



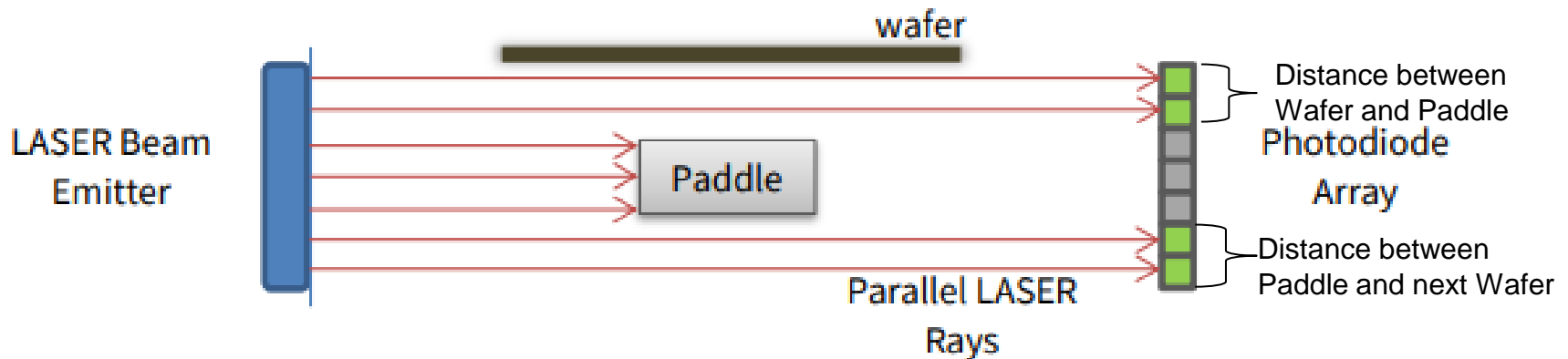
PTW Asia presents

WAMC – Wafer Autonomous Measurement Cassette

Measurement Cassette



Paddle Movement / Position (Slot 5)



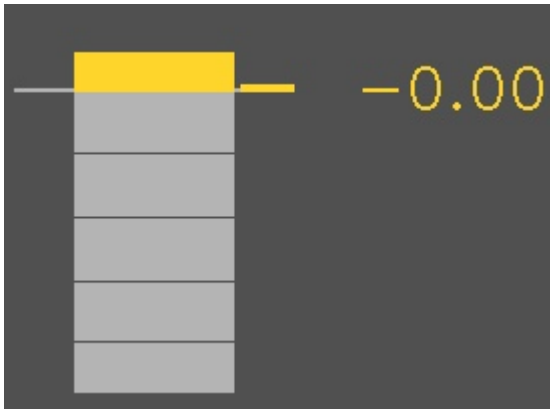
Measurement of the Paddle

1. As calibration of Paddle position
2. Movement during Loading
3. Paddle dimensions

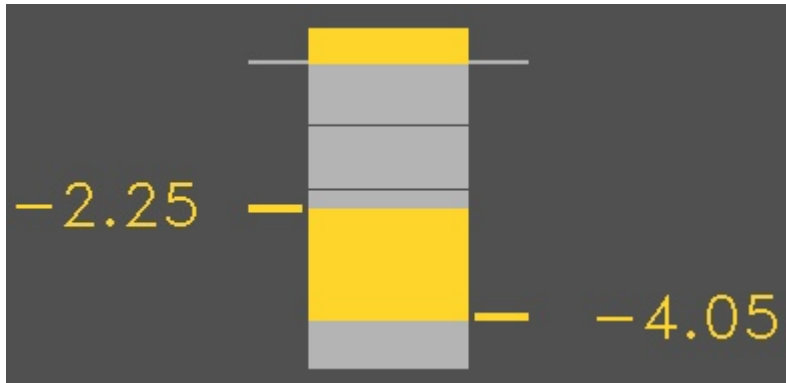
What to prevent?

1. Vibrating of the Paddle
2. Inaccurate movement of Paddle
2. Scratching of Wafer below

Paddle Position (Slot 5)



Wafer Position as
Calibration Point

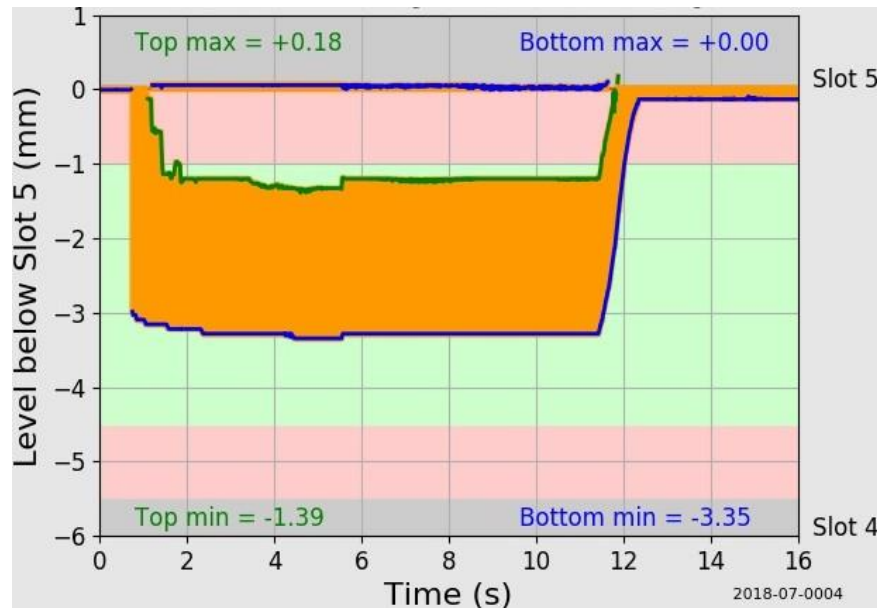


Distance between Paddle and Wafer

Paddle Position and thickness of Paddle
In Slot 5.

Measurement resolution: +/- 0.01 mm

Paddle Movement (Cassette Unloading Slot5)



Green gives you:

- the movement of the top of the Paddle

Blue gives you:

- the movement of the bottom of the Paddle

Yellow gives you:

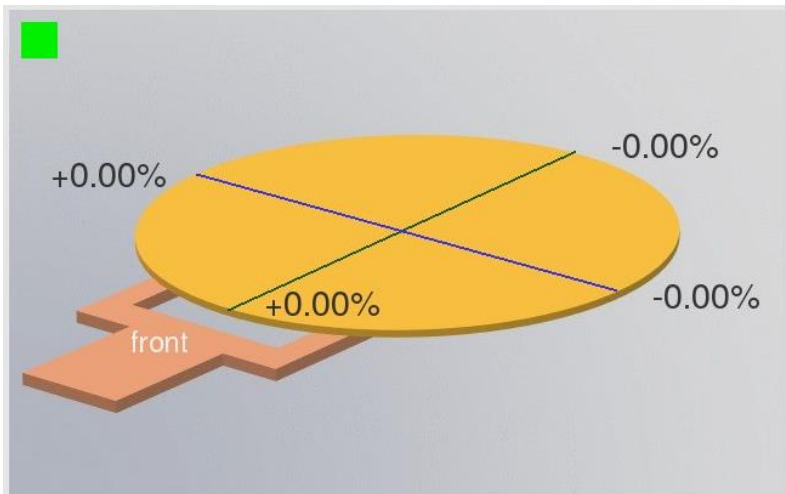
- the thickness of the Paddle

The measurement in total shows the Vibration of the Paddle during lift out in Slot 5.

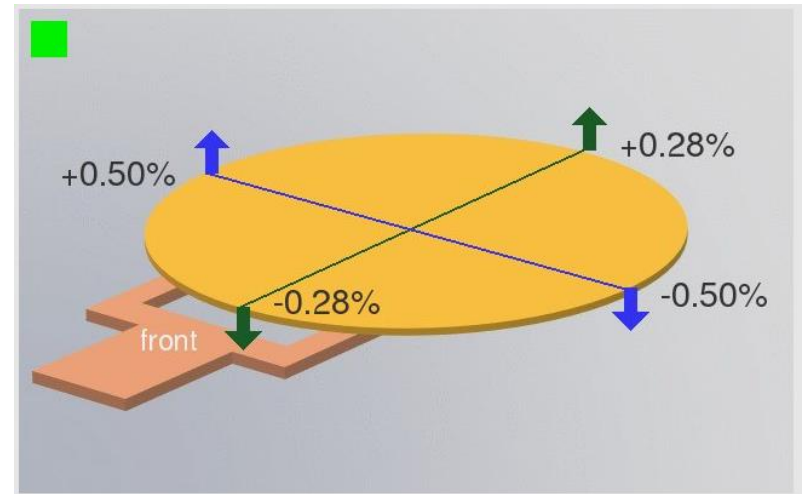
Measurement resolution: +/- 0.01 mm



Tilt of Wafer / Paddle In Situ (Slot 5)



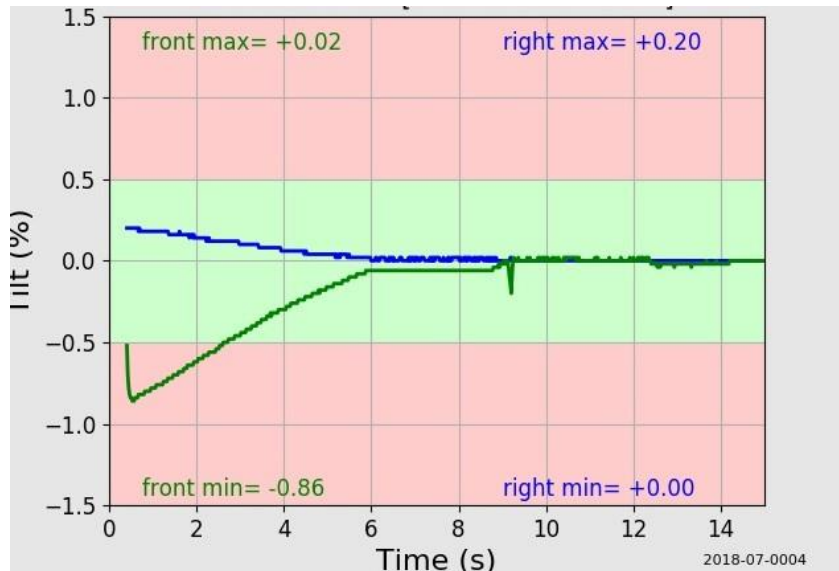
Measurement of the Wafer / Paddle
- Calibration



Measurement of the Wafer / Paddle
- In Situ monitoring

Measurement resolution: +/- 0.01 mm

Tilt of Wafer / Paddle during Unloading (Slot 5)



Green gives you:
- the Tilt (in Percent) on the Front (Loading Side)

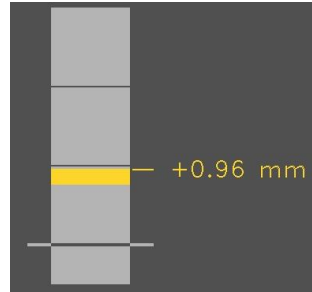
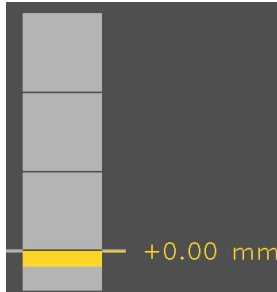
Blue gives you:
- the Tilt (in Percent) on the right Side (Loading)

Is your Paddle still in good condition?
Any Slagging detectable?
Vibrations too strong?

Measurement resolution: +/- 0.01 %



Wafer Lift (Slot 25)



Wafer Lift In Situ

1. Lift too high?
2. Paddle in correct position at Slot 25?



Wafer Lift in Unloading

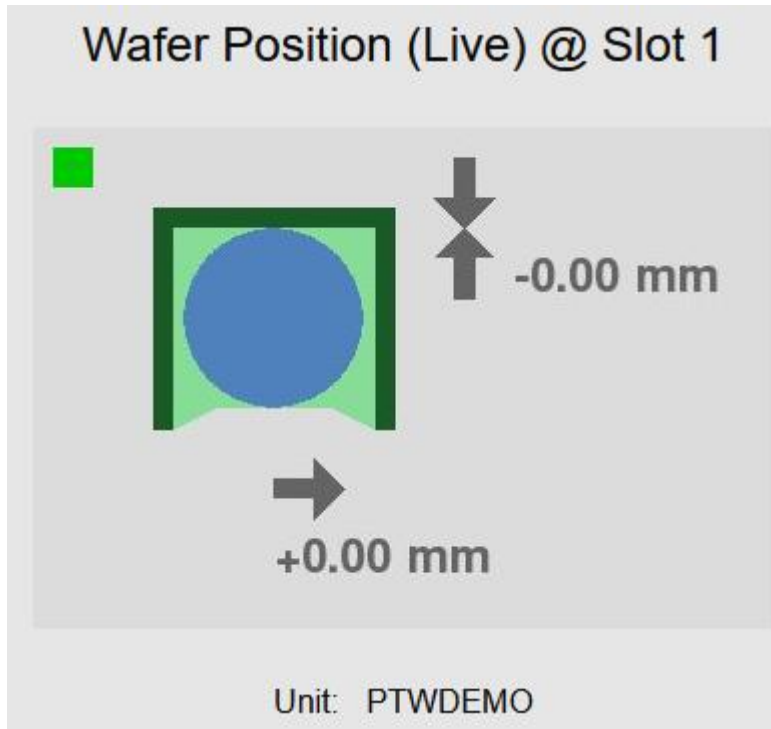
1. Lift high enough?
2. Lift too high?
3. Paddle vibrating in Slot 25?

Measurement resolution: +/- 0.01 mm

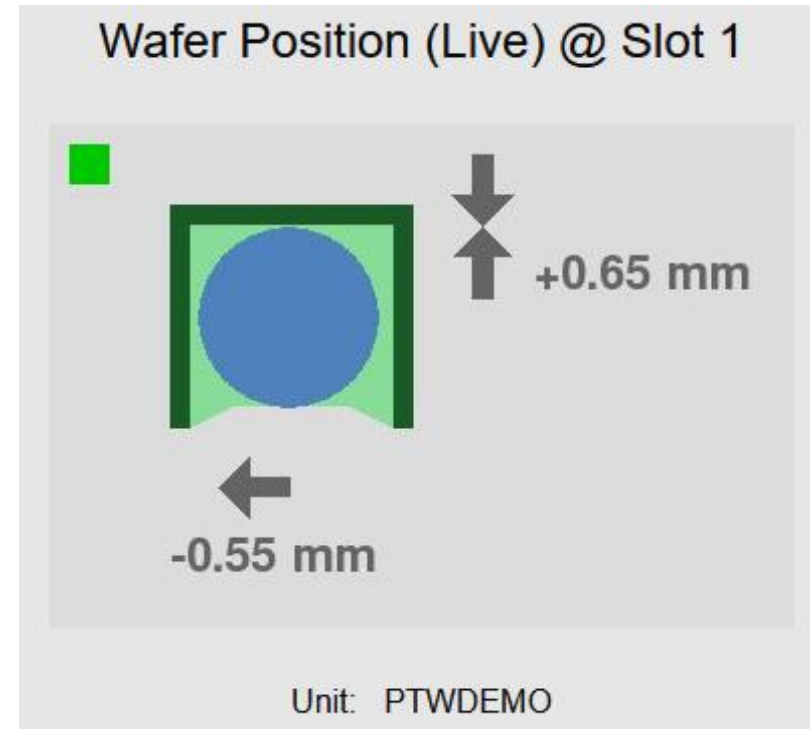


Wafer Position (Slot 1)

Wafer in Correct position inside Cassette



Wafer Position accurate



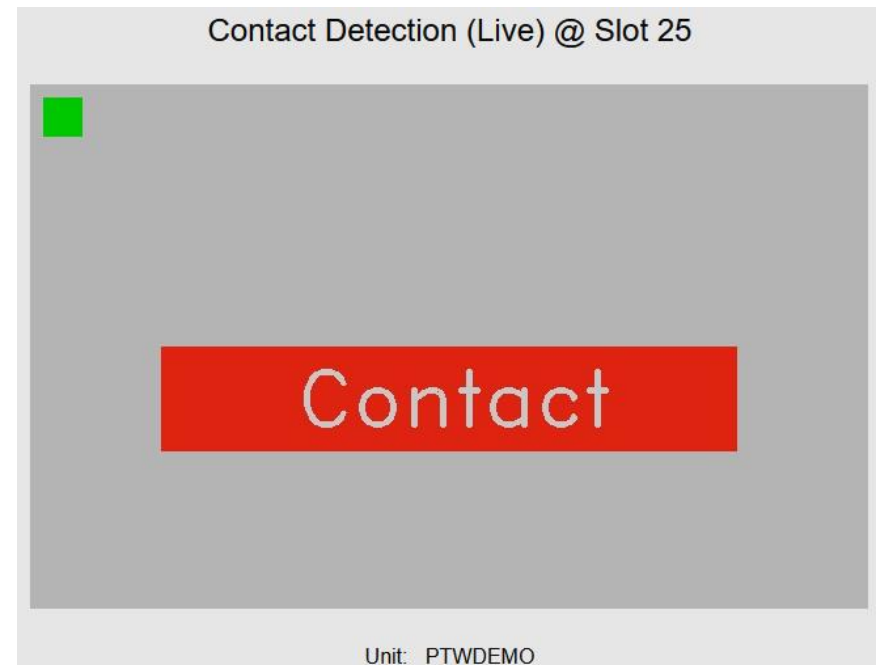
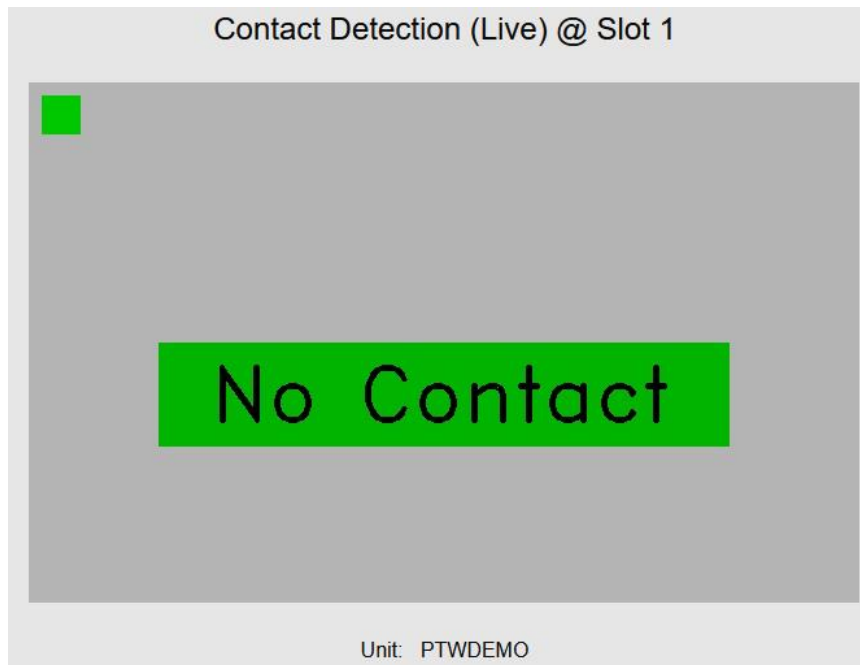
Wafer Position inaccurate

Measurement resolution: +/- 0.01 mm



Wafer Contact (Slot 1 & Slot 25)

Wafer Contact measurements in Slot 1 and 25



Measurement resolution: +/- 0.01 mm



Demonstration Video

Click Video to play.



Specifications

Dimensions

- 23.3 (w) x 21.8 (d) x 23.1 (h) cm (fits in SMIF)

Storage Capacity for Data

- min 16 GB (Flash drive)

Connectivity

- 2.0 USB Port (3 available)
- Wifi connector (2.4Ghz)
- Ethernet Connector

Power supply

- Power bank (5V, 12W, 10000Amph)

Measurement Functions

- Paddle Level (SLOT 5)
- Tilt of wafer (SLOT 5)
- Position of wafer (SLOT 1)
- Lift of wafer (SLOT 25)
- Spirit level (Cassette Levelling)
- Measurement resolution 0.01 mm or 0.01%



Thank You

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