



Food Processing Industries

Manufacturers in Food or Beverage processing industries have unique detailed materials and quality management requirements. Mostly they require formula management or batch tickets instead of BOMs or work orders. The Horizons Manufacturing Suite of products meets these needs and still provides all the traditional tools excellent manufacturing companies require. By combining the needs of formula based manufacturers with the needs of traditional discrete manufacturers Horizons has developed a suite of manufacturing software tools that bridges the gap. We call it mixed mode manufacturing. We can take your basic formula based production process, with yields, lot control and scalability, marry them with discrete processes and then provide your organization with the unique tools you need to plan production in batches or lots and still track output down to a unique packaged product that goes out the door to your customer. Cost control, perpetual inventory management, MRP and capacity planning with shop floor reporting can all be provided at a fraction of the cost of other packages in this market space. And, because Horizons has been providing manufacturing software solutions for Microsoft Dynamics GP™ for over 16 years you also have the confidence of knowing your business needs are supported by the biggest name in mid size business solutions.

Your Needs	Our Solution
<p>We blend a lot of our products for specific customers. Getting their labeling and packaging details right when we are in production can be a big headache.</p>	<p>Easy linking of graphics and other documents to master production records makes it painless for the shop floor team to confirm the packaging and label information is correct. No more running around the plant to get customer sign off or confirmation.</p>
<p>There is a certain seasonality to our products so production lead times can get out of control, sometimes we're not sure where the priority products are on the floor.</p>	<p>Routers with shop floor control data collection will help you identify the adjusted needs for capacity as order and batch sizes change. Real time reporting of the status of an order at the different processing steps will help estimate time to completion, help locate the order on the shop floor and identify priority tasks for all personnel.</p>
<p>It seems like there is a constant stream of regulation changes that we are trying to keep up with, but we do it with manual systems. Sometimes it feels like we are going to be buried in paper.</p>	<p>The Horizons Quality Management Module supports not only collecting real time test data for analysis and review but also recording data or events for external processes. You can take many of your manual procedures and automate them from within a single product. Your customer's will no longer be concerned about speed of data retrieval or about how quickly you can provide them with electronic copies of their required data.</p>
<p>Our production process is fast and very repetitive; it's just the end items and quantities that change. The overhead of a traditional manufacturing system creates too many transactions and it seems like my data is always 2 or 3 days old.</p>	<p>The multi product order in Horizons allows you to record all the inputs and outputs from a single production process on a single batch or work order. It keeps up with lot tracking too. This reduces the number of transactions your administrative staff has to process and makes it much easier to keep all inventory information real time.</p>
<p>It seems like product development is always rushing to get new products to market and the tasking associated with that can be overwhelming for my team.</p>	<p>Utilizing the Formulator module for product development and releasing products to production will speed up your product development process but still give you excellent control on adding new part numbers, developing nutrition labels and confirming QA process. With all the data centralized and controlled by secure user access you staff will appreciate how much faster and accurately they can release new products.</p>

Industry Terms and General Information

Master Manufacturing Record – would be similar to BOM with routings that is used as the master from which the individual orders are produced. In the guidance for dietary supplements even the packaging is part of the master production record.

Batch Record is built on the Master Manufacturing record and is similar to a work order.

Formula based – Ingredient quantities make batches or volumes of material.

Formula management – keep formulation records by customer item, by season for easy access and recreation.

Ingredient Sequencing – Ingredients are added in the production process at multiple steps with various quantities.

Scalability – End output varies by need and formula calculations adjust accordingly.

Mixed mode – products produced in batches or lots are later packaged in a variety of sizes or labels.

Lot control – field to table control, with sources, properties and quarantine needs. Immediate access to required investigational data.

Yields – easy adjustments for output variations keep inventory and costs accurate.

By products and co products - Multiple outputs from single production process.

Capacity Controls – manage production resources for timely delivery to customer commitments. Collect real time production and status data for output and performance monitoring.

Quality Control – incoming ingredients are inspected to standards, in process activities are controlled for conformance to requirements, documentation prepared and shipped with products.

Distribution Management – products are smoothly and quickly stored or delivered to the distribution points for additional action.

Customer Service – Real time access to order status.

Regulatory groups

Much of food processing is regulated at some level by FDA (Food and Drug Administration) Depending on what type of food processing is occurring there may also be oversight from USDA. In some instances USDA actually retains full time inspectors at food processing facilities.

Voluntary or self regulation – can be found in areas like herbal remedies etc. These groups do not always come under FDA regulation but frequently participate in industry type regulation as a commitment to quality or excellence for the their customers.

HACCP – hazard analysis and critical control point. Regulations from FDA on managing production of products. Once again information varies by product, for example the requirements for seafood is different than for fruit juices. There is increasing consumer concern about 'chain of ownership' of raw materials in food processing and the FDA has several initiatives related to the safety of the food supply. These are all controls that add overhead costs to food manufacturers.

Horizons Manufacturing Suite Suggested Modules for Food Processing Applications

- Bills of Material with Production Orders
- Engineering Change Orders
- Serial/Lot Control
- Multi-Product Production
- Horizons Quality Management System
- Material Requirements Planning
- Shop Floor Control
- Router

Go to www.hzs.com/industries/formula-based manufacturing for more information
Horizons customers in this industry fall between NAICS codes 311119 thru 312130