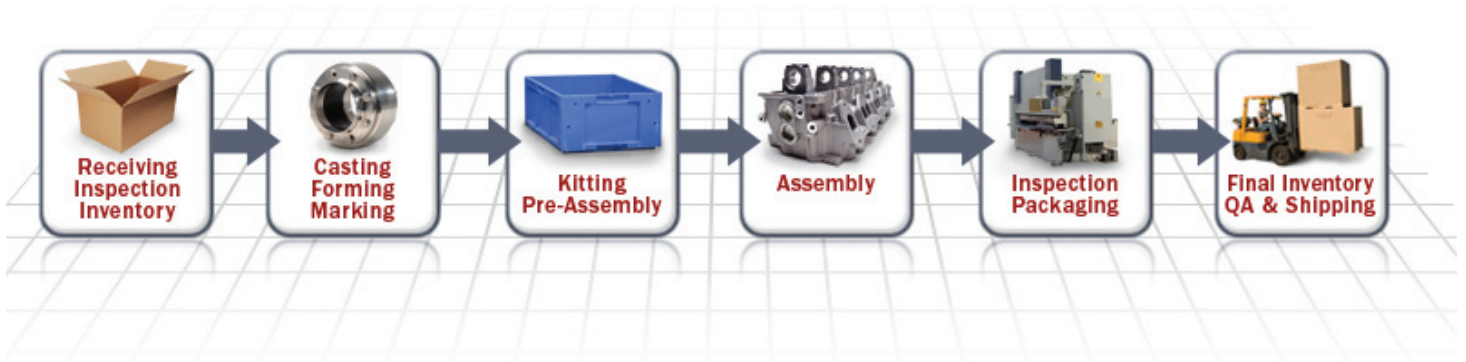


Complete Solutions for Automotive Applications

Automotive suppliers and OEMs today depend on data tracking for quality assurance, spill prevention, error proofing, and increasing production yields. Microscan helps manufacturers through the complete automotive manufacturing process, from receiving to shipping, by enabling reliable automatic identification and machine vision.



Enhanced Productivity Through Data



TRACK (Present)

Auto ID and machine vision are used to track parts that are work-in-process, or "WIP".



TRACE (Past)

Traceability is the ability to recreate or "trace" the manufacturing steps, processes, or location of a part before it becomes a completed assembly.



CONTROL (Future)

Control is used to decide what step or future process a part must undergo.



RECEIVING/INSPECTION

Track: Track materials entering or leaving facility

Trace: Confirmation material matches order

Control: Inspection of vendor-supplied product

Applications:

Inventory control
Quality inspection
Receiving confirmation
Unique ID generation



CASTING/FORMING/MARKING

Track: Track productivity of forming machines, injection molding, casting, etc.

Trace: Initiate life cycle of parts through marking unique identifiers

Control: Ensure quality control, pass/fail inspections

Applications:

WIP tracking
Code/mark verification
Correct component verification



KITTING/PRE-ASSEMBLY

Track: Track lot quantities, flow of components, work in process visibility

Trace: BOM traceability of components to work orders

Control: Ensure factory floor quality inspection steps

Applications:

Confirming BOM
WIP tracking
Product inspection
Code/mark verification



ASSEMBLY

Track: Provide real-time visibility of line level output and station productivity

Trace: Associate BOM relationships to assembled product

Control: Verification of proper installation, pass/fail testing

Applications:

Robotic guidance
Lot tracking
Assembly date/time stamping
WIP tracking
Quality inspection



INSPECTION/PACKAGING

Track: Facility-wide visibility of production output and efficiency

Trace: Tracing packaged product

Control: Cosmetic inspection, functional testing

Applications:

Dimensional testing
Lot tracking and verification
Verify quality at checkpoints
OCR/OCV verification
Cosmetic screening
Document pass/fail of quality testing



FINAL INVENTORY, QA & SHIPPING

Track: Overall plant productivity of all lines

Trace: Providing full product genealogy and traceability report

Control: Verifying/matching customers orders to shipments

Applications:

Sortation and routing
Packing list verification
Outbound documentation/notification

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