
LIFE SCIENCES AUTOMATION

A Hitachi Group Company



JR AUTOMATION®



WE HAVE AUTOMATION DOWN TO A SCIENCE

When automation is applied to life sciences, it maximizes efficiency, benefits society, and changes lives.

With decades of specialized life sciences expertise, JR Automation leverages our experience and knowledge to deliver innovative solutions that give you the power to bring new products to market faster, increase throughput and quality, ensure compliance and validation, and drive standardization across multiple locations and teams.

DIGITALLY INFORMED AUTOMATED SOLUTIONS

From planning to operations, digital connections to aftermarket support, we understand your challenges and account for your unique manufacturing processes to optimize outcomes as a team. Our seamless blend of automation tools and digital technologies creates solutions on the cutting edge of innovation.

PLAN

We co-create a solution together that addresses product production and performance improvement needs while maximizing manufacturing efficiencies and removing unexpected risks.

OPERATE

With the right advanced automation equipment and digital technologies, we develop solutions that integrate holistically with your production floor, capitalizing on smart manufacturing advancements and data collection to keep in step with preexisting operations and workflows.

BUILD

We engineer and integrate the best automation equipment to meet your needs and budget, leveraging digital technologies to test, analyze, and enhance performance while improving outcomes.

MAINTAIN

We partner with you throughout your project's life span, providing ongoing support to ensure you receive maximum performance for your investment and for your future.

LET'S MAKE SOMETHING NEW

Early collaboration ensures we understand your unique manufacturing and distribution needs to collectively arrive at the best path forward, together.



A COMPLEX & EVER-EVOLVING INDUSTRY CALLS FOR QUICK & INNOVATIVE ACTION

Our validation experts tackle the mountain of paperwork needed to win FDA approval and bring your products to market.

We have decades of experience partnering with medical and life science companies on hundreds of different products.

From the smallest catheter to the largest vaccine system, we've provided specialized solutions across the life sciences spectrum.

PROCESS EXPERTISE

In this highly regulated industry, you're tasked not only with reducing cycle time and cost, but also with increasing quality and output. At JR Automation, our innovative and specialized team partners with you to navigate those challenges and transform your processes.

Adaptive Vision-Guided Robotics

Continuous Laminating

Digital Converting

Gravimetric and Volumetric Dispensing

Laser Ablation

Liquid Filling

Nano Dispensing

Picosecond Laser Cutting

Product Labeling and Packaging

Surface Treatment

Ultrasonic, RF, and Laser Welding

APPLICATIONS EXPERTISE

07

DIAGNOSTIC PRODUCTS

Lateral Flow Assembly
Point of Care
Rapid Immunoassay

GENERAL HOSPITAL & PHYSICIAN DEVICES

Cannula Assembly
Hospital Beds
Infusion Sets
Medical Waste Management
Personal Protection Equipment
Surgical Instruments and Tools

HOME HEALTH & CONSUMER DEVICES

Blood Glucose Monitoring
Contact Lenses
Hearing Pods
Molded Lenses
Wearables

IN VITRO PROCESSING

Gender Sorting Eggs

PHARMACEUTICAL

Biochemical and Cell-Based Drug Discovery
Biotechnology Products
Drug Testing
Fulfillment
Inhalers
Injectable Treatment
IV Catheters
Nasal Sprays
Oral Solid and Liquid Treatment
Prefilled Delivery Devices
Transdermal Patches
Vaccine Systems

ADDITIONAL PRODUCT CATEGORY EXPERTISE

Animal Health
Nuclear Medicine
Emergency Care Products
Lab-on-a-Chip
Dental Devices

TECHNOLOGY & INTEGRATION EXPERTISE



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ASSEMBLY

Dispensing (including gravimetric, volumetric, and nano)

Dose Counting

Picking and Placing

Sorting

Build-to-Print

DIGITAL SOLUTIONS

Machine Health Monitoring

Software Capabilities

Supply Chain Management

Warehouse Tracking

HIGH-VOLUME MANUFACTURING

Build-to-Print

Build-to-Reference

Component Cost Reduction

Design Enhancements

Kit Construction

Lean Process

One-Piece Flow

Proof of Concept

Scalable Output

System Simulations

Value Engineering

INSPECTION & TESTING

3D Laser Testing

Acoustic and Vibration Testing

Dimensional Inspection

Electrical Inspection

Hydraulic Inspection

Leak Testing

Lot Traceability

UV Vision Inspection

LASER APPLICATIONS

Ablation

Ultrasonic, RF, and Laser Welding

Picosecond Laser Cutting

MATERIAL HANDLING & MOVEMENT

AGV/AGC Integration

Case Packing

Centrifugal Feeding

Collaborative Robotics

Conveyor Integration

Feeling Integration

Flex Link Conveyors

Large Systems Conveyors

Linear Servo Gantry

Micron-Level Part Placement

Palletizing/Depalletizing

Robotic Integration and Handling Solutions

Product Labeling and Packaging

Web Handling and Converting

Surface Treatment

AUTOMATED SOLUTIONS TO GET YOU FURTHER, FASTER

Save time, gain efficiency, maximize floor space, ensure quality, and monitor performance with turnkey solutions and proven work cells.

WORK CELLS

JR Automation leverages firsthand expertise and project experience to create automated and semi-automated work cells that work as the foundations for customer capabilities and needs.

Manufacturing and Assembly
Platforms and Custom Solutions

Packaging Platforms and
Custom Solutions

Inspection and Testing Platforms
and Custom Solutions

FLEXCHASSIS® MODULAR AUTOMATION SYSTEM

Multiple configuration options.

Reduces design and build time.

Delivers exceptional speed-to-market.

Standardized components link mechanically and digitally.

A growing catalog of predesigned assembly and process stations.

Reduces overall project risk.

Adaptable to many platforms:
Continuous Motion, Indexing, Benchtop,
Power and Free.

Scalable from early process development to full production.



2,000+

**TALENTED
EMPLOYEES**



240+

**AREAS OF
TECHNICAL
EXPERTISE**

2M+

**SQUARE FEET
OF BUILD SPACE**



ONE TEAM FOR ANY CHALLENGE EVERY TIME

Partner with JR Automation and you get a single, dedicated team to collaborate with throughout the life of your project. Our people are diverse in skill sets, with more industry experience than any other integrator.

We co-create solutions with our customers, embrace technology and learning, and value experience from a range of industries—enabling us to tackle any challenge that comes our way.

QUALIFICATIONS

GAMP5 Compliance

A3 Certified Integrator

Authorized FANUC
Systems Integrator

Authorized ABB
Robotics Integrator

Certified KUKA Integrator

Yasakawa Premier Partner

Rockwell, Siemens,
Hitachi, Mitsubishi, and
Omron PLC Experience

QMED Qualified Supplier

ISO 9001:2015

ITAR Certified Facilities

NORTH AMERICA**MICHIGAN**

Holland (HQ)
Stevensville
Auburn Hills

SOUTH CAROLINA

Liberty
Greenville

TENNESSEE

Nashville

UTAH

Ogden

EUROPE**FRANCE**

Besancon
Valence

ASIA**SINGAPORE**

Singapore

THE BEST AUTOMATION ANYWHERE

With 40+ years of intentional growth, JR Automation has the most experienced team of advanced automation integrators across industries, applications, and capabilities. Plus, our true global reach and ample build space mean we are ready and equipped to design and scale the ideal solution for you.

20+

FACILITIES ACROSS THREE CONTINENTS

JR AUTOMATION®

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LEARN MORE

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