MODEL	SPA2 C-10		SPA2 C-30		SPA2 C-40					
MODEL				SFAZ	2 0-10	JIAZ	2 0-30	SFA	2 0-40	
IMAGE										
SYSTEM	M Power Technology				10 W 30 W CO2 Sealed Tube CW			40 W		
				RF Technology						
WAVELENGTH	10,6 microns for BIO materials  10,2 microns for FILM materials			Std						
	9,3 microns for PET bottles			Opt.				JL.		
				110 / 240 V AC						
MAINS POWER SUPPLY				50 / 60 Hz				/4 DI	NI (OO) (A	
COOLING	Air/Water			(1 Phase + N) 300 VA (1 Phase + N) 600 VA Air (SE/DE), Forced Air (WD)				(1 Phase + N) 600 VA Forced Air		
	Filtered Blower (200m3/h)			Opt. (DE, WD)					Opt.	
	Filte	red Blower (350n	n3/h)	Opt. (DE, WD)				(	Opt.	
333EII13	Cooling Dryer  Vortex			Opt. (WD)					Opt.	
	TCU			Opt. (WD) Opt. (DE, WD)				Opt.		
WARMING	Warming Blower			Opt. (DE, WD)				Opt.		
FOCAL	M. Area	WD	FL	BD [µm]	PD [kW/cm²]	BD [µm]	PD [kW/cm <sup>2</sup> ]	BD [µm]	PD [kW/cm <sup>2</sup> ]	
SPECIFICATIONS FOR LENSES	40x40	60 mm	65 mm 95 mm	301	14,1	421	21,5	421	28,7	
without BE for XQS Head	60x60 75x75	95 mm 115 mm	125 mm	441 583	6,6	617 816	10,0 5,7	617 816	13,4 7,7	
	100x100	165 mm	160 mm	743	2,3	1040	3,5	1040	4,7	
FOCAL SPECIFICATIONS FOR LENSES with BE for XQS Head	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	
	40x40	60 mm	65 mm	150	56,3	168	135	168	180	
	60x60 75x75	95 mm 115 mm	95 mm 125 mm	220 291	26,2 15,0	247 326	62,8 35,9	247 326	83,7 47,9	
	100x100	165 mm	160 mm	372	9,2	416	22,1	416	29,4	
	150x150	235 mm	240 mm	555	4,1	622	9,9	622	13,2	
AGS Head	200x200	320 mm	320 mm	743	2,3	833	5,5	833	7,3	
	250x250 500x500	430 mm 700 mm	410 mm 720 mm	950 1670	1,4 0,5	1064 1871	3,4 1,1	1064 1871	4,5 1,5	
FOCAL SPECIFICATIONS FOR LENSES with BE for HPD Head	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	
	40x40	55 mm	65 mm	-	-	105	344	105	458	
	60x60	85 mm	95 mm	-	-	154	161	154	215	
	100x100 150x150	150 mm 230 mm	150 mm 230 mm	-	-	242 373	65,4 27,4	242 373	87,2 36,5	
	200x200	310 mm	300 mm	-	-	486	16,1	486	21,5	
	250x250	400 mm	400 mm	-	-	651	9,0	651	12,0	
	320x320	435 mm	450 mm	-	-	729	7,2	729	9,6	
MARKING HEAD	500x500	700 mm XQS Internal	715 mm	-	-	1160	2,8 Std.	1160	3,8	
	XQS Split				-	Opt. (	Opt. (SE, DE)		-	
	HPD Split			-		Opt. (SE, DE)		-		
	XQS Split WD (IP65) HPD Split WD (IP65)			Opt. (WD) Opt. Opt.			-		Opt. Opt.	
	Beam Exit at 0°			Opt.						
ACCESSORIES MARKING HEAD	Beam Exit at 90°			Std.						
	Split Elbow			- Opt. Opt.				Opt.		
	Focal Distance Indicator  Marking Area Indicator						)pt.			
	Touch Screen TSL-V3				Opt. (9	SE, DE)		-		
CONTROL	Touch Screen TSL-V3 IP65			Opt. (WD)				Opt.		
	PC with Marca Software ScanLinux			Opt. Opt.						
SOFTWARE	MarcaTouch OS 2.00			Std.						
	Marca Full Graphics PC Softw.			Std.						
	TCPIP Protocol			Opt.						
	Profinet Protocol  OPC-UA Protocol			Opt. Opt.						
	Internal Barcode Generator			Opt.						
SAFETY	ElectroMechanical Shutter					С	pt.			
	Perfor	mance Level d Sa	fety Kit	Opt.						
ACCESSORIES	Operating Temperature			Diode Marking Pointer - Encoder Kit - Mounting Support - Photocell Kit 5 °C (50 °F) to 40 °C (104 °F)						
ENVIRONMENTAL CONDITIONS	Humidity				< 95 %, non-condensing					
	Vibrations			No vibrations						
	Protection Rate (3 types available)				SE (Standard Environment)				-	
				DE (Dusty Environment)  WD (Washdown Environment)				-		
DIMENSIONS (* 5 C)	SE&DE (Sta	SE&DE (Standard & Dusty Environment)			146 x 196 x 732 mm 176 x 216 x 750 mm				-	
DIMENSIONS (AxBxC)	WD (Wash-Down Environment)			168 x 220 x 710 mm 189 x 241			x 740 mm			
WEIGHT	Net Weight							kg		
	Gross Weight			20	20 kg 28 kg					

Macsa ID Portugal Tel: +351 229962204

Macsa Coding Technology (China) Co, Ltd Tel: +86 0755-23611591



Macsa ID Malaysia Tel: +60 355251608



C-10W | C-30W | C-40W

Reliable laser coding in standard, dusty and washdown environments







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.



Macsa ID Headquarters Tel: +34 938 738 798

Macsa ID UK

Tel: +44 (0)1462 816091

# SPA2 C ideal for packaged goods

RELIABLE

SPA2 C 10W, 30W and 40W CO2 lasers are widely used in packaged goods applications including labels, 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.
- DUO dual processor technology enables high-speed and high-quality printing with variable data.
- Minimises power consumption choosing the most appropriate flow rate.
- 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-10W / C-30W



**DE** Dusty Environment IP54 C-10W / C-30W



WD Washdown IP65 C-10W / C-30W / C-40W





# 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

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

**PRECISION** 

#### **ADAPTABILITY**

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

Macsa Accesories

#### VERSATILITY

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

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.