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CO₂ laser SmartLase 110/130, 7031 and Lightjet Vector



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Global Communications – October 09

■ ■ ■ Summary



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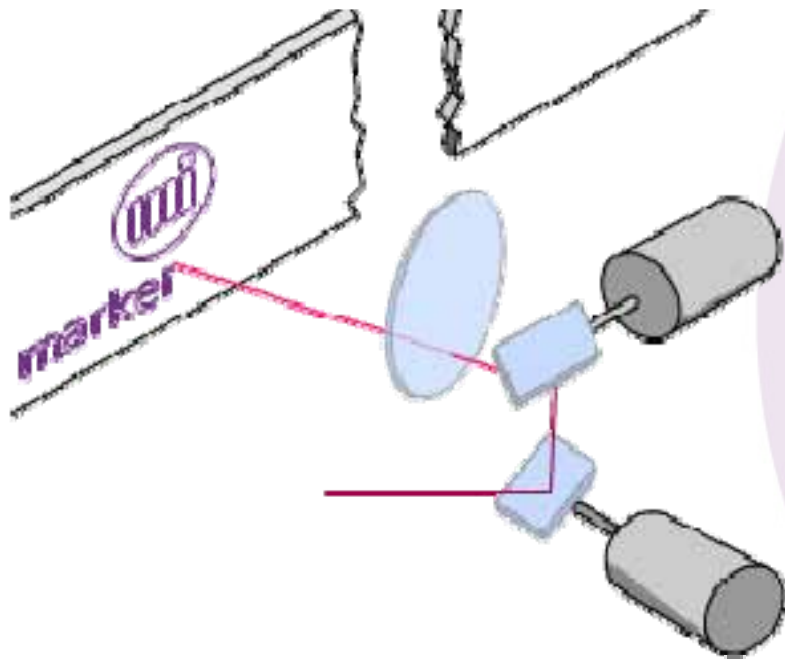
- Technology
- Product in short
- Range
- Accessories
- Software



Technology – How it works



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- Laser technology harnesses an invisible beam of light generated by a CO₂ 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 CO₂ 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



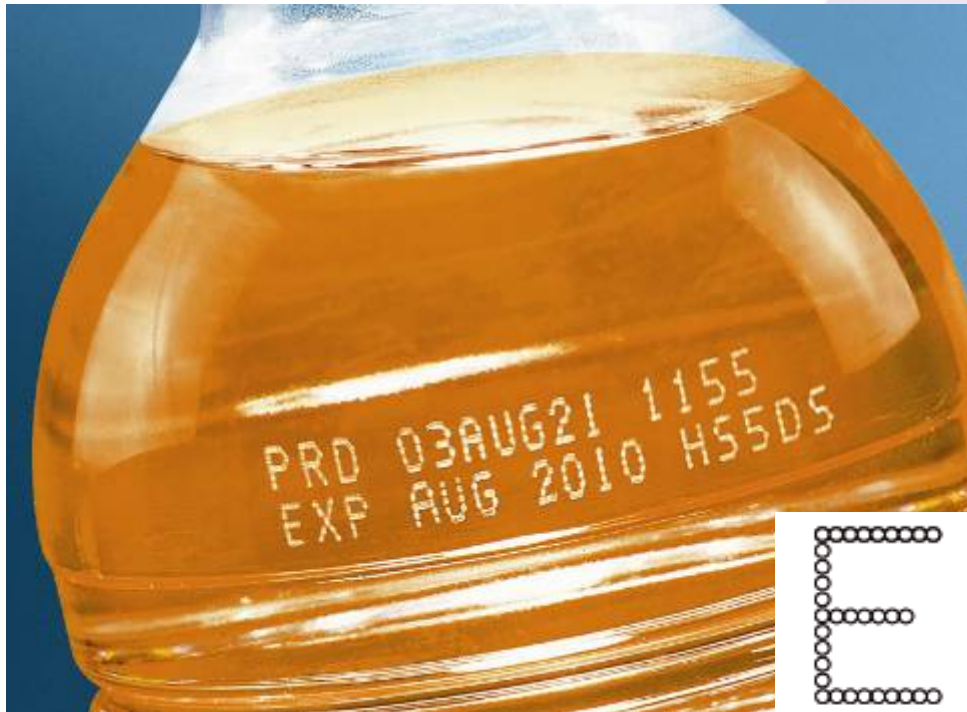
Lightjet Vector

■ ■ ■ Product in short – Range



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



Product in short – Range



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Coding on most substrates



■ PET

■ Inked paper



■ Glass

■ White paper



■ Painted metals



Product in short - Performance



- **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



Product in short - Flexibility



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



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



Product in short - Flexibility



7031:

– Innovative modular design for easy integration



Controller



6-m umbilical



Laser head

– Wide choice of lenses and pointing diode assistance



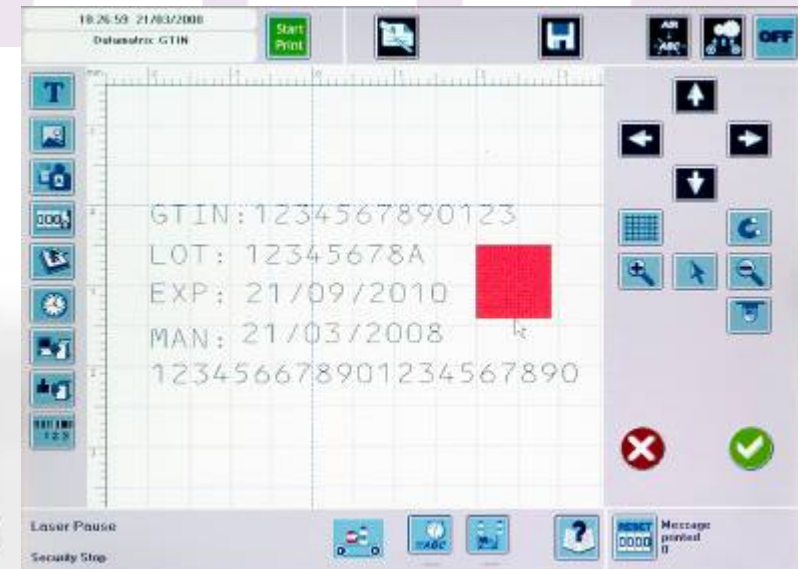
Product in short - Simplicity



- **SmartLase**: ergonomic hand held interface



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



■ ■ ■ Accessories



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Laser coder fume extractors
FS200, ES2001, ES4001, ES400, ES400 PVC

Our expertise

- Markem-Imaje extraction machines eliminate a variety of fumes and particles generated when different substrates are laser marked. To help reduce or eliminate any health issues linked to inhalation of airborne particles or gases, you can choose between various extraction systems.
- prevent contamination of products
- extend life of laser, improve productivity by eliminating particles that could affect code quality or damage laser optical system.

Your benefits

- Flexibility - Filter change is done by switching the door on the rear of the unit and replacing the used filter with the new one (if both change only).
- Simple installation or change, either above or below the laser, indicate the need for filter replacement.
- The FS200 model can be installed on the CEH.

Substrate compatibility - Designed to effectively filter the contaminating particles generated during laser marking on all substrates such as metal pipes, metal parts, PET, glass, plastics and PVC (in limited range).

Safety - High efficiency design with continuous monitoring system.

Low noise level: Below 60 dB(A) at 1m.

All filters, easy to replace, are located from being hit by the laser beam.

Door filter can be safely changed by one operator.

Easy filter change and no contamination risk for operator.

Options - High performance glass, stainless steel filter. An optional module for laser light and fumes for metal substrates. It eliminates the need for compressed air to cool the laser and reduce smoke yield.

CEH/CEH/CEH security gate/interlock door for to cool down laser code or avoid substrate fumes and particles.

FS200 model generated fumes clean air to cool down the laser code area.

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- 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.

Encombrent / Floor space

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

■ ■ ■ Accessories



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■ **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



- **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**



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your attention.*

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