



-MATRIX AUTOMATION

Delivering next-generation industrial automation
solutions that improve efficiency, precision and productivity
for modern manufacturing environments.



10+

Years of
Industry Experience

Brochure

I-Matrix Automation provides advanced industrial automation solutions designed to improve manufacturing efficiency, productivity, and reliability. We specialize in PLC programming, control systems, special purpose machines, vision inspection systems and complete automation integration for modern industries. Our team combines engineering expertise with the latest technologies to deliver customized automation solutions that optimize production processes, reduce downtime and support long-term operational growth for our clients.

Smart Industrial Automation for Modern Manufacturing

Why Choose us?



Industry we serve



Core Services & Manufacturing Capabilities

Our Automation Services



Our SPM MANUFACTURING

- Assembly Machines
- Drilling & Tapping Machines
- Press Fit Machines
- Riveting Machines
- Welding Machines
- Leak Test Machines
- Sealent Dispenser Unit
- Pick and Place Robot
- Conveyor Systems
- Automatic Loading / Unloading Systems
- Hydraulic Power Pack
- Oil Filtration Unit
- Hydraulic Press Machines
- Customized SPM Solutions

Vision Inspection Systems



These systems offer applications including Defect Detection, Dimension Check, OCR / Barcode, and Presence / Absence.

- High Resolution Camera Inspection
- AI Based Defect Detection
- OCR / Barcode Verification
- Measurement & Gauging
- Traceability & Data Logging
- Pass / Fail Sorting

CNC Autoloader System



Designed to increase productivity, reduce cycle time, and improve efficiency.

- Pneumatic Part Loading
- Tray / Magazine Feeding
- Gantry Pick & Place
- Machine Tending
- Unmanned Operation

Poka-Yoke Systems



Designed to increase productivity, reduce cycle time, and improve efficiency.

- Presence / Absence Detection
- Wrong Part Prevention
- Barcode / QR Code Verification
- Assembly Validation
- Sensor Based Error Proofing
- Data Logging & Traceability

Assembly Station Solutions

- **Ergonomic Design:** Operator friendly layout for maximum efficiency.
- **Flexible & Scalable:** Easily adaptable to different products & processes.
- **Improved Quality:** Poka-yoke, vision & testing integration.
- **Integrated Control:** PLC, HMI & data logging for full traceability.
- **Increased Productivity:** Reduced cycle time with optimized workflow.

Key Features of Assembly Stations:

- Modular structure for easy reconfiguration
- Built-in testing, tightening, pressing & inspection
- Bin systems, conveyors & part feeders integration
- Safety features: E-stop, light curtains, interlocks
- Manual / Semi-Automatic / Fully Automatic options



Trusted Partners & Customers



Suppliers



Customers



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