



# Laser Systems GmbH

## Lasermarker

**LS8000M** automates and rationalises your marking application. You mark fast, flexible, durable and economic even small batches.

### Durable marking by laser

#### LS8000M - marking with advantage

- non-contact, forceless process
- durable marking
- unforgeable
- marks at difficult accessible places
- high flexibility
- simple integration to process lines
- economic
- maintenance-free over thousands of hours

**LS8000M** is a marker where laser unit and galvanometer beam deflection are fix mounted on a portal construction. Focus is adjustable by micrometer screws.



**LS8000M** laser marker is mounted on a profile portal chassis. Personal Computer, laser power supply, system power supply and interfaces to handling units are embedded within the chassis. Depend on design side doors or the whole front side can be opened for adjustment. The safety housing is already prepared for a later adaptation of automatic load and unload units.

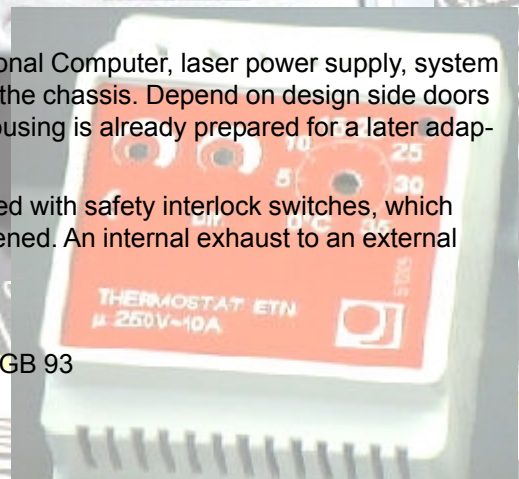
The work-station is accessible via front side. The housing is equipped with safety interlock switches, which interrupt the laser beam by a safety-shutter when the housing is opened. An internal exhaust to an external interface exists.

**LS8000M** corresponds according DIN EN 60825/VDE 0837 resp. VGB 93  
**Laser safety class 1.**

**Quality** Made in Germany, Research, development, production, application and service in one company guarantee optimised support and quality.

**Experience** Decades of know-how in laser technology.

**Advice** Our application lab waits for your process studies and tests.



# Technical Data

Software	Control (Hardware)
<b>Surface:</b> process control in flowchart-logic program run in real-time or single step configurable display function	RS232-interface parallel interface I/O-ports network (optional) CAN-bus (optional) barcode reader-input
<b>Functions:</b> free scalable any angle fill- and hatching algorithms wide marking graphics barcodes	
<b>Graphics:</b> import of DXF-data import of HP-GL import of pixel graphics own produced logos and graphics	
<b>Barcodes:</b> code 39 code 128 2/5 interleaved datamatrix ECC200 EAN 8/13 PDF 417	
<b>Special fonts:</b> OCR dot-matrix approbation signs	
<b>Variables:</b> alphanumeric integer floating point free choose of variable names different I/O possibilities serial numbers, even alphanumeric save and load database connection via ODBC	
<b>Control:</b> while-loops for-loops case differentiation manual data input	
	<b>Laser (also as oem-version in class 4)</b>
	- 1064 nm lamp-pumped up to 75 W - 1064 nm fiber laser up to 20 W - 1064 nm diode-pumped up to 25 W - 532 nm diode-pumped up to 1 W - 355 nm diode-pumped up to 15 W - 10600 nm CO <sub>2</sub> sealed off air cooling up to 75 W - 10600 nm CO <sub>2</sub> sealed off water cooling up to 250 W
	<b>Specifications power supply</b>
	power connection [VAC]: 230 ±10% (400 °) power consumption <sup>d</sup> [W]: < 500 dimension: 19" drawer
	<b>Work station</b>
	single station with sliding door moving carrier plate manual/automatic 2-stations indexing table transfer line inline transfer line circular all with product specific changeable workpiece holder
	<b>Label handling</b>
	roll to roll automatic cut to length after job
<b>Marking features</b>	<b>Options</b>
beam deflection by galvanometer mirrors marking speed up to 500 characters/s <sup>a</sup> marking field up to 220 x 220 mm <sup>2</sup> <sup>b</sup> marking on-the-fly	image processing with model finder automatic load and unload unit manual z-axis motorised z-axis motorised focusing via beam expansion



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a) max. speed, depending on application

b) Field size, depending on focusing optics

c) for lamp-pumped laser

d) depending on laser power