Lightjet Vector

CO_2 laser coders

Our technology

The Lightjet Vector high power CO_2 laser has been designed for the most demanding production environments delivering permanent, consistent, high quality coding on some of the most challenging substrates such as PE, PP plastics, glass and rubber.

This 120 watts version is the ideal solution for complex messages up to 5-line applications at high production speeds. This vector technology equipped with its articulating arm and compact scanning printhead is well suited for applications in the beverage, pharmaceutical, cosmetic and personal care industries.

Your benefits

Performance – Advanced scribing galvohead technology allows for excellent print quality. Capable of printing complex messages at high output rates (up to 1,000 products/minute) without requiring external cooling (no air, no water). Ability to print in hot locations (up to 40 °C) while maintaining consistent coding quality.

Uptime – Proven reliability of the Rofin diffusion-cooled CO_2 Slab laser. Thanks to its 120 watts of power, you can expect consistent quality coding even after several years of intense use.

Versatility – Ease of integration within packaging lines (labelling machines) with compact printhead and articulating arm offers up to 1.2 meters of reach. Capable of printing on different types of glass, plastics and even on difficult to code labels (gold coated label).

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the team to trust

Lightjet Vector specifications

Print features

- Stationary and in motion
- Marking in the direction of product movement or perpendicularly
- Line speed (max.): 300 m/min (8 characters, 2 mm high)*
- Marking speed (max.): 1,000 characters/sec
- Fixed and variable marking: text, dates, times, counters, logos
- Set of vectorized fonts, TrueType compatible, Asian and Arabic characters, specific font for thin materials (PET)
- Character height from 1 to 50 mm
- Vast choice of bar codes: EAN8, EAN13, UCPA, UPCE, Code 39, 2/5 interleaved, code 128,... and 2D codes: DataMatrix, AZTEC, PDF417, RSS14
- Coding area (mm): 105 x 105 / fd 150

Operations

- WYSIWYG backlit screen, 1/4" VGA, and QWERTY keyboard
- Message composition software under Windows® NT, available in several languages (French, English, German, Spanish and Swedish)
- Password-protected menus, customizable operator fields
- RS-232 interface, line-synchronized I/O
- Encoder input, 2 product detection inputs
- Auto-diagnostics and service help menu

Accessories

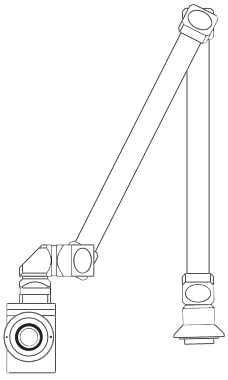
- Dust and gas extractor
- Laser head stand
- Lens pressurization kit
- Guarding tunnel
- Photocell
- Encoder
- Alarm beacon (24 V)

Other characteristics

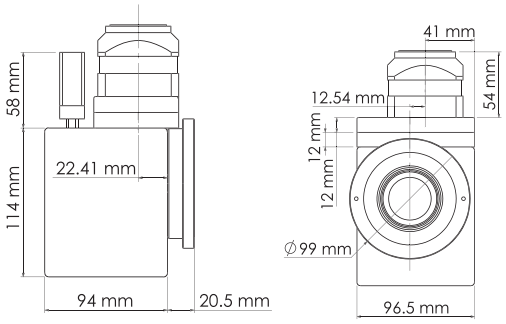
- Weight: 120 kg
- Cooling: integral type, air/water closed circuit
- Operating temperature: 5 °C to 40 °C **
- Lens protected by compressed air: 20 psig; 25 l/min
- Humidity: 10 to 90% non-condensing
- Power source: 200 V to 240 V (± 10%); 50/60 Hz ; single phase or line-to-line
- Typical power consumption: 1.3 kW
- Sealed CO_2, RF-excited SLAB
- Nominal power: 120 W (200 W peak)
- Nickel plated arm beam delivery with 6 articulations (reach max): 120 cm
- Stainless steel, main cabinet dimensions (mm): 900 H x 400 W x 600 D
- Silver anodized aluminum scan head (mm): 114 H x 96.5 W x 94 D
- Dust humidity protection: IP56

Options

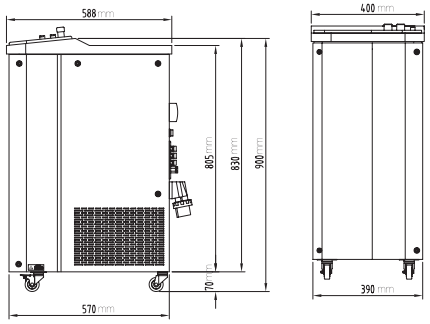
- Coding area and focal distance
  - Lens 70 x 70 / fd 100
  - Lens 140 x 140 / fd 200
  - Lens 210 x 210 / fd 300
- 7 knuckles articulated arm



Laser head



Controller



* Depends on the size and complexity of the message as well as nature of the surface marked

** Maximum temperature is duty-cycle dependant

To learn more, visit www.markem-imaje.com

INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 (CLASS IV) LASER PRODUCT EN60825-1 w/A11: 1996 US-21CFR(J) 1040.10

CE

The design and manufacturing plants of this product are ISO 9001 CERTIFIED

We reserve the right to amend the design and/or specifications of our products without notice.

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Photos: Rofin, DR
Printed in France - A26628 - B1