ROBOVISION

Vision Intelligence Infrastructure for Semiconductor Machine OEMs

Inspection intelligence is becoming a strategic differentiator for semiconductor process equipment OEMs. Governed vision infrastructure helps scale machine intelligence that strengthens tool value.

WHY IT IS NECESSARY

When machine intelligence becomes a product challenge

Customer expectations are shifting from image capture to decision capability. Many semiconductor platforms already generate relevant signals, but turning them into scalable in-tool intelligence remains difficult to productize.

Robovision helps OEMs deliver structured decision evidence, combining classification, uncertainty visibility, drift awareness, and operational context so customers can make informed production decisions.

QUALIFYING QUESTIONS

Does your platform already have the foundations for embedded inspection intelligence?
Is your current architecture ready to scale that capability across customer deployments?

HOW IT WORKS

Robovision adds the governed AI intelligence layer

Robovision integrates with existing machine environments. It enables OEMs to train, deploy, operate, monitor, and continuously improve vision AI across tools, sites, and product variants without architectural disruption. Where many vision AI deployments degrade as production conditions change, Robovision is built for governed consistency over the application lifecycle.

Your machine today

Many machines already generate the signals needed for inspection intelligence. What is often missing is the governed infrastructure needed to turn that data into reliable decision intelligence. Scaling that capability across customer deployments is the next challenge.

Robovision

Industrial vision intelligence infrastructure that converts inspection signals into reliable machine decisions inside the machine. With fleet governance, drift detection, monitoring, lifecycle control, and audit-readiness that meet industrial production demand.

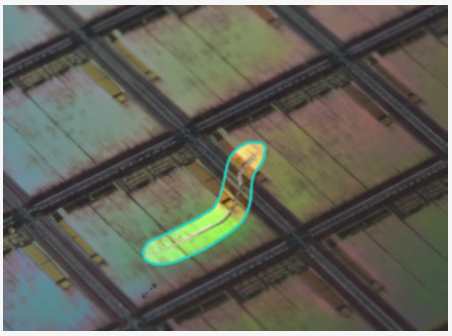
Your outcomes

Stronger product differentiation. Greater strategic product value. Lower support burden through no-code continuous improvement that factory teams can manage. Governed AI OEMs can scale and ship with confidence.

WHERE ROBOVISION FITS

Specific semiconductor workflows, not generic AI

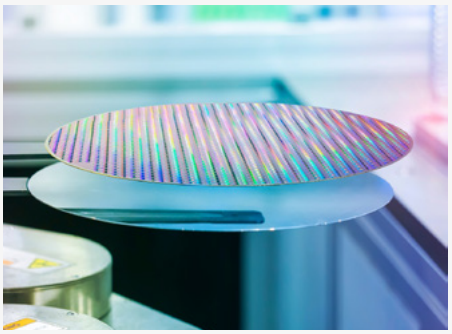
Robovision helps OEMs embed inspection intelligence that strengthens machine capability and product differentiation. With 18+ years in industrial vision, Robovision goes well beyond proofs of concept.



IN-TOOL CLASSIFICATION

Turn existing process signals into machine decisions

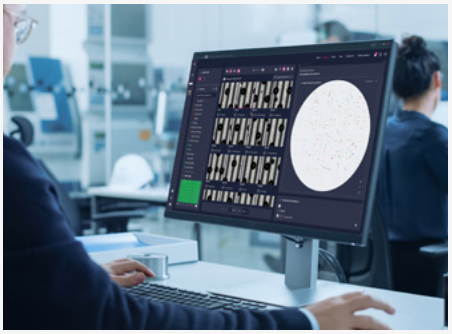
Where visual inspection signals already exist, Robovision helps OEMs productize classification intelligence directly inside the equipment workflow.



SURFACE QUALIFICATION

Qualify process-critical surfaces before value compounds

Workflows where contamination, scratches, or defect ambiguity influence process outcomes and customer yield.



OPERATIONAL INTELLIGENCE

Extend machine value beyond image capture

Task-specific models optimized for production speed, with drift awareness and decision intelligence that strengthen machine differentiation across customer environments.

Trusted by semiconductor OEM process equipment leaders

1,000+
MACHINES
Supporting production decisions across complex global manufacturing environments.

±€3M
RECOVERABLE VALUE
Per bonding line through AI-assisted surface qualification in a modelled hybrid bonding scenario.

Observed across deployments: faster deployment, lower support burden, more consistent machine intelligence, stronger commercial differentiation. Context dependent.

INDICATIVE ECONOMICS

What the OEM business case can look like

Representative semiconductor deployment scenarios. Context dependent. Does not serve as a quote.

Opportunity pattern	Business impact
Internal AI build complexity	Faster route to production-ready machine capability
Support-heavy embedded intelligence	Lower lifecycle support and governance burden
Fragmented customer deployments	Scalable machine intelligence across environments
Limited in-tool decision capability	Stronger product differentiation and strategic tool value
High-value customer workflows	±€3M customer value opportunity per hybrid bonding line

ASSESS YOUR READINESS

Evaluate whether your current machine is ready for in-tool inspection intelligence

ASSESSMENT INTERACTIVE READINESS TOOL

Explore whether your existing architecture and data pathways support in-tool inspection.

START ASSESSMENT

NEXT STEP

A short conversation about outcomes

In a 30-minute technical exchange, we review your machine architecture, inspection workflow, and readiness for embedded inspection intelligence.

Contact: sales@robovision.ai