

SPA F Pulsed

FIBER PULSED LASER

Versatility to mark a wide range of plastics and metals











SPA F Pulsed by MACSA

Modular. Better. Complete

SPA F Pulsed

SPA F Pulsed is a Fiber Laser specialized in coding and marking over a wide variety of materials such as films, plastics and metals and other industrial products

High speed

SPA F Pulsed codes and marks information at a very high speed maintaining and excellent definition, without interruptions even in the most hostile conditions.

Excellent quality marking

SPA F Pulsed has been designed either for marking in metal, plastic and other materials in industrial sectors where an excellent quality marking is required.

Enviromentally friendly

Laser technology is environmentaly friendly as it allows to reduce the costs of consumables, avoids generation of harmful emissions and the consumption of energy is minimum.





SPA is much more than a laser system

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



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



Reliability. In adverse production environments thanks to IP54 guidelines.

Connectivity. Several softwares which enable it to be operated remotely as well as directly.



Simplicity. Videos and help material to facilitate its installation and integration.



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

Macsa 4.0 solutions and equipment

PRODUCTS SERVICES DATA Management and control Remote support Performance control of the line production



The modular software to control, manage and optimize the production line.

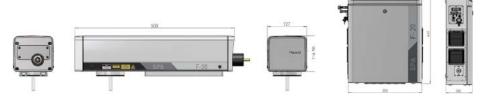


Equipment performance





SPA F Pulsed



					SPA	F-10/F-20	/F-30/F-5	0 Pulsed					
	MODE	_		PULSED									
POWER				1	0W	2		30W			50W		
WAVELENGTH				1.062 µm									
LASER SYSTEM				F -10	PULSED	F -20 I	PULSED	F -30 PULSED			F -50 PULSED		
MAINS SUPPLY				100V - 240V 50 / 60 Hz (1 Phase + N) 400 VA		100V - 240V 50 / 60 Hz (1 Phase + N) 500 VA		100V - 240V 50 / 60 Hz (1 Phase + N) 600 VA			100V - 240V 50 / 60 Hz (1 Phase + N) 700 VA		
												700 VA	
DIM	DIMENSIONS				127x114,50x508 mm								
Cabinet				182x642x505 mm							182x642x505 mm		
WEIGHT				Net weight: 26Kg - Gross Weight: 30Kg									
	SYSTE	М			or and collimato rivers of the dig								ег
TECHNOLOGY			PULSED					PULSED UHS					
FOCAL SPECIFIC.	TECHNOLOGY		F-	10	20	30	50	F-	10	20	30	50	
	MA (mm)	WD (mm)	FL (mm)	BD (µm)	PD (KW/	PD (KW/	PD (KW/	PD (KW/ cm²)	BD (µm)	PD (KW/	PD (KW/	PD (KW/ cm²)	PD (KW/ cm²)
	55x55	141	100	16	cm²) 9709	cm²) 19417	cm²) 29126	48542	27	cm²) 3482	cm²) 6964	10446	17409
	100x100	205	163	26	3654	7308	10962	18270	44	1327	2653	3980	6634
	168x168	347	254	41	1505	3009	4514	7524	69	540	1079	1619	2698
	212x212	458	346	56	811	1622	2433	4054	94	291	582	873	1454
	242x242	554	420	68	551	1101	1652	2752	74	271	302	0/3	1454
									_	-	-	-	-
	560x560	889	815	132	146	292	438	731					_
	LEGEND			WD:Working Distance FL:Focal Length MA:Marking Area BD:Spot Beam Diameter PD:Power Density									
	IMPORTANT NOTE			· Working Distance (WD): The distance between the laser system base and the surface to be marked.									
				Focal Length (FL): The distance between the center of the lens and the surface to be marked. Approximate values: These values are an approximation, and they are different for each laser system, due to the different optical paths.									
	SOFTWA	RE		ScanLinux V5.2.7 and later. Marca Software V5.6.9 and later. Internal Barcode. Marca Lite Software.									
USER INTERFACE				Touch Screen. Hand Held Terminal. PC.									
CONTROLLED BY				 Hand Held Terminal with ScanLinux software. Touch Screen with ScanLinux software. Full Graphics Interface: includes Marca™ software, dongle and Ethernet cable (TCP / IP). Marca Lite Software: includes Marca™ software, dongle and Ethernet cable (TCP / IP). 									
ACCESSORIES				Handheld Terminal-Touch Screen Terminal - Beam pointer - Encoder Kit - Photocell Kit - Alarm Kit - Fume Extractor - Mounting support - Mounting Bracket U-ARM - Marking paper - Protection goggles - Air Cooling Kit									
E	NVIRONME CONDITIO			+15°C (59°F) at 40°C (104°F) external temperature with 50% Duty Cycle or 36°C(100°F) external temperature with 100% Duty Cycle. Humidity between 10% and 95%, without condensation. No vibrations.									





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