START REDUCING COSTS AND WASTE

AND INCREASE PRODUCTION

fLASER by MACSA

No waste. Continuous. Low Cost.

Macsa id®
a code you can trust

fLASER

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

- fLASER lasers from Macsa are film and foil coding lasers. They are used to apply variable information to flexible packaging and other foil, film and plastic coated packaging without damaging the substrate. They are cost-effective and high quality alternatives to the other traditional technologies.

- fLASER systems respond to the need of companies to reduce coding costs, reduce plastic waste and enable continuous operation. They deliver consistent, permanent, high quality codes without interruption even in harsh environments.

- By contrast traditional overprinters use thermal transfer printers. These are wasteful and need frequent maintenance, and print quality deteriorates over time.

- fLASER systems are powered by Macsa F series fiber lasers. There is an on-board computer which enables multiple message storage. Such messages can be selected directly without a network or PC connection. Messages may be created and edited using Marca message creation and laser control software.

FOR APPLYING

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

TYPICAL SUBSTRATES ARE:

- Flexible films especially oriented polypropylene (OPP), Polyesters, Polyimides, Polyamides, Acrylates.

- Shrink / sleeves for bottles especially polyethylene terephthalate (PET).

- Coated cardboard such as Tetra Pak type cartons with a plastic coating.

- Coated aluminium foil.

- Special multilayer acrylic labels (typically used in the automotive industry).
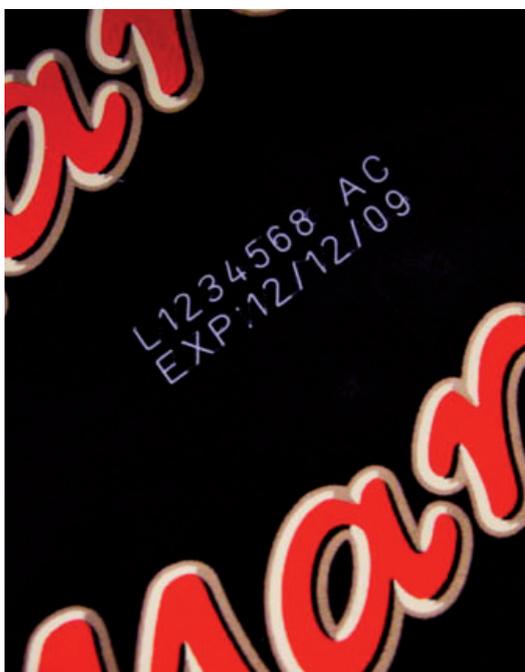
fLASER MARKET INDUSTRIES

- Food
- Beverages
- Tobacco
- Chemical
- Automotive
- Cosmetics
- Pharmaceutical
- Industrial

MACSA
A CODE YOU CAN TRUST

Macsa is a leading global supplier of coding and marking laser equipment and label printer applicators. It supplies customers, including multi-nationals and OEMs, in packaged goods and industrial markets world-wide.

Macsa's laser product range includes CO_2, YAG and fiber lasers.

- The CO_2 range includes the iCON laser coder: a cost effective alternative to continuous inkjet printers; and

- The YAG and fiber ranges include the NANO industrial lasers: attractive, all-in-one alternatives to more expensive systems.

Macsa's products are easy to install and easy to use.

Marca software enables users of Macsa's lasers to develop messages, communicate across networks and operate their lasers. They may be controlled using a touch screen controller. The iLASERBOX laser marking workstation provides a safe operating environment for small semi-manual YAG and fiber applications.

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

PRODUCE NO WASTE

There is no waste stream of thermal transfer ribbons.
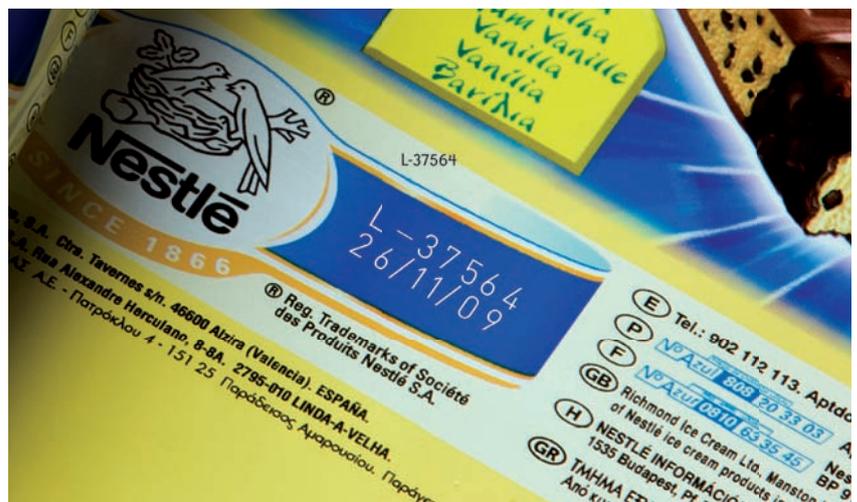

fLASER SYSTEMS DELI

CONSISTENT LONG TERM HIGH QUALITY PRINTING

There are no printheads which need cleaning or which degrade over time and need replacing.

OPERATE CONTINUOUSLY

There is no need to interrupt production to change ribbons or to replace printheads.

VER:

A PERMANENT CODE

Ink based alternatives may be scratched or rubbed off the substrate.

fLASER SYSTEMS
HAVE LOW OPERATING COSTS

They do not use thermal transfer ribbons and there are no printheads to be replaced. Thermal transfer printheads typically need replacing 2 or 3 times a year.
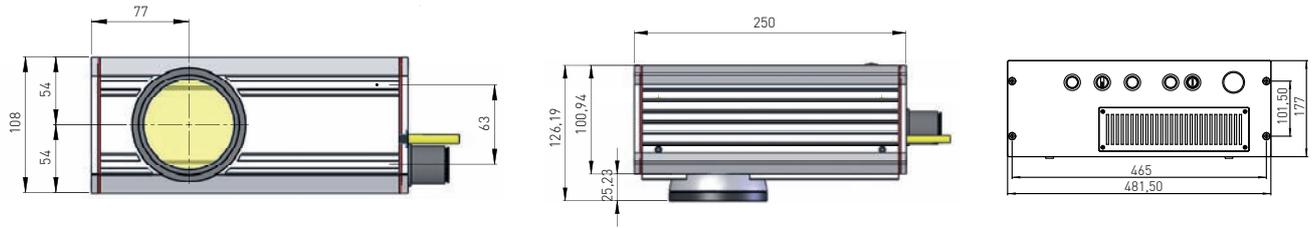

BETTER PRINTING IN DUSTY ENVIRONMENTS

Laser coders are not disadvantaged by dust whereas a thermal transfer printhead will need regular cleaning.

fLASER

SYSTEM TYPE		F-9010-C UHS	F-9020-C UHS	F-9050-C UHS
POWER		10W	20W	50W
WAVELENGTH		1.062µm		
MAINS SUPPLY		115V / 230 V 50/60 Hz (1 Phase + N) 1000W 350VA	115V / 230 V 50/60 Hz (1 Phase + N) 1000W 450VA	115V / 230 V 50/60 Hz (1 Phase + N) 1000W 650VA
DIMENSIONS	Head	108 x126 x 250mm		
	Rack	482 x 177 x 454mm (19" x 4u x 454mm)		
WEIGHT		Net weight: 23 kg - Gross weight: 30 kg		
SYSTEM		Optical isolator and collimator of the laser source, galvanometric scanners built into the marking head. Control and power electronics, drivers of the digital scanners (F-9010-C, F-9020-C and F-9050-C UHS FILM laser systems), CPU, power supplies and laser source built into the control rack.		

OPTICS

Working distance (mm)	Focal length (mm)	Marking area (mm x mm)	F-9010-C UHS		F-9020-C UHS		F-9050-C UHS	
			Beam diameter (µm)	Power density (kW/cm^2)	Beam diameter (µm)	Power density (kW/cm^2)	Beam diameter (µm)	Power density (kW/cm^2)
128	100	60 x 60	27- O	3481.9-O	27 - O	6963.7-O	27 - O	17409.3-O
205	162	100 x 100	44 - S	1326.7-S	44 - S	2653.4-S	44 - S	6633.6-S
321	254	160 x 160	69 - O	539.7- O	69 - O	1079.4- O	69 - O	2698.4- O
427	346	200 x 200	94 - O	290.8 - O	94 - O	581.7- O	94 - O	1454.2- O

µm: microns   S: Standard   O: Optional   Standard configuration marking at 90º

SOFTWARE	• ScanLinux V.5.2.7 and later for the F-9000 laser system. • Marca software V.5.6.9.a and later for the F-9000 laser system. • Internal barcode. • Marca Lite software.
USER INTERFACE	• Hand held terminal • Touch screen • PC
CONTROL	• Hand held terminal with ScanLinux software • Touch screen with ScanLinux software • Full graphics interface: includes Marca software™, dongle and ethernet cable (TCP/IP) • MarcaLite® software: includes Marca™ software, dongle and ethernet cable (TCP/IP)
ACCESSORIES / OPTIONS	Touch screen terminal – Hand held terminal - Beam pointer - Encoder kit – Photocell kit – Photocell – Alarm kit – Fume extractor - Mounting support - Mounting bracket U-ARM – Marking paper – Protection goggles
ENVIRON. CONDITIONS	15º C (59º F) to 40º C (104º F) external temperature Humidity ‹95%, without condensation. Vibration free area

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