

Macsa id
a code you can trust

Macsa id **LCX**
Laser coding expert

LASER CODING AND TRACING AFFORDABLE SOLUTIONS








MACSA ID VISION

Helping the manufacturing industry to secure their products and their customers' peace of mind while ensuring a brighter tomorrow for our future generations.

ONE COMPANY FOUR DIVISIONS

GLOBAL LEADER IN LASER TECHNOLOGY
FOR CODING, MARKING AND TRACING



✓ Laser coding systems



✓ Laser cutting systems



✓ Laser marking systems



✓ Laser textile systems



COCA-COLA | NIGERIA

"We were looking to reduce inkjet dust and costs, maximizing production in a difficult environment without renouncing high speed coding.

Macsa was the only supplier to provide us with a very suitable, fast, clean and reliable solution which covered all our needs."



LCX NANO UV

MACSA'S BUSINESS MODEL

The Macsa solutions business model has 3 main cornerstones



Macsa Hardware

More than just Laser systems



Macsa Software



Macsa Services



NESTLÉ | SWITZERLAND

"Thanks to Macsa and its complete and innovative range of lasers, we have managed to establish our corporate sustainable approach to the environment in part of our manufacturing processes."



LCX FIBER LASER

LCX CODING SYSTEMS

LCX brings together all Macsa's lasers for packaged goods.

LCX does not use ink. This means very low TCO*: no consumables budget and no ink system to maintain.



LCX CO2
10W 40W 60W



LCX FIBER
20W 50W 100W



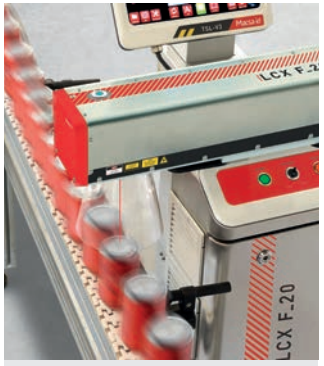
LCX NANO UV
5W



LCX UV WD
5W 15W











L'OREAL | INDIA

"We replaced mechanical dies with Macsa id lasers in order to cut flexible film packaging. The flexibility offered by these high-power lasers has allowed us to save costs and optimise production, even in short production runs."



INLINE CUTTING

LCX CO2

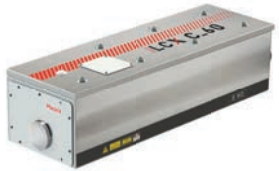
The LCX features advanced CO2 laser technology, which is ideal for marking and engraving on a wide range of materials, including plastics, paper, and cardboard.

CO2 lasers operate at a wavelength that is particularly effective for creating clear, highcontrast markings on packaged goods.



LCX CO2

10W 40W 60W



LCX CO2 WD

10W 40W 60W









DELPHI | HUNGARY

"The solution provided by Macsa allowed us to mark directly with the help of a robot managed by the laser system, without any consumable. Thanks to that, we have reduced the impact on the environment and also the production costs."



FIBER LASERS

The fiber laser technology integrated into the LCX system excels in marking and engraving on metals and robust materials.

Known for their speed and efficiency, fiber lasers provide deep and permanent marks that resist wear and environmental factors.

This technology is particularly beneficial for industries such as automotive and aerospace, where durability and precision are paramount. By eliminating the need for inks and consumables, the LCX system significantly lowers TCO, making it a cost-effective solution for high-volume production environments.

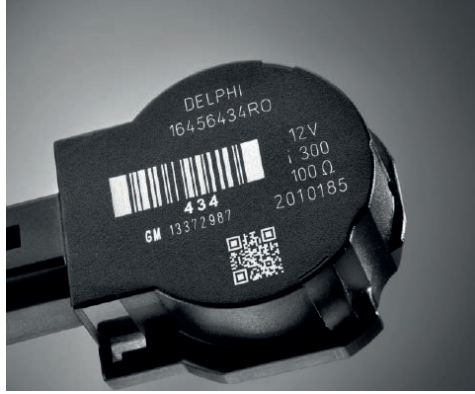


LCX FIBER
20W 50W 100W



LCX FIBER WD
20W 50W 100W











EMBRAER | BRAZIL

"We were looking for a reliable and permanent marking in order to comply with all the aerospace compliance and regulations.

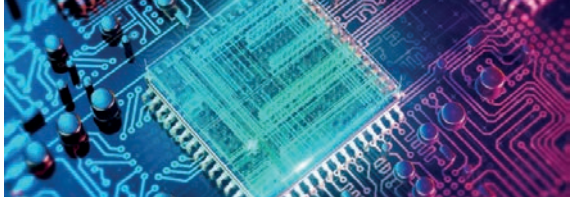
Thanks to Macsa we found the whole solution to assure that we could adhere to the existing rules in our industry."



SAMSUNG | KOREA

"Connected homes, smart factories and vehicle communication are not only words and plans of the future now. 5G enables not only the connection of users, but connection of different locations and industries. Macsa ID helps Samsung to bring forth new services and change the lifestyle of users and businesses.

Traceability in electronic components allows intelligent connectivity around the world and during the whole production process."

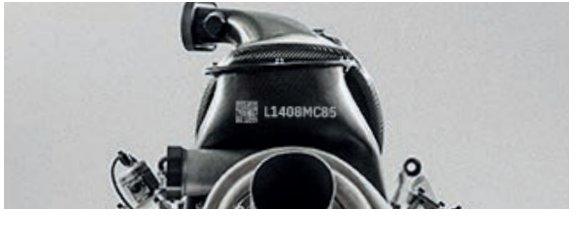






WILLIAMS | UK

"Macsa id lasers allow us to mark the multitude of parts that go to make up Formula 1 cars. With fiber lasers we achieve high-resolution, permanent markings that are resistant to all the manufacturing processes to which the parts are subjected. In addition to this, the iLaserBox ensures the protection and safety of our workers when operating the equipment."



VALEO | MEXICO

"We had a very complex issue in coding, since labelling onto the product didn't allow us to recycle it.

Thanks to the advanced Macsa laser technology, we avoided using labels while marking directly, so it provided us with a clean solution."





ROYAL ENFIELD | INDIA

"Ensuring riders safety is vital in our business.

Thanks to the solution offered by the Bradma Macsa teams, we are able to control the traceability of all our vehicles."

UV LASERS

The LCX's UV laser technology is designed for high-quality marking on sensitive substrates such as glass, metals, and certain plastics. UV lasers operate at a shorter wavelength, allowing for precise, non-destructive marking that preserves the integrity of the material.

This capability is essential for industries that require fine detail and durability in their markings, such as cosmetics and electronics packaging.

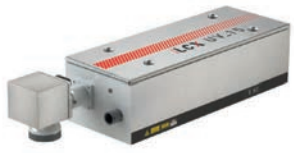








LCX NANO UV
5W



LCX UV WD
5W 15W

MACSA HARDWARE EXPANDING MACSA PORTFOLIO

High resolution industrial inkjet printing systems. A new generation of state-of-the-art industrial inkjet printers.

Easy & quick integration on customer's current production system. Low maintenance thanks to our 1 liter bottle ink. Marking instructions can be sent to the printer remotely.

Wide range of solutions to print in colour, different sizes, reduced space (umbilical), in 2 sides of a box or on different surfaces (cardboard, paper, plastic).

id TIJ

New generation of state-of-the-art industrial inkjet printers

- idTij is a high-resolution industrial inkjet printing based on HP TIJ technology.
- Robust stainless-steel housing.
- Full flexibility & reliability.
- Small space required.
- NO maintenance.
- Ideal for Pharma and Food industry.

KEY FUNCTIONALITIES AVAILABLE:

- Smartcard enabled: anti piracy system for cartridge recognition.
- Bluetooth enabled: Smartphone / Tablet App.
- Ink types: Aquos, Mid solvent, Solvent.









Inkjet Range



idJET
Dual Color / CMYK
Print height: 70mm
Vertical resolution: 180 dpi
2 color/Full color printing.



idJET
70 Compact / UV
Prints on cardboard, paper and porous material or on all types of material such as metal, plastic, polyester.using UV ink. Printing is monochrome, single color.



idJET
17/70 Hybrid
Versatile printer with an easy-to-integrate printhead in the production line.



idJET
70 Umbilical
Ideal for marking small characters as the built-in head is 17 mm. Low ink consumption.



idJET
70 DUO
Solution for printing on two sides of the box. Both machines are controlled from the same screen.

Labelling Range

Macsa P&A develops, manufactures and sells label printer applicators equipment for the product and packaging identification market.

MACSA SOLUTIONS MARKET POSITION

- Unique modular offering.
- Wide product range in P&A.
- Leading position in direct markets.
- Selling potential through our international distribution network being developed.
- Mid and high end range in P&A markets.
- Customized, in house applications capabilities.
- Competitive performance and price.





Reliable modular design





- High production.
- Reliable modular design.
- High speed printing.
- Industrial print engine.
- Wide Range of label applicators.
- OEM printer's integrations.







MLPE – Embedded P&A

Industrial print engine developed by Macsa id.



P&A elevator

Labeling at different heights.

PALLETS SOLUTIONS

- Flexible labelling 1-2-3 sides.
- Industrial design.
- Hight speed servo application.
- Automated height adjust.
- Easy consumable change.



idBlocks Pallet

Pallet labelling solution for multiple placement of labels.



RED BULL | CHINA

"We needed to create a community to allow our customers to share experiences and ideas.

We achieved this by printing one QR code on our cans at super high speeds (70.000 uds/h) with MACSA lasers and our project came true."

MACSA SOFTWARE



TOUCH SCREEN

The graphical user interface (GUI) software has been entirely designed to meet the Customer's requirements about ease of use and capabilities with a new colour touch screen.

The new MarcaTouch™ OS 2.0:

- Has a more intuitive menu-driven software.
- Is more visual, with larger icons to control/program the laser more easily and larger graphics for more precise message creation.
- The new touch screen is more reliable to ensure a long-lasting performance in the harshest environments.



EASY. COMPLETE. HIGH END.

To create text, barcodes and graphical files for downloading to the laser

Macsa lasers are very easy to use. Our powerful propietary marking software makes it simple to code and mark precisely and consistently. Our advanced line control software makes it easy to control, manage and optimize the production line.

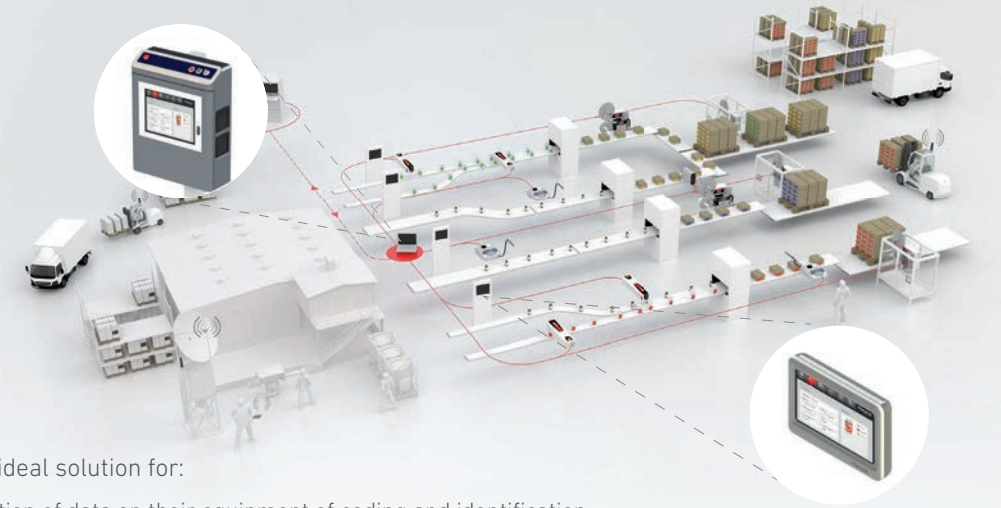
Macsa software, Marca by Macsa, is a user-friendly software to create text, 1D and 2D codesm 3D graphics, graphical files, etc... for downloading to the laser. Also offers the Event Handler, an easy configuration of event based scripts to avoid the need for expensive and time consuming custom software.

integra 4.0 by Macsa id

The modular software to control, manage and optimize the production line

Integra software by Macsa ID is everything your business needs to stream its production line, improve your performance and quality control and manage the location of its raw materials and finished products. This tool was developed by Macsa ID and is endorsed by hundreds of satisfied customers. It is submitted to conitinuos updates, allowing a continuos adaptation according to European laws and the new need of the market.





It is the ideal solution for:

- Integration of data on their equipment of coding and identification
- Traceability
- Warehouse management

integraconnect
Connection software for integrating different equipment (coders, scanners, computer vision etc.) made by the leading manufacturers.

integraoptima
Application for the centralized management of the coding, marking, and labeling process.

integravision
Solution coding and production verification and control.

integraserialization
Module for the individual traceability of the supply chain.

integraefficiency
Automatic compilation and production line data analysis.

integrawarehouse
Warehouse management system (WMS).

integratrack&trace
Solution for controlling production, quality and traceability.

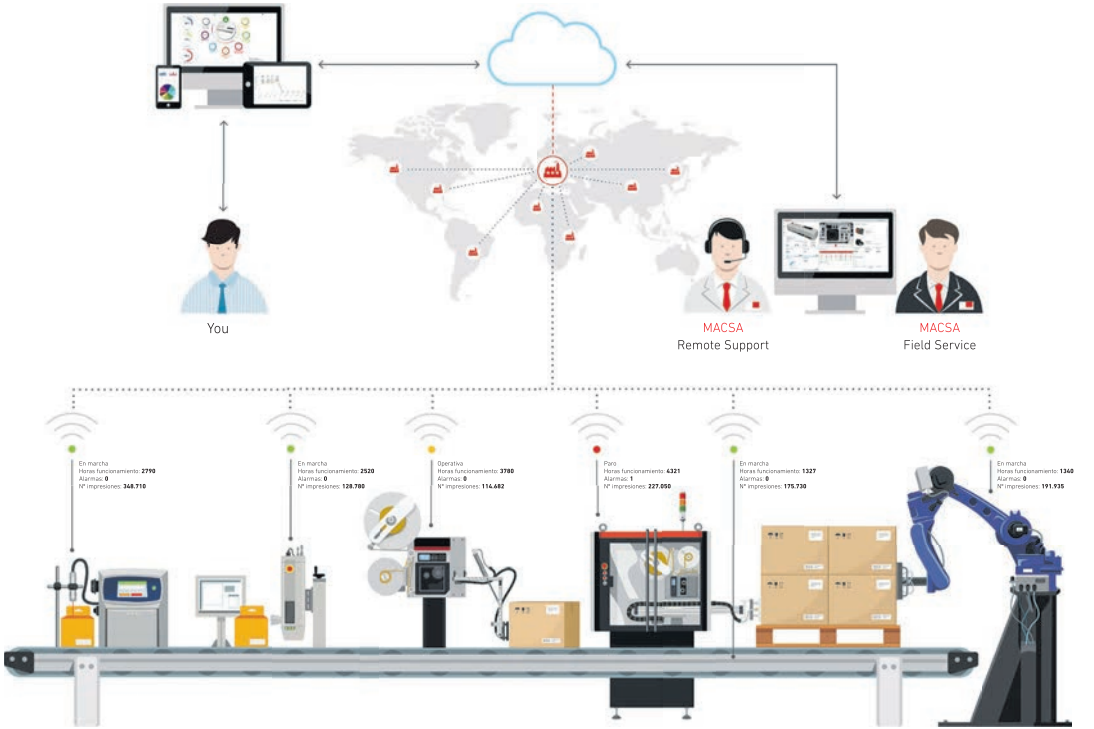
integranet 4.0
Solutions offering predictive maintenance monitoring, remote assistance, and production support services.

integranet 4.0

Macsa's ID 4.0 service

4.0 service represents a conceptual change in the provision of services. This change entails a redefinition of commercial business models as well as transactional service processes.

Due to the high degree of interconnection and intelligence of the machines, with this paradigm change we are able to provide levels of efficiency in the implementation of the services far superior than the current services.



SERVICES 4.0

Macsa ID integraNET is a new approach that supports the structure of new technologies and tools Macsa 4.0. IntegraNET is a platform that incorporates solutions for monitoring, predictive maintenance, remote technical assistance and production support.



Monitoring and predictive maintenance

From any place and at any time, provides data in real time to increase productivity, improve efficiency and reduce downtime.

Based on a web-based solution, it allows to monitor the status of the equipment from any remote device (PC, phone or Tablet), which can allow the reception of alerts by email and text.

IntegraNET allows our service engineers to receive Diagnostics in real time from your computer, helping to detect problems before they occur and cause stops and inactivity costs, which will allow your equipment to work with the maximum efficiency.

Remote assistance

IntegraNET allows to interconnect and exchange information through video call between field technicians and our engineers of Macsa ID.

Through a secure encrypted remote connection it enables to accurately solve problems, upload or download programs and send software updates, Increasing productivity and service efficiency.

Increased efficiency

The collected data is integrated with different softwares of Macsa ID module for production management, traceability and efficiency by providing an overview of the production lines.

CUSTOMER SERVICES Integranet 4.0

Conceptual change in the provision of services through a cloud-based internet of things (iot) solution.

Macsa id's main purpose is to provide their customers with specific and customized solutions in order to help them to achieve their ultimate goals.



CONSULTANCY

We help customers to attain their business objectives by achieving significant improvements in quality, safety and performance.



CUSTOMIZATION

Macsa ID's added value is to provide customized solutions which align products and services to address customer needs.



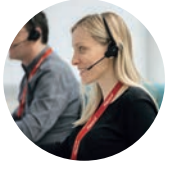
R&D&I

Macsa ID invests a significant portion of its resources in an ongoing programme of research, development and innovation in order to stay ahead of the industry's changing requirements.



TRAINING

Macsa ID offers a wide range of training programmes for laser design software, equipment usage and technical maintenance.



TECHNICAL ASSISTANCE

A team of Macsa ID trained technicians is ready to meet any need that may arise in installation and commissioning activities and on-site support services.



ORIGINAL SPARE PARTS

Macsa ID always supplies original spare parts of the highest quality to guarantee effective repairs and to give equipment the maximum lifetime possible.

PRODUCTS	SERVICES	DATA
Production line management and control	Remote support	Performance monitoring

TRACK & TRACE

Real-time monitoring of production with 12 warning alerts if predefined quality standards are not met.

EFFICIENCY AND OPTIMIZATION

Depending on the usage data, processes can be highlighted for more appropriate operating conditions in terms of speed, scale and costs.

MAINTENANCE SERVICES

Through continuous monitoring the need for maintenance can be predicted, avoiding unwanted production interruptions and minimizing services costs.

IMPROVE PROCESSES

With the usage data generated by connected equipment, it is possible to identify the need to develop or redesign new components ans processes to avoid specific failures and eliminate unused features.

OUR CUSTOMERS ARE BIG AND SMALL

We are present in several Major multinational companies and smaller single site operations:

BEVERAGE



HOUSEHOLD CARE / PERSONAL CARE



AUTOMOTIVE



FOOD



PHARMACEUTICAL



OTHERS



HISTORY

1989

We patented the first dynamic laser system worldwide.



1996

We expand our sales into international markets. First distributor: Germany.



1999

We add more countries to our distributor network.



2003

We launch the first world compact laser coder.



2009

We launch the iCON laser, a specialist small character coding laser. We introduce a new laser technology: fiber lasers.



2012

We introduce the first world Fiber for coding and marking on the fly.



2013

We extend our services to the label business in our new labeling production center of Sabadell. We open our own office in China.



2014

We launch HPD fLASER: inline Laser cutting, coding & Scoring. Laserhape and stand out from the crowd.



2015

We launch the new range of Lasertex: lasers in the textile industry, the most sustainable solution.



2016

We introduce the New idJet range: high resolution inkjet printing systems.



2017

We develop DIGILase: inkless inline digital printing, the next generation of package printing, in partnership with Xerox.



2018

Macsa ID acquires shareholding in HALO Lasers UK, a manufacturer of industrial marking lasers. We open an office in Malaysia.



2019

SPA launch. CO2, fiber & DPSS laser range.



2020

BiDiLase: launch of the first and only ultra-high-speed encoding laser on the market.



2022

SPA2 launch. Smart Packaging Applications full laser range.



2024

We launch LCX. Laser coding expert.



MACSA IN THE WORLD

We compete in a global market and have sales on over 90 countries. Macsa ID works with distributors in each country and provides a consistent service offering to their affiliates wherever they may be. We have also direct offices in Portugal, China, Mexico, Malasia and UK.

Macsa ID's headquarters and its production plants are located in Barcelona (Spain), Shefford -Bedfordshire (UK) and Shenzen(China).



- MACSA Headquaters
- MACSA Branch Offices
- MACSA Distributors
- MACSA JV



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