panel |
| 3 Working chamber | 6 Power switch |



Rear view

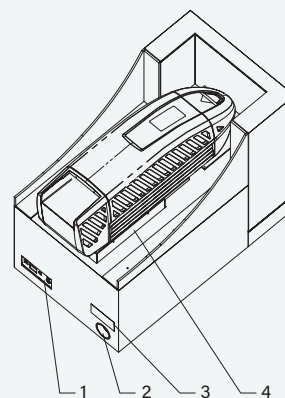
- | |
|--------------------------------------|
| 1 Rear connection points |
| 2 Extraction system connection point |
| 3 Type plate |
| 4 Fibre laser cable |

With Nd:YAG laser



Front view

- | | |
|------------------|-------------------|
| 1 Safety door | 4 Working chamber |
| 2 Viewing window | 5 Control panel |
| 3 T-slot table | 6 Power switch |



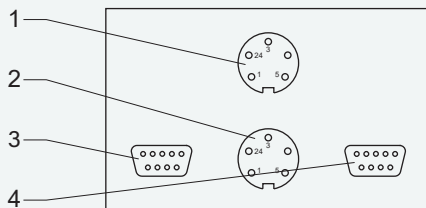
Rear view

- | |
|--------------------------------------|
| 1 Rear connection points |
| 2 Extraction system connection point |
| 3 Type plate |
| 4 Mounting plate |

Workstation Classic

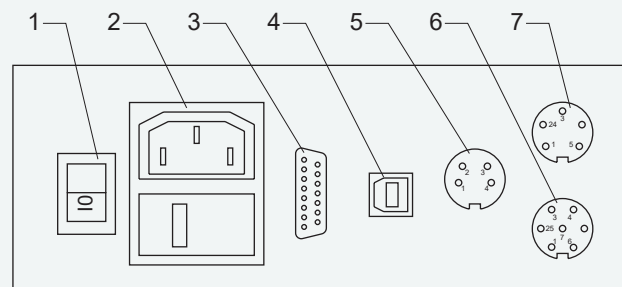
Working chamber & rear connection points

With fibre laser



Working chamber connection points (with fibre laser)

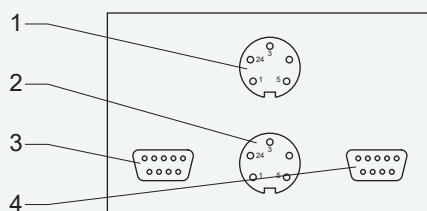
- 1 Power 2
- 2 Power 1
- 3 Laser I/O
- 4 Adapter for axis of rotation



Rear connection points (with fibre laser)

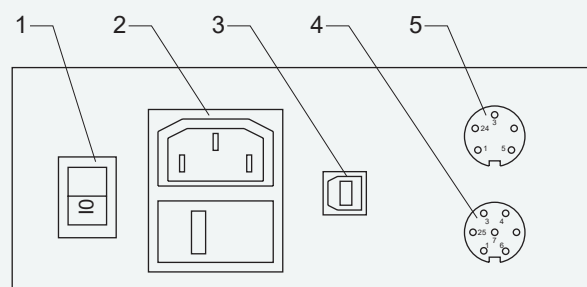
- 1 Power switch
- 2 Power input module with fuse module
- 3 Laser I/O
- 4 USB for PC
- 5 Interlock
- 6 Extraction system
- 7 External start

With Nd:YAG laser



Working chamber connection points (with Nd:YAG laser)

- 1 Power 2
- 2 Power 1
- 3 Laser I/O
- 4 Adapter for axis of rotation



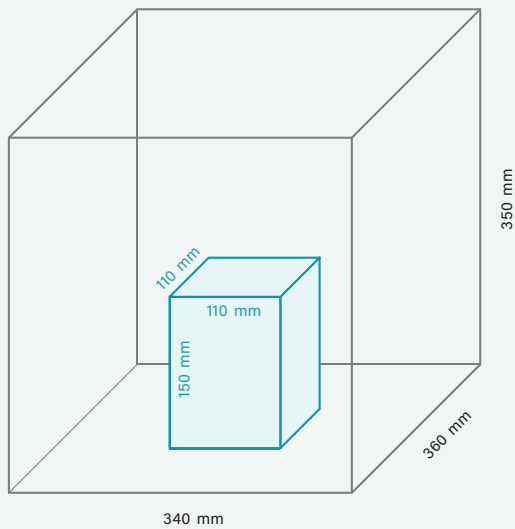
Rear connection points (with Nd:YAG laser)

- 1 Power switch
- 2 Power input module with fuse module
- 3 USB for PC
- 4 Extraction system
- 5 External start

Workstation Classic

Marking volumes

With fibre laser



Marking volume (wxdxh)

110 × 110 × 150 mm

Marking area

110 × 110 mm

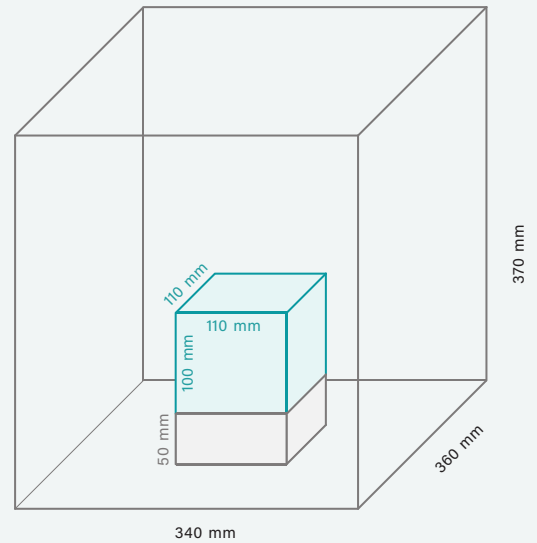
T-slot table

340 × 360 mm

Working chamber (wxdxh)

340 × 360 × 350 mm

With Nd:YAG laser



Marking volume (wxdxh)

110 × 110 × 100 mm

Marking area

110 × 110 mm

T-slot table

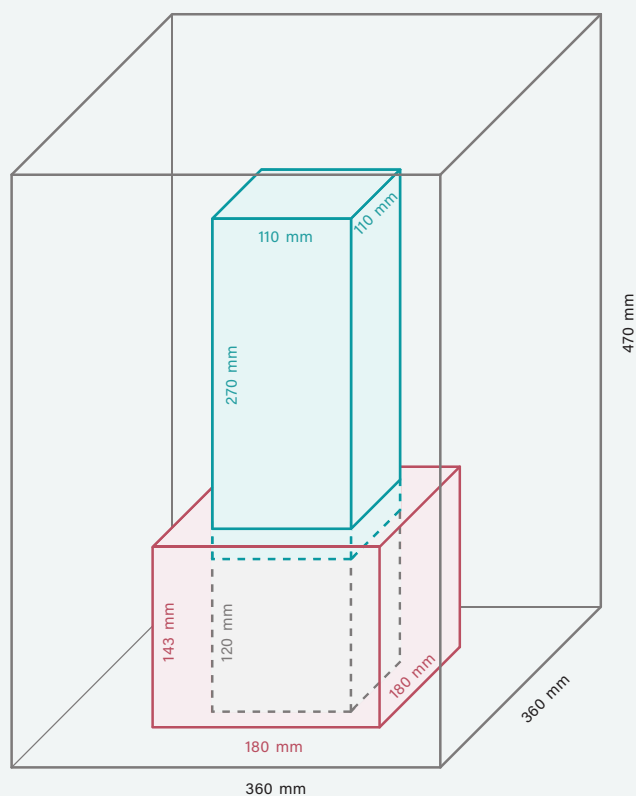
340 × 360 mm

Working chamber (wxdxh)

340 × 360 × 370 mm

In conjunction with Economy Fibre and Business Fibre **fibre lasers**, using a standard, 163-mm lens.

In conjunction with Economy Diode and Business Diode IR **Nd:YAG lasers** and Economy Fibre and Business Fibre fibre lasers, using a standard, 163-mm lens.



With 163-mm lens

Marking volume (wxdxh)

110 × 110 × 270 mm

Marking area

110 × 110 mm

T-slot table

340 × 360 mm

Working chamber (wxdxh)

340 × 360 × 470 mm

With 254-mm lens

Marking volume (wxdxh)

180 × 180 × 143 mm

Marking area

180 × 180 mm

T-slot table

360 × 360 mm

Working chamber (wxdxh)

340 × 360 × 470 mm

In conjunction with Economy Fibre and Business Fibre **fibre lasers**.

Technical specifications

Workstation Classic

	Workstation Classic with Nd:YAG laser	Workstation Classic with fibre laser	Workstation Classic XL with fibre laser
Dimensions (max.) ¹ l × w × h	760 × 450 × 600 mm	760 × 450 × 650 mm	760 × 450 × 730 mm
Mounting plate	340 × 360 mm		
T-slot table load (max.) ³	25 kg		
Z-axis travel ²	100 mm	150 mm	270 mm
Software	Magic Mark V3		
Laser safety class	1		

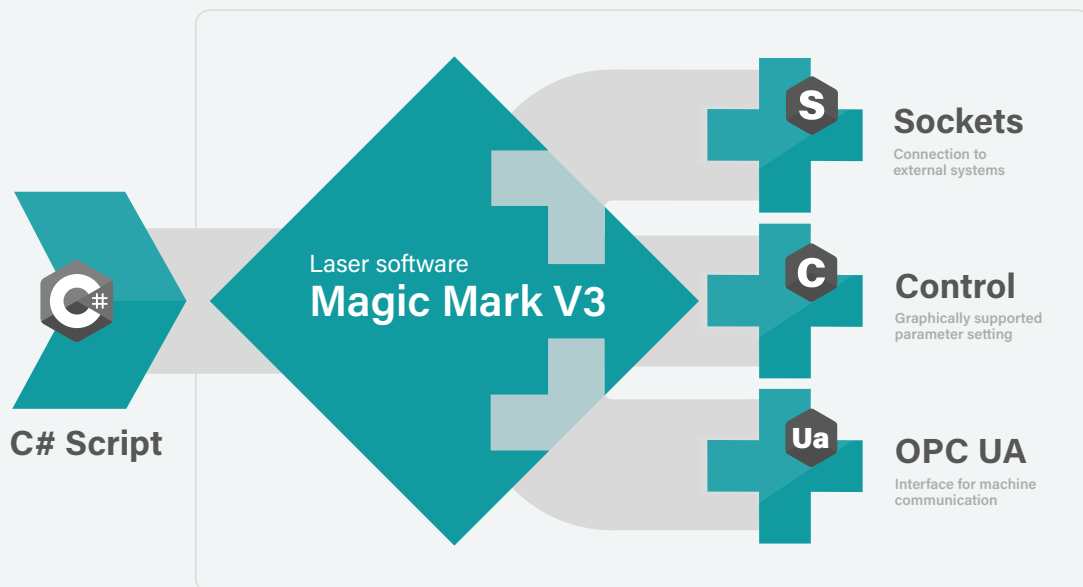
1 Figures listed assume that the safety door is closed and exclude feet

2 Assumes evenly distributed load

3 Height adjustment using focus finder function

Software-based control

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



Internal programming

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

External programming

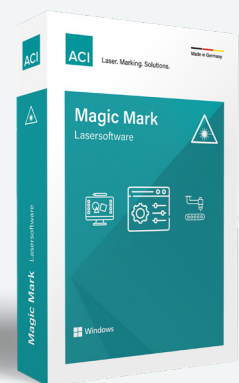
C#.Net [MS Visual Studio]
Access to class library

Benefits of Magic Mark V3

Software package
included in the scope of supply

Predefinable
parameter sets

Easy addition of features
using plugins



Lasers for engraving, marking & trimming.



As a laser manufacturer, we help our customers decide on the right system for them – a system perfectly tailored to their needs.

Our laser systems are available in the form of flexible manual workstations or components that can be integrated into production lines.



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.

© ACI Laser GmbH
www.aci-laser.com

Last updated: 03/2026
Subject to change

Company headquarters
Steinbrüchenstr. 14
D-99428 Grammetal,
Germany
T +49 3643 41520
kontakt@aci-laser.de

Chemnitz Sales Office
Leipziger Str. 60
D-09113 Chemnitz,
Germany
T +49 371 238701-30
soc@aci-laser.de