



Laser Systems GmbH

OEM CO₂ laser marker

LS-Cxx automates and rationalises your marking application. You mark fast, flexible, durable and economic even small batches.

LS-Cxx - marking with advantage

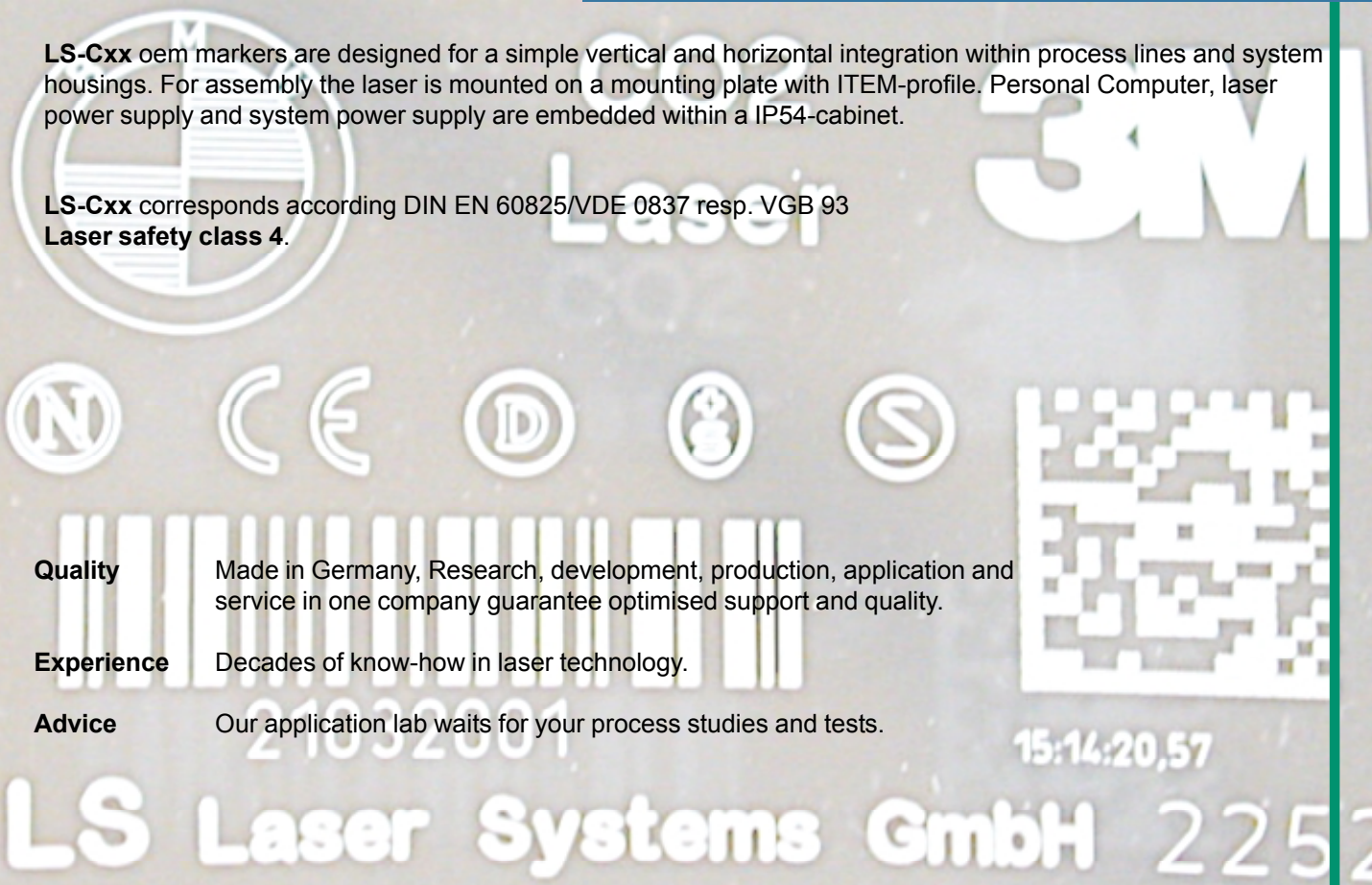
- non-contact, forceless process
- durable marking
- unforgeable
- marks at difficult accessible places
- high flexibility
- simple integration to process lines
- economic
- maintenance-free over thousands of hours

LS-Cxx is an oem marking system where laser unit and galvanometer beam deflection are fix mounted on a portal construction. Laser and beam deflection are covered by a housing.



LS-Cxx 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-Cxx 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.

15:14:20,57

LS Laser Systems GmbH 2252

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

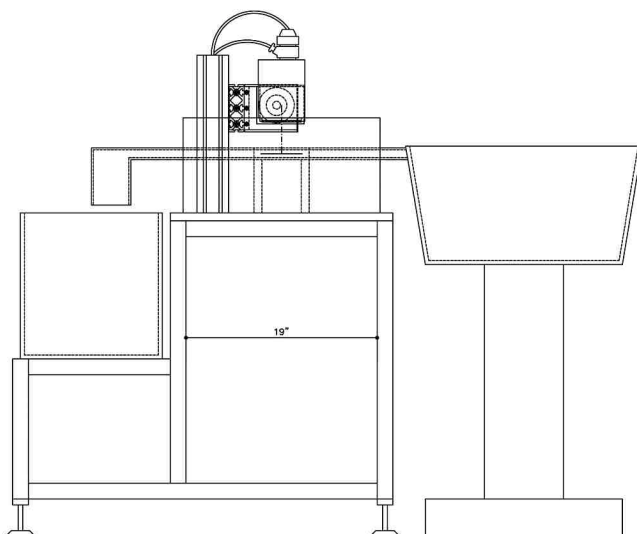
- beam deflection by galvanometer mirrors
marking speed up to 500 characters/s^a
marking field up to 220 x 220 mm^{2 b}
marking on-the-fly

Laser specifications

laser type	sealed-off CO ₂ laser
stimulation	RF stimulation
wave length	10600 nm
beam diameter	3.5 mm
laser output power	10 - 100 W
divergence	4 mrad
pulse frequency	cw, 1 - 25 kHz
cooling	air or water cooling ^c

Specifications power supply

power connection	230 V AC ±10%
power consumption	< 500 W, depending on laser power
dimension	19" drawer height 3 RU



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a) max. speed depends on application
b) field size depends on focussing optic
b) depending on type and power