TECHNICAL DATA

MODEL				SPA 2 D	-6 DPSS	SPA 2 D-	10 DPSS	SPA 2 D-	-20 DPSS	SPA 2 D	-5 GREEN	SPA 2 D-	10 GREEN	SPA 2 D-1,	5 GREEN PS	SPA 2 D-4	GREEN PS	SPA 2	D-5 UV	SPA 2	2 D-15 UV	
IMAGE																						
SYSTEM	Power			6 W 10 W 20 W					5	W	10) W	1,5 W 4 W				5 W 15 W					
0.012.0	Technology			Compact Q-Switched DPSS laser Nd:YVO4						Compact	Q-Switched	d DPSS lase	er Nd:YVO ₄	DPSS PS				Compact Q-Switched DPSS_UV Nd:YVO ₄				
WAVELENGTH		nanometers		1.064 nm						532 nm								355 nm				
PULSELENGTH	nanoseconds				3 to 80 ns						2 to 10 ns 0,7 to 3 ns								< 18 ns			
MAINS POWER SUPPLY			100 / 240 V AC						100 / 240 V AC								100 / 240 V AC					
			50 / 60 Hz						50 / 60 Hz								50 / 60 Hz					
				(1 Phase + N) 450 VA (1 Phase + N) 500 VA (1 Phase + N) 500 VA						(1 Phase + N) 450 VA (1 Phase + N) 600 VA (1 Phase + N) 350 VA								(1 Phase + N) 700 VA				
COOLING	Air/Water		Air (SE) / Forced Air (DE)						Air								Forced Air (WD) Water			/ater		
	Filtered Blower (200m ³ /h)			Opt. (DE)						Opt.											-	
	Filtered Blower (350m ³ /h)			Opt. (DE)						Opt.								-			-	
	TCU			Opt. (DE)					Opt.							-			-			
	M. Area	Chiller WD	FL	BD	PD	BD	- PD	BD	PD	BD	PD	BD	PD	- BD	PD	BD	PD	BD	- PD	BD 10	PD	
	M. Area 20x20	95 mm	FL 56 mm	BU	- F.D	DU		BD	1 20	BU		BU	1 20	BU	- FU		1 20	8D 7	13973	вD 7	41919	
FOCAL SPECIFICATIONS FOR LENSES without BE for XQS Head	60x60	126 mm	100 mm	25	1184	34	1110	34	2220	23	1226	30	1380	23	368	23	981					
	65x65	133 mm	103 mm	_	_	_	_	_	_	_	_	_	_	_	_	_	_	12	4146	12	12439	
	100x100	201 mm	160 mm	41	463	54	434	54	867	25	987	34	1110	25	296	25	789	_	_	_	_	
	105x105	220 mm	170 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	1516	20	4549	
	160x160	345 mm	254 mm	65	184	86	172	86	344	37	456	50	513	37	137	37	365	-	-	-	-	
	175x175	347 mm	254 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	679	31	2036	
	195x195 212x212	440 mm 446 mm	330 mm 346 mm	- 88	- 98,7	- 117	92,6	- 117	- 185	- 41	385	- 54	434	- 41	- 116	- 41	308	40	403	40	1208	
	242x242	545 mm	420 mm	107	67,1	142	62,9	142	126	41	360	56	405	41	108	41	288	-	-	-	-	
	290x290	540 mm	470 mm	107	07,1	142	02,7	142	120	42	500	30	405	42	100	42	200	57	198	- 57	595	
	325x325	710 mm	570 mm	145	36,5	193	34,2	193	68,4	60	176	80	198	60	52,7	60	141	_	_	_	_	
	560x560	955 mm	820 mm	208	17,6	278	16,5	278	33,0	84	91,2	111	103	84	27,4	84	73,0	_	_	_	_	
MARKING HEAD		XQS Internal				S	td.						S	td.					S	td.		
	Beam Exit at 0°			Opt.						-								Std.				
MARKING HEAD ACCESSORIES	Beam Exit at 90°			Opt.						Std.								Std.				
	Focal Distance Indicator Marking Area Indicator			Std. Opt.						Opt. Std.								Opt. Std.				
	Touch Screen TSL-V3			Opt.						Opt.								Opt.				
CONTROL	PC with Marca Software			Opt.						Opt.								Opt.				
SOFTWARE	ScanLinux			Opt.						Opt.								Opt.				
	MarcaTouch OS 2.00			Std.						Std.								Std.				
	Marca Full Graphics PC Softw.			Std.						Std.								Std.				
	TCPIP Protocol			Opt.						Opt. Opt.								Opt.				
	Profinet Protocol OPC-UA Protocol			Opt. Opt.						Opt.								Opt. Opt.				
	Internal Barcode Generator			Opt.						Opt.								Opt.				
	ElectroMechanical Shutter			Opt.						Opt.								Opt.				
SAFETY	Performance Level d Safety Kit			Opt.						Opt.								Opt.				
ACCESSORIES				Diode Mark	king Pointer	- Encoder		ng Support	- Photocell		Diode Marki	ng Pointer -	- Encoder K		g Support -	Photocell k	Kit	Diode Mar	king Pointer - Support - F	Encoder k	Kit - Mounting	
ENVIRONMENTAL CONDITIONS	Operating Temperature			15 °C (50 °F) to 40 °C (104 °F)							15 °C (50 °F) to 40 °C (104 °F)								15 °C (50 °F) to 40 °C (104 °F)			
	Humidity			< 95 %, non-condensing						< 95 %, non-condensing								< 95 %, non-condensing				
	Vibrations			No vibrations						No vibrations								No vibrations				
	Protection Rate			SE (Standard Environment)						SE (Standard Environment)								SE (Standard Environment)				
				DE (Dusty Environment)						-								WD (Washdown Environment)				
DIMENSIONS AxBxC	Head			196 x 146 x 563 mm							196 x 146 x 563 mm								196 x 146 x 662 mm			
	Cabinet Net Weight			200 x 650 x 525 mm 28 kg							200 x 650 x 525 mm 28 kg								200 x 650 x 525 mm 18 kg			
WEIGHT		30 kg							20 Kỹ							18 kg 20 kg						

SPA2 D **GREEN** | UV

High quality marking for plastics and delicate substrates



One platform, multiple substrates

in all production environments.

Available in dfferent enclosures in order to mark plastics, delicate substrates and for laser coating ablation in the FMCG markets.

PRODUCT BROCHURE

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.

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www.macsa.com





SPA2 D **GREEN** | UV

SMART | RELIABLE | CUTTING-EDGE

SPA2 D diode pumped solid state lasers are widely used in packaged goods applications including bottles, tubs and liquid dispensers. They are typically used to code plastic substrates (excluding PET and PVC).

- UV and Green wavelength options enable challenging substrates to be coded and for marking plastics with minimal thermal impacts.
- Ideal for marking delicate substrates and for laser coating ablation.
- 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.
- Protection enclosure is available for washdown (IP65) environments.



SE Standard Environment SPA 2 D DPSS / SPA 2 D GREEN / SPA 2 UV



DE Dusty Environment SPA 2 D DPSS



WD Washdown IP55 / IP65 SPA 2 UV

SPA2 (

ICON

SPA2



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



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

Videos and support material to facilitate its installation and integration.

Macsa Accesories

MARCA software®

SOFTWARE AND SERVICES



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.







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.





Maintaining Service

Equipment performance

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.



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.