Engineering Efficient Palletizer Systems with EAD

Discover how our engineering, automation, and project management expertise transforms palletizer systems to deliver cost savings, enhanced accuracy, and a streamlined operation. From designing tailored solutions to managing complex installations, EAD is your trusted partner in achieving operational excellence.

Palletizer systems play a crucial role in modern manufacturing environments by automating the process of stacking products onto pallets. Organizations that invest in well-designed palletizer systems that align with the unique requirements of their facilities and products can achieve significant efficency gains and cost reductions while meeting their safety commitments.

EAD is your resource for engineering, automation, project and construction management expertise for improving your palletizer systems. We help you design and implement custom palletizer solutions that reduce labor costs, increase efficiencies, and ensure consistent accuracy and packing uniformity. We have experience in a full-range of palletizing systems including robotic, top-down conventional, and bottom-up systems.

WHY OUR EXPERTS

Controls & Automation

EAD controls and automation experts have long careers providing palletizer solutions for clients within the food and beverage, life sciences, consumer goods, and parcel / logistics industries. We are skilled in a variety of popular vendors and systems including Rockwell Allen-Bradley, ABB, Schneider, Siemens, and many more.

We are experienced at integrating multiple palletizer and packaging systems and related applications:

- Palletizer systems and cobot programming & troubleshooting
- Safety systems design for palletizers (light curtains and other machine safety additions)
- Palletizer systems repair and maintenance
- Systems design tailored to streamline packaging processes
- Palletizing systems installation, start-up, and commissioning
- Design of Cognex camera-based vision systems for palletizers to automate product identification and packaging selections
- Software communications systems interfacing

Project & Construction Management

EAD project and construction managers are leaders who oversee diverse teams involved in the design, upgrade, and replacement of packaging and palletizer systems and related machinery. We ensure the on-time and in-budget execution of palletization projects. Projects we manage include the following:

- Removal and replacement of palletizers and finished goods systems
- Collaboration with conveyor vendors and OEMs to manage product line upgrades
- Oversee the design of packaging and palletizing systems including those with sort, case conveyors, case packers, and stretch wrappers
- High-level design of preliminary systems layouts
- Cost, schedule, and budget development for palletizing systems projects
- Construction activities and installation of robotic palletizing systems
- Specifying equipment and control systems
- AGV installations in warehousing spaces

PROJECT EXPERIENCE OVERVIEW

Industrial Control Panels

EAD designs and fabricates control panels in our fully in-house UL508A control panel shop for use in unitizer / palletizer applications. Our client list spans Fortune 500 companies in multiple industries.

Controls & Automation

EAD has a multi-year relationship with one of the world's largest pharmaceutical companies. At their facility we have embedded engineering, automaton, and project management professionals who serve as an extension of their team. Our

engineers help the manufacturer cut costs and increase efficiencies by integrating their automated robotic pick-and-place systems as a warehousing solution for their cartons, palletizers, and trays.

Project Management & Construction Management

EAD managed a $1.2MM FANUC robot refurbishment project that involved testing, grease sampling, and assessing 19 FANUC robots at the facility of a household-name food and beverage manufacturer. Our project management team developed a plan for prioritizing the refurbishment of robots that took into account the manufacturer's every project need, from procurement, to rigging, to coordinating contractors.

We managed a 4-year, $16MM palletizing upgrade project for a leading cereal manufacturer. We led an integrated team responsible for developing the project cost and schedule for major modifications to existing case-handling systems and unitizers. We also coordinated the successful installation of four unitizer/palletizer systems, major modifications to the sortation deck, and the replacement of case conveyors.

MORE PROJECT EXAMPLES

WAREHOUSING AUTOMATION

Fortune 500 Food Manufacturer

PROJECT TIC $7-9 Million

Led an integrated team responsible for developing the cost, schedule, and scope for modifications required to support packaging lines on multiple levels of a facility. Modifications were made to the conveyors, a Hartness system, sortation system, and palletizer systems.

LINE BAGGER REPLACEMENT

Fortune 500 Food Manufacturer

PROJECT TIC $1.5 Million

Developed long-term case handling solution to help client repatriate cases and meet annual $8MM repack cost savings objectives. Despite logistical and technical challenges, we simultaneously maintained a 24/7 operation at full capacity while upgrading the sortation system, as well as replacing 25-year-old unitizers and more than 75% of the case handling system.

PACKAGING MODIFICATIONS

Household Name Food & Snacks Manufacturer

PROJECT TIC $30 Million

Led engineering for major packaging modifications at client's facility. Relocated packaging equipment used to produce oatmeal packets (single flavor and variety pack) to make room for a new nut filling line including a container depalletizing system, finished tray conveyor system, and robotic palletizing system.

CONSTRUCTION MANAGEMENT FOR ROBOTIC PALLETIZING SYSTEM INSTALL

Fortune 500 Food & Beverage Manufacturer

PROJECT TIC $1.5 Million

Responsible for all project construction, installation of robot palletizing system and 4,000 feet of conveyors. Developed cost and schedule and ensured performance of packaging projects. Coordinated with multiple equipment vendors to ensure proper systems installation.

ROBOTIC PALLETIZER UPGRADES

Fortune 500 Food Manufacturer

PROJECT TIC $3.4 Million

Led integrated team responsible for the cost, schedule, performance and installation of major modifications to existing dual pack conveyor system and robot palletizer. Replaced 1,400 ft. conveyor and installed new robot.

AGV INSTALLATION AND AUTOMATION OF WAREHOUSE SPACES

Fortune 500 Food & Beverage Manufacturer

PROJECT TIC $2.5 Million

Responsible for the installation of a warehousing management automated guided vehicle system (AGV) that handled unit loads at a large storage facility. Loads were stored in the warehouse or staged directly to shipping lanes for transfer to another storage location. Effort involved coordinating with multiple vendors and the integration of many systems to successfully execute. Coordinated the operations and logistics to enable the complete automation and mapping of the warehouse.

10,000+ PROJECTS, 1.2 MILLION+ HOURS OF EMBEDDED SERVICES SINCE 2001

Unlock cost savings, improve accuracy, and streamline operations with EAD's unparalleled expertise in engineering, automation, and project management.

EAD is your trusted partner — contact us *today*!

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