



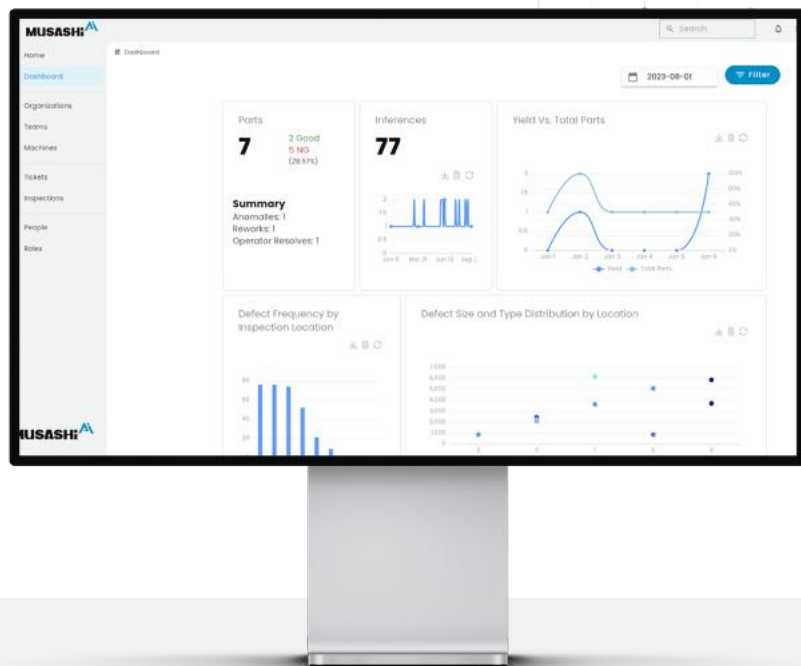
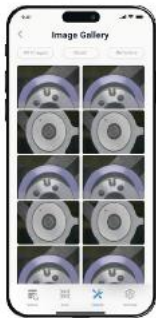
Smarter Inspections. Superior Results.

CENDIANT[®] INSPECTION SOFTWARE SOLUTION

Musashi AI's Cendiant[®] inspection solution combines deep learning software, inspection hardware, and real-time insights to automate the inspection of complex parts.



- ✓ **DETECT**
surface defects quickly
- ✓ **VISUALIZE**
data in real-time
- ✓ **SIMPLIFY**
hardware maintenance
- ✓ **REDUCE**
your cost of quality



KEY SYSTEM ADVANTAGES

	Part Traceability		24/7 Engineer in the Loop Support		Data Safety & Security
	Zero Quality Escape		Lower Cost of Quality		Advanced AI Algorithms

CENDIANT[®] INSPECT

One Platform. Complete Visibility & Control.

Whether retrofitted into existing lines or delivered as new equipment, **Cendiant[®]** is a turnkey solution for manufacturers looking for the precision, speed, and visibility needed to develop proactive, data-driven quality control strategies.

- Detects defects, missing features, misassemblies, and more
- Allows for local data storage or cloud connection
- Prevents quality escapes with high-performing AI detection

CENDIANT[®] QUALITY INSIGHTS

Secure Inspection Data at Your Fingertips

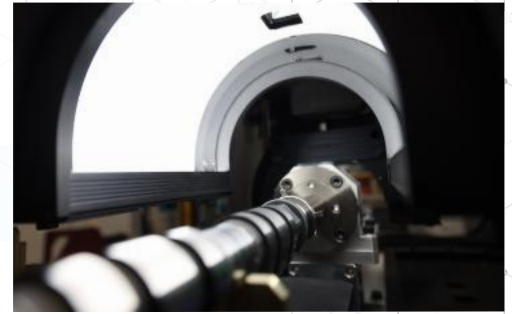
- Cloud-hosted dashboard for part history and defect trends
- Real-time production monitoring alerts & custom notifications
- Secure access from any device with encrypted exportable data

ACTIVE i[®] DEEP LEARNING ALGORITHM PIPELINE

Training begins with defect free data, enabling anomaly detection. Defects can then be identified for instance segmentation.



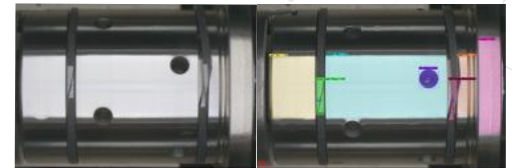
	Anomaly Detection	Defect Detection & Classification
Data Requirements	20-30 Good Samples	50-100 Samples Per Defect Class
Defect Detection	Yes	Yes
Defect Classification	No	Yes
Gauging or Measurements	No	Yes



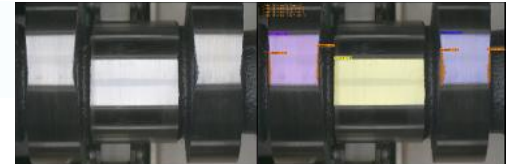
DEFECT EXAMPLES



Surface Roughness



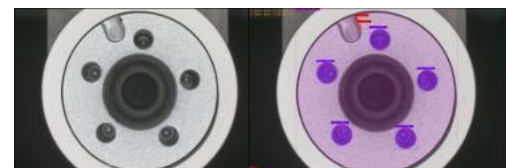
Misassembled



Underfill



Crack



Dent



Porosity

CQI GEN 2

The New Standard in Automated Inspection

With faster-learning AI models, modular hardware, and a new proprietary control system, **Cendiant® Quality Insights Gen 2** enables quicker deployment, lower hardware costs, and seamless scalability.



UP TO 30%

cost reductions in the AIS



2X FASTER

time to value



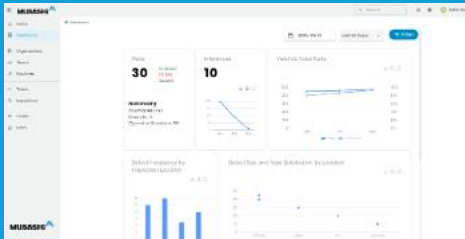
EASY MAINTENANCE

and expert support

Gen 2 gives manufacturers a standardized inspection subsystem, the core AI-driven portion within the larger automated inspection cell into a modular design.

This approach streamlines deployment, reduces cost and system footprint, and provides flexibility to integrate with their preferred PLCs, safety systems, and robot brands.

DASHBOARD FEATURES



Daily Dashboard

Customizable charts and graphs to capturing output of the last 24 hours of quality inspection.

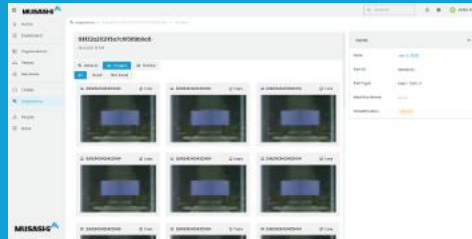
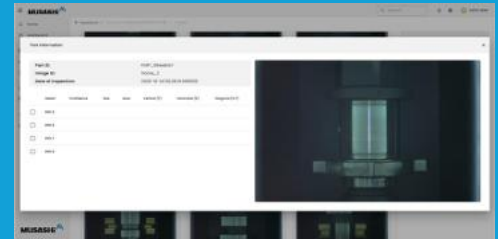


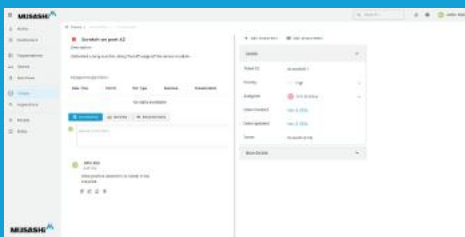
Image Gallery

Access all inspection images (defect and defect free parts)



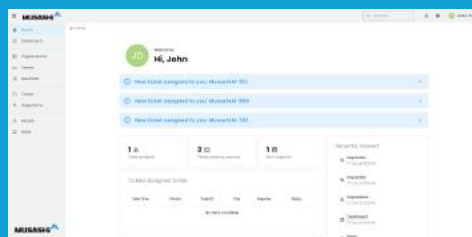
Inspection Log

A detailed record of all part inspections performed by the system. Flag and comment on inspection images.



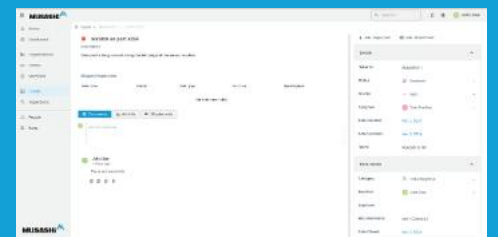
Customer Support

Real-time communication with inspection experts over the cloud.



Notifications

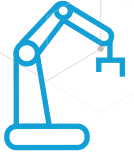
Fully customizable, end users can configure for specific defects and statuses.



Hardware Health

Track the health of critical system components including cameras and AI processing units.

INTEGRATION PATH OPTIONS



Turnkey System

Musashi AI delivers a complete inspection system, partnering with your automation provider to supply and commission a fully integrated inspection cell.



Internal Integration

Musashi AI provides the inspection substation, while your internal automation team handles integration with existing equipment or production cells.



Local Integration Partner

Musashi AI provides the inspection substation and works alongside your preferred local automation partner to integrate the system into your cell.

SYSTEM BENEFITS

Simplified Integration

Fast-learning AI models, modular hardware, and a single IPC streamline onboarding, reduce complexity, and cut deployment time and cost.

Smarter AI Models

More precise and efficient by focusing on key inspection regions, with reusable model libraries that reduce engineering effort.

Lower Cost of Ownership

Standardized, repeatable designs and generic PCBA cut hardware costs while improving scalability.

Edge + Cloud Continuity

Run systems locally or connected to the cloud, with up to 3–4 weeks of data stored onsite to ensure production continuity.

Enterprise Connectivity

API integration with ERP, MRP, and QMS platforms ensures quality data flows seamlessly across systems.

Enhanced User Experience

Optimized UI, configurable options, and enhanced customer support through ticketing workflows for easier adoption and ongoing support.

PLATFORM SECURITY



Role-Based Access

Limit user permissions and maintain data integrity



Regular Security Audits

Continuous monitoring, patching, and vulnerability testing



Encrypted Data

Entrusted data encryption & certifications

ISO 27001 Certified
CSA Certified



STANDARD MACHINE DESIGNS (AUTOMOTIVE EXAMPLES)

	SPECIFICATIONS	SHAFT INSPECTOR	GEAR INSPECTOR
APPLICATIONS	Parts	Camshaft, Balance Shaft, Drive Shaft, Spline Shaft	Transmission, Differential, Bearings, Clutch Hubs, Planetary Assemblies
IMAGING	Optics	Complete customization depending on part type and inspection requirements	
	Inspection Software	Cendiant® Inspect	
	AI Accuracy	Anomaly detection as small as 50 microns without magnification, <99% In-Scope Detection Rate <5% Over Detection Rate	
	AI Training	Employed Active i® for deep learning. See training requirements below. Instance Segmentation: 100 Defective Samples Per Defect Class	
MACHINE SPECS	Integration	Inline, Offline, End-of-Line	
	Supported Control Systems	Keyence, Mitsubishi, Allen Bradley, Siemens, ToyoPUC	
	Supported Safety Certifications	OSHA, UL, NFPA-70, NEC, NFPA-79, ANSI B11.0, CSA	
	Power Supply	15-amp, 120-volt outlet	

CUSTOM MACHINE DESIGNS

Applications	Automotive: Powertrain, Chassis, Electronics, Trim, Fuel and Exhaust, Safety-critical components Electronics Assemblies, Oil & Gas Fittings, Pipes and Assemblies, Medical Devices and Components, Food Processes, Aerospace.
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DON'T SEE YOUR PART TYPE? Call to learn more about our customizations options.

HARDWARE OPTIONS



Standard Unit

Designed and assembled by Musashi AI, this is the minimum package of assembled motion and optical components to perform visual inspections. Is capable of inspecting a range of part types in the same part family.



Standard Platform

A package that can be integrated into an existing system. The customer is responsible for reject handling, part reintroduction, and overall part handling. A robot and EOAT (End-of-Arm Tooling) are available as optional components.



Turnkey Solution

A fully integrated package designed according to customer specifications. This solution is developed, installed, and seamlessly integrated into the existing system by:

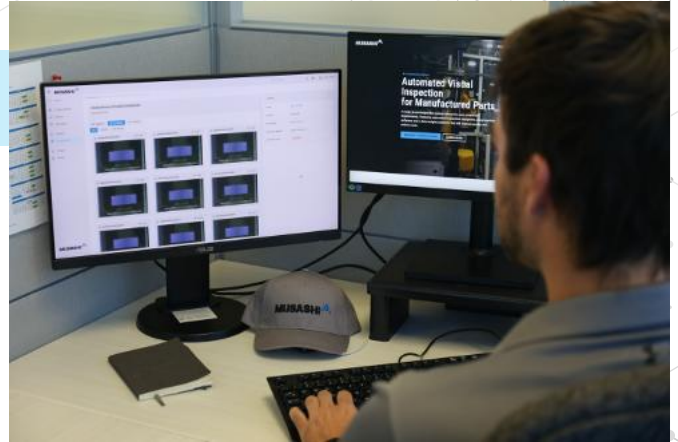
- Collaborating with Musashi AI + partner teams
- Engaging your local automation group
- Working with a local integrator or machine builder

WHY MUSASHI AI

Built by Manufacturers, for Manufacturers.

Founded in 2019 by Musashi Auto Parts, Musashi AI was created to keep pace with the high-volume, high-precision demands of modern manufacturing.

Today, our inspection ecosystem supports global leaders across major manufacturing organizations.



PARTNERSHIP HIGHLIGHTS

Enjoy turnkey solutions and effortless innovation as Musashi AI experts manage your model with ongoing iterations and programming support.



Hands-on Engineering Support



Turnkey AIS Solutions



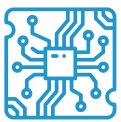
Long-term Scalability & Value



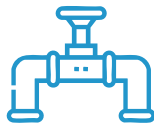
Continuous Improvement

CENDIANT® INDUSTRY APPLICATIONS

Discover how **Cendiant®** could apply to part production in your industry today.



Electronics



Oil & Gas



Food & Bev



Heavy Industries



Medical

BOOK A CONSULTATION

Our experts will assess your parts, processes, and site, then demo the Musashi AI ecosystem to give you a detailed project proposal with timeline and costs.

With the Musashi AI team, get long-term access to hardware integration and software support. Stay focused on what you do best – we'll handle the rest!

