

NOT QUITE SMALL
ENOUGH TO FIT IN YOUR
POCKET BUT AT A PRICE
WHICH YOU CAN AFFORD



725,5mm



NANO by **MACSA**
Smart. Compact. Affordable.

Macsa id[®]
a code you can trust

NANO LASERS

SMART, COMPACT
AND AFFORDABLE
YAG LASERS



NANO YAG lasers from Macsa are compact and affordable low cost laser coders. They are used by industrial manufacturers to mark their products. They work effectively with a range of plastic and metal substrates.

These lasers have been developed with Macsa's 20 years' development experience and in partnership with Macsa's suppliers. This has resulted in lasers which are smaller and more affordable than competitive products.

- NANO lasers are also cost competitive with traditional marking technologies.
- NANO lasers are easy to install and integrate. They are small and compact and can be fitted in limited space. They are fully network enabled and equipped with an on-board computer making an external PC unnecessary.
- NANO lasers are easy to use: they use Marca software to code precisely and consistently. This is not possible with traditional technologies.
- NANO lasers may be integrated with iLASERBOX workstations. Such lasers are fully-automated plug and play class I laser marking systems.

USED IN INDUSTRIAL MARKETS

FOR MARKING AND ENGRAVING
A RANGE OF PLASTICS AND METALS

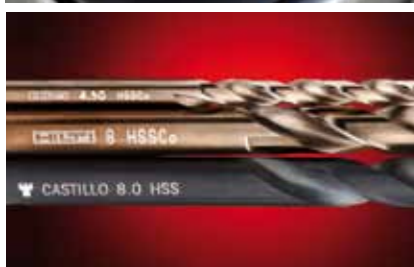


NANOD

YAG laser marker
725.5 x 168 x 190 mm

NANO MARKET INDUSTRIES

- General industry
- Aerospace
- Automotive
- Electronics
- Medical devices
- Security
- Jewelry
- Telecommunications
- Promotional giftware



MACSA

A CODE YOU CAN TRUST



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

Macsa's laser product range includes CO₂, YAG and fiber lasers.

- The CO₂ 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.

Macsa 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.

NANO LASERS ARE EASY TO INTEGRATE

NANO lasers are smart. Their full graphics interface, Marca message creation and laser control software, means that NANO lasers are easy to install, configure and use, and can apply variable information to a range of metals and plastic substrates with precision: time after time.



MACSA ID CAN OFFER

iLASERBOX, the marking system
solution for difficult-to-mark
products

For those products that do not lend themselves to conveyor belt marking and require special handling, iLASERBOX is the perfect solution developed by Macsa. iLASERBOX ensures safety, precision, durability and quality in product identification and marking.



NANO LASERS ARE EASY TO INSTALL

NANO lasers are compact. Because NANO lasers are small, they are only 725.5x168x190 mm, they are easy to install even where there is limited space. And the laser head and controller are contained in a single unit making such installations even easier.



EMERGENCY STOP

Totally accessible emergency stop button, in compliance with laser safety regulations.

INTERFACE PANEL

Multiple connections including power supply, photocell, shaft encoder, remote input/output, Ethernet (TCP/IP) and external shutter.

MONOBLOC CONSTRUCTION

NANO's single-piece construction makes it extremely robust and compact.

CONTROL UNIT

Advanced touch screen



AIR COOLED

LED STATUS INDICATORS

Green: Laser ready to print.
Blue: Laser printing.
Red: Alarm, laser unable to print.

SEVERAL OPTIONS TO COMPLEMENT

D Series

DPSS YAG lasers designed for heavy duty industrial marking. D series lasers are effective on a wide range of plastics and metals.



F Series

Pulsed fiber lasers designed for industrial marking. F Series lasers may also be configured for coding film and foil flexible packaging.



NANO LASERS ARE AFFORDABLE

NANO lasers are affordable. With over 20 years' experience designing industrial lasers and close relationships with leading component suppliers in the US and Europe Macsa has been able to reduce the cost of NANO lasers.



ENT NANO

S Series

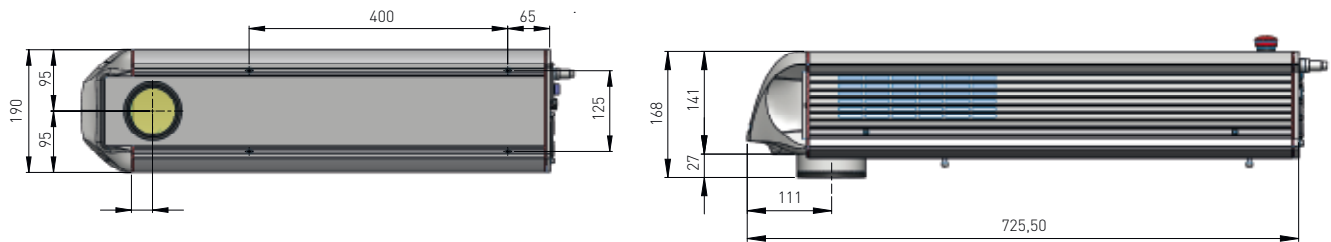
Variants of the K Series with a small detached laser head. S Series lasers are ideal for installation where access is restricted.



Green Laser

A specialist YAG laser designed for use on special applications, used in high-tech sectors such as aerospace, solar energy and electronics.





WAVELENGTH	1.064µm				
MAINS SUPPLY	125V / 230 V 50/60 Hz				
	Typical		Maximum		
	[1 Phase + N] 160VA		[1 Phase + N] 250VA		
DIMENSIONS	725.5mm x 168mm x 190mm				
WEIGHT	Net weight: 18Kg Gross weight: 20Kg				
SYSTEM	YAG laser generator, galvanometric scanners, power supply unit, control electronics and CPU.				
FOCAL SPECIFIC.	Focal distance (mm)]	Working distance (mm)	Marking area (mm x mm)	Beam diameter (µm)	Power density (KW/cm ²)
	100	128	60x60	< 27 - O	1387.5
	162	205	100x100	< 44 - E	528.7
	254	321	160x160	< 69 - O	215.1
	µm: microns S: Standard O: Optional Built in marking 90°				
SOFTWARE	<ul style="list-style-type: none">• ScanLinux V5.1.8 and later• Marca Software V5.6.6 and later• Internal Barcode• 21 CFR Part 11 Software				
USER INTERFACE	<ul style="list-style-type: none">• Hand held terminal• Touch Screen• PC				
CONTROL	<ul style="list-style-type: none">• Touch Screen with ScanLinux software• MarcaLite® software, with security key and Ethernet (TCP/IP) cable connection• Hand Held Terminal• Full Graphics Interface, key protected software and Ethernet (TCP/IP) cable connection				
LASER SOURCE	<ul style="list-style-type: none">• ND: YAG resonator pumped by the endpoint• Beam Pointer (optional red diode)				
ACCESSORIES / OPTIONS	Touch Screen Terminal – Hand Held Terminal – Photocell kit – Photocell – Encoder kit – Alarm kit – Fume Extractor – Floor stand – U-ARM assembly support – Marking papers – Safety goggles				
ENVIRON. CONDITIONS	<ul style="list-style-type: none">• 15° C (59° F) to 40° C (104° F) external temperature.• Humidity <95%, without condensation.• Vibration free area.				

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MACSA ID, S.A.
T. +34 93 873 87 98 - F. +34 93 874 11 56
Girona 46, 08242 Manresa, Barcelona SPAIN
macsa@macsa.com - www.macsalaser.com

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