

Systems Integration

Simply Innovative Solutions





Industries Served:

- Food
- Soft Drink
- Wine and Spirits
- Pharmaceutical
- Grocery
- Home Care
- Personal Care
- Beer
- Juice and Non-Carb

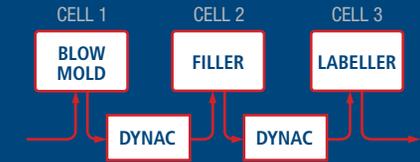
Powerful Commitment: Investing in the Global Packaging Market

For over 40 years, a powerful commitment to innovatively meeting our customer's needs has been our guiding principle. As the requirements of the Global packaging market have changed, so have our capabilities and competencies. From core technologies such as case packing and shrink wrapping to DYNAC buffering systems and robotic automation, the Hartness portfolio of packaging solutions represents a significant investment and demonstrate Hartness' powerful commitment to our client's success.

Nearly a decade ago, Hartness entered the engineering services and packaging line integration business at the behest of several of our largest clients. These clients were seeking a higher level of commitment to project planning, site execution and transfer of ownership. Over the years, we've executed projects worldwide and within a vast array of market segments. Today, Hartness offers a full complement of industry-leading systems integration solutions staffed by industry professionals from around the Globe, all of whom are experts in their discipline. From feasibility studies to innovative packaging line designs, and from project management to training, Hartness offers a portfolio of integration services for projects both large and small. Our "best in class" designs ensure that Hartness' clients receive the best solutions available, without compromise.

What is Best in Class?

Hartness' design philosophy is that no single OEM produces the best component for every function on a packaging line. A steadfast commitment to this "best in class" selection philosophy is a key point of differentiation for Hartness. We collaborate with our clients to understand specifications, expectations, and deliverables. We then make the best decision for the application.



Proven Innovation : DYNAC-Centric Line Design

Simple innovation has always been at the heart of the Hartness culture. DYNAC-Centric line design is a simple, yet innovative approach to controls and system design which allows Hartness' systems group to deliver packaging lines that require less space, reduce labor requirements, and efficiently convey lightweighted and pressure-sensitive primary packages.

Simplified line controls are key to the success of the DYNAC-Centric concept. DYNAC acts as "throttling device," supplying perfectly-pitched products to downstream equipment, and eliminating "micro-stops" that inhibit line efficiency.

Intelligent design meets dynamic results.

- / *Eliminates complicated line controls*
- / *Smaller footprint, lean line designs through close-coupling*
- / *Reduced labor*
- / *Efficiently convey lightweighted and pressure-sensitive packages*
- / *Quieter packaging lines*



System Integration

Hartness brings an innovative, customer-centric approach to systems integration. Our goal is to deliver more vertical startups, higher OEE, and simplified solutions that can be sustained, long after the project has ended.

Cellular Integration

“Cellular Integration” involves the optimizing of a portion of a packaging line, and it is a key part of the Hartness value proposition. Cellular projects are designed to increase speed, capability, and efficiency of packaging lines.

Turnkey Integration

Full line, turnkey installations allow Hartness to utilize a full complement of engineering services and are designed around the Hartness “best in class” philosophy.



Engineering Services

Hartness offers a full complement of industry-leading systems integration solutions staffed by industry professionals from around the Globe, all of whom are experts in their discipline. From feasibility studies to innovative packaging line designs, and from project management to training, our team is comprised of industry leaders with both engineering and plant operations experience, as well as years of service with leading companies in our industry. Our wide range of services are all executed with Hartness’ decades-old commitment to customer satisfaction and innovative solutions in mind:

- Feasibility Studies
- Scope Development
- Packaging Line Design
- Equipment Selection
- Vendor Qualification

- Project Management
- Construction Management
- Site Management
- Efficiency Studies
- Training

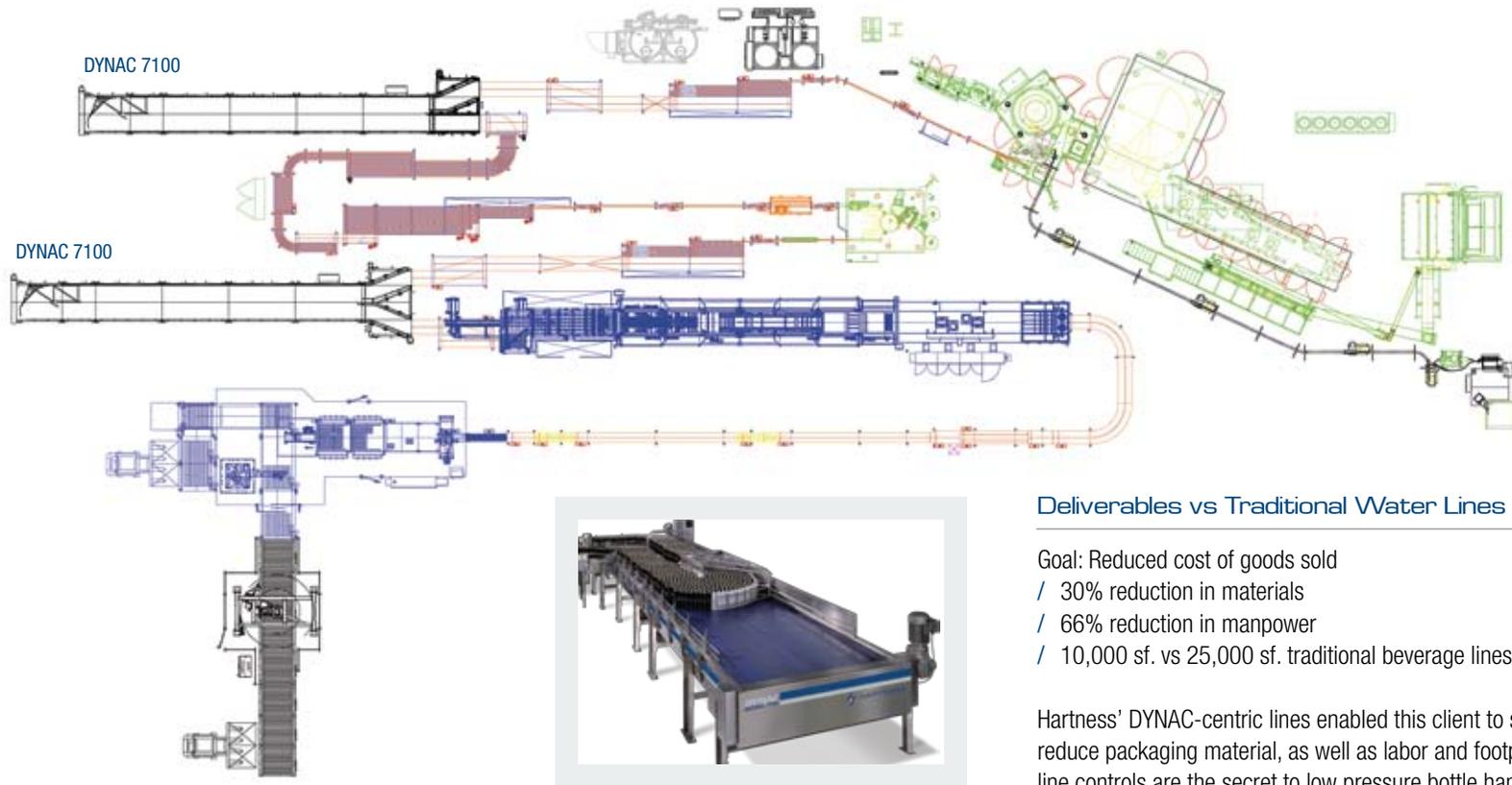


Conveyor and Controls

Hartness’ world class group of controls engineers bring decades of experience from a variety of industries. Our goal is to implement a simplified line control philosophy and standardized design architecture both of which result in accelerated startups and sustained line performance, long after we’ve left the project site. Our projects frequently involve the implementation of Hartness’ proprietary “DYNAC-Centric” line design philosophy. This concept results in simpler line controls, quieter lines, quicker startups, and more efficient handling of pressure-sensitive containers.

We offer a wide variety of conveyance solutions for primary packages, secondary packs and cases. Our premium, stainless-steel conveyor is designed with the durability, quality, clean design characteristics, and finish for which Hartness is known. We also manufacture a variety of speciality conveyor solutions.

DYNAC-Centric One Man Water Line



Hartness One Man Water Line is designed around DYNAC 7100.

Deliverables vs Traditional Water Lines

- Goal: Reduced cost of goods sold
- / 30% reduction in materials
- / 66% reduction in manpower
- / 10,000 sf. vs 25,000 sf. traditional beverage lines

Hartness' DYNAC-centric lines enabled this client to significantly reduce packaging material, as well as labor and footprint. Simplified line controls are the secret to low pressure bottle handling. The nearly pressureless line runs lightweighted PET bottles and the grouped machine centers greatly reduce labor needs.

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