TECHNICAL DATA

MODEL				SPA 2 F-20 FILM		SPA 2 F-50 FILM		SPA 2 F-100 FILM	
IMAGE									
SYSTEM	Power			20 W		50 W		100 W	
	Technology			Ytterbium CW Fiber Laser					
WAVELENGTH	1.064 nm			Std.					
PULSELENGTH	Continuous Wave			Std.					
MAINS POWER SUPPLY				110 / 240 V AC					
				50 / 60 Hz					
				(1 Phase + N) 450 VA		(1 Phase + N) 650 VA		(1 Phase + N) 770 VA	
COOLING	Air/Water			Air (SE, DE) /Forced Air (WD)					
	Filtered Blower (200m³/h)			Opt. (WD)				-	
	Filtered Blower (350m³/h)			Opt. (WD)					
	TCU			Opt. (WD)					
WARMING	Warming Blower			Opt. (WD)					
FOCAL SPECIFICATIONS FOR UHS LENSES	M. Area	WD	FL	BD	PD	BD	PD	BD	PD
	60x60	126 mm	100 mm	27	3469	27	8672	27	17344
	100x100	201 mm	160 mm	43	1355	-	-	-	-
	107x107	203 mm	162 mm	44	1315	44	3288	44	6576
	160x160	345 mm	254 mm	69	538	69	1344	69	2688
	212x212	446 mm	346 mm	94	289	94	723	94	1446
	242x242	545 mm	420 mm	114	197	114	492	114	983
	325x325	710 mm	570 mm	154	107	154	267	154	534
	560x560	955 mm	820 mm	222	51,6	222	129	222	258
MARKING HEAD	UHS Internal			Std.					
	3D Marking Head			Opt.					
ACCESSORIES MARKING HEAD	Beam Exit at 90°			Std.					
	Focal Distance Indicator			Opt.					
	Marking Area Indicator			Std.					
CONTROL	Touch Screen TSL-V3			Opt. (SE, DE)					
	Touch Screen TSL-V3 IP65			Opt. (WD)					
	PC with Marca Software			Opt.					
SOFTWARE	ScanLinux			Std.					
	MarcaTouch OS 2.00			Opt.					
	Marca Full Graphics PC Softw.			Opt.					
	TCPIP Protocol			Std.					
	Profinet Protocol			Opt.					
	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					
ENVIRONMENTAL CONDITIONS	Operating Temperature			10 °C (50 °F) to 40 °C (104 °F)					
	Humidity			10 % < H < 95 %, non-condensing					
	Vibrations			No vibrations					
	Protection Rate (3 types available)			SE (Standard Environment)					
				DE (Dusty Environment)					
				WD (Wash-Down Environment)					
DIMENSIONS (AxBxC)	Head			108 x 105 x 336 mm (UHS HEAD) / 108 x 105 x 702 mm (3D HEAD)					
	Cabinet			525 x 650 x 202 mm					
WEIGHT	Net Weight			26 kg (UHS HEAD) / 29 kg (3D HEAD)					
	Gross Weight			30 kg (UHS HEAD) / 33 kg (3D HEAD)					

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Macsa id
a code you can trust

SPA2
FIBER FILM

Reliable laser coding for marking
film & flexible packaging

One platform, multiple substrates

Film fiber lasers for coding in the packaging sector. They provide legible markings of the highest quality, which are permanent and sustainable in all production environments.

Different enclosures, several marking substrates such as flexible packaging, laminated and metalized films, and other packaging covered with film, plastic and aluminum 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.

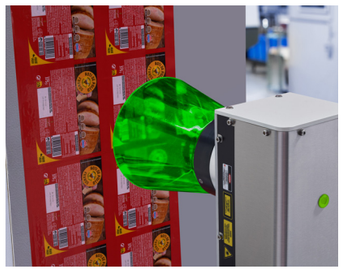
SPA2
SMART PACKAGING APPLICATIONS

SPA2 F FILM

SMART | RELIABLE | FAST

SPA2 Fiber Film lasers are widely used in packaged goods applications including trays, pouches and wraps. They are typically used to code printed films where it is important not to perforate the packaging.

- 10.1-inch touch screen controller with context sensitive HELP and on-line instruction videos.
- DUO dual processor technology enables high-speed and high-quality printing with variable data.
- Protection enclosures are available for dusty (IP54) and washdown (IP65) environments.



SE Standard Environment IP31

F-20 FILM / F-50 FILM / F-100 FILM

DE Dusty Environment IP54

F-20 FILM / F-50 FILM / F-100 FILM

WD Washdown IP55 / IP65

F-20 FILM / F-50 FILM / F-100 FILM

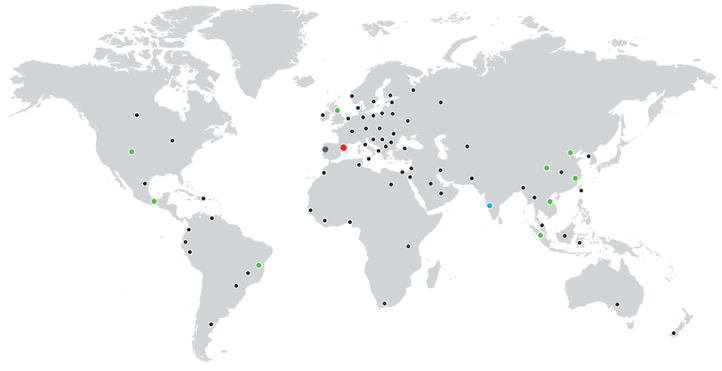
Why Macsa id?

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.

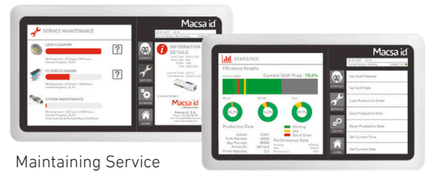
MARCA software®

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.