

# AUTOMATION & ROBOTICS SOLUTIONS

## ABOUT US

ARI is a global engineering firm offering Engineering Services and Advanced Solutions in the fields of **Automation, Digitalization, Electrification & Autonomy (ADEA)**. We offer an extensive range of Industrial Automation Solutions to our customers from diverse Industries.

## INDUSTRIES



Aerospace & Defence



Automotive



Fast-Moving Consumer Goods



Heavy Equipments



Logistics

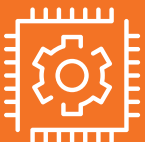


Pharma



Process

## ARI ADVANTAGE



Technologically Advanced



100% Production Throughput



Efficiency Increase by 30% or more



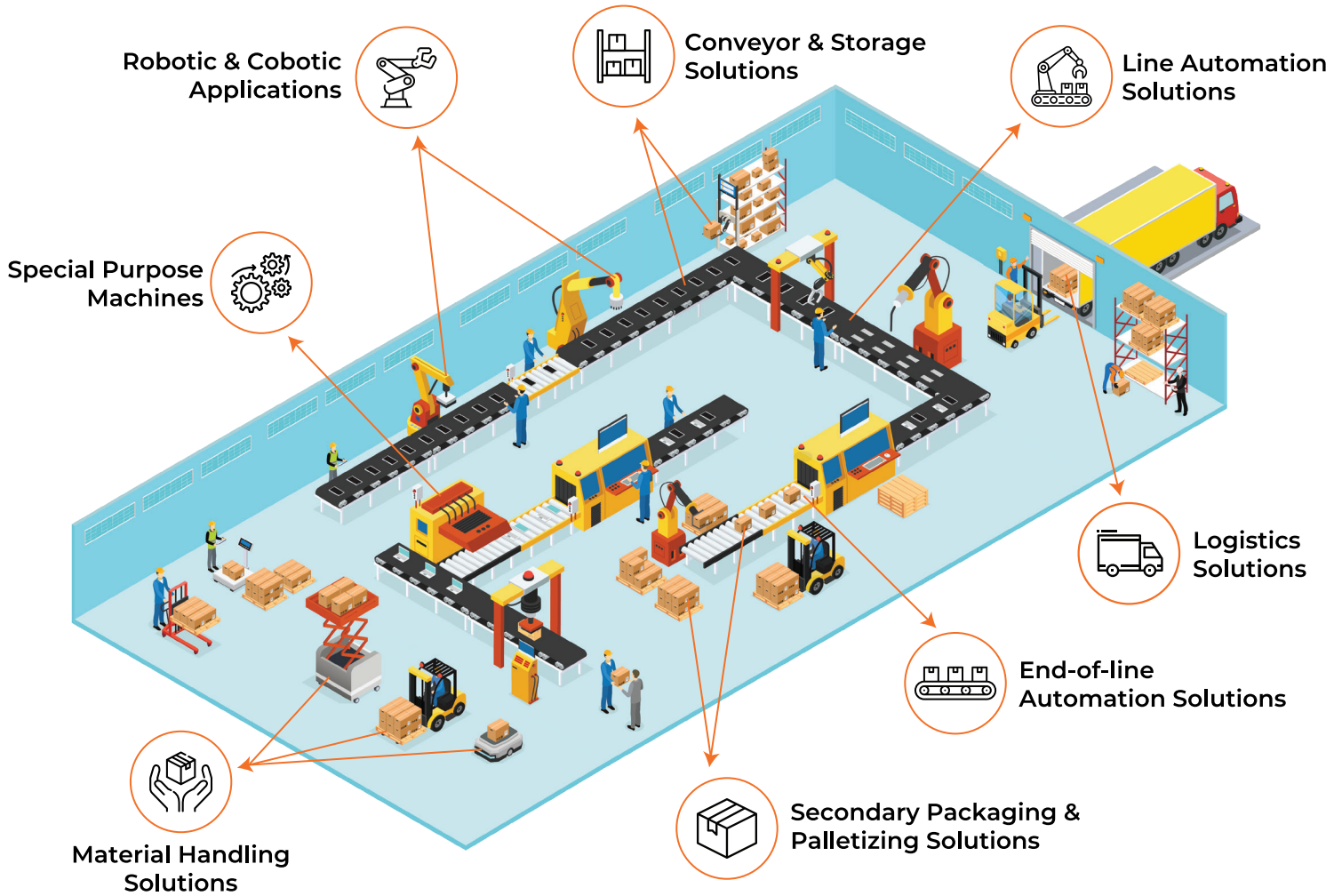
ROI Within 3 Years



Fully Scalable & Flexible



# AUTOMATION & ROBOTICS SOLUTIONS



<b>20+</b> Years in Business	<b>1000+</b> Top Professionals	<b>500+</b> Projects Successfully Executed	<b>50+</b> Happy Customers
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## ROBOTIC & COBOTIC APPLICATIONS

“Collaboration with ROBOT / COBOT to manage process effectively”

### Industry Challenges

- Timely Production
- Optimizing Cycle Time
- Reducing Waste
- Effective Time Management
- Precision in Operations
- Maintaining Safety in Hazardous Environments
- Balancing Skilled and Routine Work

### Solutions

- ◆ Palletizing
- ◆ Pick & Place
- ◆ Machine Tending
- ◆ Welding
- ◆ Special Process Applications
- ◆ Packaging & Labelling
- ◆ Vision Based Inspection
- ◆ Machining & Assembly Lines
- ◆ Painting
- ◆ Deburring, Gluing & Dispensing
- ◆ Aerostructure Machining





## Features

- Customized Gripper & EOAT
- Connected Technologies
- Vision Integration
- Online & Offline Programming
- Manual & Auto Mode
- Easy to Operate
- Minimum Down-time
- Enabled with IOT 4.0 Framework
- Enabled with Predictive Maintenance Framework

## Benefits

- Easy Programming
- Increases Production
- Enhances Quality
- Increases Up Time
- Increases Safety
- Decrease Downtime

## LOGISTICS SOLUTIONS

“Enable to reduce Cost & Time and improve Material Handling efficiency”

### Industry Challenges

- Material Handling
- Traceability
- Tracking
- Estimating Cargo Weight & Size
- Low Visibility in Transit & Turnaround Time
- Low Efficiency During Loading/Unloading
- People Safety
- Asset Utilization

### Solutions

- ◆ Automated Truck loading System (ATLS)
- ◆ Dock to Truck loading system (DTLS)
- ◆ Smart Conveyor systems
- ◆ Autonomous Mobile Unit
- ◆ Gantry Systems (Multi Axis)



## Features

- Handling Bins, Pallets or any Products Storage System
- Modular System for Future Adaptability
- Customizable - as per Product's Fit / Form / Function
- Manual & Auto Mode Options
- Wired & Wireless Controls
- Integration with MES/ERP
- Ip67 Rated Components
- Online Weighing & Tracking Systems
- Easy to Operate
- Retrofit existing Trailers & Facility
- Minimal Trailer Modification
- Reduces no. of Loading Bay's
- Integrated with Barcode Scanners for Traceability

## Benefits

- Increases Safety
- Minimizes Truck Waiting Time
- Fast, Easy and Efficient
- Increases Visibility
- Eliminates Manpower

## LINE AUTOMATION SOLUTIONS

“Executing Smart Manufacturing through Smart Automation”

### Industry Challenges

- Production Forecasting
- Controlled Inventory
- Lack of Real-Time Data
- Un-balanced Station Workloads
- Manufacturing Cycle Time
- Lengthy Changeover Time
- Productivity
- Safety





## Solutions

- ◆ Line Design
- ◆ Line Building
- ◆ Throughput Study
- ◆ Layout (2D & 3D)
- ◆ Line Development
- ◆ Special Purpose Machine
- ◆ Robot & Cobot Integration
- ◆ Industry 4.0 Driven Solutions

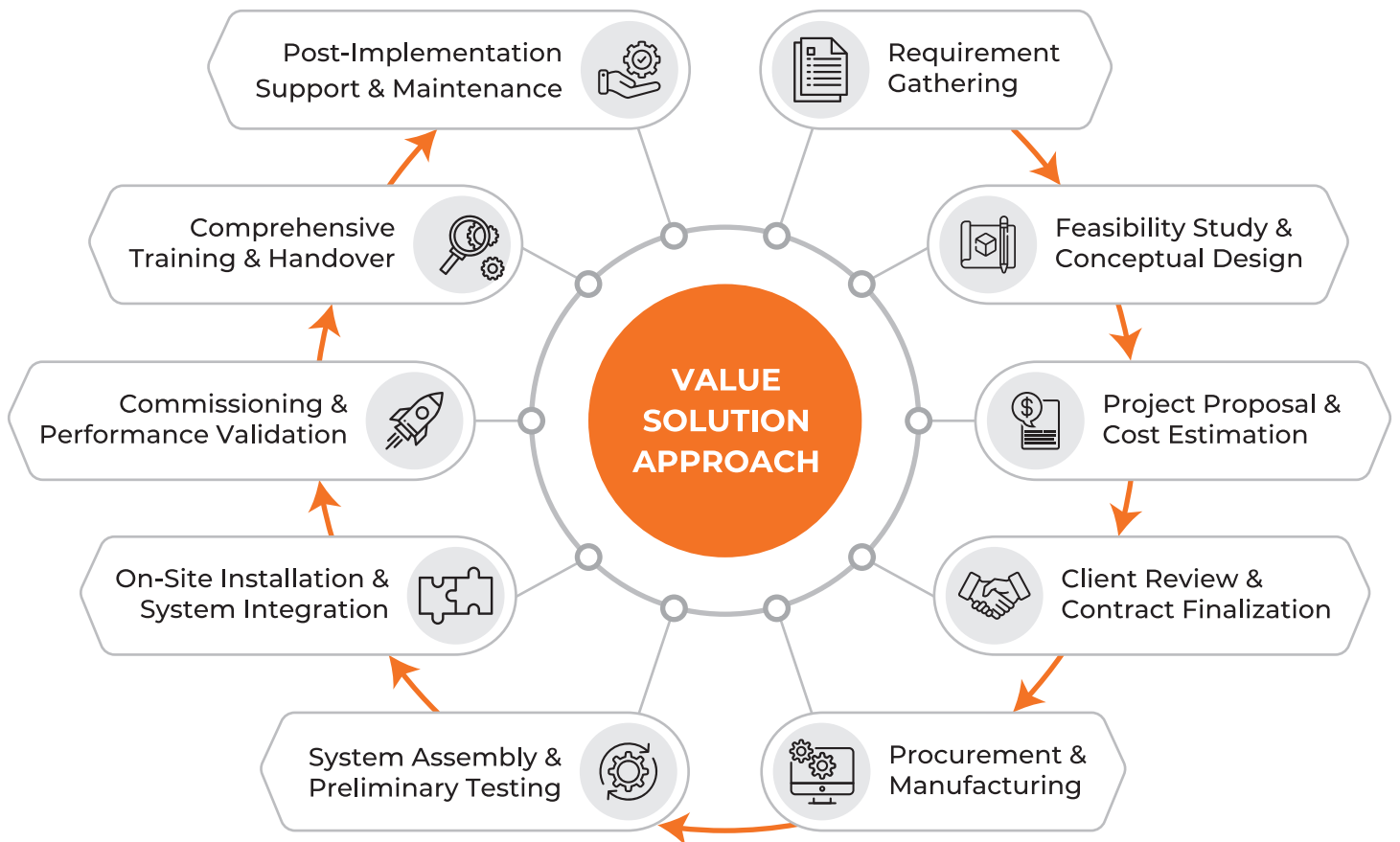


## Features

- Complete End to End Line Building
- Vision Systems
- Enabled with Predictive Maintenance Framework
- Integration with MES / ERP
- Live Data Logging & Analysis
- Real-Time Tracking and Visibility
- Offline / Online Programming

## Benefits

- Improves Quality, Accuracy & Repeatability
- Improves Safety
- Improves Productivity & Throughput
- Improves Efficiency
- Minimizes Utility / Operating Cost
- Deskilling the Manpower
- Streamlined Process



## Our offices

**USA:** Peoria | **MEXICO:** Monterrey | **INDIA:** Hyderabad | Chennai | Bangalore

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