



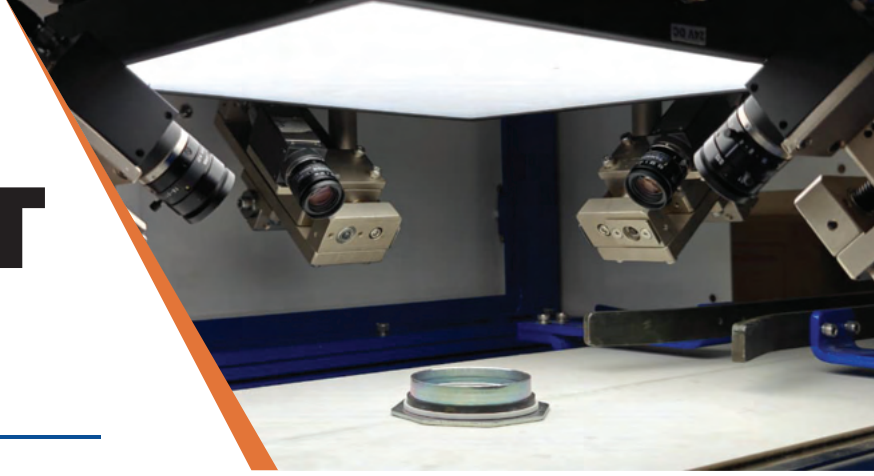
Technosoft Engineering

Innovation ★ Reliability ★ Flexibility

VeroNXT

VISION-BASED DEFECT DETECTION SOLUTIONS

POWERED BY AI/ML FOR PRECISION AND EFFICIENCY



Technosoft's NXT QualSure vision based defect detection system is versatile and adaptable, making it ideal for a wide range of industries. Its ability to process vast amounts of data in real-time allows for precise defect identification across diverse production environments, from complex manufacturing lines to intricate electronic components. The system can be customized to meet industry-specific requirements, such as identifying surface defects in manufacturing, detecting flaws in electronics, or spotting contamination and packaging errors.

IMPACT OF AI VISION INSPECTION SYSTEM

High Accuracy and Consistency

Minimal to No-manpower Required

Reduced Customer Compliants

Reduced Rework & Cost of Poor Quality

Faster Throughput & Improved Productivity

Improve Product Quality

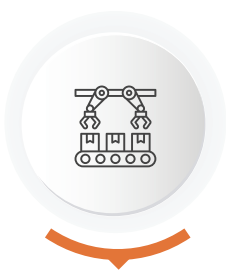
FEATURES



Quality Inspection
& Defect Detection



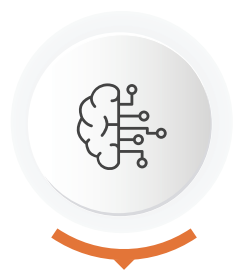
Dimensional
Verification & In-line
Measurement



Assembly
Completeness
Verification



Process Monitoring
Compliance



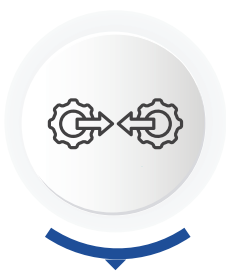
GenAI
Augmented



Open
Integration



Real-Time
Monitoring



Multi-Industry
Compatibility



Data Analytics
Dashboard

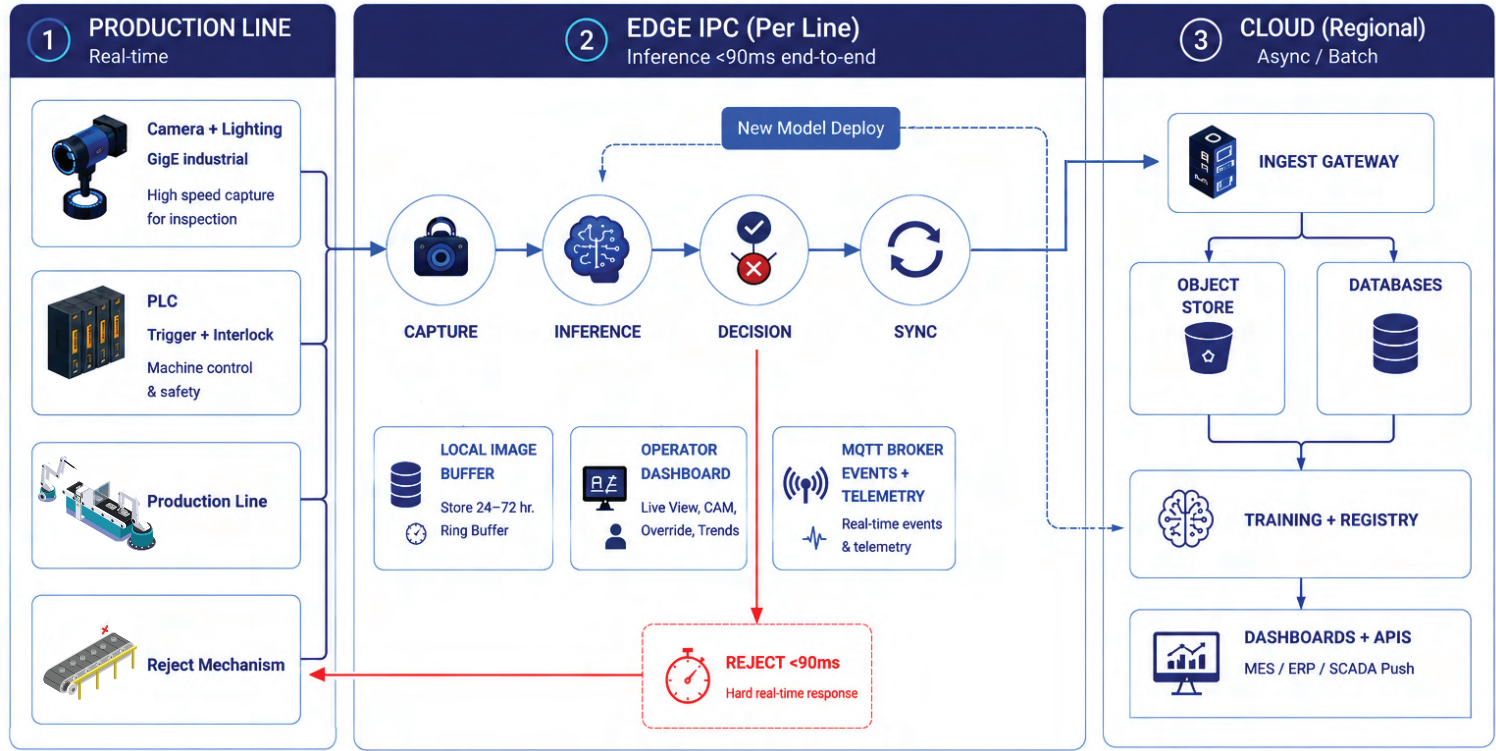


Cost
Effective



TECHNICAL ARCHITECTURE

From Camera Trigger to PLC reject signal in under 90ms, Cloud syncs in the background.



APPLICATION AREAS



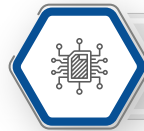
Automotive & Auto Components



Pharmaceuticals & Medical Devices



Engineering & Heavy Manufacturing



Electronics & Electrical



Discrete Manufacturing



Plastics & Injection Moulding



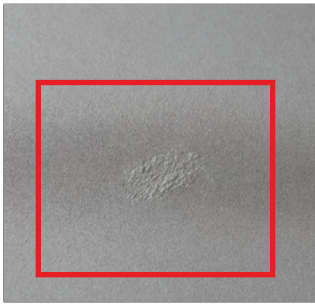
FMCG & Packaging



Textiles & Yarn Industry

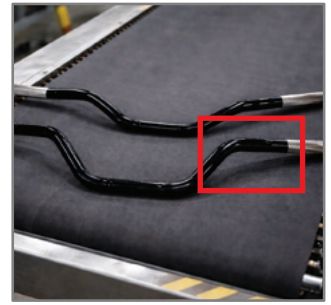


WHAT WE DETECT



Surface & Cosmetic Defects

- Scratches, dents, cracks, corrosion
- Surface discoloration, stains, finish variations
- Paint bubbles, coating defects, gloss inconsistency



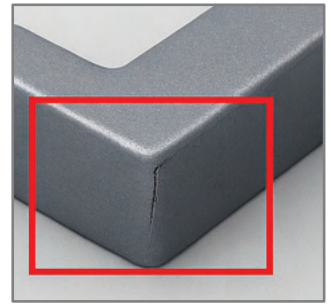
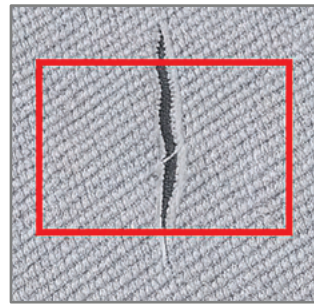
Dimensional & Shape Deviation

- Warpage or shrink in molded parts
- Deformed geometry and misalignment
- Out-of-tolerance dimensions



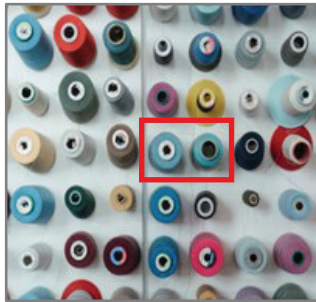
Missing / Misplaced Features

- Fasteners, gaskets, clips, wires, seals
- Assembly components missing or swapped
- Incorrect positioning, seating or orientation



Material and Process Defects

- Short shots, flashes & air pockets in molding
- Burrs, chips or stress fractures in stamped metal
- Cold joints, inconsistent bead lines, weld gaps



Color & Pattern Defects

- Shade mismatch or uneven dyeing (textile & plastics)
- Yarn pattern anomalies
- Contamination in color-sensitive production

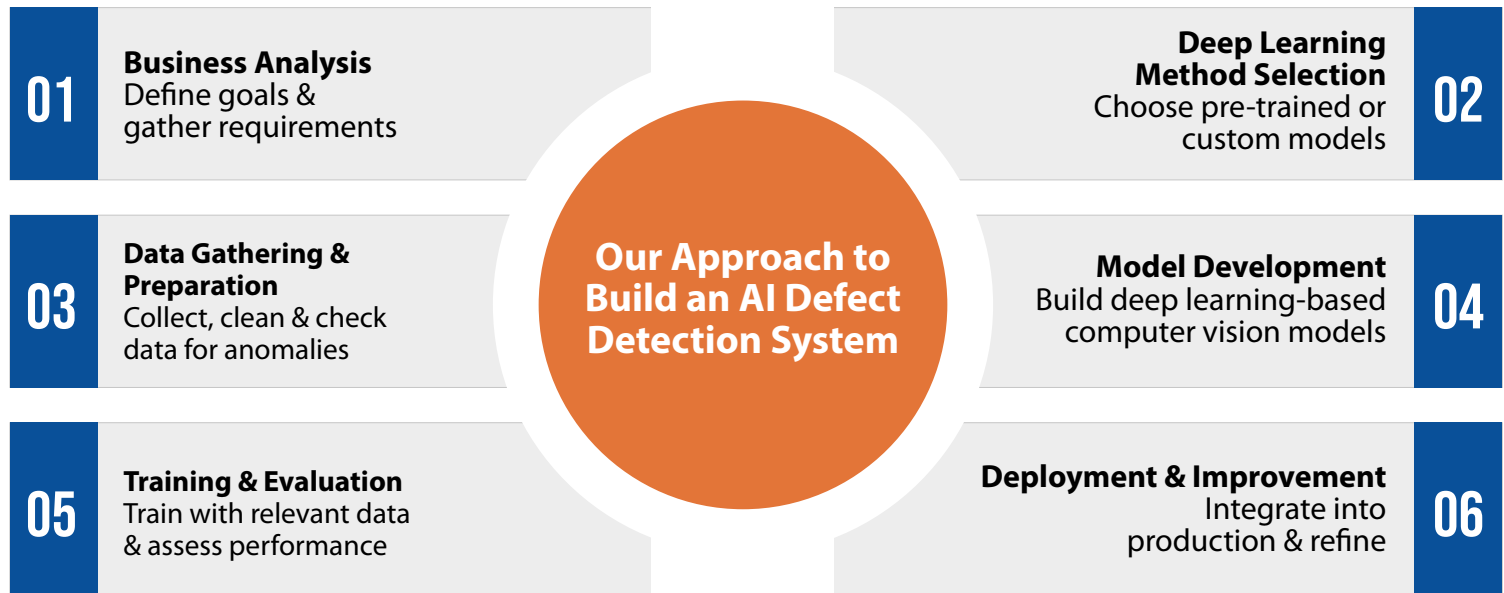


Transparency & Fluid Defects

- Sedimentation & suspended particles
- Bottle fill inconsistencies
- Clarity issues invisible to the naked eye



DEVELOPMENT PROCESS



ABOUT TECHNOSOFT

Technosoft Engineering is a global provider of Digital, Product, and Manufacturing Engineering services. We support industries like Transportation, Industrial Products, Process Industry, Medical Equipment, Energy, and Furniture, with over 1000+ engineers worldwide. Our five core services include Engineering, Consulting, R&D, Automation, and Content Management. We are committed to building a sustainable and eco-friendly future.



GLOBAL PRESENCE



Germany



UK



Netherlands



USA



Canada



India



Japan



Denmark