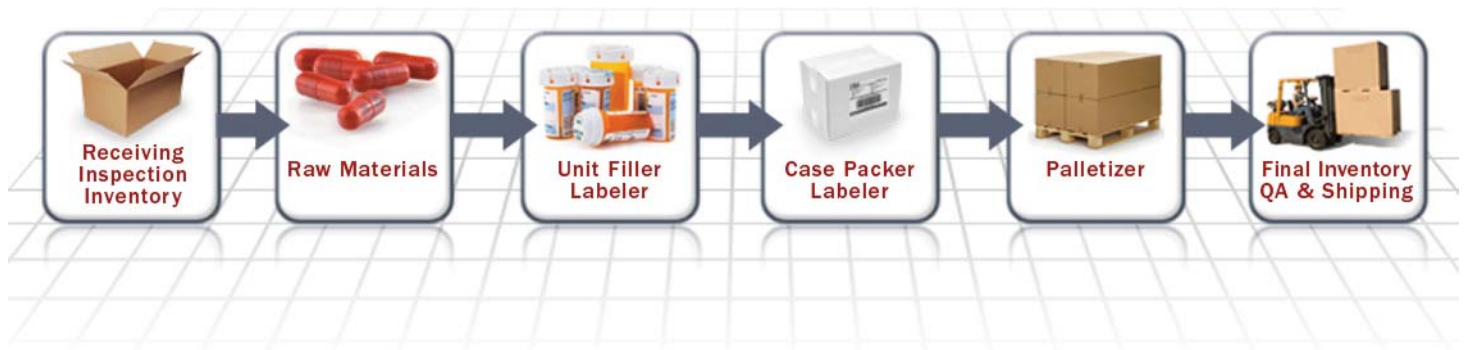


## Complete Solutions for Pharmaceutical Applications

Data accuracy and reliability are critical within pharmaceutical applications where manufacturers need to increase throughput while meeting regulatory compliance. Microscan helps manufacturers through the complete pharmaceutical 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



#### RAW MATERIALS

**Track:** Track consumption of raw materials

**Trace:** Initiating traceability of the products

**Control:** Validate/verify that correct materials used in recipe

#### Applications:

WIP tracking  
Material verification  
Code/mark verification



### UNIT FILLER/LABELER

**Track:** Efficiency of filling systems and quantity produced per hour

**Trace:** Applying unique identification to primary packaging

**Control:** Verifying raw materials placed in correct package

**Applications:**

WIP tracking  
Date/lot tracking  
Quality verification of fill levels, unit dose, etc.  
Product Inspection

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### CASE PACKER/LABELER

**Track:** Lot tracking and validation

**Trace:** Recording time/date stamping, lot level identification

**Control:** Match product to leaflets and outer packaging

**Applications:**

Lot tracking and verification  
OCR and OCV  
Verification of correct insert/outsert  
Sortation for distribution

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### PALLETIZER

**Track:** Overall line productivity

**Trace:** Unique pallet identification, traceability of finished goods to raw materials

**Control:** Matching pallet to case code, and production output to customer demand

**Applications:**

WIP tracking  
Sorting and verification  
ID matching

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### FINAL INVENTORY, QA & SHIPPING

**Track:** Overall plant productivity of all lines used in recipe

**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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# MICROSCAN®

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