

Automated laser marking system SIM-Marker



Successful together!

SIM Automation GmbH

Manufacturer of:

- Customised assembly systems
- Testing and inspection systems
- Feeding systems

Keyence Deutschland GmbH

Manufacturer of:

- Laser marking equipment
- Sensors / optical measuring technology
- Microscopes / macroscopes

If you need:

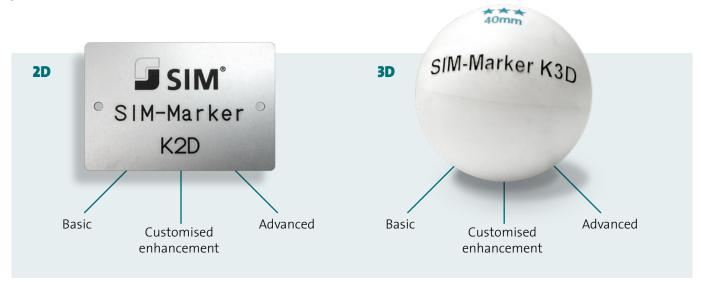
- Product traceability
- A self-contained marking system with integrated autofocus for simultaneous X, Y and Z-axis control of the laser beam
- Fully automated marking of your products, e.g. with barcode, DMC code, series and batch number or plain text for quality-related information
- A customised solution

The SIM-Marker is the right choice for you!





3 versions of the SIM-Marker are available in 2 different models



SIM-Marker versions	
BASIC (manual operation)	 Mechanical Z-axis, focal point is set manually using adjusting wheel Manual opening and closing of lift door once the safety mechanism is enabled PC link
ADVANCED (automated operation)	 Electrical Z-axis, focal point is set using operator push-buttons Opening and closing of lift door using operator push-buttons PC link
Customised	 Customised version of the SIM-Marker to meet customer requirements

Laser variants

MD-X series



MD-F series



ML-Z series



MD-X series

Keyence YVO₄ laser marking system 13W / 25W

- Marking of metal, plastic and ceramic
- Processing of thin films and all-purpose applications
- Integrated camera for reading 2D codes

MD-F series

Keyence fibre laser marking system 30W / 50W

- Marking of metal, plastic and ceramic
- High-performance engraving of metals

ML-Z series

Keyence CO, laser marking system 30W

- Marking of paper, plastic, glass and ceramic
- Processing of special materials such as films

Technical information about integrated laser (SIM-Marker)

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Marking area	 From 120 x 120 mm to 330 x 330 mm Tray insert containing several parts for marking reduces loading time 	
Marking resolution	■ 2–5 µm (depending on type)	
Scanning speed	■ Max. 12,000 mm/sec	
Integrated performance monitoring	 With alarm output Ensures constant quality of marking and therefore increases process reliability 	
Option	Software for reading 2D codes	

Also possible with the SIM-Marker

- Focal point can be set within a range of 42 mm (±21 mm)
- Autofocus with 3-axis laser control (simultaneous control of the X, Y, and Z-axis of the laser optics)
- Distortion-free marking of 3D objects such as slanted surfaces, cylinders, spheres and cones

SIM-Marker data sheet

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- Laser marking cell in table design:
- 780 x 1,010 x 960 mm
- (W x H x D, external measurements)
- Clamping plate with T-slots:
- Z-axis adjustment area:

• Electrical connection: Interior lighting

- Max. height of the part to be marked:
- Lift door opening:
- Viewing window in lift door:
- Suction hose:

- 400 x 500 mm
- 300 mm
- 300 mm
- 625 x 375 mm
- 290 x 210 mm
- \emptyset = 50 mm
- (installed in the laser marking cell)

Options

- Movable base frame with footprint for laser source and PC Total height of the laser marking cell with base frame: 1,830 mm
- Movable external extraction system with "universal" filter insert
- Table mounting kit (necessary when ordering without base frame)









Examples of SIM markers

Front loading with workpiece carrier



Sliding table at side



SIM – Expertise based on experience

SIM Automation GmbH has been a manufacturer of special-purpose machines for over 50 years and focuses on developing and manufacturing **individual**, **customised all-in-one solutions**. The product range includes assembly systems and feeding technology as well as testing and inspection systems and system components.

We work in the following sectors:

- Medical technology
- Pharmaceutical diagnostics
- Cosmetics
- Automotive
- Electrical engineering

Your expert partner

- Production facilities are technically and economically optimised to meet customer requirements
- Improved availability with SIM quality and SIM service
- Certified according to DIN ISO 9001:2008



