

# Spectra™ FOUPs

*Front opening unified pod platform  
with superior microenvironment  
control*

The Spectra™ FOUP holds 300 mm wafers safely and securely while they are transported and transferred within the fab through hundreds of sophisticated process steps. Designed not only to address particles but to also minimize and control VOC, oxygen, and relative humidity (RH), our FOUPs provide superior microenvironment control, optimal automation integration, and low cost of ownership.

Hydrophobic materials of construction with clean carbon loading are designed for low moisture and low volatile absorption and desorption. Generous radii in part design and open wash slots in the FOUP door cover eliminate water or moisture traps, enabling effective cleaning and reducing drying cycle times.

Our Spectra FOUP meets all applicable SEMI® standards. The industry-proven door is designed for equipment interoperability and long life. Wafer supports are integral with the shell to give excellent wafer plane performance and reliable wafer access. The top robotic flange and bottom kenematic coupling ensure accurate equipment interfaces.

These advanced FOUPs create a sealed wafer environment that provides static protection, white-light shielding, and a considerable positive impact on device yield.

## APPLICATIONS

- FOUP platform that provides clean and secure 300 mm transport and handling
- Automation compatibility provides low cost of ownership



*Advanced inert gas diffusion purge further protects wafers*

## FEATURES & BENEFITS

<b>Industry-proven door design</b>	Provides equipment interoperability and long life
<b>Generous radii in part design and open wash slots in the FOUP door cover</b>	Eliminate water or moisture traps, enabling effective cleaning and reducing drying cycle times
<b>Integral wafer supports</b>	Give excellent wafer plane performance and reliable wafer access
<b>ESD shell option</b>	Provides added wafer protection
<b>Optimized hydrophobic materials of construction</b>	Provide wafer contact and microenvironment control
<b>Sealed wafer environment</b>	Provides static protection, white-light shielding, and offers a considerable positive impact on device yield

## SPECIFICATIONS

<b>Dimensions</b>	Width	416 mm (16.4")
	Depth	333 mm (13.1")
	Height	335 mm (13.2")
<b>Weight</b>	Empty	4.2 kg (9.26 lb)
	With wafers	7.3 kg (16.09 lb)
<b>Wafer spacing</b>	10 mm (0.39")	
<b>Capacity</b>	26 wafers	

### Materials Of Construction

- Ultrapure polycarbonate or barrier material used in the FOUP shell, door housing, and door panels
- Carbon-filled PEEK or high-temperature barrier material (XT EBM) used in wafer contact areas in the shell, door housing, and door components
- Thermoplastic elastomer material used in the critical door seal
- Entegris moisture barrier material (EBM) available to enable leading-edge wafer processing technology

### Configuration Options And Accessories

#### Shell and Door Color Options

- Amber, red, green, clear, and black (ESD shell only)

#### Purge Options

- Front/rear standard purge
- Rear advanced diffuser

#### Segregation Options

- Info pads configurable by customer

#### Identification Options

- Bar code and alphanumeric character labels
- Color handle inserts
- Cardholders
- RFID tags with read/write capability

#### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](http://entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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