



Laser Systems GmbH

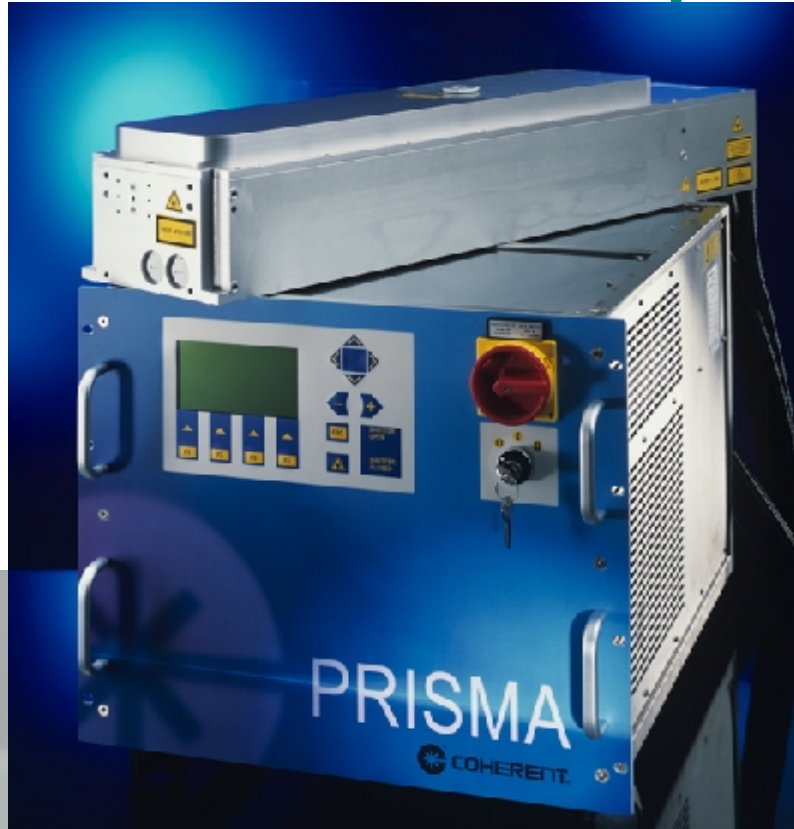
OEM diode laser marker

LS-8/16V automates and rationalises your marking application. You mark fast, flexible, durable and economic even small batches.

LS-8/16V - 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

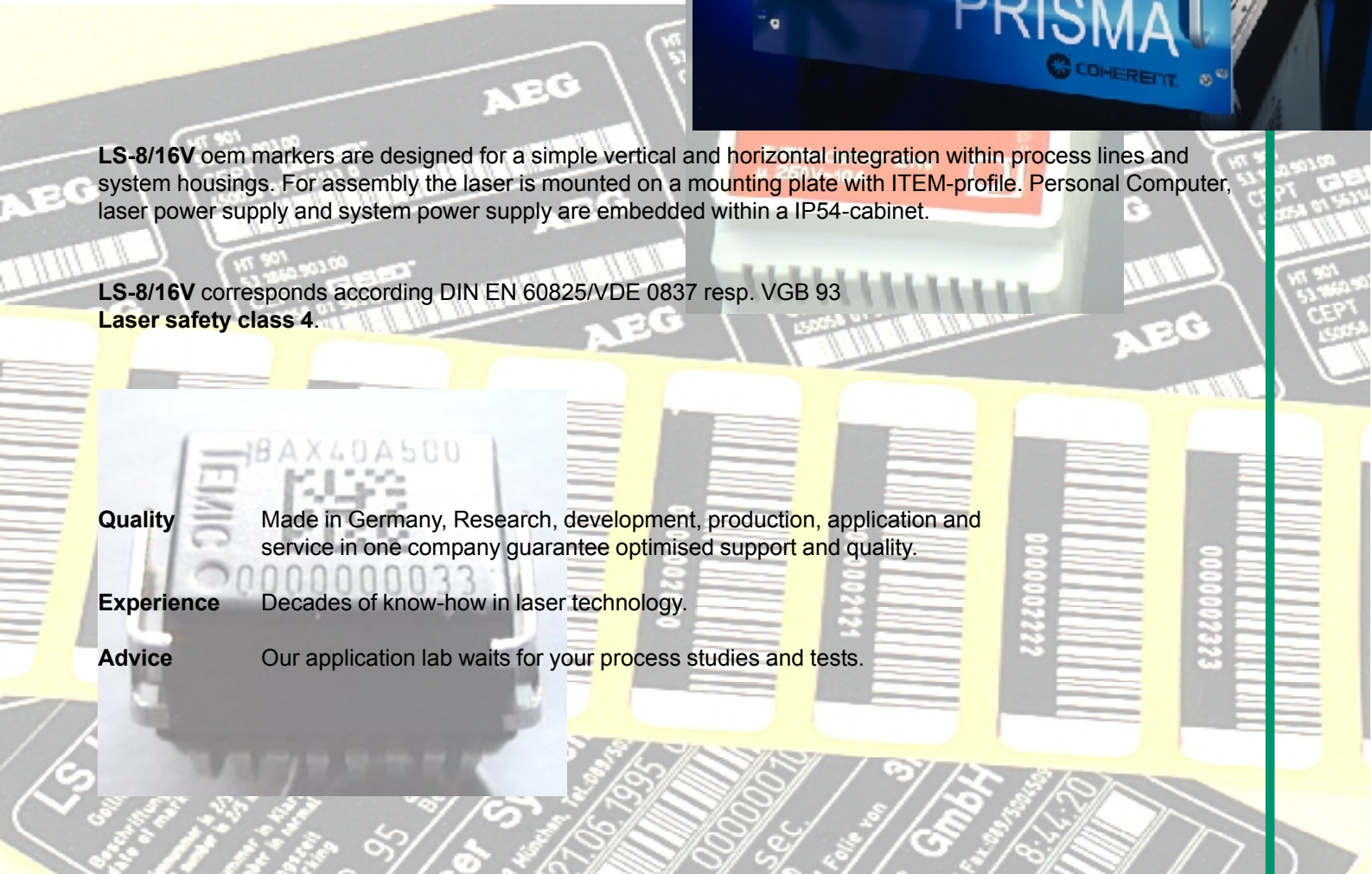
LS-8/16V is an oem marker where laser unit and galvanometer beam deflection are fix mounted on a portal construction. Laser and beam expansion are covered by a housing.



LS-8/16V oem markers are designed for a simple vertical and horizontal integration within process lines and system housings. For assembly the laser is mounted on a mounting plate with ITEM-profile. Personal Computer, laser power supply and system power supply are embedded within a IP54-cabinet.

LS-8/16V corresponds according DIN EN 60825/VDE 0837 resp. VGB 93
Laser safety class 4.

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|-------------------|---|
| 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

- Surface:** process control in flowchart-logic
program run in real-time or single step
configurable display function
- Functions:** free scalable
any angle
fill- and hatching algorithms
wide marking
graphics
barcodes
- Graphics:** import of DXF-data
import of HP-GL
import of pixel graphics
own produced logos and graphics
- Barcodes:** code 39
code 128
2/5 interleaved
datamatrix ECC200
EAN 8/13
PDF 417
- Special fonts:** OCR
dot-matrix
approbation signs
- Variables:** alphanumeric
integer
floating point
free choose of variable names
different I/O possibilities
serial numbers, even alphanumeric
save and load
database connection via ODBC
- Control:** While-loops
For-loops
case differentiation
manual data input

Control (Hardware)

- RS232-interface
parallel interface
I/O-ports
network (optional)
CAN-bus (optional)
Barcode reader-input
image processing (optional)

Marking features

- beam deflection by galvanometer mirrors
marking speed up to 500 characters/s^a
marking field up to 220 x 220 mm² ^b
marking on-the-fly

Laser specifications

laser type	LS-8V	LS-16V
laser medium	Nd:YVO4	Nd:YVO4
stimulation	diodes	diodes
wave length [nm]	1064	1064
beam diameter [mm]	1.6	1.6
laser power (cw) [W]	max 7	max 14
pulse energy @20kHz [mJ]	0.3	0.6
pulse length @20kHz [ns]	50	40
M ²	< 1.3	< 1.3
pulse frequency [kHz]	10 ... 40	10 ...80
cooling	air	air

Specifications power supply

power connection	110/230 V AC ±10%
power consumption	< 1.5 kW, depending on laser power
dimension	19" drawer height 9 RU

Laser Systems GmbH

Gollierstr. 70
D-80339 Munich
Tel.: ++49 (0)89 502 002 - 0
Fax: ++49 (0)89 502 002 - 30
E-mail: info@ls-laser-systems.com
Internet: www.ls-laser-systems.com

a) max. speed, depending on application

b) Field size, depending on focussing optics