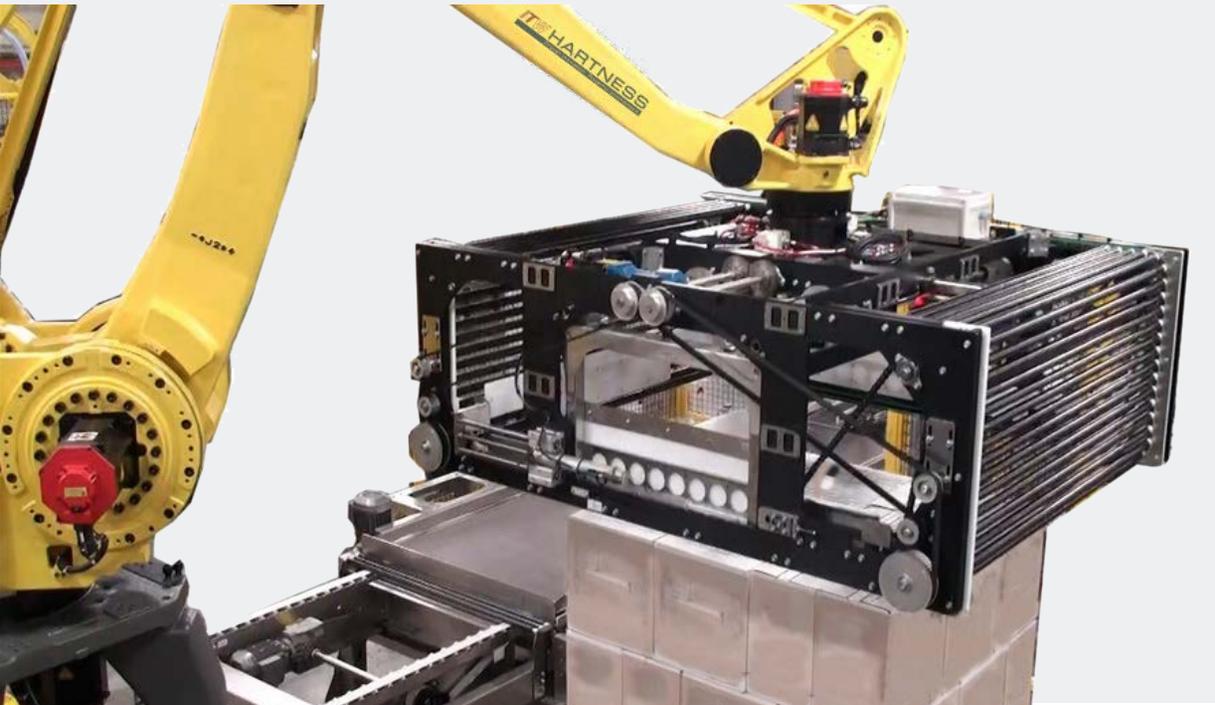


Proven Innovation

The Hartness robotic palletizing portfolio was designed to help our customers meet their goals for product flexibility, gentle pack handling, and lower total cost of ownership. From low-level, continuous motion systems to high-level palletizers with robotic layer forming, Hartness offers a full complement of innovative, robotic-enabled depalletizers and palletizers to meet virtually any speed or footprint requirements. Hartness has assembled a team of robotic specialists from around the world to offer industry-leading, innovative robotic palletization solutions. As with any Hartness product, Hartness robotic palletization solutions are backed by our decades-long, powerful commitment to customer satisfaction.

Hartness customers benefit from over 50 years of tool design and manufacturing experience, as well as the expertise of Hartness Systems Group, that ensures that our clients receive a vertically-integrated solution which minimizes customer risk and ensures more vertical start-up. As always, Hartness is committed to providing its customers with the solutions required to meet the ever-changing needs of the market.



Hartness pioneered the low-level, high-speed palletizer market in North America. The industry-leading system features a two-stage process for palletizing of product. Utilizing a universal, servo-controlled robotic tool for gentle, accurate and continuous motion pack placement, the system creates a layer of product. Each layer of product is then indexed onto a master robotic tool, which accurately positions the entire layer on the pallet. Changeovers are accomplished automatically and with the push of a button, ensuring quick and repeatable product changes. “Soft touch” handling eliminates product damage often associated with lightweighted primary and secondary packaging. The layer forming robot can handle multiple packages per cycle for even greater speed. Speed is rated at up to 100 pack/minute.

- Gently handles lightweighted primary and secondary packaging
- Flexibility - handles a greater variety of SKUs
- Versatility – flexible footprints
- Lower total cost of ownership vs traditional palletizers
- -Less maintenance
- -Fewer wear parts
- -Quicker changeover
- Simplification of complex pallet patterns
- Presents opportunities for additional lightweighting of primary and secondary packaging
- PC-driven pattern generation programs

Industries Served:

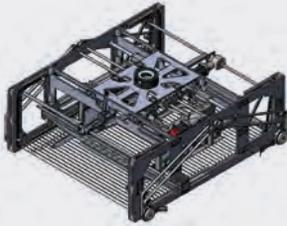
- Beer
- Soft Drink
- Spirits
- Wine
- RTD Tea & Coffee
- Water
- Distribution

Tool Modeling and System Simulation

Hartness uses state of the art modeling and simulation software to decrease lead time, minimize client risk and ensure more vertical startups. These programs are used to verify arm reach, speed and numerous other factors that contribute to project success.

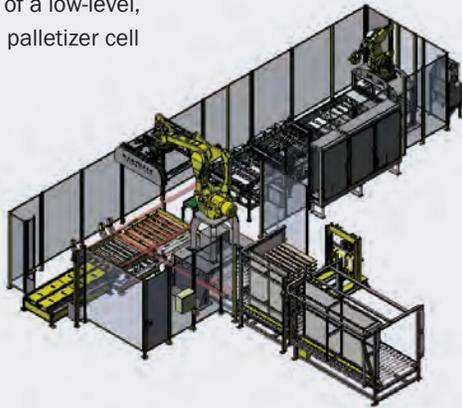
Tool Modeling

Model of the latest Hartness layer handling tool



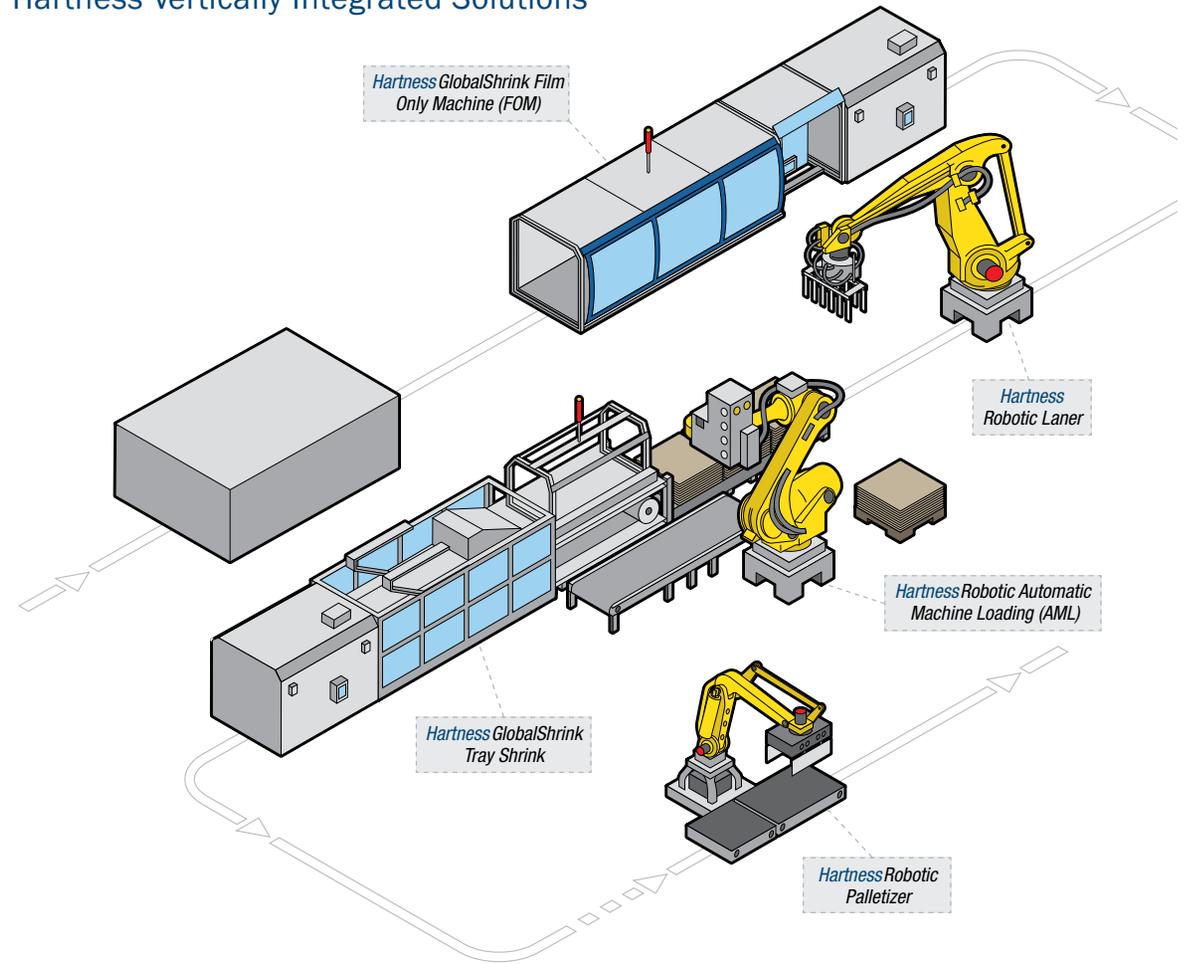
System Simulation

Simulation of a low-level, high speed palletizer cell



Hartness is a proud member of the ITW family of companies. 

Hartness Vertically Integrated Solutions



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 **HARTNESS**