TECHNICAL DATA

MODEL				SPA 2 F-2	0 PULSED	SPA 2 F-30 PULSED		SPA 2 F-50 PULSED		SPA 2 F-100 PULSED		SPA 2 F-200 PULSED		
IMAGE														
Power			20 W		30 W		50 W		100 W		200 W			
SYSTEM Technology				Ytterbium Pulsed Fiber Laser										
WAVELENGTH		1.064 nm		Std.										
	Fix	Fixed Pulse lenght			Std.									
PULSELENGTH	MOPA (Selectable Pulse Lenght)		Opt.		Opt.		Opt.		-		-			
MAINS POWER SUPPLY							110 / 240 V AC							
			(1 Phase + N) 500 VA (1 Phase + N) 600 VA				50 / 60 Hz (1 Phase + N) 700 VA (1 Phase + N) 825 VA (1 Phase + N) 950 VA							
COOLING	Air/Water			Air (SE, DE) / Forced Air (WD)										
	Filtered Blower (200m³/h)		Opt. (DE)											
	Filtered Blower (350m³/h)		Opt. (WD)											
	TCU			Opt. (WD)										
WARMING Warming Blower			Opt. (WD)											
FOCAL SPECIFICATIONS FOR XQS LENSES	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	
	60x60	126 mm	100 mm	45	1249	45	1873	45	3122	45	6244	45	12488	
	100x100	201 mm	160 mm	72	488	-	-	-	-	-	-	-	-	
	107x107	203 mm	162 mm	73	474	73	710	73	1184	73	2367	73	4735	
	160x160	345 mm	254 mm	115	194	115	290	115	484	115	968	115	1936	
	212x212	446 mm	346 mm	156	104	156	156	156	260	156	521	156	1041	
	242x242	545 mm	420 mm	190	70,8	190	106	190	177	190	354	190	708	
	325x325	710 mm	570 mm	257	38,5	257	57,7	257	96,2	257	192	257	385	
	560x560	955 mm	820 mm	370	18,6	370	27,9	370	46,5	370	92,9	370	186	
MARKING HEAD	XQS Internal		Std.			td.	Opt.		Opt.		Std. (SE, DE) / Opt. (WD			
	HPD Split			-		-		Std.		Std.		Std. (WD)		
	XS	XS Split WD (IP65)		Opt. Opt. Opt										
MARKING HEAD ACCESSORIES	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 ElectroMechanical Shutter			Opt. Opt.										
SAFETY		ance Level d							pt. pt.					
ACCESSORIES	1 eriorin	ance Level u	Jaiety Mit			Dinde	Marking Point			unnort - Photo	ncell Kit			
-CCESSORIES	Operating Temperature			Diode Marking Pointer - Encoder Kit - Mounting Support - Photocell Kit 10 °C (50 °F) to 40 °C (104 °F)										
ENVIRONMENTAL CONDITIONS	Humidity			10 % < H < 95 %, non-condensing										
		Vibrations			No vibrations									
		The factories			SE (Standard Environment)									
	Protection Rate			DE (Dusty Environment)										
	(3 types available)			WD (Wash-Down Environment)										
	Head			108 x 105 x 506 mm (XQS-UHS HEAD) / 108 x 105 x 702 mm (3D HEAD)										
DIMENSIONS AxBxC	Cabinet			525 x 650 x 202 mm										
	Net Weight			28 kg (XQS-UHS HEAD) / 29 kg (3D HEAD)										
WEIGHT		Gross Weight						(XQS-UHS HEA						

SPA2 FIBER PULSED

Versatility to mark a wide range of plastics and metals









One platform, multiple substrates

Pulsed 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.

Available in different enclosures in order to mark a wide variety of substrates such as plastic and metals 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 FIBER the best solution for metal substrates

PRECISE RELIABLE SMART

SPA2 F pulsed fiber lasers are widely used in packaged goods applications including cans. They are typically used to code metal substrates.

- High-powered lasers enable them to code on the fastest production lines (up to 172,000 cans/hour).
- The XQS high precision printhead ensures clear and legible codes even on curved surfaces.
- DUO dual processor technology enables high-speed and high-quality printing with variable data.
- Extra protection enclosures and touch screen are available for dusty (IP54) and washdown (IP65) environments.



SE Standard Environment IP31 SPA 2F-10 / SPA 2F-20 / SPA 2F-30 / SPA 2F-50 / SPA 2F-100 / SPA 2F-200



DE Dusty Environment IP54 SPA 2F-10 / SPA 2F-20 / SPA 2F-30 / SPA 2F-50 / SPA 2F-100 / SPA 2F-200



WD Washdown IP55 / IP65 SPA 2F-10 / SPA 2F-20 / SPA 2F-30 / SPA 2F-50 / SPA 2F-100 / SPA 2F-200





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

VERSATILITY

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

PRECISION

ADAPTABILITY

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

Macsa Accesories

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

3D printing

SIMPLICITY

Videos and support material to facilitate its installation and integration.

MARCA software®

Fiber Film

From 20W to 100W

DPSS

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

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

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.





SOFTWARE AND SERVICES





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

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.





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.

For a cleaner and healthier workspace.

ENERGY EFFICIENT

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