

EAGLEi™ 200

Automated Wafer Carrier Inspection System

**RITE
TRACK**

www.ritetrack.com

The EAGLEi 200 is an all new non-contact measurement system designed specifically for wafer cassette inspection, accurate to ± 0.001 inches.

Features

- Automatically verify critical wafer carrier dimensions
- Flexibility to run 2" to 200 mm cassettes, Quartz, and SiC Boats
- 6 sigma repeatable measurements
- Certificate of Compliance report generator
- Fast & easy to operate
- Non-contact measurements
- NEW System with 1 Year Warranty

Benefits

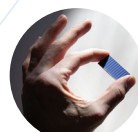
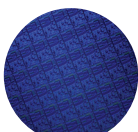
- Increase yields using only in-tolerance carriers
- Quickly identify problem carriers
- Reduce carrier-related downtime
- Improve carrier interoperability
- Carrier size flexibility



System flexibility



ENHANCING TODAY'S TECHNOLOGY ▪ INNOVATION FOR TOMORROW



FEATURES

Accuracy
±0.001 inches [±0.025 mm]

Repeatability
±0.0005 inches [±0.013 mm] 6 Sigma,
using standard calibration tool provided
with system.

Speed
Based on the number of user defined
measurements (typical inspection time
is 45-60 sec.).

Carrier Size
2" to 200 mm Cassettes

Carrier Type
Any carrier manufacturer, and any color
material, including clear. With optional
adapter plate, quartz and SiC boats
measurements are also possible (limited
measurement).

Calibration
Automated calibration using standard
calibration tool. Included with system and
traceable to N.I.S.T. standard

User Interface
Microsoft Windows® 10, color flat panel
screen and trackball. Password protection
allows user to customize system access.

Data Collection
A pass/fail decision is displayed after each
inspection cycle. Measurement data can be
stored to hard drive, USB drive, printed to
a variety of printers, sent over RS232 in
metric or English units.
Measurement data can also be exported
to Excel® or other statistical software as
".txt" files.

Cleanroom Compatibility
Class 10 cleanroom compatible (with
appropriate installation).

Requirements

- 100-240 VAC, 50-60 Hz
- Operating Temperature: 68°-72°F
[20°-22° C]
- Environmental Vibration (max.):
 - 2.0 µm Peak-to-Peak (<7Hz)
 - 0.5 µm Peak-to-Peak (7-150Hz)
 - 1.0 µm Peak-to-Peak (>150Hz)
- Annual Preventive Maintenance
Service

Options

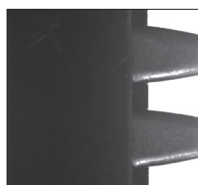
- Adapter Platforms - for measuring quartz
boats, SiC boats, or other parts.
- Bar-code Reader (handheld) - for
automatic carrier ID and data tracking.
- Warranty/Service Contracts - for
expanded system support.

VERIFY CRITICAL CARRIER DIMENSIONS

The EAGLEi 200 is designed specifically for the semiconductor industry to automatically verify critical wafer carrier dimensions. Fabs use the EAGLEi 200 to quickly identify out-of-tolerance carriers through in-coming and in-process inspection. Removing carriers that do not meet specification will improve wafer transfers, maximize equipment availability, and enhance overall yield through a reduction in wafer breakage and particle contamination. Key EAGLEi 200 features include:

- High accuracy and repeatability
- Fast/non-contact inspection
- Simple operation including auto-focus and illumination
- Auto-Train
- Auto-WalkThrough
- Automatic data collection and reporting

Black Wafer Carrier

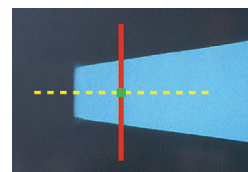
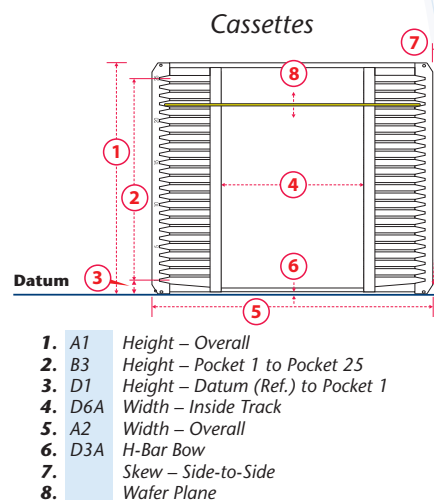


Clear Wafer Carrier



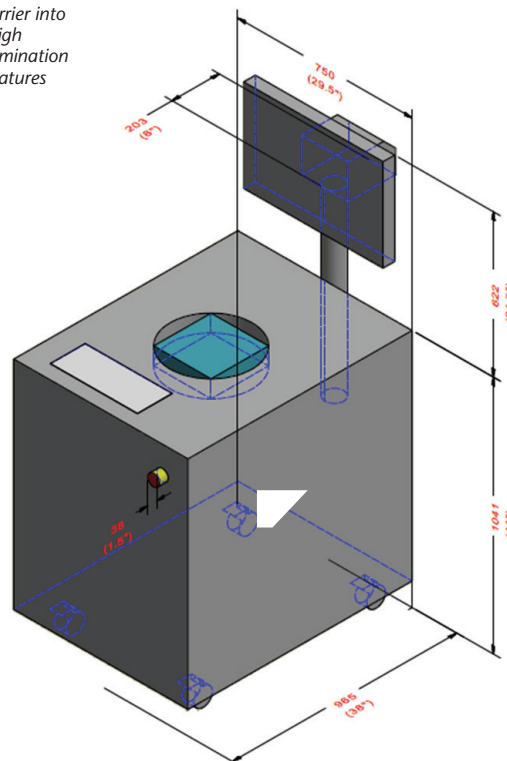
STANDARD MEASUREMENTS

Working closely with the world's leading carrier manufacturers, the EAGLEi 200 has been designed to perform the most critical SEMI standard measurements. Other measurements may be defined by the user.



High-resolution CCD
camera image used
for measurements

During inspection, the EAGLEi 200 precisely lowers the carrier into the system enclosure. Mounted inside the enclosure are high resolution CCD cameras and computer controlled LED illumination that quickly scan the carrier and capture images of key features for measurement.



ENHANCING TODAY'S TECHNOLOGY • INNOVATION FOR TOMORROW

Rite Track North America
+1.513.881.7820
systems@ritetrack.com

Rite Track Asia
+65.6484.3421
systems@ritetrack.com

Rite Track Europe
+358.87.6486854
systems@ritetrack.com

**RITE
TRACK**
www.ritetrack.com