



M20X SERIES 200 MM PODS

Advanced wafer isolation for 200 mm fabs



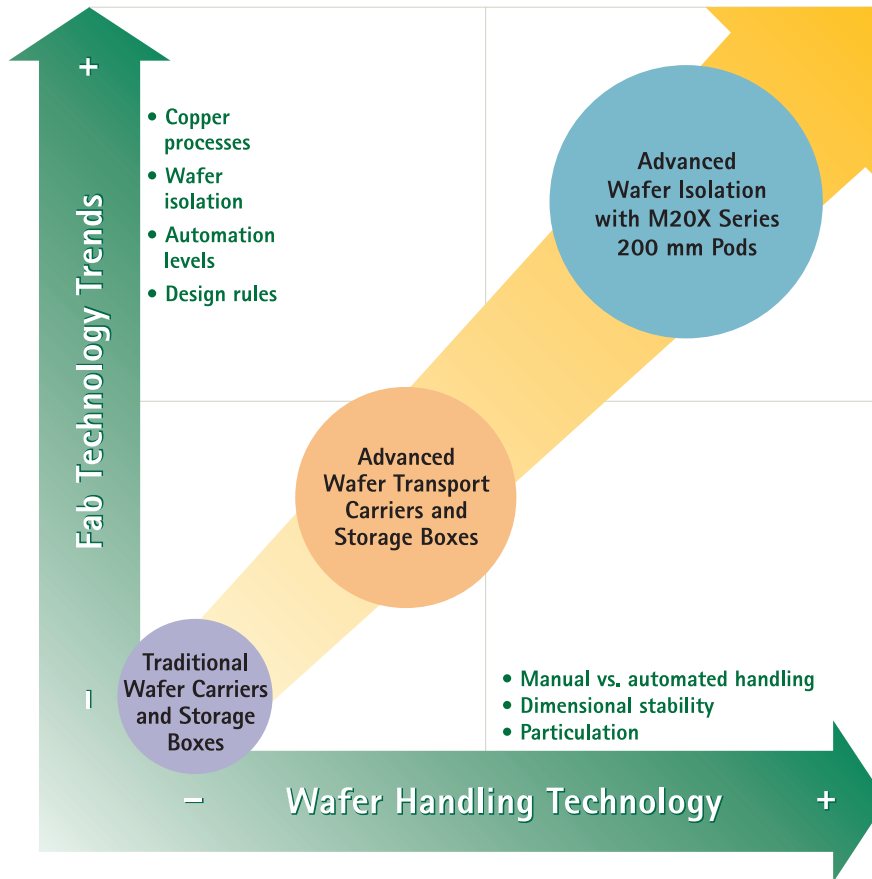
Overview

Trends in wafer processing technology have mandated advancements in wafer handling technology to support today's advanced semiconductor processing facilities. Advanced wafer isolation pods provide wafer isolation, and coupled with advanced wafer transport carriers, offer performance benefits over traditional wafer carriers and storage boxes, including:

- Reliable wafer isolation – in a controlled mini-environment
- Secure wafer protection – from electrostatic discharge, damage and contamination
- Precise equipment operation and wafer access – on process tools and automated materials handling systems

General Specifications

- Accommodate most 25- and 26-capacity 200 mm wafer carriers
 - M200 series for most standard carriers
 - M205 series for wide flange carriers
- Compliant with SEMI® standard E19
- Top automation flange for overhead transport systems
- Side rails for personal guided vehicle and automated guided vehicle transport
- Side handles for manual handling
- Inert gas purge compatible option
- Compatible with multiple ID options
- Cleaned and cleanroom packaged



Configurations

Provided below are the most popular advanced wafer isolation pods. Pods can also be configured to your specific requirements based on the configuration options detailed below. Contact Entegris for more information.

M200 Series

M200 series pods utilize a standard housing that accommodates most 200 mm wafer carriers.

Part Number	Housing	Automation Flange	Side Rails	Manual Handles	Door Receiver	Carrier Wafer Capacity
M200-5016	Clear	No	S style	Side	Standard	25
M200-5028	Clear	Yes	S style	Side	Standard	25
M200-5033	Amber	Yes	S style	Side	Standard	25
M200-5043	Clear	No	C style	Side	Narrow	25
M200-5046	Clear	No	S style	Side	Standard	25
M200-5060	Clear	No	C style	Side	Narrow	26

M205 Series

M205 series pods utilize a larger housing that accommodates wide flange carriers.

Part Number	Housing	Automation Flange	Side Rails	Manual Handles	Door Receiver	Carrier Wafer Capacity
M205-5030	Clear	No	Standard	Top	Narrow	26

Configuration Options

Entegris offers a variety of configuration options to customize your advanced wafer isolation pod, including:

Housing

- M200 series standard housing
- M205 series housing for wide flange carriers
- Both housings available in clear or amber

Automation Flange

- Available with or without top automation flange
- Multiple configurations available

Side Rails

M200

- None
- S-side rails (European)
- C-side rails (Asian)

M205

- None
- Standard

Manual Handles

M200

- With or without ergonomic side handles
- Standard handle color black; other colors available

M205

- With or without ergonomic top handle
- Standard handle color black; other colors available

Inert Gas Purge

- With or without inert gas purge capability
- Standard without inert gas purge capability

Door Receiver

- Standard "H" bar door receiver
- Narrow "H" bar door receiver for 200 series carriers
- Wide "H" bar door receiver (Japan)

Carrier Spring Lock

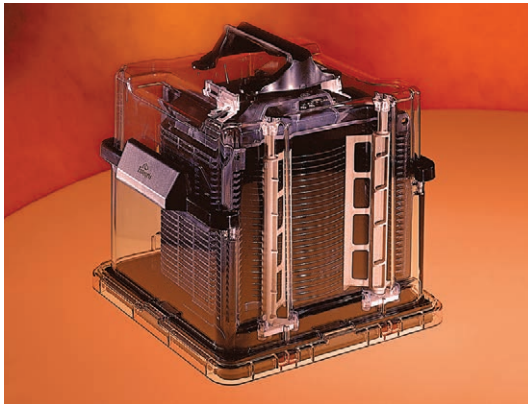
- Spring lock configuration based on wafer carrier used

Identification Options

Entegris offers a variety of options for pod identification, including:

- Color coding of the pod housing and manual handles
- Laser marking
- Bar code labels
- Cardholders
- Electronic ID system holders

Contact Entegris to determine a suitable identification method for your application.



M20X pod featuring the KA198-80MB-47C02 wafer carrier.

Recommended Wafer Carriers

For optimum performance of your advanced wafer isolation pod, Entegris recommends the use of one of the following advanced wafer transport carriers:

- KA202 series
- KA198 series
- KA250 series
- KA200/A200 series

Key Material Specifications

Transparent Polycarbonate

- Low ionic
- Low outgassing
- Excellent clarity
- Used in the pod housing and wafer retainer

Transparent Polycarbonate

- Carbon filled conductive polycarbonate
- Low ionic
- Low outgassing
- Used in the door housing

Transparent Polycarbonate

- Low ionic
- Low outgassing
- Used in the door seal

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the Customer Service link for the center nearest you.

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