BUILDING AUTOMATION FOR FLEXIBILITY AND SPEED TO MARKET





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- Expert in controls and mechanical engineering, operations leadership, corporate strategy, and automation
- 35 years industry experience in Automotive,
 Industrial Automation and Medical industries
- Leads organization's market focus with medical customers and validation efforts





Customers Concerns Today

- Supply chain issues
- Labor shortages
 - Available candidates
 - Skilled candidates
- Quality issues
- Remaining competitive

Remaining Competitive

- Quicker to market
 - Our Supply Chain is "stocking" high volume components where possible to help mitigate
- More flexibility
 - Standard products help reduce delivery time and allow us to offer lower price
- Higher volume
- Higher quality
 - Focusing on Continuous Improvement of our internal processes and procedures help minimize and/or eliminate quality concerns
 - We focus on total product solutions and value add for our customers



Choices for Automation

Pre-Designed System



OR



Custom Automation



Turnkey Solutions for Automation

Pre-Designed **System Foundation**



Custom Automation Expansions



Turnkey Solutions

Why Use Turnkey Solutions?

Get Into Production Fast

- Pre-designed modules cut initial concepting, design and build time
- Standardized components for lower risk and reduced cost implementation
- Predesigned assembly and process stations
- Easily scalable from pilot line to commercial production



Turnkey Solutions Work for Many **Industries**







FOOD AND BEVERAGE



AEROSPACE



E-MOBILITY



BATTERIES AND ENERGY



INDUSTRIAL



AUTOMOTIVE



Case Study

FlexChassis Modular Automation Platform

A proven system based on standardized, pre-designed modules that can be configured to meet a very wide range of manufacturing objectives for assembly and process applications.

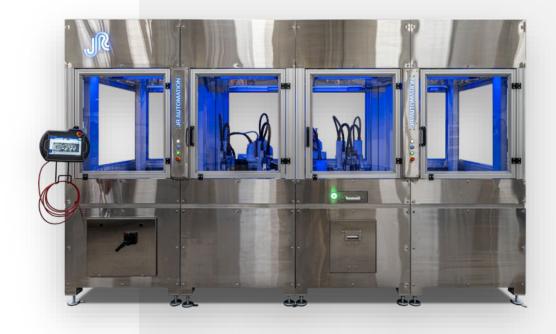


Features & Benefits

Modular Design and Operational Flexibility

- Chassis accommodates a very wide range of assembly and process stations
- Full digital control and process monitoring
- Linear motors for speed, accuracy and operational flexibility
- Maintains very high OEE





Features & Benefits

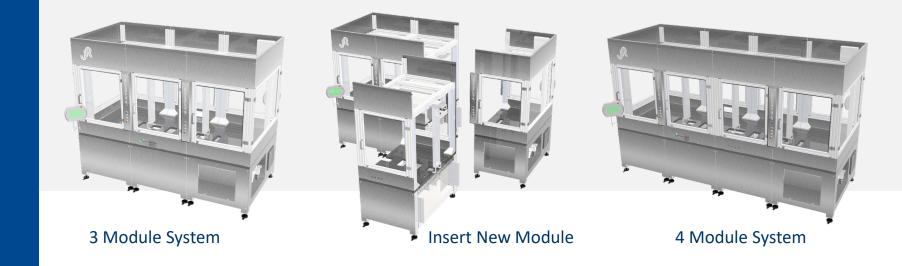
Optimal Fast Production Changeovers

- Accommodates mixed manufacturing, product updates, emergency orders
- Standardized modular components are easy to reconfigure and reconnect
- Linear motors allow for multiple configurations through human machine interface (HMI) recipe selection



FLEXCHASSIS

Modular **System Components**





Easily reconfigurable to desired length and geometric complexity by assembling multiple modules

- Custom configurable top plate allows use of multiple prime movers
- T-tracks capable for infinite geometric adjustability
- The module "roof" area can be used to house station process controls or be used for installing overhead air purity hardware

FLEXCHASSIS

Manufacturing **Operational** Capabilities



POSSIBLE PROCESS STATIONS

ULTRASONIC WELDING

SNAP FIT

ADHESIVE APPLICATION

DECORATING

HEAT SEALING

HEAT OR ULTRASONIC FOIL SEALING

LASER TACKING

JOINING MATERIALS

LASER ABLATION

LASER OR ULTRASONIC CUTTING

REAGENT FILL/SEAL

DRUG HANDLING





FLEXCHASSIS

Compliance, Industry Benchmarks and Certification Information

Clean Manufacturing Capabilities

- Meets various ISO Classes based on configuration required
- HEPA filtration
- Stainless steel construction for washdown or wipe down (for aseptic and hygienic applications)











Questions?

Connect with us to learn about our modular automation platforms for your operations.

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