

# Vision Systems



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# Industries We Serve

& PRODUCTS WE SUPPORT

## FOOD & SNACKS

Dressings & sauces  
Dips & spreads  
Snack bars  
Pastries  
Crackers  
Candy  
Apple sauce  
Yogurt  
Ice cream  
Chips & pretzels  
Premade frozen foods  
Baby food & formula  
Sausage & patties  
Biscuits

## BEVERAGE BOTTLING

Energy drinks  
Soft drinks  
Water  
Juices  
Sports drinks  
Beer  
Wine  
Tea  
Coffee  
Milk  
Spirits  
Protein drinks  
Nutritional supplements  
Healthcare products

## MEDICAL DEVICES

Implantable devices  
Assembled devices  
Surgical tools  
Catheters  
Defibrillators  
Nebulizers  
Ventilators  
Pumps  
Syringes  
Scopes  
Prosthetics  
Test kits  
Lenses

PaCo

FSn

PCa

BvBo

PC<sub>2</sub>

MDe

CPr

## PACKAGING COMPANIES

Molded bottles  
Corrugate boxes  
Graphic packages  
Plastic bottles  
Glass containers  
Jars  
Caps & closures  
PET preforms  
Trays  
Cups & bowls  
Cans & bottles  
Boxes & cases  
Spray triggers

## PERSONAL CARE

Diaper & feminine care webs  
Tissues & paper towels  
Cosmetic packaging  
Toothbrushes  
Razors  
Lotions & creams  
Shampoos & conditioners  
Hair care products  
Soaps & sanitizers  
Mouthwash  
Sunscreen

## PET CARE

Dog food (wet & dry)  
Cat food (wet & dry)  
Cat litter  
Pet shampoos  
Canned food  
Bagged food  
Other topicals  
Dental care products  
Toys  
Grooming tools  
Training devices

## CONSUMER PRODUCTS

Batteries  
Hygiene products  
Small electronics  
Cleaning pads & wipes  
Surface cleaners & sprays  
Refillable cleaners  
Liquid detergent  
Dish detergent  
Detergent dose packs

We Help Inspect Items Used Every Day

# We are an Engineering Design Firm that Fabricates Vision Systems

## START WITH YOUR CONCEPT

We gather project details, develop a scope of work, discuss solutions, and develop a concept and action plan.

## PROJECT MANAGEMENT

We walk with you throughout your project, from idea to successful solution, each step is carefully project managed to achieve your goals on time and on budget.

## SPECIFICATION & PROCUREMENT

We specify and procure the correct components for optimal system performance through collaboration of our vision and automation engineers.

## SYSTEM PROGRAMMING & INTEGRATION

All inspection algorithms and automation controls programs are developed and tested by our engineers.

## STARTUP & COMMISSIONING

We install and integrate the complete system with the larger plant network, existing control systems, databases, and HMIs, testing before and after installation.

## ON-GOING SERVICES & SUPPORT

We provide training and onsite, or virtual, support from an in-house vision engineer.

## FEASIBILITY STUDY (PROOF OF CONCEPT)

We thoroughly test selections of cameras, lights, and the system arrangement in our vision lab to determine the feasibility and capability of your project.

## SYSTEM DESIGN

Once we begin the final system design, we utilize the results from the proof of concept, which will include mechanical and electrical design in-house.

## IN-HOUSE FABRICATION

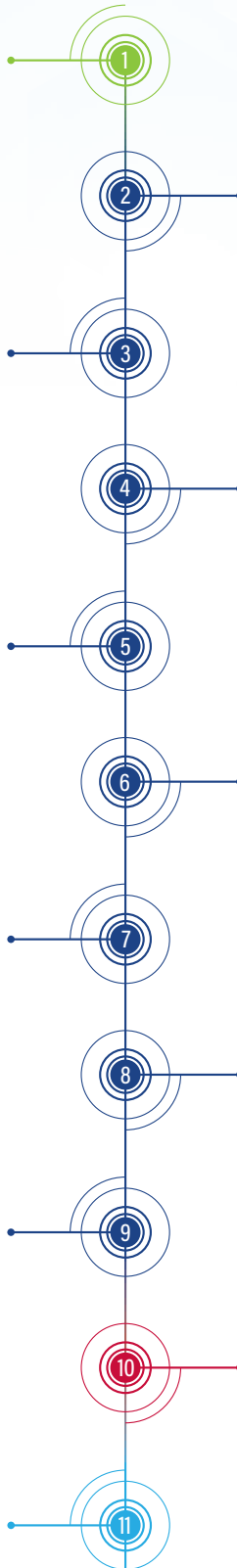
Custom fabrication and assembly of the vision system, including custom designed components, are completed by our skilled craftsmen and vision specialists.

## FAT/SAT

System is completely tested at EPIC's facility prior to shipment and ensures successful performance at installation.

## FINAL PRODUCT

We provide a successful, turnkey vision solution you can rely on.



# SYSTEMS & SOLUTIONS We Offer



You have complex process manufacturing issues... **We bring value at every step.**

## We Inspect

### BOTTLES



- Round bottles
- Oval bottles
- Bottles with handles
- Spray bottles



### POUCHES & TUBES

- Product pouches
- Single unit dose packs
- Dispensing & squeeze tubes
- Tubes with lids & caps



### ASSEMBLED PRODUCTS & DEVICES

- Batteries
- Medical devices
- Other assembled products

### CANS



- Metal cans
- Cans with pull-top lids



### JARS

- Glass jars with lids
- Plastic jars with lids



### TUBS

- Round tubs with lids
- Square tubs with lids

### CARTONS



- Square cartons
- Rectangular cartons
- Round cartons



### BOXES

- Product boxes
- Corrugated boxes
- Corrugated cases



### WEB PRODUCTS

- Paper products
- Plastic films
- Continuous materials

## We Look For

- Dot matrix & non-dot print (OCR)
- Lot, date, & bar codes
- Other critical codes
- Holes/voids
- Damaged edges
- Perforation presence & depth
- Splices
- Artwork defects
- Graphic position & alignment
- Registration marks
- Misaligned/mislabeled webbing
- 1D & 2D bar codes
- Missing/misapplied labels & lids

- Lid & label artwork match
- Cover & container match
- Artwork & recipe verification
- Dip tube insertion
- Bent dip tubes
- Damaged or absent closures
- 360 degree bottle inspection
- Bottle presence & orientation before filling
- Foaming detection
- Overfilling & leaking
- Spray trigger or cap orientation
- Damaged or vacant spray triggers



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