Robotic Solutions
Results-driven Robotics

Honeywell Intelligrated is a certified robot integrator with more than 25 years of experience providing single-source robotic solutions for high-performance distribution and manufacturing operations. From system concepting, simulation, fabrication and integration to installation and commissioning, training and ongoing support, Honeywell Intelligrated approaches each solution with a comprehensive lifecycle view to extend the value of each system.

Leveraging advanced robotic technology and extensive material handling experience, scalable robotic solutions deliver accuracy and efficiency to satisfy a broad and growing range of operational requirements. Innovative designs, application expertise and committed support provide maximum dependability and round-the-clock productivity.

Industries Served:
- Food
- Beverage
- Consumer packaged goods
- Pharmaceutical and medical supply
- Retail
- E-commerce
- Wholesale
- Post and parcel
- Third party logistics

Productivity and Precision in Any Application

The extensive robotic solutions offering from Honeywell Intelligrated provides flexible, scalable options for a variety of applications, including:

- **Palletizing** – Efficiently build stable pallet loads according to operational requirements
- **Depalletizing** – Quickly unload full layers or individual products from pallets
- **Case packing and unpacking** – Singulate or pack products in preparation for downstream processes
- **Each picking** – Identify, pick and place individual items
Certified for Seamless Integration

Honeywell Intelligrated is recognized by the Robotic Industries Association as a certified robot integrator, with extensive experience implementing robotic solutions that work seamlessly with existing automated equipment. Robotic systems come with integrated software and controls, for easy training, simple daily use and straightforward maintenance.

Honeywell Intelligrated tailors each system to meet operational requirements, with a variety of auxiliary automation components and a choice of robotic arms from multiple manufacturers, including Yaskawa Motoman, KUKA and FANUC. No matter the product mix, Honeywell Intelligrated offers the expertise to deliver efficiency, accuracy and reliability in a multitude of applications.

Custom Designed End-of-arm Tooling

The heart of any robotic system, end-of-arm tooling is custom designed for the specifics of each application, manufactured by Honeywell Intelligrated and tested with actual customer products to ensure exceptional reliability.

- Fork, clamp, vacuum or combination tooling accommodates virtually any product, including individual items, cases, totes, pails, bundles or bags
- Tools handle single items, complete rows or entire layers, and can be segmented for multi-drop applications
- System can integrate with third party tools, if required
Palletizing and Depalletizing

Alvey® robotic palletizing and depalletizing solutions from Honeywell Intelligrated automate the labor-intensive tasks of stacking and unstacking. Solutions handle a broad range of products, packaging types and configurations to accommodate SKU proliferation, international markets or other complexities, while increasing throughput, improving ergonomics and reducing operational costs. Modular designs offer compact footprints and scale from a single robot to large multi-arm systems as future growth demands.

1. Infeed conveyor and load forming
2. Alvey robotic tooling
3. Stretch wrapper
4. Pallet and sheet handling

IntelliGen™ Palletizing Software

IntelliGen palletizing software from Honeywell Intelligrated enables operations to easily adapt pallet load configurations and stacking patterns based on product size, packaging changes or other variables. The user-friendly, flexible interface enables easy adjustment without the need for a service call, specialized technician or complex external software programs.

Mixed-load or Mixed-case Order Fulfillment

Honeywell Intelligrated’s mixed-load and mixed-case solutions are designed to satisfy retail and consumer demands for variety and quantity. These solutions enable more efficient replenishment and delivery with less-than-full pallet loads of mixed product and labels-out configurations for retail display.
**Stack and Wrap Robotic Palletizing Cell**

The unique design of the stack and wrap system builds a pallet load while incrementally stretch-wrapping each layer for increased stability and higher sustained throughput. It addresses the challenges of handling unstable products or operating in limited floor space, and allows a single operator to monitor multiple functions.

**Pallet and Sheet Handling**

Honeywell Intelligrated’s complete line of multifunction robotic tooling can place a range of slip sheets, tier sheets and empty pallets into robotic palletizing cells. Operations can increase robot utilization and minimize overall system cost by including this capability in the product handling tool, or leverage as an ancillary component to maintain the robot’s maximum palletizing speed.

**Each Picking**

Honeywell Intelligrated’s robotic each picking solutions use vision technology and specially designed end-of-arm tooling to identify and handle individual items, picking and placing them for order fulfillment processes. The flexible, accurate solutions allow operations to adapt to changing order profiles and manage SKU proliferation while redeploying labor to more value-added tasks.

- Advanced, model-free vision technology does not require item scanning and works across packaging types for quick, easy addition of new SKUs
- End-of-arm tooling combines both vacuum and gripper to adapt to the object shape for accurate picks
- Sensor feedback and a database of previous SKUs and picking methods offer continuous learning and improvement
Case Packing and Unpacking

Robotic case packing solutions load product into cases before end-of-line palletizing, and unpacking solutions singulate product downstream from depalletizing systems or in preparation for fill lines. These solutions maximize efficiency and cost savings through increased reliability, line speed and order accuracy.

- Flexible end-of-arm tooling quickly adapts to multiple packaging types
- Integrated machine control and vision-guided robotic technology
- Capability to create variety packs of food, beverages or consumer goods

Allied Products

Honeywell Intelligrated designs, manufactures and installs allied products to maximize efficiency and provide true single-source responsibility for the complete robotic system.

Case Conveyor

Honeywell Intelligrated is the largest manufacturer of conveyor equipment in North America. Comprehensive manufacturing and system design capabilities combined with more than a century of conveyor application experience enable the best solution designs for any robotic application.

Load Forming

High-speed, gentle and accurate product positioning is critical to maximizing robotic throughput and minimizing downtime. Honeywell Intelligrated’s row-forming designs include a wide range of transportation and accumulation conveyors, high-speed sortation for feeding multiple pick points and robot cells, and several case-turning options.

Pallet Conveyor

Honeywell Intelligrated offers a complete line of pallet conveyor system components, including chain-driven live roller conveyors, multi-strand chain conveyors, transfer cars, turntables and right-angle transfers. All equipment is designed, manufactured, installed and commissioned by Honeywell Intelligrated to provide centralized responsibility for the complete robotic system.

For more information on Honeywell Intelligrated robotic solutions, visit www.intelligrated.com.
Solutions Overview
Intelligent automated material handling solutions from Honeywell Intelligrated optimize processes, increase efficiency and give businesses a competitive edge. Honeywell Intelligrated designs, manufactures, integrates and installs complete material handling automation and software solutions, including:

- Warehouse execution systems
- Fulfillment technologies
- Voice solutions
- InControlWare® machine controls
- IntelliSort® sortation systems
- Conveyor systems
- Alvey® palletizers and robotics
- AS/RS solutions
- IN-24X7® Technical Support

Lifecycle Support Services
Honeywell Intelligrated Lifecycle Support Services provides all the services, parts and support needed to keep systems running at peak efficiency. Staffed with a network of Honeywell Intelligrated professional Lifecycle Support specialists, multilingual customer service is accessible 24X7 with a single number to call: +1 877.315.3400.
The pace of change in modern commerce is putting tremendous pressure on fulfillment operations. To stay competitive and protect profits, companies need solutions that help them achieve maximum throughput, day-to-day flexibility, future-proof scalability and intelligence to make informed decisions.

The Connected Distribution Center helps companies make the digital transformation necessary to increase reliability, improve utilization and maximize productivity through:

- Intelligent, data-driven, high-speed execution
- Automated, adaptable processes for machines and workers
- Optimized utilization with the ability to seamlessly adapt and expand
- Insights and predictive analytics, from sensors to the cloud