



Automated Inspection Machines

Automate the visual inspection of your manufactured parts using Musashi AI's **purpose-built** inspection machines.

AI Inspection Powered by Musashi AI's Cendiant™ Inspect Software.



AUTOMATED VISUAL INSPECTION USING ARTIFICIAL INTELLIGENCE

- Automate quality inspection within your production line. 24/7 **continuous and consistent** monitoring, without interruption.
- Utilize **Cendiant™ Software** ecosystem to automatically conduct visual inspection and record valuable quality insights.
- Shorten cycle times, increase **operational efficiency**, and lower the cost of quality.



STANDARD DESIGNS CUSTOM DEPLOYMENTS

Our inspection cells are constructed on proven standard designs to reduce unnecessary costs and expedite project timelines. Simultaneously, all optics, internal fixtures, and control systems are customized to meet the specific inspection requirements of the manufactured part.



COMPREHENSIVE INSPECTIONS

Designed for difficult part inspection, our machines integrate high-precision sensors and cameras with AI-powered inspection software. They excel in handling intricate geometries, tight tolerances, and diverse materials, detecting anomalies as small as 150 microns.



SEAMLESS INTEGRATION

Machines support inline, end-of-line, and offline integrations, offering compatibility with various control systems. They are available as low-cost retrofits or new equipment installations.

Standard Machine Designs

Specifications		Shaft Inspector	Gear Inspector
Applications	Parts	Camshaft, Balance Shaft, Drive Shaft, Spline Shaft, Crankshaft*	Transmission, Differential, Bearings, Clutch Hubs, Planetary Assemblies
	Part Length	100-600mm	n/a
	Part Diameter	<50mm	<400mm
Imaging	Optics	Complete customization depending on part type and inspection requirements	
	Inspection Software	Cendiant™ Inspect	
	AI Accuracy	>150 Microns Detection, 100% NG Detection Rate , <5% Over Detection Rate	
	AI Training	Anomaly Detection: 30 OK Samples Instance Segmentation: 100 Defective Samples Per Defect Class	
Machine Specifications	Machine Dimensions	L: 1500mm W:1500mm H: 2045mm	L: 1750mm W: 800mm H: 1650mm
	Weight	~965kgs	~400kgs
	Integration	Inline, Offline, End-of-Line	
	Supported Control Systems	Keyence, Mitsubishi, Allen Bradley, Siemens, ToyoPUC	
	Safety Certifications	OSHA, UL, NFPA-70, NEC, NFPA-79, ANSI B11.0	
	Power Supply	3 Phase 200-208 VAC 30A 60HZ	

*Crankshaft inspection requires further customization due to part weight, and may change other machine specifications.

Other Machine Designs

Applications	Suspension Components, Cylinder Heads, Housings, Intake/Exhaust Manifold
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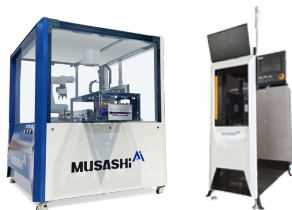
Don't see your part type? [Inquire with us for more details.](#)

MUSASHI AI PRODUCTS AND SERVICES

Build the inspection solution that is right for your application

Inspection Equipment

Automated Inspection Machines



Standard or Custom Design

Cendiant™ Software

Cendiant™ Inspect



AI Powered Defect Detection

Cendiant™ Quality Insights



Data Metrics and Analytics Dashboard

Cendiant™ Mobile Scan



On-The-Go Part Traceability



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