

TECHNICAL DATA

MODEL	SPA 2 F-20 FILM		SPA 2 F-50 FILM		SPA 2 F-100 FILM					
IMAGE										
SYSTEM	Power Technology		20 W 50 W		100 W 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 Filtered Blower (200m³/h) Filtered Blower (350m³/h) TCU		Air (SE, DE) / Forced Air (WD) Opt. (WD)		Opt. (WD) 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 3D Marking Head		Std. Opt.							
ACCESSORIES MARKING HEAD	Beam Exit at 90° Focal Distance Indicator Marking Area Indicator		Std. Opt. Std.							
CONTROL	Touch Screen TSL-V3 Touch Screen TSL-V3 IP65 PC with Marca Software		Opt. (SE, DE) Opt. (WD) Opt.							
SOFTWARE	ScanLinux MarcaTouch OS 2.00 Marca Full Graphics PC Softw. TCPIP Protocol Profinet Protocol OPC-UA Protocol		Std. Opt. Opt. Std. Opt. Opt.							
SAFETY	Internal Barcode Generator ElectroMechanical Shutter Performance Level d Safety Kit		Opt. Opt. Opt.							
ACCESSORIES			Diode Marking Pointer - Encoder Kit - Mounting Support - Photocell Kit							
ENVIRONMENTAL CONDITIONS	Operating Temperature Humidity Vibrations		10 °C (50 °F) to 40 °C (104 °F) 10 % < H < 95 % , non-condensing No vibrations							
	Protection Rate (3 types available)		SE (Standard Environment) DE (Dusty Environment) WD (Wash-Down Environment)							
DIMENSIONS (AxBxC)	Head Cabinet		108 x 105 x 336 mm (UHS HEAD) / 108 x 105 x 702 mm (3D HEAD) 525 x 650 x 202 mm							
WEIGHT	Net Weight Gross Weight		26 kg (UHS HEAD) / 29 kg (3D HEAD) 30 kg (UHS HEAD) / 33 kg (3D HEAD)							

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 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.



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

CO2

Available from 10 to 450W

PRECISION

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



ADAPTABILITY

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



Fiber

From 20W to 200W

VERSATILITY

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



SIMPLICITY

Videos and support material to facilitate its installation and integration.



Fiber Film

From 20W to 100W

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.



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.



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

SOFTWARE AND SERVICES



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 efficiency 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 ASSISTANCE

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 efficiency of the production lines.



Why Macsa id?

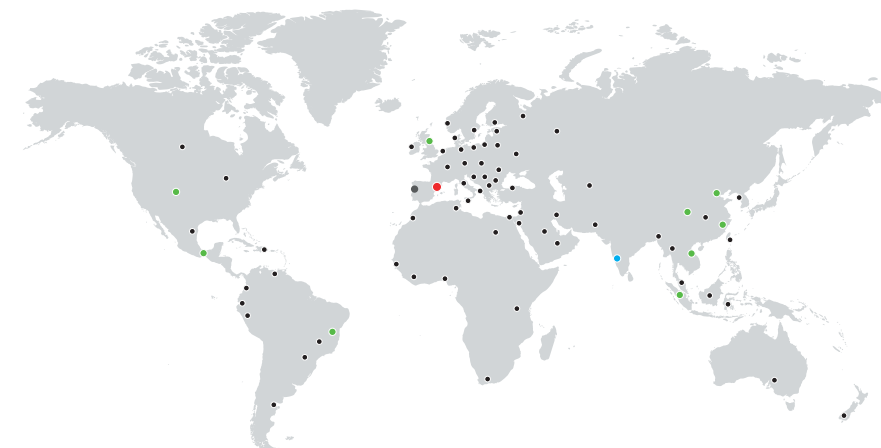
Macsa id is one of the 4 leading companies in the world in coding and marking lasers. It offers the widest range of lasers to code and mark both in the productive sectors (food, beverages, pharmaceutical, healthcare, cosmetics ...) as well as in the industrial ones (industry, automotive, aeronautics,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



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.