# 200 mm Wafer Storage Boxes

## *A variety of storage boxes to meet your 200 mm wafer handling requirements*

Entegris is a leader in addressing automation, contamination control, and productivity requirements for today's 200 mm fabs. Our 200 mm wafer storage boxes offer outstanding protection and provide superior automated and manual handling. Thoughtful contamination control design features minimize particle generation.

Our portfolio comprises HA200 series, E99 series, and E210 series boxes with numerous options available to meet your specific application needs.
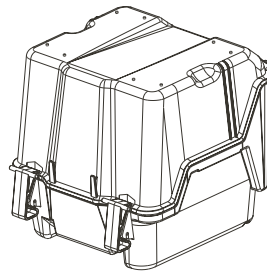
## APPLICATIONS

- In-fab transport
- Process tool interface
- Fab wafer storage

## FEATURES & BENEFITS

| | |
|---|---|
| **Automation compatible design** | Enables convenient process tool interface |
| **Thoughtful design features** | Minimize particle generation from wafer chatter and carrier movement |
| **Numerous material options available** | Provide broad chemical compatibility |
| **Stackable design** | Allows for convenient, space-saving storage |

## HA200 SERIES

HA200 series storage boxes are the highest performance 200 mm storage boxes available, providing superior automated and manual handling. Design features minimize particle generation from wafer chatter and carrier movement.
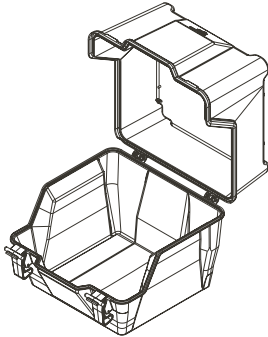
*HA200-0005 box*

- Automation compatible
- Five-degree wafer tilt minimizes wafer chatter
- Single carrier capacity
- Accommodates select 25-capacity carriers, excluding wide-flange carriers
- EMSTAT™ AR base with EMSTAT AR or polycarbonate cover options
- Overall dimensions: 276 mm × 272 mm × 248 mm (10.9" × 10.7" × 9.8")

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## E99 SERIES

E99 series storage boxes are the industry standard, offering maximum stacking density for space limited stockers and work-in-process racks.
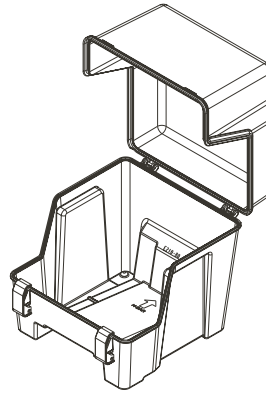


*E99-111N-69F02 box*

- Automation compatible

- Stackable

- Flat bottom

- Single carrier capacity

- Accommodates select 25-capacity wafer carriers, excluding wide-flange carriers

- STAT-PRO® 175 material with polycarbonate cover options

- Migration path compatible with STAT-PRO 100 material

- Overall dimensions: 285 mm × 272 mm × 241 mm (11.2″ × 10.7″ × 9.5″)

## E210 SERIES

E210 series storage boxes provide automation compatibility with wide-flange carriers and allow convenient manual handling. They incorporate features to minimize particle generation from wafer chatter and carrier movement.



*E210-80-1000-69F02 box*

- Automation compatible

- Stackable

- Seven-degree wafer tilt minimizes wafer chatter

- Balanced for easy manual handling

- Track notch registration

- Single carrier capacity

- Accommodates all 25- and 26-capacity wafer carriers

- STAT-PRO 175 material

- Overall dimensions: 302 mm × 272 mm × 292 mm (11.9″ × 10.7″ × 11.5″)

## ORDERING INFORMATION

| Part number | Latch style | Compatible carriers | Travelers compatible | Material | Notes |
|---|---|---|---|---|---|
| E99-111N-69F02 | Swing pin | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: STAT-PRO 175<br>Bottom: STAT-PRO 175<br>Latch: PBT | |
| E99-113N-69F02 | Swing pin | 192/198 series, 20X series and select 200 series* carriers | No | Cover: STAT-PRO 175<br>Bottom: STAT-PRO 175<br>Latch: PBT | |
| E99-114N-PCPP-16 | Swing pin | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: Clear polycarbonate<br>Bottom: STAT-PRO 175<br>Latch: PBT | Red, blue, green and UV filtering amber polycarbonate covers available |
| E99-211N-69F02 | Robotic | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: STAT-PRO 175<br>Bottom: STAT-PRO 175<br>Latch: Gray polycarbonate | |
| E99-213N-69F02 | Robotic | 192/198 series, 20X series and select 200 series* carriers | No | Cover: STAT-PRO 175<br>Bottom: STAT-PRO 175<br>Latch: Gray polycarbonate | |
| E99-214N-PCPP-16 | Robotic | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: Clear polycarbonate<br>Bottom: STAT-PRO 175<br>Latch: Gray polycarbonate | Red, blue, green and UV filtering amber polycarbonate covers available |
| HA200-0002 | Ergonomic | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: EMSTAT AR<br>Bottom: EMSTAT AR<br>Latch: Polycarbonate | Red, green and gray colored cover options are available |
| HA200-0005 | Robotic | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: EMSTAT AR<br>Bottom: EMSTAT AR<br>Latch: Polycarbonate | Red, green and gray colored cover options are available |
| HA200-0063 | Robotic | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: Amber polycarbonate<br>Bottom: EMSTAT AR<br>Latch: Polycarbonate | Red, blue, green and UV filtering amber polycarbonate covers available |
| E210-80-1000-69F02 | Swing pin | All 25-capacity | No | Cover: STAT-PRO 175<br>Bottom: STAT-PRO 175<br>Latch: PBT | |

## ORDERING INFORMATION (CONTINUED)

| Part number | Latch style | Compatible carriers | Travelers compatible | Material | Notes |
|---|---|---|---|---|---|
| E210-80-1000-PCPP | Swing pin | All 25-capacity | No | Cover: Clear polycarbonate<br>Bottom: STAT-PRO 175<br>Latch: PBT | Red, blue, green and UV filtering amber polycarbonate covers available |
| E99-101-0603 | Swing pin | 192/198 series, 20X series and select 200 series* carriers | No | Cover: Blue polypropylene<br>Bottom: Blue polypropylene<br>Latch: PBT | Red, green, yellow, white, natural, brown and orange colors available |
| E99-101-61C02 | Swing pin | 192/198 series, 20X series and select 200 series* carriers | No | Cover: STAT-PRO 100<br>Bottom: STAT-PRO 100<br>Latch: PBT | |
| E99-101-69F02 | Swing pin | 192/198 series, 20X series and select 200 series* carriers | Yes | Cover: STAT-PRO 175<br>Bottom: STAT-PRO 175<br>Latch: PBT | |

*Contact Entegris for ordering information.

## OPTIONS

We offer a variety of options to tailor storage boxes to your specific applications.
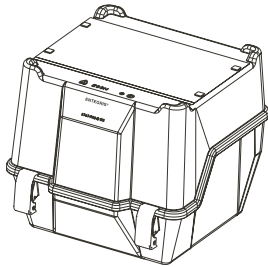
### Colored Box Covers

- Blue, green and gray STAT-PRO 175 and EMSTAT AR material covers available

- Red, blue, green and UV filtering amber polycarbonate covers available

### Identification Options

- Laser marking

- Cardholders: E005-1-XXXX

- Hot stamping

- Colored ID tags

- Bar code labels

### Flexible Traveler Envelopes

- Accommodate 127 mm × 216 mm (5.0" × 8.5") run travelers up to 3.2 mm (0.13") thick

- Compatible with select 200 mm storage boxes (see configurations)

- PVC material

- Part number: E96-1-1613 (for E99)
  TR33-0100-P (for HA200)



*E96-1-1613 on
E99-111N-69F02 storage box*

## MATERIAL SPECIFICATIONS

### STAT-PRO 100

- Wafer transport carrier material

- Static dissipative blend of polypropylene and carbon powder

- Continuous use temperature limit: 55°C (131°F)

### STAT-PRO 175 Material and EMSTAT AR Material

- High-performance storage box material

- Static dissipative blend of polypropylene and carbon fiber

- Colorable in cover applications

- Continuous use temperature limit: 55°C (131°F)

### Polycarbonate

- Transparent storage box cover material

- Colorable (Red, blue, green, and UV filtering amber polycarbonate covers available)

- Continuous use temperature limit: 55°C (131°F)

**FOR MORE INFORMATION**

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

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