Smart operations in Semiconductor Manufacturing

falkonry

Automated and scalable time series AI for continuous operational visibility

Avoid events before they impact plant operations



Timely, understandable alerts

Discover and understand real-time operational issues in all plant systems and improve OEE



Flexible data connectivity

Secured data connectivity through Public or Private cloud and Air-gap deployment options



Effortless start-up & scale

Value from the moment you plug in, plus easy integration with existing data sources and OT devices

Use Cases across Semiconductor Manufacturing



"Falkonry's AI software enables our manufacturing engineers to themselves build predictive models with a high degree of accuracy which is critical to deploy these solutions at scale."

> Head of Digitalization Siemens Amberg

> Falkonry Time Series Al Suite



Case study: Semiconductor Manufacturer

Defect density analysis of Wafers

- Yield Loss from defect density is very critical for Wafer manufacturing companies.
- Falkonry's predictive analytics helps customer understand which wafers are likely to have a high defect density.
- Those wafers can be preferentially sampled thereby decreasing total inspection sampling rate and cost while maintaining low risk of missed defect excursions.

Identified correlations between sensor levels and defectivity

Unsupervised modeling using ~75 signals