Logistics Automation
Industrial Grade Material Handling
Your partner for integrated solutions.

JR Automation designs, builds, and integrates advanced logistics solutions for customers all over the world.

INNOVATE. Each project has its own unique set of challenges and opportunities and, like you, we thrive on bringing fresh thinking, creative applications, and efficient solutions to everything we do.

COLLABORATE. Efficient systems are composed of highly-integrated machines. That’s the same approach we take to our partnerships: leveraging our teams’ knowledge and resources to perfectly complement your needs.

CUSTOMIZE. Each application is unique. We engineer our systems to solve our customers’ unique challenges, benefiting from 40 years of automation experience.

INTEGRATE. Bringing it all together, our team can incorporate new and existing systems and software with current infrastructure to create integrated material handling systems that are easy to control and run.

SUPPORT. Our talented service engineers understand that you can’t afford downtime. That’s why we offer top-level support 24 hours a day, 365 days a year. We make it our mission to keep your equipment running long after installation.

32% Nearly one third of employees work in engineering

600 Combined years of project management experience

1980 Our founding year, giving us four decades of experience

Logistics Experience

From inbound material to line side delivery or outbound shipments, our expertise in material handling allows us to create innovative automation systems to meet our customers’ specific needs.

JR Automation understands logistical challenges can be overwhelming. Our experience in robotics, vision, and mobility automation enables us to identify which solutions make the most sense for your situation and customize them for your specific needs. We have experience in both warehouse and manufacturing spaces, and we can provide different levels of solution complexity.
Our Methods

Our focus on efficiency doesn’t stop at our solutions.

Our extensive background of solutions means we start each project with a strong foundation of what works and what doesn’t. This allows us to spend more time focusing on how to optimize solutions for you and working jointly with your team to maximize your return on investment.

DESIGNED FOR DEPLOYMENT

JR Automation’s signature Designed for Deployment principles significantly reduce cost, lead time, and installation time for volume deployments of systems. We assemble and verify each subassembly individually and then kit systems for deployment at your site, reducing time and cost, while still ensuring rigorous quality control.

Designed for Deployment systems are built with thoughtful consideration of mechanical assembly, electrical final assembly, modularity, and shipping efficiency. The result is a 70% reduction in installation time and reduced manufacturing lead times.

SYSTEM SOLUTIONS

Streamline logistics operations with automation.

Our flexible logistics solutions maximize efficiency in critical areas.

We see areas in warehouse and manufacturing spaces burdened by time-consuming, repetitive processes as opportunities. Automated solutions can reduce manpower, increase operation speeds, reduce or optimize facility space, and even improve task accuracy. Some of the areas that benefit most from automation are depalletizing and palletizing, storage and retrieval of product, and robotic sortation.

The following pages depict some of JR Automation’s platforms for optimizing these areas of warehouse and manufacturing logistics. The models shown are example configurations of each system, but they can be customized and designed specifically for operational needs in every industry, from e-commerce and logistics, to manufacturing and pharmaceutical.
Depalletizing and Palletizing

Flexible platforms configured for your application.

- Tote, case, and pail palletizing and depalletizing
- Robotic vision-assisted palletizing placement
- Mixed case depalletization powered by machine learning
- Supervised autonomy package available for exceptions handling
- 4-axis robot, 6-axis robot, and gantry platforms

Available options:
- Automated wrapping or banding
- Slip sheet handling
- Label placement
- Pallet health check

CLOSED CELL ARCHITECTURE

- Multiple pallet bays for undercover pallet exchange
- Roll up safety doors for limited operator exposure and increased robot speeds
- Available with multiple infeed/outfeed lanes to handle different products

OPEN CELL ARCHITECTURE

- Allows for maximum flexibility and number of pallets
- Intelligent Safety System allows for an associate to exchange pallets on one side of the cell while the robot continues to work on the other side
- Configurable for different combinations of pallet locations and input/output lanes

AUTOMATED PALLET EXCHANGE

- Automated pallet stacking or de-stacking
- Optional pallet health check
- Configurable for multiple input and output lanes
ASRS & Goods to Person
Intelligent storage designed for your unique challenges.

JR Automation’s storage and retrieval systems allow you to organize your products and inventory while optimizing valuable floor space. Our solutions are customized to meet the most challenging storage and retrieval applications for both distribution and just-in-time kitting and sequencing.

ROBOTIC ASRS

- Industrial grade reliability using your preferred robot brand
- Ultimate flexibility for multiple storage container types
- Easily reconfigurable as your process or inventory changes
- Available secondary part or tote inspection
- Able to handle large and specialty parts with customized end of arm tooling and racking
- Provides fast automated storage and retrieval for bins, cases, trays, and containers
- Customizable lengths and number of cranes
- Optional smart picking stations for goods to person and kitting operations
- Industrial grade reliability using your preferred robot brand
- Ultimate flexibility for multiple storage container types
- Easily reconfigurable as your process or inventory changes
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MINI-LOAD ASRS

Our custom solutions can save you time and money when you want to add storage and your existing systems can’t be modified or you have high velocity items that you want to keep separate from your normal storage locations. If you are growing and don’t want to start over to increase your automated storage needs, our engineers will work with you to help meet your storage expectations without incurring major costs by building new.
RFSS - Robotic Sortation System

Smart, flexible sortation.

A paradigm shift within the warehousing and eCommerce domains is taking place. Smaller footprint buildings are being built or repurposed to get closer to customers. Combined with the difficulty to find resources to fill positions, you have the perfect reason to look for new, efficient methods to sort items with robotics.

FEATURES

- Customizable to fit your project requirements.
- Systems are modular and can be placed in infinite configurations—no need to run in a straight line.
- One system can run from 500 units per hour (UPH) up to 1500 UPH. Purchase as many systems as you need for the required output, fully customizing your sortation.

RFSS ROBOTIC SORTATION SYSTEM

Replace miles of conveyance and take back fulfillment floor space with the RFSS Robotic Sortation System. This compact, modular sorter is capable of handling items of any shape—making it the perfect solution for any industry.

FEATURES

- Can be combined with automated box on-demand systems to reduce resources significantly
- Target throughput, 300 packages per hour

BENEFITS

Sort at rates from 500 UPH to 1500 UPH, per put wall, with significant resource reduction.

AUTOMATED CROSS-DOCKING

Automate and sort your products for cross-dock shipping with fewer resources and a much smaller footprint with RFSS.

FEATURES

- Can be combined with automated palletizing to sort your product and prepare it for shipping automatically
  - Can have multiple pallet locations for different end points
  - Optional automated pallet handling
- For use in cross-docking, as well as inbound sort applications
- Totes, pallets, pails – choose the storage devices that work best for your application

BENEFITS

Sort at rates from 500 UPH to 1500 UPH in approximately 7000 ft² of floor space. If one system stops, your operation still sorts at 13,500 UPH—a rate difficult to achieve with traditional sorters.
GLOBAL REACH

JR Automation has grown to include companies around the world that align with our values, culture, and vision. Wherever your project takes you, we have expertise where you do business.

**Besançon, France**
Custom designed automation equipment for the automotive, consumer, and general industrial industries.
jrautomation.com

**Cluj-Napoca, Romania**
Designs and builds custom automation solutions for European customers in the consumer and automotive markets.
fsaromania.ro

**Singapore**
Leading provider of high precision automation equipment, primarily for manufacturing consumer electronics and medical devices.
jrautomation.com

**Ogden, Utah, USA**
Lean automation engineering for robotics, assembly equipment, material handling, testing and inspection, motion control, and amusement rides and attractions.
setpoint.com

**Auburn Hills, Michigan, USA**
A leading full service automation solutions provider to the automotive industry, including design, advanced robotic systems, and software.
esysautomation.com

Start building your custom solution today: solutions@jrautomation.com