

ABX C SERIES

DATASHEET



AB2 C SERIES

CO2

ABX C

Standard Environment

Wash Down Environment



SYSTEM	Power			10 W		40 W		60 W		10 W		40 W		60 W	
	Release Date			Available		Available		Available		April-25		April-25		April-25	
	Technology			CO2 Sealed Tube CW											
	Dimensions (mm)			196x146x730		216x176x668		laser head: 214x176x864 control cabinet: 525x200x650		220x166x710		241x189x743		350x242x1079	
WAVELENGTH	CO ₂ 10,6 microns for BIO materials			Std.		Std.		10.600nm (10,6μ)		Std.		Std.		Std.	
	CO ₂ 10,2 microns for FILM materials			-		Opt.		10.200nm (10,2μ)		-		Opt.		Opt.	
	CO ₂ 9,3 microns for PET bottles			Opt.		Opt.		9.300nm (9,3μ)		Opt.		Opt.		Opt.	
MARKING HEAD ACCESSORIES	Standard Lenses			60x60											
	Beam Expander			Opt.											
	Beam Exit at 0°			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	Beam Exit at 90°			Std.		Std.		Std.		Std.		Std.		Std.	
LENSES LCX CO2 without BE	Marking Area Indicator			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD
	70x70	90	100	463	6	736	9	810	12	463	6	736	9	810	12
	110x110	133	150	694	3	1104	4	1215	5	694	3	1104	4	1215	5
LENSES LCX CO2 with BE	M. Area	WD	FL	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD	BD	PD
	70x70	90	100	231	24	294	59	324	73	231	24	294	59	324	73
	110x110	133	150	347	11	442	26	486	32	347	11	442	26	486	32
	140x140	185	200	463	6	589	15	648	18	463	6	589	15	648	18
	175x175	229,3	240	555	4	707	10	777	13	555	4	707	10	777	13
	210x210	287	300	694	3	883	7	972	8	694	3	883	7	972	8
CONTROL	250x250	338,5	350	810	2	1031	5	1134	6	810	2	1031	5	1134	6
	Touch Screen TSL-Light			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	Touch Screen TSL-Light IP65			-		-		-		Opt.		Opt.		Opt.	
	Touch Screen TSL - LCX (3Q 2025)			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	PC with AbMarca Software			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
SOFTWARE & COMMS	ScanLinux			Std.		Std.		Std.		Std.		Std.		Std.	
	AbMarcaTouch OS 2.00			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	AbMarca Full Graphics PC Softw.			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	TCPIP Protocol			Std.		Std.		Std.		Std.		Std.		Std.	
	Profinet Protocol			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	Ethernet/IP Protocol			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	OPC-UA Protocol			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
COOLING	Internal Barcode Generator			Opt.		Opt.		Opt.		Opt.		Opt.		Opt.	
	Air/Water			Air		Air		Air		Forced Air		Forced Air		Water	
	Filtered Blower (200m3/h)			-		-		-		Opt.		Opt.		-	
	Filtered Blower (350m3/h)			-		-		-		Opt.		Opt.		-	
	TCU			-		-		-		Opt.		Opt.		-	
COOLING	Chiller			-		-		-		-		-		1000W	

* **MA:** Marking Area | **FL:** Focal Length (The distance between the center of the lens and the surface to be marked.)

WD: Working Distance (The distance between the laser system base and the surface to be marked.)

BD: Spot Beam Diameter | **PD:** Power Density

These values are an approximation, and they are different for each laser system, due to the different optical paths.

Specifications subject to change.

