CO₂ laser coders ▪ ▪ ▪

Our technology ▪ ▪ ▪

The compact and modular scribing CO_2 laser delivers permanent and high quality product coding (text, variable data, logos, 1D and 2D bar codes). This 30 Watt version is the ideal solution for 1 to 5-line applications at high speed.

The 7031 has been designed for the most demanding production environments. This high power vector technology is well suited for printing onto substrates such as inked paper, painted metals or glass in the food, beverage, pharmaceutical, and personal care industries.
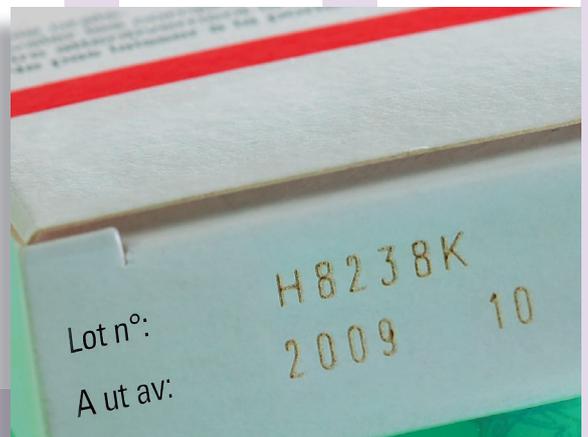
Your benefits ▪ ▪ ▪

Performance – Most advanced scribing galvohead technology allowing excellent print quality and output rates up to 1,000 products/min without requiring external cooling (no air or water).

Uptime – Modular cooling concept for optimal laser performance, increased laser source reliability and reduced operating costs (no air).

Modularity – Innovative modular design consisting of 3 separate components: controller, cable and laser head. Most compact and robust laser head with 0° and 90° laser beam orientation and ultra flexible interconnecting cable (6 or 9 meters).

Simplicity – Large WYSIWYG colour touch screen display with intuitive icons and shortcuts for user-friendly operations. Easy access to safety features like emergency stop button and standard USB port for easy message loading and ethernet connectivity.

Versatility – Wide choice of lenses and pointing diode assistance for efficient line integration and multi-product coding capability.

markem·imaje
the team to trust ▪ ▪ ▪

Print Features ■ ■ ■

- Production line speed (max.): 300 m/min*
- Marking speed (max): 1,000 characters/s
- Coding on stationary or moving products
- Number of text lines: no limit
- Character height: 1 to 100 mm
- Logos, graphics, one- and two-dimensional barcodes (Datamatrix)
- Set of vectorized fonts, TrueType compatible, extended characters
- Specific fonts for thin material
- Coding area and focal distance (mm, standard): lens 105 x 105 / fd 150

Operations ■ ■ ■

- 12" WYSIWYG color touch screen
- QWERTY or AZERTY virtual keyboard
- Navigation via icons including on-line help file
- Message storage capacity of 256 MB
- Upload and download of messages via USB Flash drive
- Software update via Compact Flash card
- Quick connect/disconnect of laser head and accessories (photocell, encoder, alarm)
- RS-232/422 connectivity, Ethernet interface, 26 configurable operator I/O (10 inputs / 16 outputs)

Accessories ■ ■ ■

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

Other characteristics ■ ■ ■

- Head weight: 14 kg
- Controller weight: 20 kg
- Interconnecting cable length: 6 m
- Controller: stainless steel
- Head: aluminum and FDA coating
- Dust/humidity protection: IP54
- No plant air required for cooling
- Operating temperature range: 5° C to 40° C**
- Humidity: 10 to 90% non-condensing
- Electrical power supply: 85-265 V with automatic switching; frequency 47/63 Hz
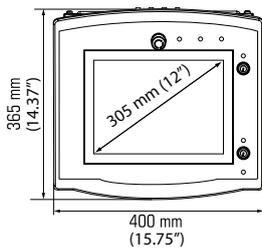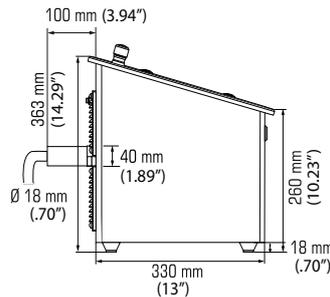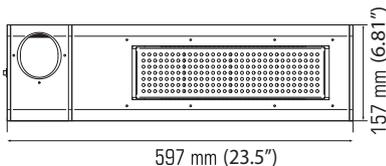- Power consumption: 6 A; 660 VA

Options ■ ■ ■

- IP65 head (requires plant air)
- Coding area and focal distance (mm):
- Lens 70 x 70 / fd 100
- Lens 105 x 105 / fd 150
- Lens 120 x 120 / fd 175
- Lens 140 x 140 / fd 200
- Lens 155 x 155 / fd 225
- 0° beam output for the laser head
- 9-meter interconnecting cable length
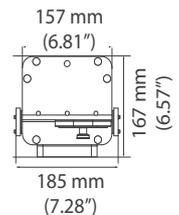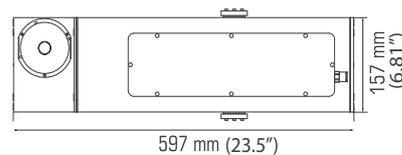- 6-meter cULus listed interconnecting cable

7031 controller

305 mm (12")
365 mm (14.37")
400 mm (15.75")

100 mm (3.94")
363 mm (14.29")
40 mm (1.89")
Ø 18 mm (.70")
260 mm (10.23")
18 mm (.70")
330 mm (13")

7031 laser head

157 mm (6.81")
597 mm (23.5")
119 mm (4.68")
157 mm (6.81")
157 mm (6.81")

7031 IP65 laser head

597 mm (23.5")
157 mm (6.81")
157 mm (6.81")
167 mm (6.57")
185 mm (7.28")

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

**Depends on laser head option

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   cULus LISTED   GS