

macsa F-1000

laser system

Laser Marking & Coding System

The Macsa series F-1000 are the solution for marking your products with incredibly clear messages at minimal operational costs



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From evolution to innovation

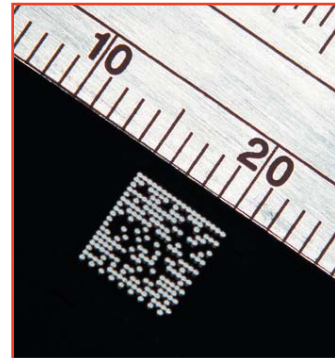
The incredibly compact design along with an adjustable marking head ensures that you can install this system on even the most complicated production lines. The system can even be integrated with other manufacturer's equipment.

This easy to use system works through a combination of extremely fast mirror tracking systems and the most modern software and hardware you can be assured of reliable high speed marking.

The latest in laser technology along with the fact that you don't need expensive replacements results in a system that requires little maintenance, minimal operational costs and no headaches.

The marking process is unimpeded because you don't need an expensive and space consuming PC on the production line. Even more, in Macsa lasers, with MACSA's software, you can link several F-1000 laser systems together for even greater control and increased production or increase graphic features of the Flymark laser connecting a PC through the full graphic interface kit.

All of these features ensures that everyone of your products is marked with the same high degree of quality and permanence guaranteeing accurate identification for the lifetime of your products. A diverse range of materials can be marked utilizing the Flymark system including labels, cardboard, PET, glass, coating and wood.



User Interface for Laser Systems

Hand-held Terminal

Connection via RS-232 with ScanDOS software included in laser marking system • creation and editing of text messages • able to create up to 4 lines of text • 4 types of MFF fonts • modify size (max. 20 mm) and separation between characters • modify message XY position • time marking in multiple formats • clock adjustment • laser system control parameters • sequential numbers • password protection system • for both static and dynamic applications.



Touch Screen

Connection via RS-232 with ScanDOS software included on marking laser system • Handheld Terminal emulator • allows control of the laser marking system from a remote touch screen • easy integration • easy and safe operator access for changing messages and parameters on line • for both static and dynamic applications.



Personal Computer

Connection via RS-232 (Dynamon™) or Ethernet TCP/IP (Marca™) with ScanDOS software included on marking laser system • compatible with all kinds of operating systems Windows 95/98/NT/Me/2000/XP • able to control the laser marking system from a remote PC • quickly transfer of messages from PC to ScanDOS • confers powerful graphics capabilities • quick and easy access to the editing and graphics capabilities • able to create messages in all of the marking area • for both static and dynamic applications.



Software for Laser Systems

SCANDOSTM V 1.6 Internal software controlling the laser marking system

ScanDos is the internal software running on MS-DOS managing the laser marking system • controlling laser beam position • calculating printer laser position • controlling angular position of scanner mirrors • calculating corrections for marking on the fly • controlling electronic scanning board input/outputs • ScanDos allows the operation of the Handheld, Dynamon™ and Marca™ software • ScanDos includes Crystal Font™ dot matrix fonts • ScanDos software provides the option of changing the menu language of the Handheld terminal. It also allows the user to see the number of marks made during a printing session without going out of the printing menu.



DYNAMONTM V 2.6 Software for networking, static and dynamic applications via serial port RS-232

Easily installed • Software compatible with Windows 95/98/NT/Me/2000/ XP for networking, static and Dynamon™ software supplied with protection key • networking capabilities of several laser dynamic application systems via RS-232/422 ports • basic graphic interface able to built in text and graphic in all the marking area • create simple logos • capable of downloading MFF fonts and DXF vector files • selection of the user message via RS-232 • alarm control • messages activated by hourly, daily or monthly changes.



MARCA™ V 4.9 Software for high resolution & static applications via Ethernet TCP/IP

Easily installed • Software compatible with Windows 95/98/ NT/Me/2000/XP for high resolution & Marca™ software supplied with protection key • controls laser systems via Ethernet static applications TCP/IP • powerful WYSWYG design editor in all the marking area • zoom • unlimited layering • bar codes • 2D barcodes • MFF font editor • character filling features • capable of downloading BMP, JPG, GIF, TIF, PCX and other graphic files • capable of downloading DXF vector files with multiple import options • objects and characters morphing • ODBC (database) features • fill object features • true type text fonts • messages activated by hourly, daily or monthly changes • networking capabilities of several systems via Ethernet TCP/IP • access registration for all the users • creation of reports of the registered marking in the CPU laser memory • synchronization of PC and laser clocks • "auto text" external messages • aligns the selected objects • power, frequency, resolution and speed adjustments by software • allows to configure function keys.



Series F-1000 PLUS / SP - CO² - AIR COOLED

MODEL	F-1010 PLUS	F-1030 PLUS	F-1010 SP	F-1030 SP																											
NOMINAL POWER	10W	30W	10W	30W																											
MAINS SUPPLY	110V /220V 50/60Hz 1 Phase + N 600W	110V /220V 50/60Hz 1 Phase + N 1000W	110V /220V 50/60Hz 1 Phase + N 600W	110V /220V 50/60Hz 1 Phase + N 1000W																											
FOCAL SPECIFICATIONS																															
Focal distance	Marking Area	Beam Diameter		Beam Diameter																											
80 mm	60x60 mm	<160 µm Optional	<170 µm Optional	<320 µm - <310 µm Standard																											
190 mm	100x100 mm	<360 µm Standard	<390 µm Standard	<730 µm - <700 µm Optional																											
240 mm	170x170 mm	<480 µm Optional	<520 µm Optional	- - <930 µm Optional																											
320 mm	200x200 mm	- -	<700 µm Optional	- - <1200 µm Optional																											
410 mm	250x250 mm	- -	<900 µm Optional	- - - -																											
			µm: microns Built in 90o marking as standard (easily convertible in 0o marking).	µm: microns Built in 90o marking as standard (easily convertible in 0o marking).																											
WEIGHT	Net weight: 19 Kg / Gross weight: 24 Kg	Net weight: 32 Kg / Gross weight: 40 Kg	Net weight: 19 Kg / Gross weight: 24 Kg	Net weight: 32 Kg / Gross weight: 40 Kg																											
SOFTWARE	SCANDOS from V. 1.6 and higher MARCA from V. 4.9 and higher DYNAMON		SCANDOS from V. 1.6 and higher																												
USER INTERFACE	HandHeld Terminal / Touch Screen / PC		HandHeld Terminal																												
CONTROL BY	<ul style="list-style-type: none"> • Handheld Terminal with ScanDos software • Touch screen with ScanLinux software. • Full Graphics Interface: includes Marca software protection key and Ethernet cable (TCP/IP) • Network Interface: includes DynamonTM, software protection key and RS-232 serial cable. 		<ul style="list-style-type: none"> • Handheld Terminal with ScanDos software Fonts: <ul style="list-style-type: none"> • Crystal Font 7 x 5 • Crystal Font 5 x 5 • Newpal • Newpal 2 																												
SPEED	<table border="1"> <thead> <tr> <th rowspan="2">Scanners Speed</th> <th rowspan="2">Marking Type</th> <th colspan="2">Lens</th> </tr> <tr> <th>100x100</th> <th>60x60</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1500 mm/s</td> <td>Static</td> <td>231 c/s</td> <td>138 c/s</td> </tr> <tr> <td>Dynamic</td> <td>207 c/s</td> <td>124 c/s</td> </tr> <tr> <td rowspan="2">2500 mm/s</td> <td>Static</td> <td>297 c/s</td> <td>178 c/s</td> </tr> <tr> <td>Dynamic</td> <td>255 c/s</td> <td>153 c/s</td> </tr> <tr> <td rowspan="2">3500 mm/s</td> <td>Static</td> <td>333 c/s</td> <td>200 c/s</td> </tr> <tr> <td>Dynamic</td> <td>300 c/s</td> <td>180 c/s</td> </tr> </tbody> </table> <p>mm/s: millimetres per second c/s: characters per second Speeds calculated with 2 text lines of 7 characters + 8 characters of 2.5mm of height. Example of dynamic marking with F-1030 PLUS with a 100x100 lens. Max. speed of 71m/min, which means 35.000 bottles per hour.</p>				Scanners Speed	Marking Type	Lens		100x100	60x60	1500 mm/s	Static	231 c/s	138 c/s	Dynamic	207 c/s	124 c/s	2500 mm/s	Static	297 c/s	178 c/s	Dynamic	255 c/s	153 c/s	3500 mm/s	Static	333 c/s	200 c/s	Dynamic	300 c/s	180 c/s
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SYSTEM CABINET	Laser, Control electronics, computer and Scanners built into the laser system																														
MARKING HEAD	CO ² sealed laser tube / R.F. technology / Wavelength: 10,6 microns																														
ACCESORIES	Diode marking area indicator / Mounting support / Encoder and photocell kit																														
AMBIENT CONDITIONS	10oC (50oF) to 35oC (95oF) external temperature / Humidity <95% non-condensating No vibrations																														

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