

# SB300 FIMS Compatible FOSB

*Secure 300 mm wafer shipment  
in an automated FOSB*

As 300 mm moves into more advanced process nodes, particle protection requirements become more stringent, making automation more important than ever. The SB300 was the first FOSB to be FIMS compatible, and we've continued improving upon its original technology-leading design ever since. Entegris' long history of automation excellence continues with the SB300 FOSB.

In addition to FIMS compatibility, the SB300 FOSB has molded-in wafer supports that sets itself apart from the competition with precise and permanent wafer plane positioning for the entire life of the FOSB. These fixed wafer planes reduce the need to replace side columns, which are difficult to clean, besides being dimensionally unstable. This instability can lead to equipment errors on reused competitive FOSBs. Molded-in wafer supports are more easily and efficiently cleaned, creating a better wafer environment while also being more repeatable and reliable through multiple reuse cycles now required by the industry.

## OPTIMUM AUTOMATION PERFORMANCE

The SB300 FOSB incorporates a variety of features that provide reliable automation interfaces and interoperability, such as precise full pitch 10 mm (0.4") wafer spacing, automated FIMS door, top automation flange, conveyor rails and kinematic coupling interfaces.

## MAXIMUM PRODUCTIVITY

Precise wafer planes maximize your wafer transfer throughput, while the dimensionally stable design improves tool and AMHS uptime.



## FEATURES & BENEFITS

<b>Ultrapure polycarbonate housing is dimensionally stable</b>	Low particle generation and outgassing
<b>Molded-in wafer supports</b>	Allow wafer location accuracy over multiple uses and minimize component interfaces, limiting particulation
<b>FIMS automation</b>	Minimizes exposure to human contamination and ambient environments
<b>Protective gasket and filter</b>	High filter flow rate allows external air to pass through as opposed to being forced through gasket
<b>Ergonomic design</b>	Allows multiple ergonomic orientations, optimizing operator handling
<b>Metal-free assembly</b>	No metallic contamination

SPECIFICATIONS

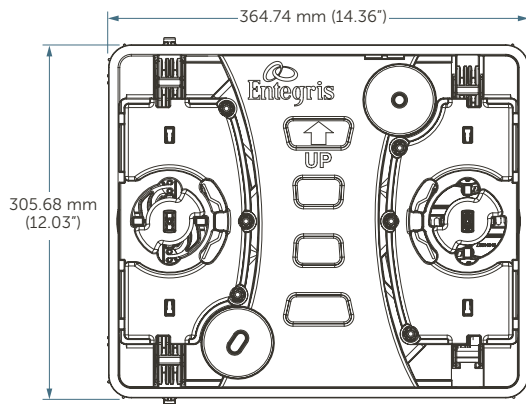
Materials	Wafer contact	Shell, door, door cushion	Polycarbonate
		Rear retainer	Polybutylene terephthalate
	Exterior	Handles, auto flange, info pads	Polycarbonate
		Gasket	Thermoplastic elastomer
		KC Plate	Polycarbonate
Capacity	25 wafers		
Dimensions	Depth	332.77 mm $\pm$ 0.1 mm (13.10" $\pm$ 0.005")	
	Width	389.52 mm $\pm$ 0.1 mm (15.33" $\pm$ 0.005")	
	Height	336.93 mm $\pm$ 0.1 mm (13.26" $\pm$ 0.005")	
2-pack secondary packaging dimensions	Length	680 mm (26.77")	
	Width	415 mm (16.34")	
	Height	365 mm (14.37")	
Weight	Empty	4.6 kg (10.1 lb)	
	Full	7.8 kg (17.2 lb)	
Wafer	Size	300 mm	
	Pitch	10.0 mm (0.39")	
	Planes	$\pm$ 0.5 mm (0.02") from nominal	

CONFIGURATION OPTIONS AND ACCESSORIES

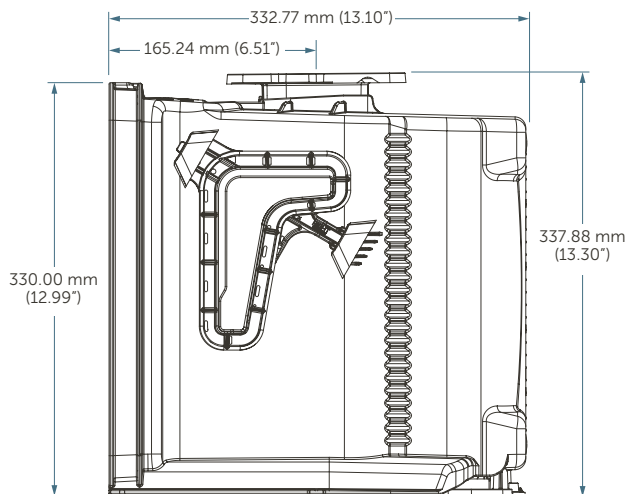
Color	Door panels	Green, orange, red, white, or gray		
Identification	Standard	Barcode	Molded-in barcode on each door and shell	
	Options	RFID pill	32 mm (1.26") glass transponder TI PN RI-TRP-RR2B	
			Horizontal orientation	Attaches to KC plate (additional holder not required)
			Vertical orientation	Attaches to RFID holder (either card or label holder)
		Label surface	Flat label surface holder/RFID available	
		Card holder	Card holder surface holder/RFID available	
		Info pads	4 positions available on KC plate, snap in place	
	Optional parts	Handles	90° design	
30° design				
Top automation flange				

## DIMENSIONS

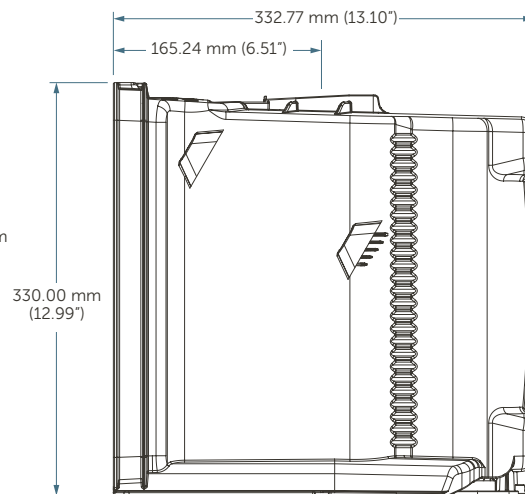
Front View



Side View With Handle



Side View Without Handle



### FOR MORE INFORMATION

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