

**Automate Quality Inspection
with Artificial Intelligence.**

MUSASHI^{AI}

AI Visual Inspection Equipment



Compact

2 Models: 600 or 800mm wide.
Easy integration with existing
production layout and equipment.

Superior Inspection

Improved inspection accuracy,
consistency and reliability. Fewer
customer complaints or recalls.

Quick ROI

Fully automated solution capable
of 24hr/7 days per week runtime.
Lower direct inspection costs.

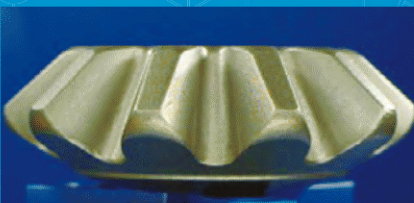
Eliminate Non-Value Add Activities



Manual inspection is highly repetitive, straining and resource
consuming negatively impacting organizational productivity.

Work Flow

AI Model Training



Confirm inspection requirements.
Train and test AI models.

Deployment (1-3 Months)



Deploy inspection equipment and
AI in production environment.

Support & Optimization



AI models are optimized with
additional production data.

AI Visual Inspection Equipment for Symmetrical Parts

■ W600 or 800×H1,650×D1,750mm



Parts



Transmission Gears



Differential Gears



Bearings



Clutch Hubs



Planetary Assemblies

■ Maximum Part Dimensions:

W600mm Model: ~φ250mm

W800mm Model: ~φ400mm

Item		Specifications
Imaging	Camera	Area Scan (Baslar, IDS, Baumer, etc)
	Camera Resolution	2MP or Higher Resolution
	Defection Capabilites	Defects up to 0.05mm
	Lighting	Bar, Ring or Dome
	AI Accuracy	Training Images Required (100OK/250 NG) 100% NG Detection Rate, less than 5% Overdetection Rate
Machine Dimensions	Total Length	1,750mm (Includes control panel)
	Full Width	600mm or 800mm
	Total Height	1.650mm
Machine Specifications	Maximum Worksize	600mm:250mm, 800mm:~400mm
	Axis of Rotation	Endless Expression
	Conveyance System	Indexed Rotating Table
	Operation Panel	Touch Panel and Monitor
	Camera Adjustment	Electrical Adjustment Unit
	Control System	FA Equipment by Mitsubishi Electric
	Safety Device	Emergency Stop Button, Safety Sensors
	Indicator Light	LED (Green, Yellow, Red), Buzzer
	Cover	Industrially Designed Equipment Cover
	Weight	Approximately 400kgs
	Power Supply	3 Phase 200 VAC 0.5 KVA

*1: Full AIS solution is customizable to your inspection and production integration requirements

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