



INTERNATIONAL AUTOMATION SOLUTIONS

CAPABILITIES

COMPANY CAPABILITY SHEET

MACHINE BUILDER AND AUTOMATION INTEGRATOR.

From the AI model to the welded frame, IAS designs and delivers the entire package: vision inspection, robot cells, high speed motion, UL 508A control panels and material handling, backed by an in house fab and machine shop.



■ **Built at IAS.** Engineered, fabricated, wired and programmed by one team, then run off on our floor before it ships.

50+ jobs

Machine builds, retrofits and support engagements delivered

130k sq ft

Manufacturing facility on 4.5 acres in Evansville, Indiana

6 disciplines

Vision, robotics, motion, panels, handling and fabrication under one roof

UL 508A

Panel shop, UL file E549156, qualified MTR on staff

FOOD PACKAGING ♦ CO-PACKERS ♦ DISTILLING & COOPERAGE ♦ MUNICIPAL WATER ♦ PROCESS OEMS

WHAT WE DO

Core disciplines

Six things, done by the same people, on the same job number. The value is not in any one of them. It is in not having to stitch six vendors together.

AI vision inspection



Deep learning inspection engineered onto your existing line: registration, triggering, reject handling and operator HMI. The full IAS Osprey Inspection System lives on its product sheet.

Robotic integration



Complete cells: robot, end of arm tooling, guarding, safety circuits and commissioning. Tending, pick and place, palletizing, vision guided motion.

Motion engineering



Servo systems, electronic camming and gearing, registration and coordinated multi axis control for complicated, high speed lines.

Panels, UL 508A



Industrial control panels designed, wired and labeled in our own UL 508A shop, from a single enclosure retrofit to full line control.

Handling equipment



Conveyors, transfers, diverts, accumulation and reject handling, designed around your product and wired into line controls.

Fabrication



A full metal shop in house: welding, machining, waterjet cutting and sheet metal brake forming. Guarding and fencing, frames, fixtures and complete industrial systems, not just parts for our own machines.

PLATFORMS AND STANDARDS

Engineering capability

The platforms and standards we work in, listed here so you can check them against your plant standard up front.

- **Controls and PLC.** Allen-Bradley ControlLogix, CompactLogix and GuardLogix in Studio 5000, AutomationDirect BRX, and Siemens. We are platform agnostic and build to whatever your plant standard specifies.
- **Machine safety.** Risk assessment to ISO 13849, Category 4 and PLe circuits, safety PLCs, area scanners, guard locking, safe torque off.
- **Motion and drives.** Kinetix servo axes with camming and registration, PowerFlex lineups from fractional to 250 HP, encoder tracked product flow.
- **Vision and AI.** Deep learning training and runtime toolchain, GPU inference, registration and triggering proven at line speed, and camera, optics and lighting selected per product and application.
- **HMI, SCADA and data.** PanelView and FactoryTalk View, AVEVA InTouch on industrial PCs, recipes, alarming and audit logging.
- **Networks and I/O.** EtherNet/IP, managed switching, IO-Link distributed I/O out on the machine instead of copper home runs.
- **Electrical and panels.** AutoCAD Electrical schematic sets, UL 508A calculations and labeling, NEMA 4, 4X and 12 builds, VFD cabinets to 400 A feeds, as built documentation.
- **Mechanical design.** Autodesk Inventor and Vault, machine frames, guarding and conveyance, combustion control and hazardous area experience.

WHERE WE WORK

FOOD MANUFACTURING & CO-PACKING

DISTILLING & COOPERAGE

MUNICIPAL WATER & WASTEWATER

METAL & COMPONENT MANUFACTURING

PLASTICS & EXTRUSION

PROCESS EQUIPMENT OEMS

ENTRANCE & SECURITY SYSTEMS



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THE BUILD FLOOR

Fabrication and assembly

IAS builds in a fab and machine shop alongside the panel shop: welding, machining, waterjet cutting and sheet metal brake forming. Because of our capability, most of our components are manufactured in house, and every machine is assembled and run off here before it ships, which gives us more control of schedule and quality.



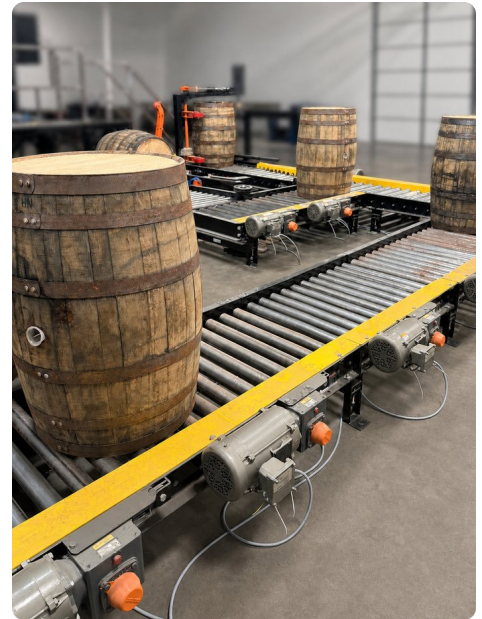
WELD & FORM

Frames and fixtures cut, formed and welded in house.



PANEL SHOP

Stainless operator stations wired, labeled and integrated in our UL 508A shop.



CONVEYANCE

Handling built around the product, wired into the line.



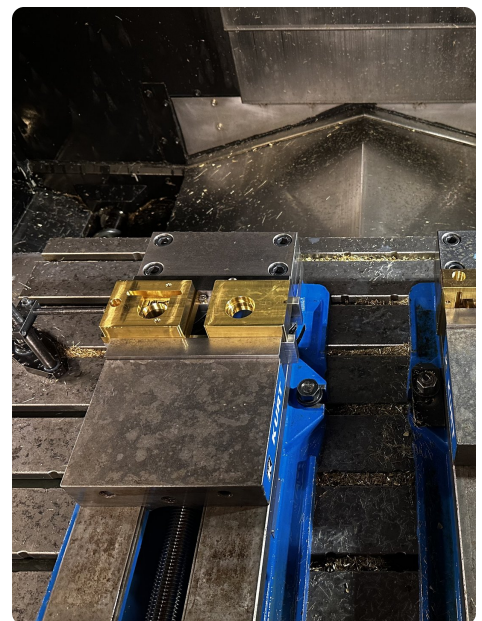
CONTROLS CRAFTSMANSHIP

Every wire numbered, every panel labeled, as built documentation delivered on every job.



MACHINE FRAMES

Aluminum extrusion or welded steel, sized to the job, from a mobile vision frame to a full line.



MACHINING

Components and fixtures cut in the machine shop beside the fab floor.

Photographs show IAS equipment, panels and machine shop work on our floor in Evansville, Indiana.



WHAT WE TAKE ON

Service calls, retrofits, machines and complete lines

Lines, cells and machines

Custom machines, robot cells and complete lines: design, controls, safety, FAT, installation, SAT and training, delivered against written acceptance criteria.

Panels and retrofits

UL 508A panel builds, brownfield conversions, drive and PLC platform migrations, and process control retrofits on running equipment.

Standing support

Remote and onsite controls support, from single session remote fixes to multi week commissioning.

IAS Osprey THE FLAGSHIP INSPECTION SYSTEM

We automate the visual inspections people can do but conventional machine vision cannot: the defects that hide in glare, texture and normal product variation. Models are trained on your product and wired into the machine, so every verdict is acted on at line speed.

SEAL & CLOSURE

PUNCTURE & TEAR

DELAMINATION

SURFACE DAMAGE

CONTAMINATION

LABEL & PRINT

MISALIGNMENT

ASSEMBLY ERRORS

WHY IT MATTERS

Single source accountability

IAS delivers design, fabrication, controls, vision and support under one purchase order, with accountability that stays in one place for the life of the machine. Catch rates are quoted per application after validation, not from a brochure.

RECENT WORK

Selected projects

- **Coiled iron hoop line, for a bourbon cooperage.** Press and straightener skids integrated under new controls and safety rated PLC hardware, run off at IAS against 30 piece capability studies on three hoop styles at FAT, then delivered for site acceptance.
- **Standing controls support.** Roughly twenty remote and onsite engagements for distilling and cooperage plants in 2025 alone. Customer names stay out of print and are shared in conversation.

UL 508A panel shop, UL file E549156, with a UL qualified Manufacturer Technical Representative on staff. Rockwell Automation OEM Partner Program participant with a licensed Studio 5000 and FactoryTalk toolchain. Autodesk Inventor and Vault design stack. 130,000 square foot manufacturing facility on 4.5 acres at 2138 N 6th Ave, Evansville, Indiana.

**IAS-IN.COM**

The IAS Osprey product sheet, the phased process and the demonstration set.

WHERE TO START

If your operators can see the defect, but conventional machine vision cannot reliably detect it, show it to IAS. Call 812-213-0557 or write info@ias-in.com.