TECHNICAL DATA

MODEL				SPA2 C-60		SPA2 C-80		SPA2 C-100		SPA2 C-80 PULSED		SPA2 C-125 PULSED	
IMAGE													
SYSTEM	Power			60 W		80 W		100 W		80p		125p	
	Technology			CO2 Sealed Tube CW						CO2 Sealed Tube Pulsed			
				RF Technology									
WAVE-LENGTH	10,6 microns for BIO materials			Std.									
	10,2 microns for FILM materials			Opt.						-			
	9,3 microns for PET bottles			Opt.									
MAINS POWER SUPPLY				110 / 240 V AC									
				50 / 60 Hz									
				(1 Phase + N) 1600 VA		(1 Phase + N) 1900 VA		(1 Phase + N) 2100 VA		(1 Phase + N) 1900 VA		(1 Phase + N) 2230 VA	
COOLING	Air/Water			Air (SE) / Forced Air (DE)/Water (WD)		Air (SE) / Forced Air (DE)/Water (WD)		Air (SE) / Forced Air (DE)/Water (WD)		Water		Water	
	Filtered Blower (350m3/h)			Opt. (DE)		Opt. (DE)		-		-		-	
	TCU			Opt. (DE)		Opt. (DE)		Opt. (DE)		-		-	
	Chiller			1000W (WD)		1500W (WD)		2000W (WD)		2000 W		2500 W	
WARMING	Warming Blower			Opt. (DE)		Opt. (DE)		Opt. (DE)		-		-	
FOCAL SPECIFICA-TIONS FOR LENSES with BE for XQS Head	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD
	40x40	60 mm	65 mm	191	209	191	278	211	287	175	331	175	517
	60x60	95 mm	95 mm	280	97,2	280	130	308	134	257	154	257	241
	75x75	115 mm	125 mm	371	55,6	371	74,1	408	76,6	340	88,2	340	138
	100x100	165 mm	160 mm	473	34,2	473	45,5	520	47,1	434	54,2	434	84,7
	150x150	235 mm	240 mm	707	15,3	707	20,4	777	21,1	648	24,3	648	37,9
	200x200	320 mm	320 mm	946	8,5	946	11,4	1041	11,8	867	13,5	867	21,2
	250x250	430 mm	410 mm	1209	5,2	1209	7,0	1330	7,2	1109	8,3	1109	13,0
	500x500	700 mm	720 mm	2126	1,7	2126	2,3	2339	2,3	1949	2,7	1949	4,2
FOCAL SPECIFICA-TIONS FOR LENSES with BE for HPD Head	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD
	40x40	55 mm	65 mm	120	532	120	710	132	733	88	620	88	968
	60x60	85 mm	95 mm	175	250	175	333	192	344	128	251	128	393
	100x100	150 mm	150 mm	275	101	275	135	302	140	201	105	201	165
	150x150	230 mm	230 mm	424	42,5	424	56,6	467	58,5	311	105,3	311	164,5
	200x200	310 mm	300 mm	553	25,0	553	33,3	608	34,4	405	62,0	405	96,9
	250x250	400 mm	400 mm	740	14,0	740	18,6	814	19,2	542	34,6	542	54,1
	320x320	435 mm	450 mm	828	11,1	828	14,9	911	15,3	607	27,6	607	43,1
	500x500	700 mm	715 mm	1319	4,4	1319	5,9	1451	6,1	967	10,9	967	17,0
MARKING HEAD	XQS Split			Std. (SE, DE)		Std. (SE, DE)		Std. (SE, DE)		-		-	
	HPD Split			Opt. (SE, DE)		Opt. (SE, DE)		Opt. (SE, DE)		-		-	
	XQS Split WD (IP65)			Opt. (SE, DE) / Std. (WD)		Opt. (SE, DE) / Std. (WD)		Opt. (SE, DE) / Std. (WD)		Std.		Std.	
	HPD Split WD (IP65)			Opt									
ACCESSORIES MARKING HEAD	Beam Exit at 0°			Opt. (SE, DE)		Opt. (SE, DE)		Opt. (SE, DE)		-		-	
	Beam Exit at 90°			Std.									
	Split Elbow			Opt.									
	Focal Distance Indicator			Opt.									
	Marking Area Indicator			Opt.									
CONTROL	Touch Screen TSL-V3			Opt. (SE, DE)		Opt. (SE, DE)		Opt. (SE, DE)		-		-	
	Touch Screen TSL-V3 IP65+			Std. (WD)		Std. (WD)		Std. (WD)		Std.		Std.	
	PC with Marca Software			Opt.									
SOFTWARE	ScanLinux			Opt.									
	MarcaTouch OS 2.00			Std.									
	Marca Full Graphics PC Softw.			Opt.									
	TCPIP Protocol			Opt.									
	Profinet Protocol			Std.									
	OPC-UA Protocol			Opt.									
	Internal Barcode Generator			Opt.									
SAFETY	ElectroMechanical Shutter			Opt.									
	Performance Level d Safety Kit			Opt.									
ACCESSORIES				Diode Marking Pointer - Encoder Kit - Mounting Support - Photocell Kit									
ENVIRON-MENTAL CONDITIONS	Operating Temperature			15 °C (50 °F) to 40 °C (104 °F)									
	Humidity			< 95 %, non-condensing									
	Vibrations			No vibrations									
	Protection Rate (3 types available)			SE (Standard Environment)						-			
				DE (Dusty Environment)						-			
				WD (Washdown Environment)									
DIMENSIONS (AxBxC)	Head			-						-			
	Cabinet			202 x 650 x 525 mm (SE, DE) / 350 x 243 x 1105 (WD W/O ELBOW)						525 x 294 x 1055 mm (W/O ELBOW)			
WEIGHT	Net Weight			28 kg (SE, DE) / 70 kg (WD)						82 kg			
	Gross Weight			30 kg (SE, DE) / 72 kg (WD)						84 kg			

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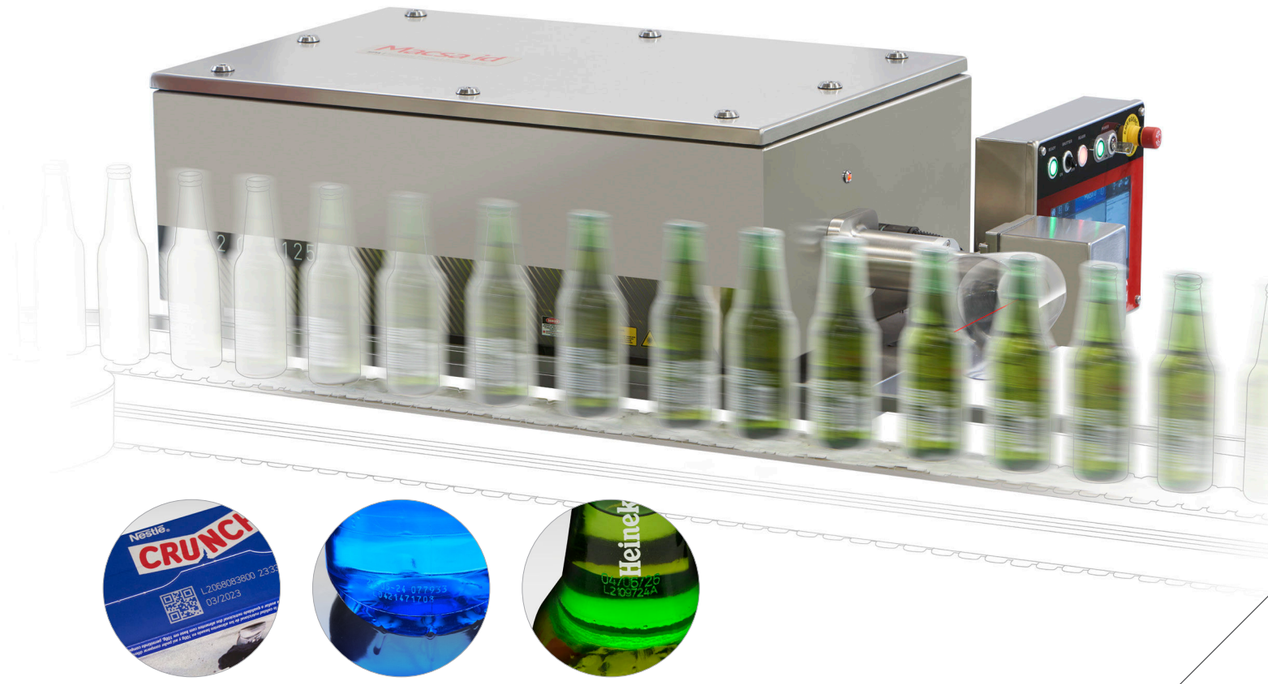
Macsa id
a code you can trust

SPA2 C

C-60W | C-80W | C-100W | C-80P | C-125P

Reliable laser coding in high-speed, dusty and washdown environments



One platform, multiple substrates

CO2 lasers used in higher speed packaged goods applications including boxes, bottles and blister packs. They provide legible markings of the highest quality, which are permanent and sustainable in all production environments. Available in di erent enclosures in order to mark a wide variety of substrates such as cardboard, glass,ceramics, PET and PVC in the FMCG markets.

PRODUCT BROCHURE

SPA2 is much more than a laser system

The SPA2 range of laser coders is the next generation of Macsa's successful SPA, Smart Packaging Application, laser platform.
The SPA2 range adds more power options including pulsed CO2 lasers.

SPA2
SMART PACKAGING APPLICATIONS

SPA2 C ideal for packaged goods

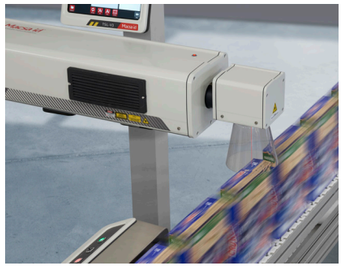
SMART | RELIABLE | FAST

SPA2 C 60W to 125W CO2 lasers are widely used in higher speed packaged goods applications including boxes, bottles and blister packs. They are typically used to code paper and board, glass and ceramics, coated materials, PET and PVC.

- 10.6, 10.2 and 9.3 wavelength lasers are available to meet the coding needs of specific substrates such as film and PET.
- High-powered pulsed lasers (80W & 125W) are available for the highest speed lines enabling print speeds of up to 200,000 bottles/hour.
- DUO dual processor technology enables high-speed and high-quality printing with variable data.
- 10.1-inch touch screen controller with context sensitive HELP and on-line instruction videos including Marca Touch OS.
- Extra protection enclosures are available for dusty (IP54) and washdown (IP65) environments.

SE Standard Environment IP31

C-60W / C-80W / C-100W



DE Dusty Environment IP54

C-60W / C-80W / C-100W

WD Washdown IP65

C-60W / C-80W / C-100W / C-80p / C-125p

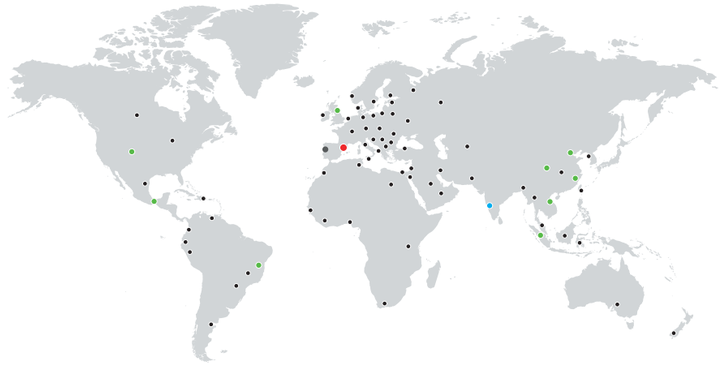
Why Macsa id?

Macsa id is one of the 4 leading companies in the world in coding and marking lasers. It offers the widest range of lasers to code and mark both in the productive sectors (food, beverages, pharmaceutical, healthcare, cosmetics ...) as well as in the industrial ones (industry, automotive, aeronautics, defense, construction materials ...).

Macsa id is recognized as a world leader in technological innovation in lasers for marking and coding. The company invests more than 10% of its turnover in R&D every year.

Macsa id
in more than
80 countries

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



The most complete range of CO2, Fiber and DPSS lasers on the market

CO2
Available from 10 to 450W

Fiber
From 20W to 200W

Fiber Film
From 20W to 100W

DPSS
From 6 to 20W
(also Green & UV available)

PRECISION
Several features including Macsa's propietary VCS to ensure high print quality even on high-speed production lines.

VCS® Vibration Compensation System

VERSATILITY
Integrated into any production line, it can encode over a wide range of materials using 3D printing options.

3D printing

RELIABILITY
Production environments can test the reliability of laser systems. SPA2 lasers are designed to operate reliably in dusty or damp environments even when subject to extreme temperatures.

RAF® Reverse Air Flow

ADAPTABILITY
Wide range of essential and extra accessories to optimise the laser's performance.

Macsa Accesories

SIMPLICITY
Videos and support material to facilitate its installation and integration.

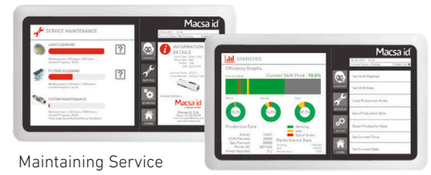
MARCA software®

CONNECTIVITY
The lasers include the TCP/IP protocol in order to have complete control of the system from most standard communications.
The new SPA2 platform includes the integration of the most widely used industrial communication protocols such as Profinet and OPC-UA. These are both available in all models upon request.

PROFINET® OPC UA

SOFTWARE AND SERVICES

integranet 4.0



Maintaining Service

Equipment performance

MONITORING AND PREDICTIVE MAINTENANCE
From any place and at any time, data is provided in real time to increase productivity, improve e ciency and reduce downtime. It allows monitoring of the status of the equipment from any remote device which can allow the reception of alerts. IntegraNET allows our service engineers to receive Diagnostics in real time to detect problems before they occur and prevent expensive downtimes.

REMOTE ASSISTENCE
IntegraNET allows field technicians and Macsa id engineers to interconnect and exchange information through video calls.

INCREASED EFFICIENCY
The collected data is integrated with the different software of Macsa id modules for production management, traceability and effciency of the production lines.

ecoding Driven by Nature

NO CONSUMABLES
A clean technology that does not produce waste.

ENVIRONMENT FRIENDLY
No harmful emissions are generated, thus benefitting the work environment and the planet.

CLEAN
For a cleaner and healthier workspace.

ENERGY EFFICIENT
Maximum quality and coding speed with just the right amount of energy.