Hetrology & Assembly Solutions vantage-corp.com

Core Product Overview

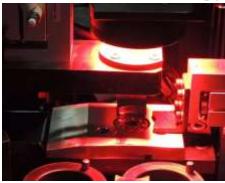


Inspection Systems



Vision, Laser, Pneumatic, Dynamic, Torque, as well as Classification and Identification

Industrial Metrology



Contact and non-contact gages for precision measurements. In-line and audit room.

Automation & Robotics



Fully automatic systems to streamline your manufacturing process and increase production

Assembly Systems



Manual and semi-automatic multistation assembly systems for pressing, torqueing, & riveting

Systems Integration



Custom design or upgrade/retrofit existing lines with the latest sensors and manufacturing technology

Engineering & Service



Let the +Vantage team's decades of experience solve your manufacturing challenges



Global Locations





Automatic Gaging & Inspection Systems



In-line Automatic Gaging & Inspection Systems

Semi-automatic & Manual Gaging Systems

Precision GD&T Measurement

Tool Compensation Capable

Feature Poke Yoke and Operation Verification

LDVTs, Air Gaging, Eddy Current, Go-No Go, Vision

SPC Analysis, Data Tracking, and Part Measurement Analysis

Custom designed per application, line condition, and timing needs



EOL / VC / Final Check Gage Systems



Air Gaging Systems In-line & Off-line



In-line Gage

Systems



Post Operational Gaging for Tool Compensation



Off-Line Manual Guided Sequence Gaging Go-No Go & Variable Gage



CMM Grade metrology systems designed for the shop floor

Precision ID & OD roundness scans repeatability in roundness achievable 10% GR&R at 200 nm (0.0002 mm)

Dynamic Linear Profile Scans

UPR and Harmonic analysis of roundness and plotted reports

Servo controlled linear air bearing technology for dynamic scans & multi-position gaging, 3600 samples per second

Servo controlled rotary air bearing technology for roundness, cylindricity, and ID bore scans, 3600 samples per second

Integrated into in-line automatic, and offline-semi automatic gaging systems



Profile Scan Measurement



Crank Shaft Pin & Main Roundness & Straightness



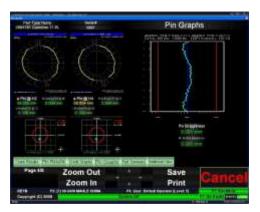
Roundness & Position of Bores



Deep Bore Roundness & Position



Bore Cylindricity Scanning Incometer



Roundness, Cylindricity, & Profile Plotting

Non-Contact 2D/3D Vision Capability



3D Dimensional Noncontact Scanning & Imaging

2D Dimensional Noncontact Measurement

Porosity and Surface Inspection

Poke Yoke & Operation Verification

In-Line 3D Verification of Circlip Installation

In-Line 3D Verification of RTV Applications

Integrated into in-line automatic, and offline-semi automatic gaging systems



Battery Tray In-line Pre-Machined Straightening Non-Contact Gage



Battery Tray EOL Non-

Contact Gage



3D Measurement & Verification of FIPG Bead



In-line Porosity & Surface Defect Inspection



High Speed Bushing Inspection Systems



3D Inspection of Circlip Installation

Semi Automatic Assembly Stations



Semi Automatic Torque Systems with Torque & Angle Feedback

Semi Automatic Press Systems with Force and Distance Feedback

In-process Poke Yoke and Measurement to Verify Operation Quality

Servo, Pneumatic, or Air / Oil Pressing Systems

Bulk Feeding of Subcomponents

Part Tracking and Data Collection



Semi-Automatic Seal Servo Press



Semi-Automatic Torque & Tape Application System



Semi-Automatic Gear Servo Press



Hand Loaded Multi Station Assembly Systems



Semi Automatic Air / Oil Bushing & Dowel Press



Semi Auto Glue Application & Cup Plug Installation



Conveyor Based Palletized Auto Assembly Lines

Robot Based Multi Station Assembly Stations

Indexer Based Multi Station Assembly Stations

FIPG Applicators & Inspection

Torqueing with Torque & Angular Feedback & Auto Feed

Pressing with Force and Distance Feedback & Auto Feed

Bulk Fed Subcomponents & Air Feeding

Part Handling, Robot Handling, & Conveyance



Turnkey Assembly Cells



Multi Operational Indexing Systems for Multi Step Assembly



In-line Robotic FIPG Application & Inspection



In-line Auto Torqueing & Dowel Pressing



Bulk Part Handling / Conveyance

Manual Assembly Workstations



Manual & Semi Automatic Torque Systems

Manual & Semi Automatic Press Systems

HMI Guided Operator Assembly Operations

Built-in Instructions on HMI & Operator Poke Yoke

Tolerance Stack Up Analysis Capability for Critical Dimension Setting

Part tracking and Operator Tracking Capable



Manual Torque Benches with Blow Fed Subcomponents





Manual Guided Assembly





Multi Operation Assembly

Benches

Measure, Match, Assembly & Verify Benches

Manual Torqueing Fixtures



Guided Assembly Sequence

Part Marking & Tracking Capability

Laser Marking Systems

Dot Peen Marking Systems

Ink Jet Marking Systems

Grading & Verification of Markings

In-house Laser Safety Officer

+V

All laser systems include FDA & Safety Accession report



Robot Loaded Laser Marking

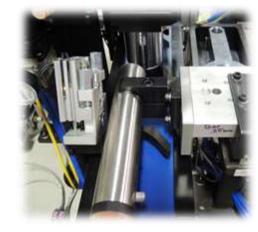
Systems

Conveyor Through Feed

Laser Marking Systems



Stand-Alone Standard Laser Marking Systems



In-Line Ink Jet Marking



Laser Marking Systems for Plastic Parts





Proud Integrators of:





On-Site Service & Support



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Thank You for Reading!

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