

# START REDUCING COSTS AND WASTE

AND AIM TO CAPACITY PRODUCTION



**fLASER** by **MACSA**  
Low cost. No waste. Continuous.

**Macsa id**  
*a code you can trust*

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# fLASER

A FILM AND FOIL CODING LASER  
THAT WILL REDUCE COSTS  
AND WASTE, AND WILL ENABLE  
CONTINUOUS OPERATION



fLASER lasers from Macsa are excellent cost-effective and high quality alternatives to the other technologies typically used today.

- They have low-operating costs because they do not use consumables such as thermal transfer ribbons and there are no printheads to be replaced.
- They deliver consistent, permanent, high quality codes without interruption even in harsh and dusty environments.
- And thanks to the powerful on-board computer which enables multiple messages to be stored within the laser, they do not need network or PC connection.

# FOR APPLYING

LOT CODES AND BEST-BEFORE DATES  
ON FLEXIBLE PACKAGING AND OTHER  
FOIL, FILM AND PLASTIC COATED  
PACKAGING SUBSTRATES



BEST SUITED  
SUBSTRATES ARE:

- Flexible films, especially oriented polypropylene.
- Sleeves for bottles, especially polystyrene.
- Tetrapack cartons with a plastic coating.



FLASER MARKET  
INDUSTRIES

- Food
- Beverages

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# MACSA

## A CODE YOU CAN TRUST



MACSA IS A LEADING GLOBAL SUPPLIER OF LASER CODING AND MARKING EQUIPMENT AND LABEL PRINTER APPLICATIONS, SYSTEMS AND SOFTWARE.

### A COMPLETE RANGE OF LASER PRODUCTS

Including CO2 (including ICON, the specialist small character laser coder which is a cost-effective alternative to continuous inkjet printers for coding onto primary packaging), YAG and Fibre which are attractive alternatives to more expensive systems from other suppliers.

They may be controlled using Macsa's best of class iTOUCH advanced touch screen controller. The iBOX laser marking workstation provides a safe operating environment for small semi-manual YAG and fibre applications.

Macsa's label printer applicator range includes the mLABEL series of modular label and label printer applicators and the iLABEL laser print and apply labelling system.

### EASY TO INSTALL AND EASY TO USE

Powerful and easy to use software installation guides.

### MACSA SOFTWARE

Macsa's products are driven by proprietary software and Marca message creation and laser driver software enables users to develop complex messages, to communicate across networks and to operate their lasers.

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fLASERS

# REDUCES OPERATING COSTS

Because fLASER does not need consumables (such as label ribbon) nor has parts that may wear out (such as printheads), operating costs are significantly lower than those of thermal transfer overprinters.



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# LASER PRINTING ME

LONG TERM HIGH QUALITY  
PRINTING

because print from a laser  
does not degrade over time.



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fLASERS

# REDUCES WASTE

Because fLASER does not use thermal transfer ribbon, there is no waste generation of such a consumable. And lets your factory get closer to environmental friendliness.



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# ANS:

BETTER PRINTING IN DUSTY ENVIRONMENTS

because laser systems operate effectively even in the presence of dust and there is no label ribbon that can gather dust on it.



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fLASERS

# AIMS TO NON-STOP OPERATION

Because there are not ribbons to change nor printheads to replace, there is no need to halt production.



A PERMANENT CODE,  
PRINTING  
one that cannot be scratched  
or rubbed off.



<b>MODEL</b>	<b>FIBER FOIL</b>				
<b>WAVELENGTH</b>	1.064µm				
<b>MAINS SUPPLY</b>	125V / 230 V				
	50/60 Hz				
	Typical		Max.		
	(1 Fase + N) 160VA		(1 Fase + N) 250VA		
<b>DIMENSIONS</b>	725.5mm x 168mm x 190mm				
<b>WEIGHT</b>	Peso Neto: 18Kg				
	Peso Bruto: 20Kg				
<b>SYSTEM</b>	YAG Laser source, galvanometer Scanners, power supply, control electronics and CPU.				
<b>ESPECIF. FOCALES</b>	Working Distance (mm)	Focal Length (mm)	Marking area (mmxmm)	Beam Diameter (µm)	Power Density (KW/mm2)
	85	95	60x60	←34-0	4,4
	190	200	100x100	←67-E	1,1
	µm: microns    S: Standard    O: Optional    Built in marking 90°				
<b>SOFTWARE</b>	<ul style="list-style-type: none"> <li>• ScanLinux V5.1.6 and higher</li> <li>• Marca Software V5.6.5 and higher</li> <li>• Internal Bar Code</li> <li>• Software 21 CFR Part 11</li> </ul>				
<b>USER INTERFACE</b>	<ul style="list-style-type: none"> <li>• Hand held terminal</li> <li>• Touch Screen</li> <li>• PC</li> </ul>				
<b>CONTROL</b>	<ul style="list-style-type: none"> <li>• Touch Screen by software ScanLinux</li> <li>• Hand held Terminal</li> <li>• Software Marca Lite: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP).</li> <li>• Full Graphics Interface: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP)</li> </ul>				
<b>LASER SOURCE</b>	<ul style="list-style-type: none"> <li>• End pumped Nd:YAG Resonator.</li> <li>• Marking area indicator (optional red diode).</li> </ul>				
<b>ACCESSORIES / OPTIONS</b>	Touch screen Terminal – Hand held Terminal – Photocell kit – Photocell – Shaft Encoder kit – Alarm kit – Fume Extractor – Floor stand – Mounting Bracket U-ARM – Marking papers – Safety glasses				
<b>ENVIROM. CONDITIONS</b>	+15° C [59° F] to 40° C [104° F] external temperature. Humidity ←95% non-condensating. No vibrations.				

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