

# 7031 s / 7031 S IP65

CO<sub>2</sub> laser coders ■ ■ ■



## Our technology ■ ■ ■

The compact and modular scribing CO<sub>2</sub> laser delivers permanent and high quality product coding (text, variable data and 2D barcode). This 30 Watt version is the ideal solution for 1 to 3-line applications at high speed.

The 7031 has been designed for the most demanding production environments. The 7031 S version provides robust and enhanced contrast coding on thin PET bottles with no missing or piercing bottle for the fastest production lines in the beverage industry.

## Your benefits ■ ■ ■

**Performance** – Most advanced scribing galvohead technology associated to 9.3 μm wave length allowing excellent and contrasted print quality on PET and output rates up to 1,200 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 color 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.



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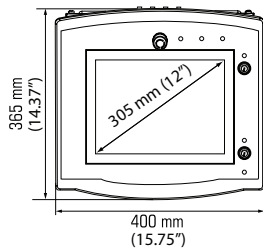
the team to trust ■ ■ ■

# 7031 s / 7031 s IP65 specifications ■ ■ ■

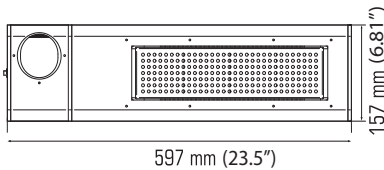
## Print features ■ ■ ■

- The 7031 S' specific wave length properties guaranty enhanced contrast coding on PET substrates. A wide choice of fonts allow for customized coding for individual customer needs. Even with important variations of product position on the conveyor (+/- 10 mm\*), coding quality remains constant. This new laser beam technology is more efficient on PET. Coding requires less energy; burns less material (up to 20 µm maximum) and can be done at higher throughput speeds.
- Production line speed (max.): 450 m/min\*\*
- Marking speed (max): 1,500 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 120 x 120 / fd 175

7031 S controller



7031 S laser head



## 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 ■ ■ ■

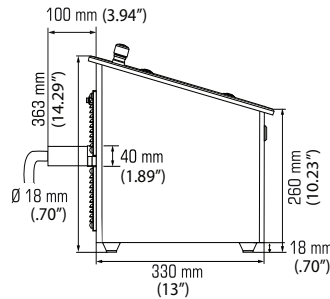
- Dust and gas extractor
- Laser head stand
- Lens pressurization kit
- Guarding tunnel
- Photocell
- Encoder
- Alarm beacon (24 V)

## Other characteristics ■ ■ ■

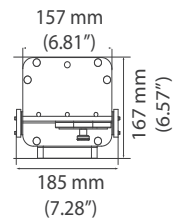
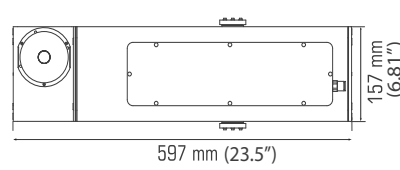
- Head weight: 14 kg
- Controller weight: 20 kg
- Interconnecting cable length: 6 m
- Controller: stainless steel
- Head: aluminum and FDA coating
- Dust/humidity protection: IP54
- No plant air required for cooling
- Operating temperature range: 5° C to 40° C\*\*\*
- Humidity: 10 to 90% non-condensing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

## Options ■ ■ ■

- IP65 7031 head (requires plant air)
- Coding area and focal distance (mm):
  - Lens 70 x 70 / fd 100
  - Lens 105 x 105 / fd 150
- 0° beam output for the laser head
- 9-meter interconnecting cable length
- 6-meter cULus listed interconnecting cable



7031 S IP65 laser head



\* Depends on lens type  
 \*\* 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](http://www.markem-imaje.com)



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

9, rue Gaspard Monge  
 B.P. 110  
 26501 Bourg-lès-Valence Cedex - France  
 Tel.: +33 (0) 4 75 75 55 00  
 Fax: +33 (0) 4 75 82 98 10

150 Congress Street  
 Keene, NH 03431  
 United States of America  
 Tel.: +1 800-258-5356  
 Fax: +1 603-357-1835



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