



LASERS FOR PACKAGING MARKETS



QUICK GUIDE by **Bradma Macsa**

LASERS FOR PACKAGING MARKETS Quick Guide



ICON 2
The specialist in small character laser coding



SPA C
CO2 modular laser specialized in coding quickly and more reliable



SPA IP65
Reliability in wash down and other wet and dusty environments

CO2

SYSTEM	System Type	iCON 2		Series K DUO									Series SPA - C								HPD DUO								
		ICON 2 10W	ICON 2 30W	SP		PLUS		UHS			KIP65	IP54		BE IP54		UHS IP54	IP65 (CIP)		HPD-30	HPD-60	HPD-80	HPD-100	HPD-400						
COOLING	Power	10W	30W	10W	30W	10W	30W	30W	60W	80W	100W	80W	10W	30W	10W	30W	30W	10W	30W	30W	60W	80W	100W	400W					
	Air/Water	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	-	-	Air	Air	Air	Water	Water					
	Power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3KW	9KW					
	Filtered Blower (200m3/h)	-	-	-	-	-	-	-	-	-	-	-	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	-	-	-					
	Power	-	-	-	-	-	-	-	-	-	-	-	135W	135W	135W	135W	135W	135W	135W	135W	135W	135W	-	-					
	Filtered Blower (350m3/h)	-	-	-	-	-	-	-	-	-	-	-	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	Filtered Blower	-	-	-					
	Power	-	-	-	-	-	-	-	-	-	-	-	460W	460W	460W	460W	460W	460W	460W	460W	460W	-	-	-					
	Cooling Blower	-	-	-	-	-	-	-	-	-	-	-	Cooling Blower	Cooling Blower	Cooling Blower	Cooling Blower	Cooling Blower	Cooling Blower	Cooling Blower	Cooling Blower	Cooling Blower	-	-	-					
	Power	-	-	-	-	-	-	-	-	-	-	-	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	-	-	-					
	Vortex	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Vortex (Comp.Air)	Vortex (Comp.Air)	-	-	-					
	Power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,5bar 400lpm	2,5bar 600lpm	-	-	-					
	Cooling Dryer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cooling Dryer	Cooling Dryer	-	-	-					
	Power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,5bar 200lpm	2,5bar 300lpm	-	-	-					
TE Cooling Blower	-	-	-	-	-	-	-	-	-	-	-	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	TE Cooling Blower	-	-						
Power	-	-	-	-	-	-	-	-	-	-	-	800W	800W	800W	800W	800W	800W	800W	800W	800W	800W	-	-						
Warming Blower	-	-	-	-	-	-	-	-	-	-	-	Warming Blower	Warming Blower	Warming Blower	Warming Blower	Warming Blower	Warming Blower	Warming Blower	Warming Blower	Warming Blower	Warming Blower	-	-						
Power	-	-	-	-	-	-	-	-	-	-	-	500W	500W	500W	500W	500W	500W	500W	500W	500W	500W	-	-						
LENSES <small>(This values are an approximation, and they are different for each laser system, due to the different optical paths)</small>	mm	mm	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD					
	35x35	WD 95	FL 100	324	24	324	73																						
	40x40	WD 55	FL 65	-	-	-	-	301	28,1	301	84	150	112,6	150	338														
	60x60	WD 85	FL 95	-	-	385	17	385	52	192	69	192	207	256	116	256	232	256	310	256	387	256	310	385	17	385	52		
	75x75	WD 115	FL 125	-	-	506	10	506	30	253	40	253	119	337	67	337	134	337	179	337	224	337	179	506	10	506	30		
	100x100	WD 150	FL 160	-	-	648	6	648	18	324	24	324	73	432	41	432	82	432	109	432	137	432	109	648	6	648	18		
	150x150	WD 230	FL 240	-	-	-	-	-	-	486	11	486	32	648	18	648	36	648	49	648	61	648	49	-	-	486	11	486	32
	200x200	WD 310	FL 320	-	-	-	-	-	-	648	6	648	18	864	10	864	21	864	27	864	34	864	27	-	-	648	6	648	18
	250x250	WD 400	FL 410	-	-	-	-	-	-	830	4	830	11	1107	6	1107	13	1107	17	1107	21	1107	17	-	-	830	4	830	11
500x500	WD 710	FL 720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MARKING HEAD	Beam Expander	-	-	Opt.	Opt.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Opt.	Opt.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.					
	Beam Exit at 0°	-	-	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.					
	Beam Exit at 90°	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.					
	focal distance indicator	-	-	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.				
	Marking area indicator	-	-	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.				
CONTROL	by Hand Held Terminal	-	-	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
	by Touch Screen	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
	by External PC	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
SOFTWARE	Crystal font	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.					
	MARCA LITE	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
	Marca Full Graphics Interface	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
	Internal Barcode Generator	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
SAFETY	Electro Mechanical Shutter	-	-	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.					
	10,6 microns	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.					
	10,2 microns	-	-	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					
OPTIONS	9,3 microns	-	-	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.					

Specifications subject to change without notice

Opt. Optional
 Std. Standard
 FL Focal Length in mm
 WD Working Distance in mm

BD Spot Beam Diameter in microns
 PD Power Density in KW/cm2

3D printing option available under request
 19" rack option available under request
 Split scan head option available under request





SPA F

Fiber modular laser specialized in marking a wide range of films, plastics and metals

FIBER

Series SPA - F

SYSTEM	System Type	PULSED				PULSED UHS				FILM UHS													
		SPA-F10	SPA-F20	SPA-F30	SPA-F50	SPA-F10 UHS	SPA-F20 UHS	SPA-F30 UHS	SPA-F50 UHS	SPA-F10 Film UHS	SPA-F20 Film UHS	SPA-F50 Film UHS											
	Power	10W	20W	30W	50W	10W	20W	30W	50W	10W	20W	50W											
	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air	Air											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	Filtered Blower (200m3/h)	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	Filtered Blower (350m3/h)	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	Cooling Blower	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	Vortex	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	Cooling Dryer	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	TE Cooling Blower	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
	Warming Blower	-	-	-	-	-	-	-	-	-	-	-											
	Power	-	-	-	-	-	-	-	-	-	-	-											
LENSES (This values are an approximation, and they are different for each laser system, due to the different optical paths)	mm mm mm	mm	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD		
	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	FL100 WD141 55x55	16	9709	16	19417	16	29126	16	48542	27	3482	27	6964	27	10446	27	17409	27	3482	27	6964	27	17409
	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	FL163 WD205 100x100	26	3654	26	7308	26	10962	26	18270	44	1327	44	2653	44	3980	44	6634	44	1327	44	2653	44	6634
	FL254 WD347 168x168	41	1505	41	3009	41	4514	41	7524	69	540	69	1079	69	1619	69	2698	69	540	69	1079	69	2698
	FL346 WD458 212x212	56	811	56	1622	56	2433	56	4054	94	291	94	582	94	873	94	1454	94	291	94	582	94	1454
	FL420 WD554 242x242	68	551	68	1101	68	1652	68	2752	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FL815 WD889 560x560	132	146	132	292	132	438	132	731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MARKING HEAD	Beam Expander	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	
	Beam Exit at 0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Beam Exit at 90°	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	
	focal distance indicator	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
Marking area indicator	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	
CONTROL	by Hand Held Terminal	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	by Touch Screen	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	by External PC	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
SOFTWARE	Crystal font	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	
	MARCA LITE	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Marca Full Graphics Interface	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
	Internal Barcode Generator	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	
SAFETY	Electro Mechanical Shutter	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	

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