

**BatchMaster Software Solutions
for the Pet Food Industry**

*Helping you keep
our pets healthy
and active*



Introduction

BatchMaster Software offers an industry specific ERP solution that helps you streamline your operations and bring your products to market, faster and more cost effectively, while complying with ever more stringent FDA and FSMA regulatory mandates. Whether you private-label, co-pack or produce your own line of food products, BatchMaster ERP for Food supports your unique manufacturing requirements in product development, production, quality, costing, and compliance, while supporting all of your sales, accounting, warehousing and distribution needs.

Overcome Industry Challenges

Today, many of pet food manufacturers are appealing to a more health conscious public that wants to provide healthy foods to their pets. Always under pressure to innovate their products, pet food manufacturers seek to incorporate new ingredients that add flavor and nutritional value to their recipes, while reducing and eliminating artificial ingredients and preservatives— all with consideration to maintaining their products' pet appeal and reducing product costs.

Product development is important to those pet food manufacturers who want to quickly develop and introduce products to their retailers, grocery stores, restaurants and end consumers. With the rising costs of meat, vegetable and grain ingredients, having visibility to product costs from the time of conception through production is one key to controlling product margins. Federal regulations for pet food must be complied with, and in some areas are stricter than human food regulations. With just these objectives in mind, it's no wonder that forward thinking pet food manufacturers are upgrading their software systems to accelerate product development, scale up production, reduce costs, and ensure quality and compliance.

Let's address a few challenges that were faced and overcome by many food manufacturing customers employing BatchMaster ERP:



Bring New Products to Market

Manufacturers want to quickly and accurately adjust the ingredients of their base intermediates and finished goods recipes to meet their physical, nutritional and cost target property values.

Run High Volume, Continuous Production

High volume manufacturers with national and regional retail chain and food distributor customers typically run relatively small selection of products through automated production lines. They want to release large batch runs then monitor products and equipment along their automated lines in order to adjust their equipment settings. Their goal is to keep the continuous process flowing with minimum user involvement, such as starting and closing batch jobs at each step or process cell.

Control Inventory Levels

In order to optimize their resources, manufacturers want more granular, yet easier to use demand planning and production scheduling tools that will consolidate demand, calculate the correct number of batch production orders, and help one balance inventory levels for raw materials, finished goods and intermediates or bases that can yield a variety of finished goods. In addition, they look for assistance in making better informed raw material procurement decisions, such as automating the generation of purchase requisitions.

Reduce Waste and Improve Yields

Food manufacturers want better accountability to minimize stales, spoilage and other losses, as well as avoid over production. Improved reconciliation reporting of production of yields at blending and mixing through packaging is desired in order to track and reconcile losses at each step. In addition, manufacturers need accurate demand planning and production scheduling information in order to make more informed raw material procurement decisions.

Ensure Product Freshness on Retail Shelves

Those manufacturers that produce refrigerated goods want better control over their stored ingredients and shipped finished goods, including mandated QC inspection of received ingredients and stability tests of stored base inventory and finished goods.

Comply with FDA and FSMA mandates

Lot traceability is of major concern to those companies whose products have longer shelf life or contain ingredients that are historically subject to recall. The creation and assignment of lot numbers at the time of receiving and production is a challenge to many manufacturers, so automating these processes is desirable. When performing a product recall, the ability to quickly track and trace suspect products from suppliers to customers, from customers to suppliers or anywhere within production in minutes, not in days, is a requirement.

Generate Product Labels

Some manufacturers want to generate ingredient statements on demand, so if these ingredients are identified in USDA or Genesis, the software should have access to these ingredients' physical and nutritional values.

Increase Margins and Profitability

To increase the bottom line, companies need to analyze their expected vs actual costs from conception thru production to customer shipments. Managers want better visibility to raw material costs, based upon last purchased, standard and projected prices, and accurately capture and track the static, scalable and tiered costs associated to labor, energy, water and other resources. In addition, purchasing wants to negotiate better terms for those raw materials for which demand planning has determined there is a consolidated demand. And to increase the top line, sales recognize that they can retain existing customers and gain new ones with demonstrated predictability, scalability and compliance across their company's operations.



Key Manufacturing Features

BatchMaster Manufacturing for Food supports product development, production, quality, costing, compliance, planning, scheduling and mobile warehousing. Food manufacturing capabilities can be quickly added to today's leading financial applications, specifically QuickBooks, Sage 100 & 300, Microsoft Dynamics GP and SAP Business One.

Lab and Samples

New product requests from internal and external sources can be managed from product development thru production to acceptance, including internal and customer approval workflows and communications. With access to USDA , Genesis and user defined item physical and nutritional information, the system identifies those ingredients that cause intermediate base or finished good products' property values to be outside the tolerances for protein, fat, fiber, moisture, ash and taurine levels. And when necessary, theoretical ingredient property values can be used in the recipe calculations.

Separate Recipes and Packaging Bills of Material

In BatchMaster ERP, recipe specifications and packaging bills of material are managed separately. Expected losses and gains expected during production are defined within the recipes. Product developers can perform what if analysis scenarios against a recipe and then compare multiple recipes against each other, side by side. QC tests, special manufacturing instructions, direct and indirect costs can all be assigned to both recipes and packaging BOMs. With visibility to all finished good specifications, one can create intermediate base recipes, which can be made to stock or made to order. Multilevel workflows expedite the review and approval of recipe and packaging specifications across departments.

Inventory

BatchMaster ERP captures, manages and reports on inventory levels in terms of weight, volume and units, as well as quality statuses, expiration dates, lot numbers, and strengths. An item's organic, non GMO and other certification documentation are maintained within the item record.

Planning and Scheduling

Standing orders, sales orders and forecast entries can be used as finished goods demand inputs; inventory levels, batch production jobs, and receipts can be used as supply inputs. An accurate, detailed plan for batch production orders can be generated down to the various production steps or process cells within the production lines. Planning and scheduling takes into account the rates and capacities of mixers, fillers, packagers or other process cell equipment. Real time production adds and cuts, as well as equipment maintenance and changeovers, can easily be entered and managed using the graphical scheduling tools. To ensure these batch jobs yield their expected results, demand planning can generate the required purchase requisitions to avoid shortages or rescheduling.

Production

BatchMaster ERP aggregates demand for finished goods, creates the optimal number of batch jobs across the production stages or process cells, allocates the best inventory and back schedules the batch jobs. Recipes can be dynamically adjusted to compensate for available inventory characteristics (e.g. protein, fat, fiber, moisture, etc) in order to meet specified target characteristics. Batch job releases and completions can be managed on an individual basis, which initiates all the necessary inventory pulls, QC tests and manufacturing instructions. Certain batch jobs can be linked together and back scheduled or sequenced using the Super Batch feature. Manufacturers can manually capture inventory usage or automatically back flush inventory when closing batch jobs, as well as capture actual costs and other batch job data.

Quality

System libraries for sample inspections, QC tests, checklists and special manufacturing instructions against recipes, finished goods, equipment and processes can be established. Received goods may be quarantined until associated vendor samples are released by QA. In terms of ensuring the freshness and stability of certain stored ingredients, users can be directed to check intermediate and finished good inventory in storage. Some procedures may just be informative in nature, where others require an acknowledgement or simple data entry. QC tests for microbial, pH, specific gravity, and other conditions require data collection and validation, and may result in further retesting or reworking. In all situations, the manual or system assignment of quality statuses to inventory will determine its disposition and availability. Customizable COAs are generated upon batch job completions.

Costing

Raw materials costs based upon last purchase price, standard costs, or projected costs are rolled up along with fixed, tiered and scalable labor costs. Cost estimates can be managed during product development of product recipes, including intermediate bases, and packaging BOMs. Actual costs, yields and other KPI's are captured during production, and can be compared against projections in a variety of analytic reports.

Compliance - Food Safety, Lot Traceability and Labeling

Lot number information is captured or auto generated at the time of receiving, auto generated for intermediates and finished goods, and then validated during finished goods distribution. A bi-directional view of lot controlled inventory enables users to track the

creation and movement of suspect products, from delivery to shipping, shipping to delivery, and anywhere within production. BatchMaster ERP generates GFSI and FDA related documents, customized recall reports and personalized customer letters. In terms of production labeling, ingredient panels that address protein, fat, fiber, moisture, ash and taurine percentages plus organic and non GMO claims can be generated on demand. From an IT perspective, all key transactions are maintained in history logs for auditing purposes, including recipe approvals, batch job changes and QA releases.

Mobile

Warehouse activities that support receiving through production to shipping tasks, including manufacturing related inquiries, QC related inspections and instructions can be executed via mobile devices.

Dashboards and Reporting

Customizable role-based screens provide visibility to critical manufacturing data, including inventory consumption and balances, actual versus expected yields and costs, and quality control results and trends.



Key Front Office Features

Available as a total financial and manufacturing ERP solution, BatchMaster ERP for Food adds a tailored front office suite, including CRM, to its process manufacturing suite. Front office modules include:

Accounting and Financials:

Capture, measure, analyze and report the cost of doing business, specifically the cost of intermediates and finished goods from the lab through to customer shipment.

Sales:

Convert sales quotations into customer samples, then track and report on the status and profitability of every customer campaign, quote and order shipment, including their discounts and promotions.

Purchasing:

Employ economies of scale to purchase raw materials from approved, certified vendors to feed planned batch production jobs created from demand planning.

Maintenance:

Plan, schedule, and execute predictive and preventive maintenance activities against production line and warehouse equipment to optimize equipment availability and utilization.

Distribution:

Effectively manage store replenishments, inbound and outbound activities across one or more facilities, as well as inter warehouse transfers.



Recognize These Benefits

By gaining greater control over product development and production, improving planning and scheduling, balancing inventory, and reducing costs and variances, pet food manufacturers employing BatchMaster Software solutions are increasing their profit margins, gaining market share and improving their bottom line.

Rapidly Develop New Products:

To satisfy consumer desire for more health conscious pet food products, ones that are protein and nutritional value, without unwanted additives and preservatives, your team of product developers will have the tools to speed their development processes. Advanced programming reduces your time spent on tedious, error-prone manual calculations in designing, updating and approving products that meet your targeted physical, nutritional and financial target property values.

Better Inventory Control:

Accurate, granular demand planning and production scheduling optimizes your procurement and production of raw materials and finished goods, respectively, which will give you better control over inventory balances and space utilization within your plants.

Quickly Scale Up Production:

Automation of your batch and continuous flow production processes reduces the need for manual intervention. Dynamic recipe adjustments, auto sizing and scheduling of batch job all work together to streamline production, while reducing the delays, risks and costs of operational downtimes. The establishment of a comprehensive, online quality program allows you to improve current processes, keep production line equipment settings at their optimal settings and ensure your manufacturing processes can meet the increased in demand.

Avoid Customer and Industry Fines and Penalties:

Keep compliant with industry specific and federal regulations, in terms of ingredient declarations, lot traceability and recall requirements. Bi-directional lot tracing enables you to report on suspect products in minutes, not days - minimizing the scope of the recall. You can now establish effective mock recall programs with your suppliers and customers. By establishing a comprehensive quality program, you can avoid customer chargebacks, buy-backs and returns due to order shortages and shelf life issues. And with a thorough and easily accessible audit trail of key business transactions, you will be in compliance with your auditors' record-keeping requirements.

Reduce Costs:

Development tools that run recipe cost “what if” scenarios and comparisons help you control product costs for both intermediates and finished goods. Demand planning and production scheduling reduce the costs of excessive labor and inventory, as well as the costs associated to equipment clean-downs and changeovers. And with a quality program enacted at the time of receiving thru customer shipments, you will reduce the cost of spoilage and stales.

Increase Sales:

Leverage the system's advanced quality, traceability and compliance capabilities to not only retain your valuable customers, but to gain new ones.

Improve Management Reporting and Analysis:

Customizable role-based screens provide you with accurate, real-time visibility to those key metrics that will help you to make better informed decisions, faster, and maintain your competitive edge.



Take The Next Step

BatchMaster Software's solutions for the pet food industry give you greater control over your business, from sales, procurement, and manufacturing to accounting and customer service. Deployed as either an add-on to your existing financial solution or as an end to end, financial and manufacturing solution, you gain system adaptability, accountability, reliability, scalability and traceability – all the system abilities you need to profitably grow your business.

As an industry focused solution provider, BatchMaster Software is ready to help you meet your business objectives, so please contact us today to discuss your business requirements:

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