the team to trust ▪ ▪ ▪

CO_2 laser
SmartLase 110/130, 7031 and Lightjet Vector

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- **Technology**

- **Product in short**

- **Range**

- **Accessories**

- **Software**
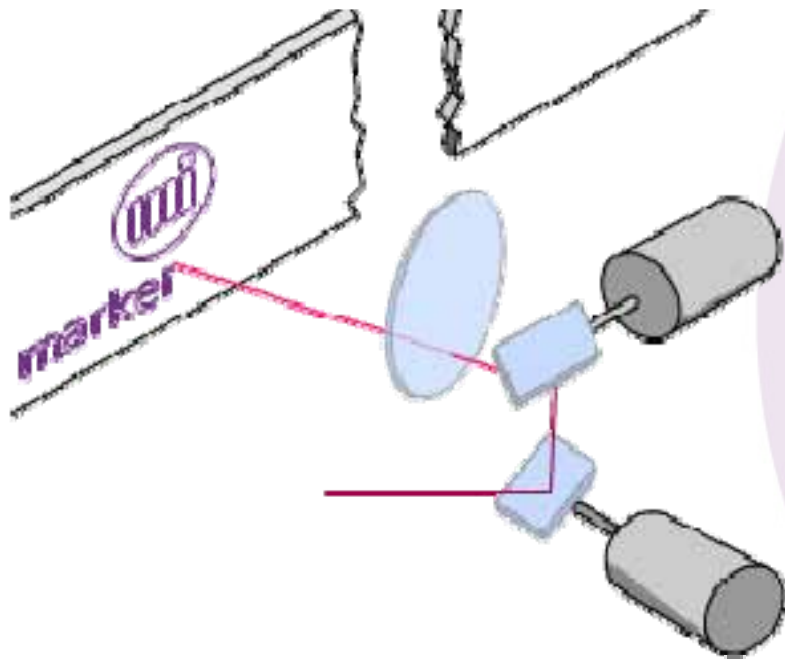
■ Laser technology harnesses an invisible beam of light generated by a CO_2 source. This light beam is then steered by mirrors and focused through a focusing lens. This highly-concentrated beam of light then ablates the coating substrate, leaving an indelible mark.

■ **Markem-Imaje advantages**: our advanced scribing galvohead technology allows excellent print quality and output rates up to 1,200 products/minute without requiring external cooling on 7031 and Lightjet Vector (no air or water). It increases laser source reliability and reduces operating cost.

Product in short – Range

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- **Largest range of CO_2 laser coders**
- **3 power outputs: 10 W, 30 W and 120 W**

SmartLase 110i/110si

SmartLase 130i/130si
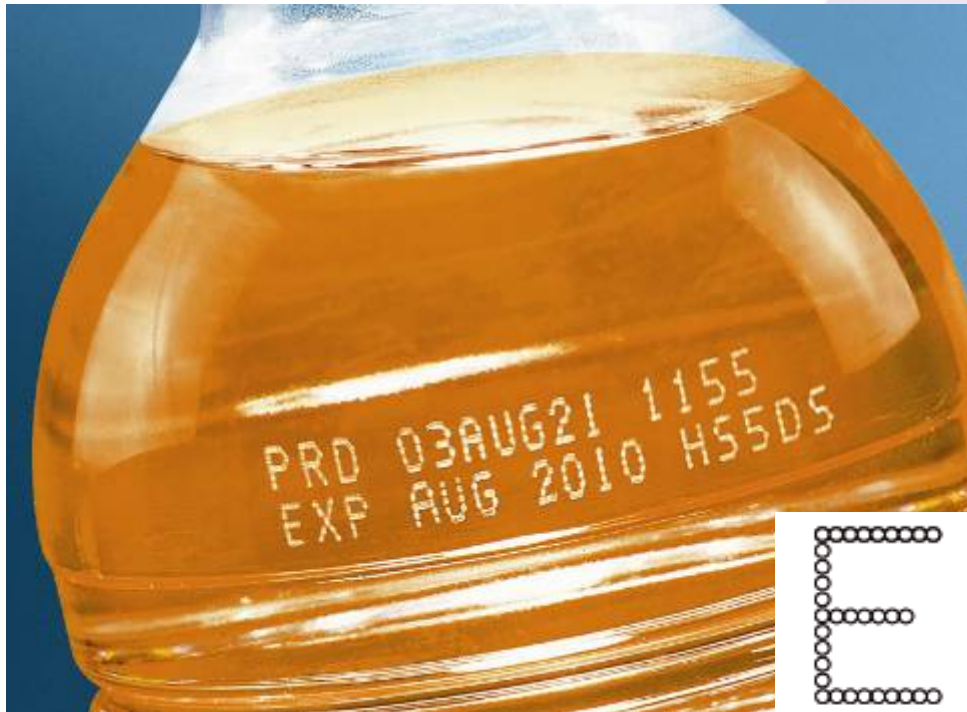
7031 / 7031 IP65

7031 S / 7031 S IP65

Lightjet Vector

■ **2 coding types: dot matrix and scribing laser**

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EXP AUG 2010 H55D5

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■ **Coding on most substrates**

- ■ **PET**
- ■ **Inked paper**
- ■ **Glass**
- ■ **White paper**
- ■ **Painted metals**

Product in short - Performance

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- **SmartLase 110si: fastest 10 W laser in humid or dusty environments**

- **7031S: 9.3 μm wavelength for high print quality on PET and output rates up to 1,200 products/min**

- **Lightjet Vector: complex messages on inked paper and coding on glass**

- **SmartLase**: small size and compact configuration

- **Lightjet Vector**: compact printhead with articulating arm

Product in short - Flexibility

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- **7031:**
  - **Innovative modular design for easy integration**

    Controller   **6-m umbilical**   **Laser head**

  - **Wide choice of lenses and pointing diode assistance**
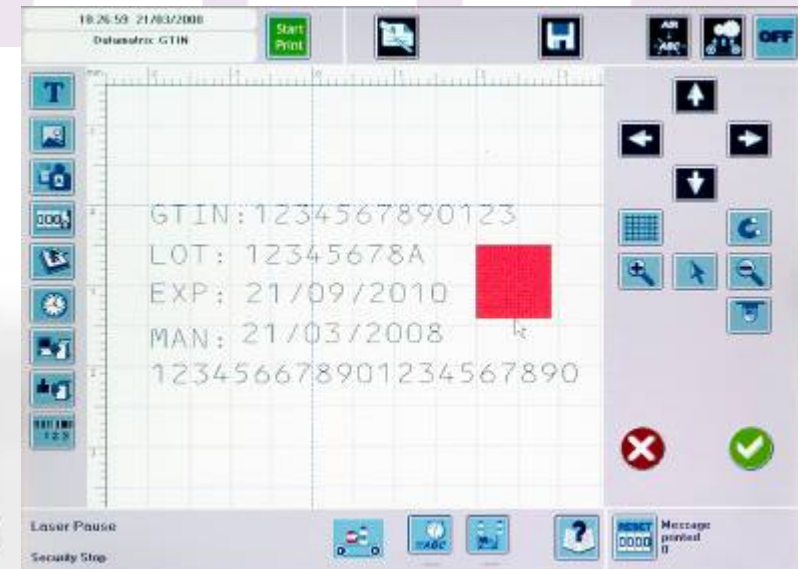
- **SmartLase**: ergonomic hand held interface

- **7031**: large WYSIWYG color touch screen display with intuitive icons and shortcuts

▪ ▪ ▪ Range

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▪ 5 main models available

Click on the PDFs below to discover their specifications.

▪ A wide range of printing capabilities

Click on the PDF below to discover them.

■ ■ ■ Accessories

Markem-Imaje extraction machines eliminate a variety of fumes and particles generated when different substrates are laser marked. It helps:

– Reduce or eliminate any health issues linked to inhalation of sub-micron particles or gases

– Provide a cleaner, healthier working environment

– Prevent contamination of products

– Extend life of laser, improve productivity by eliminating particles that could affect code quality or damage laser optical system.

Click on the PDF to have more information.

The guarding tunnel helps to guarantee operator's safety.

Rep.	Ref.	W	L	H
1	A70162	400	600	400
2	A70163	400	900	400
3	A70165	400	600	600
4	A70166	400	900	600

Encombrement / Floor space

■ ■ ■ Accessories

■ **The alarm beacon** can be connected to the printer to inform the operator about the machine status. They are particularly useful in highly automated production lines where operators are rarely near the machine.

■ **Specifications**
Power supply: 24 V AC/DC
Protection class: IP65
Cable length: 3 m

■ **The printhead stand** has been designed for SmartLase and 7031 to easily integrate the printhead into the production line in virtually any position. It offers also a very precise head position adjustment.

▪ ▪ ▪ Accessories

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■ **The photocell** detects the object to be printed and sends a print signal to the printer

■ **Specifications**
Adjustable range:
    - 0 to 1.7 m for reflex photocell
    - 0 to 0.2 m for proximity photocell
Voltage range: 10-30 VDC
Protection class: IP65
Cable length: 6 m

■ **The shaft encoder** gives the printer an instantaneous measurement of conveyor speed in the form of pulses. This enables the print resolution to be precisely adjusted.

■ **Specifications**
Resolution:
-5,000 pulses/rev.
-2,500 to 40,000 pulses/rev. for the programmable encoder
Voltage range: 5-30 VDC
Protection class: IP65
Cable length: 5 m

▪ ▪ ▪ Software

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■ **CoLOS® Create Professional** satisfies all message design and management needs. This functional software allows for easy creation and management of complex labels and codes for all the Markem-Imaje printers via a unique user interface.

■ **CoLOS® Enterprise** is a state-of-the-art software and part of a scalable suite of standard software and networking solutions. CoLOS® Enterprise is an open and flexible software that combines both CoLOS® Create Professional for message design and CoLOS® Control for networking multiple printing equipments. CoLOS® Enterprise allows to link, manage and operate all printers throughout the plant. It contributes to ensuring product data integrity and optimizing coding activities.

■ Click on the PDFs to know more about **CoLOS® Create Professional** and **CoLOS® Enterprise**

*Thank you for
your attention.*

nefton
Ζύγιση
Σήμανση
Συμμόρφωση

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