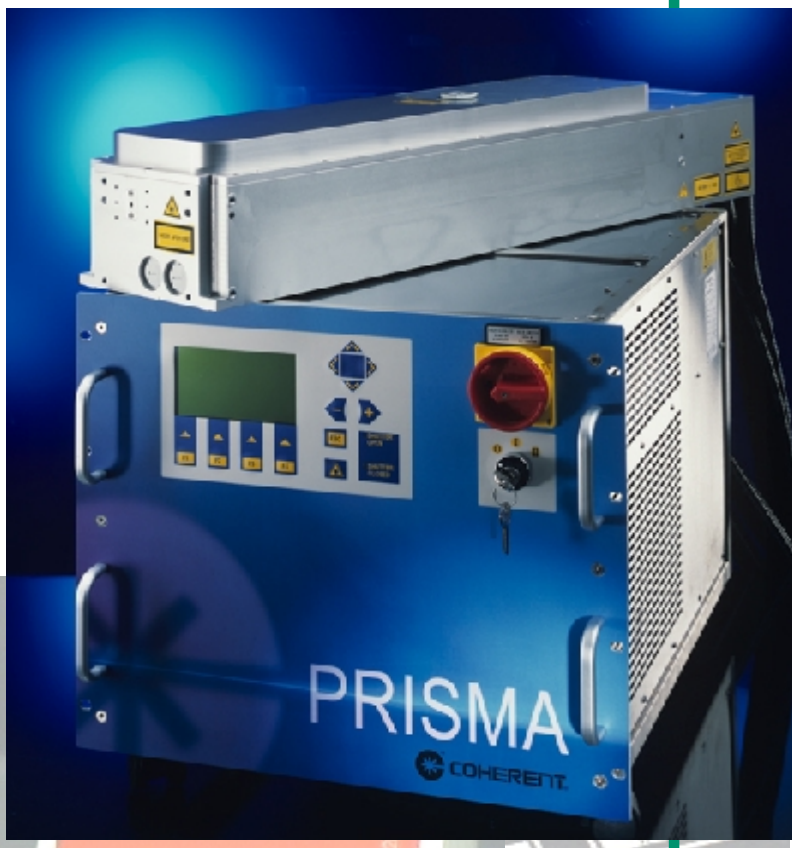
Laser Systems GmbH

OEM diode laser marker

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



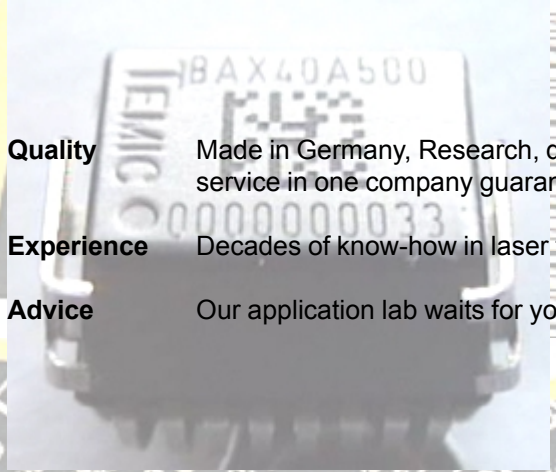
LS-8/16V - marking with advantage

- 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.



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 lenght @20kHz [ns]	50	40
M²	< 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

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a) max. speed, depending on application

b) Field size, depending on focussing optics