

Accella Quality Box™

AI-Based Visual Inspection for the
Shop Floor

Part of the Accella MFG BOT™ Platform

Quality and Staffing Challenges

Manual visual inspection is slow, variable, and hard to staff



Missed defects lead to scrap, rework & complaints



Over-rejection of good parts increases waste and cost



Inspection quality varies between operators, lines, and shifts



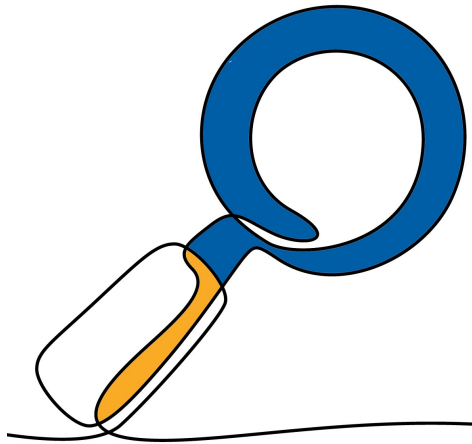
Sustained concentration is hard to maintain



Inspection roles can be hard to fill and retain

Quality Box Inspects Products & Components

From image capture to pass-or-fail at line speed

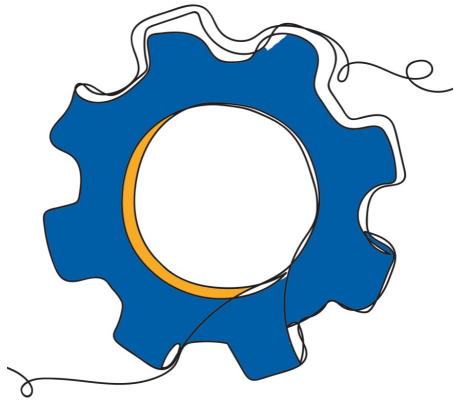


- Cameras capture images of every part at key inspection points
- AI models compare each image against learned defect criteria
- Pass-or-fail decisions are applied consistently across operators and shifts
- Images and metadata can be stored for traceability and root-cause analysis

Accella Quality Box automates visual inspection and delivers fast accurate and consistent results

Built for Real Production Environments

Accella Quality Box handles changing conditions, speeds and products



- Designed for industrial lighting conditions and line speeds
- Integrates with existing infrastructure and equipment
- Supports different surface finishes, from matte to glossy or textured
- Tolerates variation in part position and orientation within the field of view
- Can be configured for product variants

Accella Quality Box is designed to handle visual inspection tasks under real world conditions on the shop floor

Where Quality Box Fits into Your Operations

Critical inspection points across the line



Incoming material/
component checks
to catch issues early



Inspection after key
steps e.g., coating
or assembly



Final quality gates
before packaging
or shipment

For plants where consistent, documented visual
quality is a priority

Business Impact and Deployment Approach

Improve quality while keeping throughput high



- Reduces scrap, rework, and the risk of shipping defective product to customers.
- Makes visual decisions more consistent across operators, line, plants and shifts.
- Frees up experienced staff to focus on other critical tasks.
- Works with legacy systems.
- Can start with a focused inspection point and expand once value is proven.

What You Get With Accella Quality Box

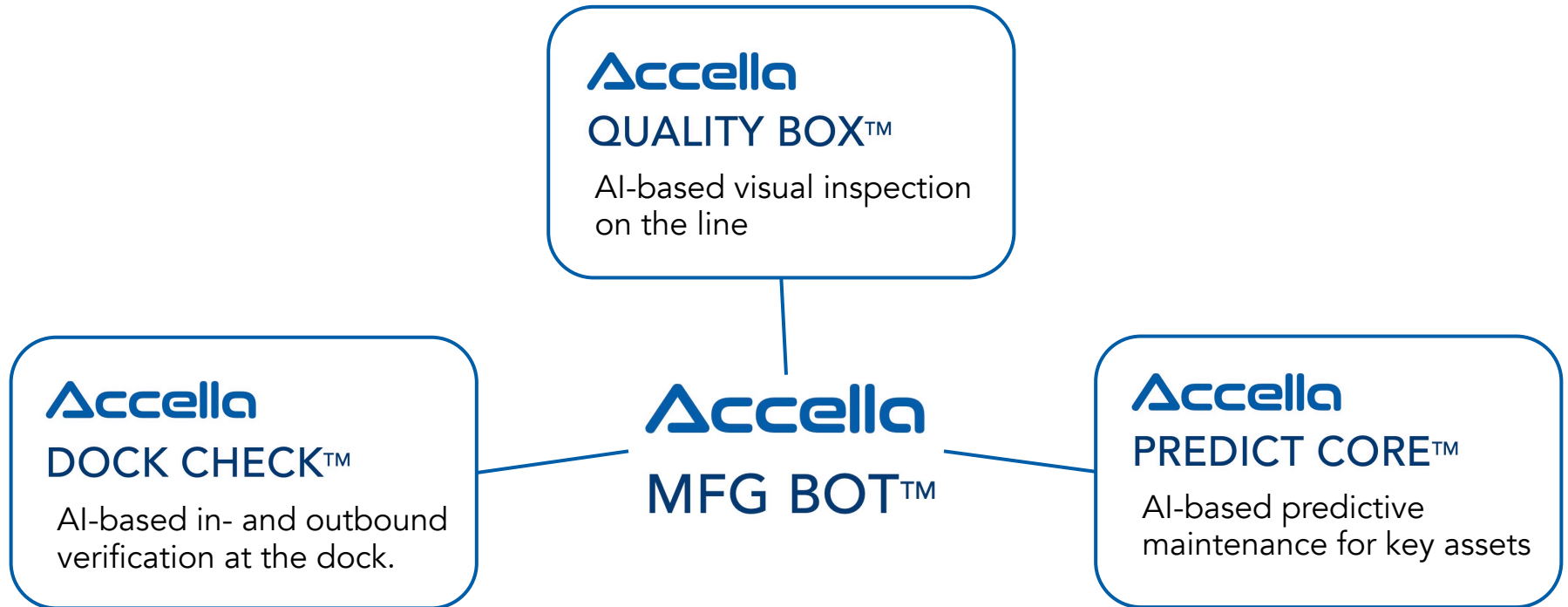
From integration to models, dashboards and reporting



- Integration with cameras and lighting suited to your application
- AI models tailored to your part types and defect categories
- Configuration tools to set and adjust decision thresholds
- Real-time dashboards for line status and defect trends
- Reporting and data export to support audits and process improvement

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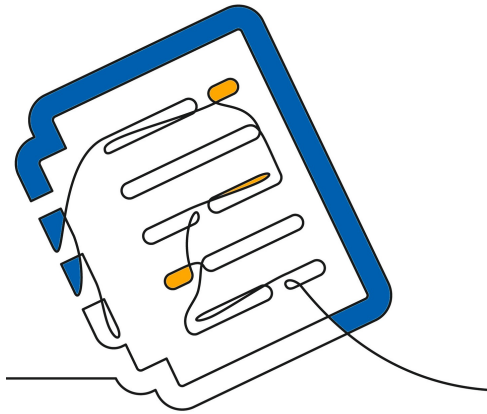
Shared platform for visual inspection, maintenance, and dock control



Shared platform for data, deployment, and monitoring across applications

Next Steps for Your Quality Assessment

Clarify layout, flows, and your preferred rollout



- Discuss scope, success criteria, and timing for a pilot or direct deployment
- Select a first inspection point where missed or over-detected defects hurt the most
- Share representative parts and your current quality criteria
- Review example images or capture a short sample set on the line

Contact us to explore
Accella Dock Check™ for your
facility

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