

NII LASER TECHNOLOGY

Dynamic Laser Marker BC Pro-D

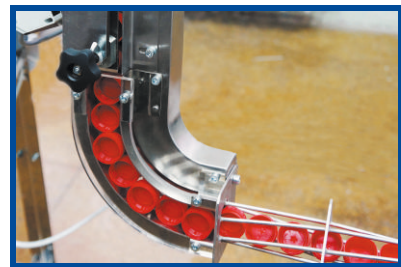


Overview

DLM Pro (Dynamic Laser Marker) series of laser equipment is designed for the precise laser marking on the inside or outside surface of the beverage closures of all kinds, including plastic closures, metal closures, synthetic wine corks and crowns. **DLM-BC Pro-D** is designed for the laser marking of plastic beverage closures with the help of two laser sources with different wavelength that are built inside it. The laser marking could be done with the both laser sources simultaneously or with any of the laser sources separately. The use of two laser sources allows get laser marking of two colors on the same closure (dark and light). That could be helpful in terms of protection to increase uniqueness of products. Another advantage of the two-laser modification is that it allows mark the closures of any color disregarding the pigment or additive that is used in the closure material. As a result, it expands the range of closure colors that could be marked without a special laser toner.

Special features

- ♦ Beverage closures are transported on the conveyor belt to the marking area where marking process occurs 'on-the-fly'. Thus dynamic laser marking (DLM) allows reach high throughput with the highest marking quality. A laser beam interaction with the closure material creates the color change and, thus, marking occurs (dark on light material or light on dark material). When a 1,062 μm wavelength laser source is used, the closure material should contain special laser additive that increases laser beam absorption and output capacity. Fully automated feeding and discharging unit Gravity Sorter allow very simple integration of **DLM-BC Pro-D** into the existing production line.
- ♦ The software controls marking process of closures. Software allows marking logos, text and numbers with randomizing option or numbers increment (decrement) as vector or rasterized graphics. Files should be imported to the laser system software in one of the mainly used formats (Corel Draw, Adobe Illustrator etc.).
- ♦ There is no more need in time-consuming setup process. If you need a small series of closures to be marked – just change file (graphics) and mark it.



Options

The laser system could be equipped with a quality control system of the marking and closure shape.

Flexibility guaranteed!



Dynamic Laser Marker BC Pro-D

Beverage closures material

Polyethylene, Polypropylene

Closures diameter

28-38 mm

Laser marking color

Dark, Light

Max throughput for promo code
(10 symbols with 2 mm height)

Up to 60 000 parts per hour

Max throughput for a constant image/text

Up to 90 000 parts per hour

The quantity of randomly marking files

14

Software

NII Laser Technology Marker

Power requirements

3 x 380V 50 Hz

Connected load

6 kW

Dimensions, W x H x L

2040mm x 1630mm x 1700mm

Approximate weight

750 kg

Gravity Sorter

Closures diameter

28-38 mm

Throughput

Up to 100 000 parts per hour

Volume of hopper

0,5 m³

Body material

Stainless steel AISI 304

Power requirements

3 x 380V 50 Hz

Connected load

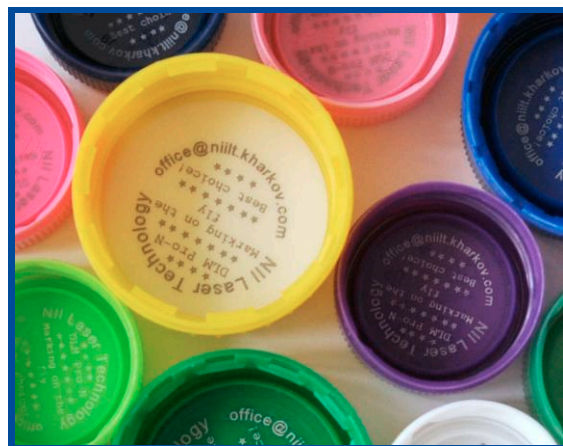
2 kW

Dimensions, W x H x L

2535 mm x 2920 mm x 2700 mm

Approximate weight

720 kg



Technical data

NII Laser Technology JSC
Ukraine, 61166, Kharkiv
14 Lenin ave.
phone +38 (057) 702 12 07
fax. +38 (057) 719 44 07
www.niilt.com
vikt@niilt.kharkov.com
office@niilt.kharkov.com



NONE WILL DO BETTER!