



**BEAS**  
MANUFACTURING

TRANSFORMING YOUR  
FOOD & BEVERAGE BUSINESS

# BECOME MORE EFFECTIVE WITH BEAS MANUFACTURING



**SAP**® Certified  
SAP Business One Integration

# Supporting **Key Initiatives** for the **Food & Beverage Industry**

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**The food and beverage industry is defined by its growing complexity, tight competition and the ongoing need to comply with regulatory requirements and innovate new products in order to keep pace with consumer and major retailer demands. On top of that, margins are thinning, and the price of commodities is constantly changing. The combination of these factors puts added pressure on food and beverage companies to achieve increased growth targets and revenue.**

Many advanced technologies are on the forefront of servicing the world of food manufacturing, a few of them being:

- Blockchain is being explored to assist in the tracking of food origins. From soil management to livestock raising, blockchain can be used for a true field to fork experience.
- IoT is also being explored in terms of smart labeling, where RFID can be used to track food movement, locations, temperatures and chemical properties.
- Fresh food supply chains are becoming shorter and faster in a bid to retain product life.
- Innovation abounds, including intelligent packaging with biosensors indicating freshness.
- Many companies are investigating Industry 4.0 and are starting to analyze how to implement this technology.
- Machine learning will enable food and beverage manufacturers to respond to demand in real time.
- Consumers are demanding high-quality, healthy, inexpensive food that can be delivered quickly.

In order to successfully compete, manufacturers must find ways to adapt and target efficiency in the future.

Food and Beverage manufacturers will be forced to innovate due to the volume of orders, increased product variety and rapid product development and distribution. The supply chain is becoming more complex and the companies that succeed will be those that simplify it.

At Boyum IT we understand your industry and the fact that choosing the right business solution and technology partner is key to your future success.

Beas Manufacturing provides manufacturers with a scalable platform to enhance cross-company collaboration and process execution to improve operational performance, increase asset reliability, maintain quality enforcement, provide consumer traceability and improve recipe agility.



**COMPLETE INTEGRATED SOLUTION FOR SAP BUSINESS ONE**

**BEAS MANUFACTURING HAS OVER 20 YEARS OF INDUSTRY EXPERIENCE**

**BUILT ON INDUSTRY BEST PRACTICE AND MARKET KNOWLEDGE**

**LARGEST MANUFACTURING CUSTOMER BASE OF 900+ CUSTOMERS WITH 50+ OF THEM IN FOOD & BEVERAGE**

**BEAS MANUFACTURING RECEIVED MORE THAN 20 SAP BUSINESS ONE AWARDS**

**WORK WITH 650+ PARTNERS WORLDWIDE**

**SUPPORT OFFICES IN 9 GLOBAL LOCATIONS**

**WIDEST GEOGRAPHIC REACH OF 115 COUNTRIES**



## Easily understand **product margins**

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**Rising costs of raw materials and energy are putting pressure on food & beverage manufacturers. Margins are especially tight, so efficiency and productivity in all phases of the supply chain are important to remain financially viable. Reducing costs in every area is a primary concern and fluctuating commodity prices make streamlined operations all the more crucial.**

Beas is able to capture, assign and compare actual and standard costs for all finished products. The ability to capture true costs at batch level provides granular cost visibility, which is of paramount importance in the industry. This includes not only material costs, but labor, machine and overhead costs as well.

However, to achieve the above, you need to make sure all that information is integrated into one system, which is a challenge for most companies.

Using the Beas Manufacturing Data Integration Hub, we automate the complex and time-consuming process of entering BOM data and calculating accurate costs. By having this integration in place, a process that would usually take your highest-paid engineering staff a week to complete takes only a few minutes, allowing them to keep being productive and adding real value to the business.

# Optimize your production resources

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Accurately monitoring manufacturing to maximize throughput enables manufacturers to respond proactively to problems and reduce downtime in the plant. With increased complexity of bill of materials and multi-constraint production resources such as machines, tooling and labor skills, your ability to provide accurate customer delivery dates becomes a complex task. In some cases, production staff are recording data on paper creating a lack of production visibility, especially when trying to manually plan multiple resource types simultaneously.

These resources need to be optimized to maximize production output, and reduce changeover and setups, while meeting customer demand. With Beas Manufacturing capacity planning, initial delivery dates can be calculated via finite backward scheduling. When combined with Beas Manufacturing APS, both material availability and capacity can be scheduled together to calculate an accurate delivery date, allowing you to effectively plan large numbers of short run production orders.



**"BEAS MANUFACTURING HELPS US TO VERY PRECISELY CONTROL THE ENTIRE PRODUCTION PROCESS FOR ANY OF THE FORMATS WE WORK WITH."**



Aceites García de la Cruz

# Manage multiple product versions

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**Recipes and formulas in process manufacturing are not only complex, they also don't leave much room for error. A minor change in quantity for one ingredient can lead to quality management issues, and even compromise an entire batch. While defective production batches can be adjusted to improve their quality, this process can be very complex, since manufacturers need to take into account all of the possible effects of adding ingredients that were not part of the original recipe.**

Since creating perfect recipes or formulas is almost impossible in process manufacturing, there will always be a percentage of the final output comprised of waste. While it's very difficult to eliminate waste, process manufacturers can use ERP systems to calculate an estimated level of waste, track the actual waste and compare the two to improve efficiency in production operations.

As Food & Beverage manufacturers you should approach BOM change management as a strategic initiative. Create a systematic approach to automate how you update BOMs and communicate the updated BOM to every department that requires this information. With Beas Manufacturing revision management you can effectively manage several active BOMs at the same time.

With change impact analysis across the enterprise from forecasting to MRP, purchasing to production, and inventory to sales order, therefore managing the full life cycle and ensuring the correct products are available to meet customer demand.





## Simplify your inventory management

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**Real-time data access in production is vital whether it's related to products, processes, or machines operating in the factory. In the past, when production fell short of established goals, manufacturers traditionally added more machines and operators to the workforce. While raising output to accomplish production goals may have temporarily addressed the problem, it also raised overhead costs: increasing capital expense, utilities, facilities requirements, parts usage and so on. In addition, this increased the need for more supervisors and administrative personnel, thus increasing indirect labor costs.**

Traditionally, real time information access for processes has not been available at shop floor level. In the case of change in processes or actions, workers or machines would have to wait until instructions were manually transferred or data was loaded in the production system.

Factories in the future require the seamless integration of ERP and the shop-floor, and real time access to data at production level for real time execution.

With Beas shop floor data collection, inventory is balanced to ensure that the right components and quantities are in the warehouse at the right time. Data is collected from machines and business processes, then filtered, analyzed, and delivered in the required format to provide insights which, in return, help to give better process control, provide optimization and reduce overhead costs.

# Reduce the time required to meet Industry Quality Standards

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Unsafe, mislabeled or counterfeit products released into the market can damage a manufacturer's brand and destroy consumer trust. To maintain brand equity, food and beverage manufacturers must meet increasingly strict food safety, ingredient labeling and environmental regulations. To meet quality requirements at all times, operators require real-time feedback, and with so much regulatory oversight, food & beverage manufacturers need detailed information about the how, where and when of producing a product (genealogy) and where ingredients in each product came from (traceability). Technology that enables food and beverage manufacturers to digitize this process and provide objective evidence of quality and regulatory compliance can prevent fines and help manufacturers build trust with the customer.

Poor quality finished goods that reach the consumer can cause significant direct and indirect impact to a business. Digitally connected consumers react immediately to safety and quality incidents, which can erode brand equity and damage food and beverage manufacturers' reputations in the marketplace. Although it is ideal to avoid issues with quality and recalls altogether, incidents inevitably happen, and a faulty product may slip through the cracks. Having the ability to respond quickly to safety or quality issues with focused and faster recalls is key in our digital world.

Beas Manufacturing Quality Control allows enterprises to define what, when and how products are tested, providing a full audit and electronic documentation trail of the quality control procedures and processes, thus increasing overall product quality and levels of traceability.





**"BEAS MANUFACTURING AND SAP BUSINESS ONE HELP US GET A CLEAR OVERVIEW OF OUR PRODUCTION."**

**"The actual product cost is generated alongside the production, in real time. When the production is complete we have the corresponding cost."**

**Mole Don Pancho**

## Get **real time visibility** of your business performance

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**Companies that depend on product consistency require operational discipline, regardless of location or equipment – with consistency in specification and quality assurance, procedural enforcement, production tracking and material traceability. Beas Manufacturing helps to improve production execution and control, allowing food & beverage manufacturers to achieve high product consistency. Increasing the quantity and accuracy of production information gives great insight into daily food & beverage operations.**

Beas Manufacturing provides a wide array of functions to help you keep track of every relevant aspect in production planning. For example, if the expiration of raw materials is a problem, Beas Manufacturing offers a report that identifies all the lots that are going to expire

within a certain amount of days. Additionally, planned downtimes can be managed on the resources' maintenance calendar, and production scheduling can be automatically moved from a stopped resource to an active resource.

In addition, this solution allows you to easily build dashboards and define KPIs that will deliver real-time information, placing you in front of your business so you can quickly adapt and maintain your competitive advantage in the market. Data is stored centrally and online, not in offline spreadsheets, thus eliminating manual entry of data into reporting tools and increasing accuracy. The collection and processing of data can even be automated, supporting timely and informed decision-making.



## Beas Manufacturing **scales** as your business **grows**

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**As your business grows and changes, you need a solution that can scale and adapt to it. Beas Manufacturing is modular in its design and offers flexibility in deployment, as modules can be purchased and activated during appropriate phases of implementation.**

The key vehicle that transforms Beas Manufacturing for Food & Beverage into a successful business solution is the embracing of SAP AIM (Accelerated Implementation Methodology). We are working with more than 680 partners worldwide and provide them with global support from more than 9 global locations.

Our partners have access to our Beas Manufacturing specialists for any questions they have around project quality assurance or functional support, so ensuring that you, their customer, is getting the best service.

We provide our partners and customers with on-site training workshops, eLearning courses and implementations tools, which are founded in over 17 years of manufacturing experience. Beas Manufacturing is a long-term investment and we provide a flexible solution which you can, at any point in time, extend and enhance as your business requirements change.



## Industry **leading** solution provider

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Boyum IT Solutions is today the global leading software solution provider in the SAP Business One ecosystem and have received more than 20 SAP awards. Among these are the SAP Global Solution of the Year Award and People's Choice Award, which we received for the last 4 years.

We have the largest partner and customer ecosystems, with a presence in 115 countries and just over 9,000 customers and 200,000 users.

