



PROCESS SERVICES

From concept to production



HASKELL



Our comprehensive approach pays off. The design and installation of food and beverage equipment is about understanding, managing and exceeding expectations. Project success is a result of detailed planning, coordination and execution by experts who understand food and beverage manufacturing and its impact on your business.

Haskell's Process Services team has hands-on experience in the design and installation of manufacturing systems. Leaders in the food and beverage industry turn to Haskell for process design, equipment installation and systems integration for timely and cost-effective solutions. Whether you are involved in new construction, a renovation / expansion or simply require standalone services, Haskell's Process Services team will provide a comprehensive solution for your next project.

“Your team’s dedication, excellent knowledge base and experience were key to completing the project on time and under budget.”

– Bill Greenwood, *ConAgra Foods*



EXPERTS WHO UNDERSTAND YOUR BUSINESS CHALLENGES



Integrated Efficiency

Built on the solid foundation of more than four decades of design-build experience, the Haskell team understands the importance of seamlessly integrating your manufacturing processes with every other aspect of your facility. Haskell will effectively integrate your process, packaging and warehouse operations into your new or existing facility.

For our domestic and international clients, Haskell offers:

- Program management
 - Design (process / packaging)
 - Controls / automation
 - Systems integration
 - Procurement
- Equipment installation
 - Equipment relocation (plant to plant)
 - Commissioning and start-up
 - Regulatory compliance
 - Country-to-country services



Process Design

Haskell's process design team will define the process and packaging objectives and ensure that the design components will function as a fully integrated system. Our team communicates the approach and objectives with our clients, equipment vendors and construction contractors.

Services include:

- Objectives and constraint definition
 - Conceptual design and planning
 - Process design
 - Packaging design
- Controls / automation
 - Process Flow Diagrams (PFDs)
 - Piping and Instrumentation Diagrams (P&IDs)
 - Equipment and utility specifications

The Haskell team, driven by sanitary design principles, stepped up providing guidance and made decisions assuring sanitary design.

— John N. Butts, *Land O'Frost*





Equipment Installation

Haskell's scope of equipment installation services includes equipment procurement, millwright services and sanitary installation ensuring the components function as a system in line with the process and regulatory objectives of our clients.

Services include:

Millwright

- Planning, staffing, scheduling and coordination
 - Equipment manufacturer site visits
 - Identification / labeling / crating
 - Receiving / unloading / setting
 - Inspection and acceptance
- Rigging — optimizing equipment and manpower
 - Establishing staging areas on- and off-site
 - Traffic and access management
 - Setting, centering and aligning X-Y datum lines
 - Transitioning to sanitary installation services

Sanitary Installation

- Planning, staffing, scheduling and coordination
 - Equipment manufacturer site visits
 - Establishment of installation standards
 - Equipment verification / acceptance protocol
- Equipment / utility installation and integration
 - Plant controls platform integration
 - Start-up and commissioning coordination
 - Safety and security site coordination

PROJECT DEVELOPMENT



Haskell's excellent execution allowed the processing and packing teams to mobilize early and allowed the Gatorade team to beat every start-up milestone.

– Arnie Wodtke, **Gatorade**



Systems Integration / Project Management

With a project management team and pre-qualified group of process / packaging resources in place, we work with you to clearly define the project's scope and expectations. Haskell manages the equipment and systems integration effort, ensuring that specific project objectives are met on schedule and within budget.

Services include:

- Project organization, monitoring and scheduling
- Defining areas of responsibility
- Managing a master schedule
- Vendor relationships and dispute reconciliation
- Safety and security standards
- Installation and integration management
- Unit and systems verification
- Utility verification



Regulatory Compliance

Haskell is actively involved in the food and beverage industry. We understand the evolving standards and regulations that impact your business. We effectively design and integrate your manufacturing processes to comply with the regulatory initiatives and standards required to meet your business objectives in a timely and cost-effective manner.

- FDA / USDA / FSIS
- HACCP, GMP, SSOP and SPS
- Food Safety / Homeland Security
- AIB GMP audits
- Acidified and low-acid canned foods
- AMI's Principles of Sanitary Facility and Equipment Design
- 3A Sanitary Design Standards
- BISSC (Bakery Industry Sanitation Standards Committee)
- PMO (Pasteurized Milk Ordinance)
- UL (Underwriters Laboratories) Standards for Safety
- NEC (National Electrical Code)
- NFPA (National Fire Protection Association)
- OSHA (Occupational Safety and Health Administration)
- EPA (Environmental Protection Agency)
- PSM (Project Safety Management)

FACILITIES

PROCESS



CONSTRUCTION

SECURITY & SAFETY

PROCESS DESIGN

EQUIPMENT INSTALLATION

SYSTEMS INTEGRATION

REGULATORY COMPLIANCE

COMMISSIONING





Commissioning & Start-up

The final determination of project success is when our clients produce commercially saleable product.

Services include:

- Schedule coordination and management
- Training coordination
- Safety and regulatory oversight
- Line commissioning and start-up
- Consolidation of manuals and drawings
- Initial parts inventory development
- Closeout audits
- Acceptance signoffs



Full-service Expertise

Haskell brings customized services and equipment expertise to your project. Our clients benefit from our integration capabilities and our scope of resources, which we provide from a partnership perspective. We work as your advocate, ensuring that you receive the highest-quality services safely, on schedule and at a fair price.

“ “ We have and will continue to recommend Haskell to others. We feel that Haskell provided very good services while understanding our budget constraints. More importantly, as we continue to grow our operations, we would like to utilize Haskell again. ” ”

– Terry Whittington, **Champion Foods, LLC**

Haskell has demonstrated over the years their commitment to understand our needs and commitments to our customers.

– Kevin Darbelnet, **Nestle Waters North America**





HASKELL
America's Design-Build Leader®

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