LASER MARKING SYSTEM

DPL*Magic* Marker

The Diode-pumped Laser Marking System by cab

DPL*Magic* Marker

The Diode-pumped Laser System by cab – provides clear and permanent marking.

Marking-laser with tabletop-housing for small parts

Innovative
Through the use of the most modern technology the DPL*Magic* Marker sets new standards in laser-marking. The extremely high-quality beam and pin-point performance ensure marking onto the most diverse of materials.

Air-cooled
The DPL*Magic* Marker incorporates thermo-electric cooling. Modern switching technology reduces losses so significantly that cumbersome cooling methods are not necessary.

Economic
Due to an average power consumption of only 200 Watts the energy costs are very low.

Precision
The precision focus of the laser-beam provides marking to a resolution up to 1000 dpi: the pre-requisite for 2D miniature barcodes and high definition graphics.

Speed
The high-speed scanning head, FireSCAN, delivers fast and precise marking and guarantees high positioning accuracy of the laser-beam.

Robustness
The DPL*Magic* Marker is designed for long-service, industrial, multi-shift operation.

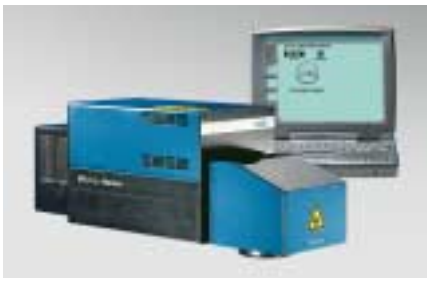
Service and User-friendly
The integrated diagnostics permanently show equipment status on the display. Faulty components can be quickly and easily exchanged.

Marking Software
The programming language - Visual Basic for Applications - and the speed of 32 bit technology offer endless possibilities. The user is able to produce very complex marking formats through the assistance of a comprehensive library of commands and the customer specific user-interface.

Screen-masks may be prepared to suit the needs of the individual customer. The integrated preview function of the software and the built in Pilot-laser further assist the user. Operating systems: Windows 98, 2000 or NT.

Marking by carbonization/oxidation

Top technology in miniature format
At 583 mm length and less than 20 kg the DPL*Magic* Marker is the smallest laser in its class.

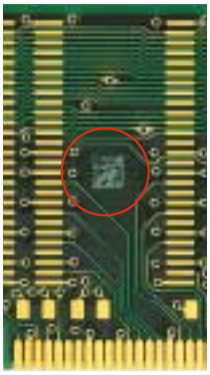


Direct plastics marking

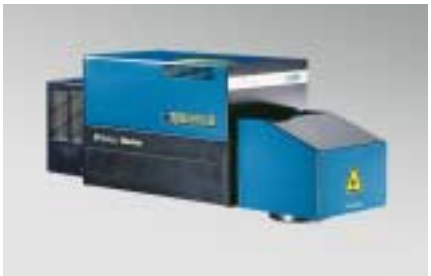
Paint removing

Laser engraving

Marking of PCBs



The scan head can be turned in both directions by 100°.



Technical Data

Laser source
Diode pumped solide state laser (Nd:YAG)

Wave length	1064 nm
Beam mode	TEM oo
cw Power	3 Watt
Pulse frequency	0,1-50 kHz
Pilot laser	650nm/3mW
Laser protection class	4

Scan head
Scan speed up to 5 m/sec or 350 characters/sec. with a height of 1 mm, Single-Line-Font

Focusing optic: F-Theta-Lens

Focal length	100	163	254
Marking area in mm	70x70	110x110	180x180
Spot Ø in µm	25	35	50
≙ Resolution in dpi	1000	725	500

Pilot laser beam
All systems are equipped with a pilot laser beam.

Interfaces
PC-Interface Serial: RS-232 C

SPS-Interface for:
Laser operation ready, Start of marking, End of marking, Laser emission, Shutter emission, Shutter interlock

Socket for power supply with integrated fuse

Operating voltage
85-260 VAC/16A/50-60 Hz

Power consumption
typ. 250 W/max. 500 W

Environmental conditions
Operating 15-35°C
Humiditiy 30-85%, not condensing

Weight 18 kg

Marking software

Hardware requirements
Pentium II-PC with 233 MHz and 64 MB RAM

Operating system WINDOWS® 98/2000/NT

Characters formats and alignments
True-Type-Fonts filled, unfilled and Single-Line-Fonts. All can be streched, compressed, mirror invented and rotated.

Graphic elements
Line, rectangle, rounded rectangle, rectangle and circle filled or unfilled

Graphic formats
HPGL direct, DXF can be handled by an optional CAD programme.

Barcodes

2 of 5	Codabar
CODE 39, CODE 93	EAN 8, 13
CODE 128 A,B,C	EAN/UCC 128

Two dimensional barcodes
Data Matrix, PDF 417

All barcodes can be scaled free. Optionally marked with test code, inverted, start-/stop-code.

Additional features
Serial number, date, time

Extensive help menu and functions

Possibility to progress variables and sub-routines

Input of complete data and text strings. With OLE data links operation with data bases by MS-Access or tables by MS-Exel.

Complete procedures and parameters can be saved in a file or in a configurable menu.

Programmable laser parameters

Connection to industrial control units, e. g. axis controllers for X, Y, Z, or ROT axis.

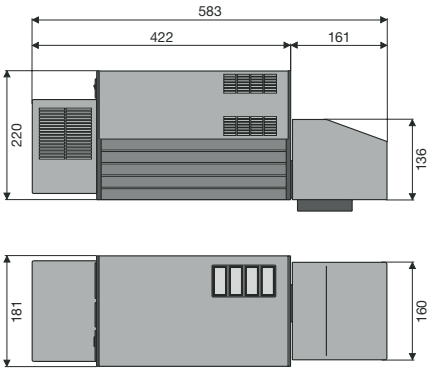
Description	Focal length	Part No.
DPL*Magic* Marker 100	100	5523214
DPL*Magic* Marker 163	163	5523215
DPL*Magic* Marker 254	254	5523216

Content of delivery

- Laser marking system with pilot laser beam
- Marking software *Magic*Mark
- Power supply cable and data cable
- User and programming manuals

Periphery

- Height adjustable Z-Axis
- Laser protection case
- Turn table 2 x 180°
- Aspiration
- Customized adaptions and automatic solutions on request



Subject to technical alterations.

25 Years of Development and Production Made in Germany

cab Headquarter in Karlsruhe

For 25 years cab has developed and manufactured product marking equipment and systems for the industry and distribution.

The constantly growing market demands innovative ideas that will characterize the products of tomorrow.

Our engineers offer competent support for your solutions.

Our reliable and scillful production team manufactures in our modern plant (Sömmerda/ Thuringia) from the single component up to the complete marking facility on time.

Our staff at cab guaranties that from the goods-inward check to the shipping of the final product quality control is monitored.

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