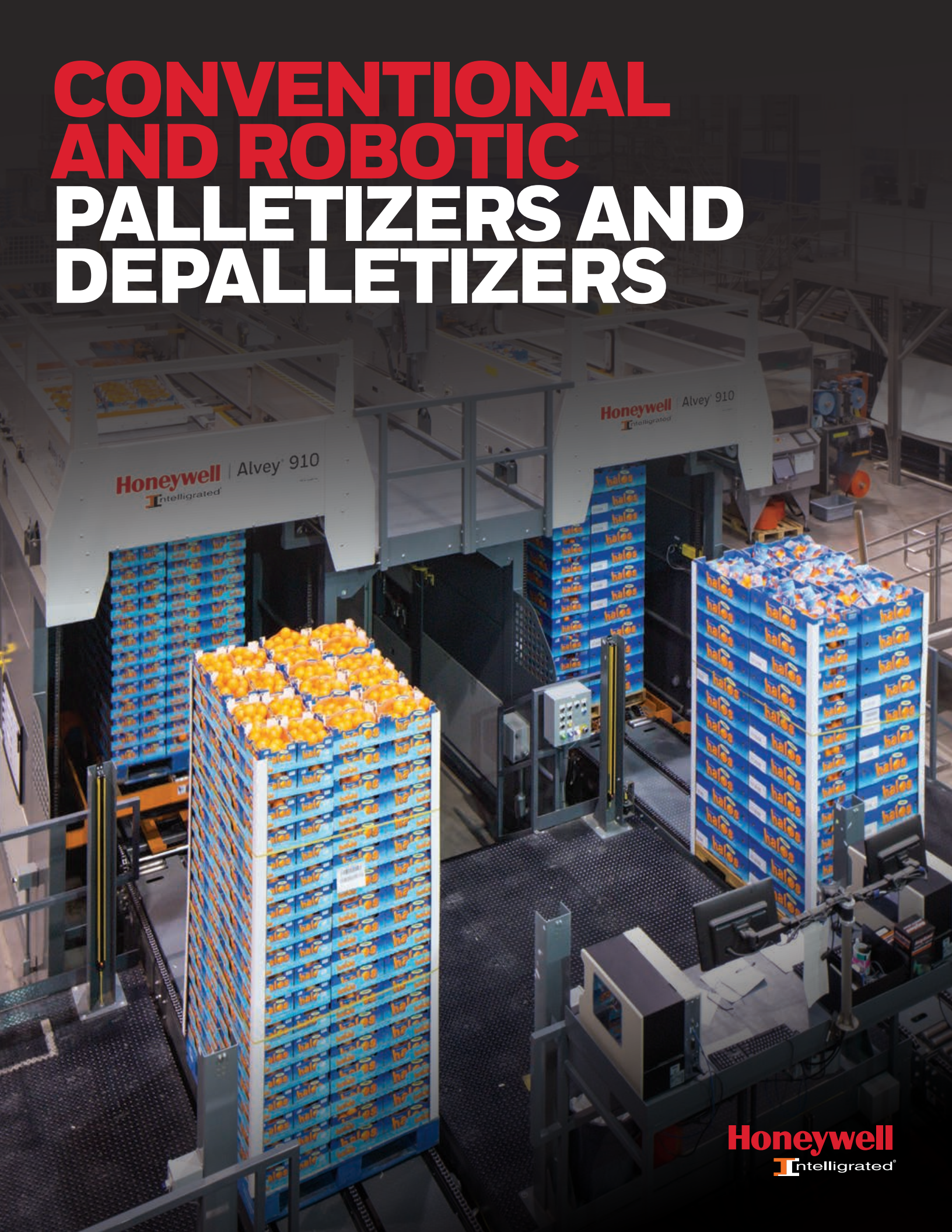
CONVENTIONAL AND ROBOTIC PALLETIZERS AND DEPALLETIZERS

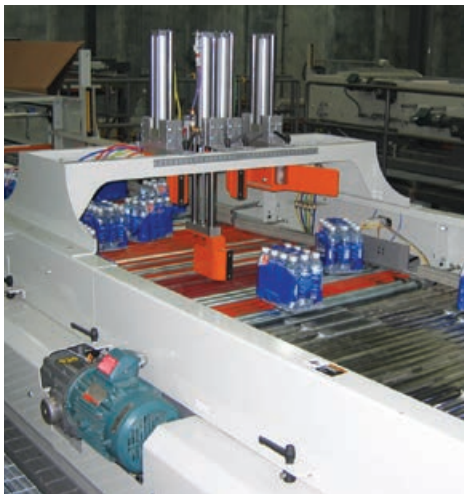


Honeywell
Intelligrated®

HONEYWELL INTELLIGRATED PALLETIZERS AND DEPALLETIZERS

Through its Alvey® equipment brand, Honeywell Intelligrated has more than 60 years of experience providing mission-critical palletizing and depalletizing solutions to thousands of manufacturers and distributors. Scalable designs provide the right level of automation for growing operational needs, and deliver speed, flexibility and productivity where they're needed most. From initial design concepting to integration and ongoing service, Honeywell Intelligrated backs every installation with total lifecycle support, for maximum dependability, efficiency and return on investment.





FLEXIBLE DESIGNS, MAXIMUM THROUGHPUT AND SEAMLESS INTEGRATION

Honeywell Intelligrated palletizing and depalletizing solutions provide the versatility to handle virtually any product and customer requirement, and offer industry-leading speeds for maximum throughput.

Engineered with advanced software and controls, Alvey palletizing and depalletizing systems integrate with conveyors, stretchwrappers and other equipment for complete automation solutions. Honeywell Intelligrated engineering teams understand the changing demands placed upon today's operations.







SOLUTIONS THAT DRIVE PRODUCTIVITY THROUGHOUT ANY OPERATION

The extensive range of Honeywell Intelligrated palletizing and depalletizing solutions provides flexible, scalable options for every operational requirement, with a variety of speeds and designs to handle virtually any product and packaging type.

End-of-line manufacturing – Palletizers build stable pallet loads for wholesale distribution or direct-to-retail replenishment

Mixed-load order fulfillment – Build pallets with multiple products or packaging types for more efficient in-store replenishment or "labels-out", retail-ready display loads

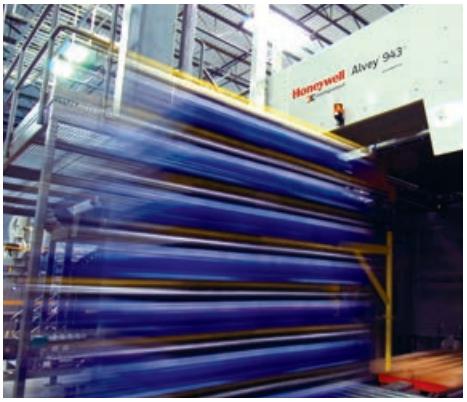
Receiving (distribution) – Depalletizers quickly unload product from pallets in preparation for single or mixed-case order fulfillment

Receiving (manufacturing) – Depalletizers unload raw materials or empty containers in preparation for manufacturing processes

INDUSTRIES SERVED:

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

PALLETIZING AND DEPALLETIZING SOLUTIONS



ALVEY 900 SERIES

High-speed palletizers deliver superior package handling, pattern forming flexibility and reliability. The Alvey 900 series is available in three models:

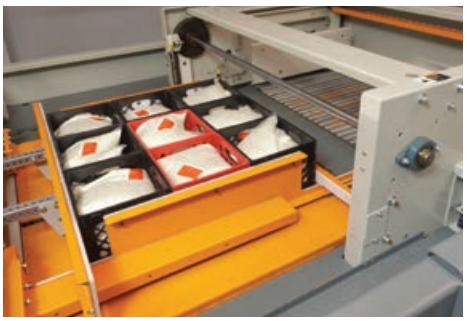
- **Model 910:** In-line palletizer with a single accumulation zone offers throughput rates up to 125 cases per minute
- **Model 942:** Higher-speed palletizer features two accumulation zones and throughput rates up to 160 cases per minute
- **Model 943:** Highest-speed palletizer features three layer accumulation zones and throughput rates of more than 200 cases per minute



ALVEY 800 SERIES

Mid-speed palletizers designed for easy operation and maintenance in a compact footprint. Exceptional flexibility and versatility enable the machines to handle a wider array of package types, and intricate stacking patterns.

- **Model 890*i*:** Delivers reliable throughput at rates of up to 45 cases per minute with the ability to handle a wide range of package types, including small, unstable products
- **Model 891*i*:** Uses level, non-pitched layer accumulation table as a buffering mechanism for throughput rates of more than 60 cases per minute, dependent on case size and stacking patterns



ALVEY 780 SERIES

Compact mid-speed palletizer with a clean, simple design engineered for single-line applications. The 780 series uses a reciprocating row pusher to create layers of product and offers pattern utility software for quick case pattern creation from a touch-screen.

- Touch-screen operator interface with advanced diagnostics
- Rates in excess of 50 cases per minute
- High-level infeed allows product to feed directly from overhead conveyor or accumulation lines

> "We looked at the overall design of the equipment, speed, efficiency, productivity, safety and reliability. Honeywell Intelligrated's Alvey palletizing system scored the highest on all of those, and that's what drove them to the top of our list."

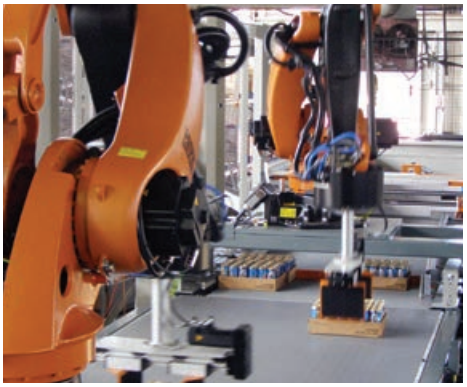
— Pete McKenzie
Director of Design and Startup
Paramount Citrus Halos Facility



ALVEY 680 SERIES

Lower-speed, floor-level case palletizers offer a range of throughput capabilities with multiple case infeed, pallet feed and load discharge configurations to fit any layout.

- **Model 680:** Lowest-speed model can palletize up to two layers per minute
- **Model 680-R:** Additional row accumulation increases rates up to three layers per minute
- **Model 681:** Designated layer accumulation area can palletize up to five layers per minute



HYBRID PALLETIZERS

Hybrid palletizers incorporate one or more robotic arms for flexibility, gentle handling and precise, repeatable pattern forming, with the ability to manipulate products for more advanced, labels-out and mixed-load configurations.

- **950 Series:** High-speed hybrids offer rates of more than 125 cases per minute and either floor- or high-level infeed
- **750 Hybrid:** Mid-speed hybrid palletizer with high-level infeed and single robotic arm offers throughput rates up to 40 cases per minute. The 750 Hybrid handles a variety of packaging types, including cartons, bales and bags.



ALVEY MODEL 450 SEMI-AUTOMATIC

Automatic pallet handling solution offers ergonomic and speed advantages over manual depalletizing and heavy-duty construction for long-term dependability.

- Gentle load handling keeps even marginally stable loads secure
- Touch-screen enables control and diagnostics in the work zone
- Delayed infeed start when fork truck present

> "The four Alvey palletizers that we purchased over the past six years provide us with optimum flexibility and exceptional reliability, plus the benefit of local service and support."
>
> — Ted Zeveney
> Production Manager
> Union Beverage Packers

ROBOTIC PALLETIZING AND DEPALLETIZING SOLUTIONS

Honeywell Robotics palletizing solutions enable fast, easy product reconfiguration, create mixed-load pallets, and handle single cases, rows or entire layers.

Flexible robotic depalletizing solutions allow quick product or packaging changes and can handle single cases, rows or entire layers, using robotic arms designed to precisely move and place a wide range of products.

- Robotic arms from multiple manufacturers, including Motoman, KUKA and FANUC
- End-of-arm tooling designed and built in-house
- Integrated software and controls, including PLC-based solutions and vision technology
- Modular solutions with compact footprints scale from single robots to multi-arm systems
- Simulation software for system feasibility and efficiency testing, training and troubleshooting
- End-of-arm tooling is custom designed for each application and tested with your actual products to ensure exceptional reliability
- Honeywell Intelligrated is recognized by the Robotic Industries Association (RIA) as a Certified Robot Integrator, meeting the industry's strictest standards for safe, reliable and high-quality robotics



INTELLIGEN™ PALLETIZING SOFTWARE

IntelliGen palletizing software enables operations to easily adapt pallet load configurations and stacking patterns based on product size, packaging changes or other variables. A user-friendly, flexible interface allows easy adjustment without the need for service calls, specialized technicians or complex external software programs.

STACK AND WRAP ROBOTIC PALLETIZING CELL

This unique stack and wrap system builds a pallet load while incrementally stretch-wrapping each layer. The result is increased stability and higher sustained throughput, addressing the challenges of handling unstable products or operating in limited floor space. In addition, a single operator can monitor multiple functions.



PALLET AND SHEET HANDLING

The complete line of multi-function robotic tooling by Honeywell Intelligrated can place a range of slip sheets, tier sheets and empty pallets into robotic palletizing cells. Including this capability in the product handling tool can increase robot utilization and minimize your overall system cost. It can also be leveraged as an ancillary component to maintain the robot's maximum palletizing speed.

For more information on Honeywell Intelligrated palletizers and depalletizers, visit **sps.honeywell.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 warehouse automation and software solutions, including:

- Automated storage and retrieval solutions (AS/RS)
- Conveyor and pallet conveyor systems
- Fulfillment technologies
- Honeywell Robotics
- Labor management software
- Lifecycle Support Services
- Machine controls
- Palletizing and depalletizing
- Sortation systems
- Voice solutions
- Warehouse execution systems

LIFECYCLE SUPPORT SERVICES

Lifecycle Support Services employs a consultative, data-driven approach to achieve your critical business outcomes. By delivering proactive, value-added services and solutions, we can help you to reduce the risk of downtime and increase system availability, longevity and dependability. Drawing from a full spectrum of strategic services, we offer multiple engagement models, tailored to your business, culture and strategy. Our comprehensive portfolio constitutes the key building blocks of a successful lifecycle asset management plan. By conducting assessments of both your equipment condition and operational efficiency, we can determine how to optimize your operations with:

- Engineered Solutions
- Technical Services
- Contract Services
- Training
- Honeywell Intelligrated Spare Parts

THE CONNECTED DISTRIBUTION CENTER

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

THE FUTURE IS WHAT WE MAKE IT

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CRPBR (EN/US) | Rev 1 | 01/21
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