

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 thermoelectric 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

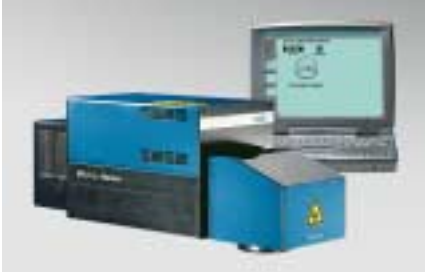
The programming language - Visual Basic for Applications - and the speed of 32 bit technology offer endless possibilities. The user is able to produce very complex marking formats through the assistance of a comprehensive library of commands and the customer specific user-interface.

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

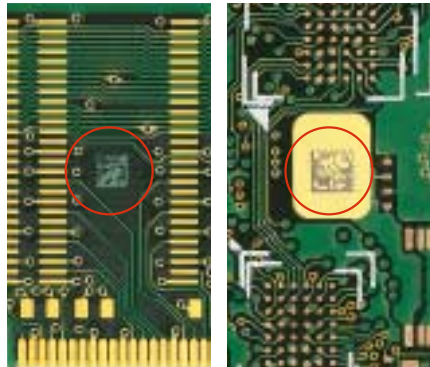


Paint removing

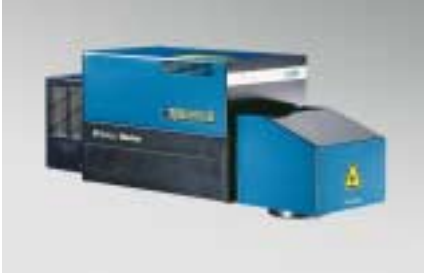
Laser engraving



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 TEM₀₀
 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
 Humidity 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 stretched, compressed, mirror inverted 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.

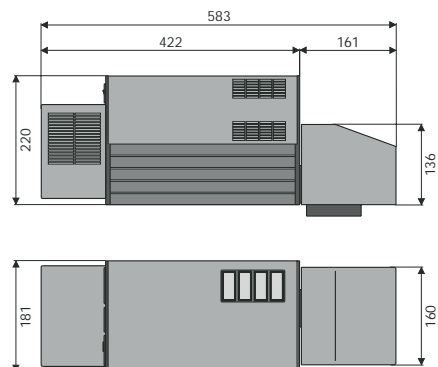
Description	Focal length	Part No.
DPL <i>Magic</i> Marker 100	100	5523214
DPL <i>Magic</i> Marker 163	163	5523215
DPL <i>Magic</i> Marker 254	254	5523216

Content of delivery

- Laser marking system with pilot laser beam
- Marking software *MagicMark*
- 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 adaptations and automatic solutions on request



Subject to technical alterations.



This information is provided by

JETEC Corporation

2817 McGaw, Irvine, CA 92614

Tel: 714-979-9611 / 949-477-6161

Fax: 714-755-5950

Contact: sales@jetec.com, Website: www.jetec.com

[Shop Online, Click Here](#)