



bestmix[®]software

Profit-driven feed formulation

Smart lab data management

Balanced ration calculation



adifo software

LEAST-COST
Least-cost formulation and production

STRATEGIC
Strategic purchasing and optimum ingredient allocation

PREMIX
Premix and concentrates calculation and optimization

REPORT
Label and graphical report generation

MAXIMIZATION
Margin and profit maximization

Strategic to your business goals

Formulation managers have an increasingly strategic role to play in the highly competitive markets. The aim remains to formulate recipes at the best quality and the lowest cost, despite the volatility of ingredient quality and prices and the constant tightening of regulations. You have to deal with all these factors at all levels of your organization and in all steps of your value chain.

In this challenging context, the support of a dedicated software partner is vital: to automate your processes, to streamline your information flow, and to unlock the potential of your global company data.



Formulation and optimization software

BESTMIX® allows you to least-cost your products, taking into account all the quality requirements, factory specifications, health and safety requirements, and environmental and legal aspects of your business. The resulting optimum recipe is directly translated into a practical product and is synchronized with labelling data and safety data sheets when needed. BESTMIX® enables you to easily manage nutritional values, production parameters, recipe specifications, available ingredient stocks, purchasing positions, material cost prices and other conditions. This means you can guarantee to deliver the best product for your customers, at the lowest cost, under any condition – and at any time.

BESTMIX® has been a major player in formulation solutions for feed-related industries for more than thirty years now. We invest continually and significantly in R&D to develop, with our clients, the most useful solutions and services that not only make it easy for you to comply with emerging regulatory requirements and future market trends but also enable you to stay ahead of the competition.



// We process centrally more than 2,000 formulas for 11 plants. BESTMIX® means we can do this efficiently due to its huge database capacity and excellent multiblend and multiplant opportunities. **//**

Frau Maïke Amelsberg, Formulation Specialist at Deutsche Tiernahrung Cremer GmbH & Co. KG.



// We have 7 feed plants in 4 countries (China, Korea, the Philippines and Vietnam) and use about 200 recipes. BESTMIX® feed formulation and BESTMIX® LIMS software ensure efficient and accurate formulations. The Multiperiod Multiblend module especially provides an optimum solution for purchasing amounts and positions, guaranteeing the best use of ingredients in different plants, and reducing our raw material costs. **//**

Wonbae Kim, R/D Center, Feed Formulator at Sunjin Co., Ltd.

The best quality at the lowest cost

BESTMIX® allows you to formulate the best product at the lowest cost. You can easily add or change high level and advanced constraints and parameters. That flexibility enables you to continually respond to changes in nutritional knowledge, production constraints or ingredient availability and prices.

Master the most complex recipes

You can formulate your products with the **most detailed** set of quality constraints, including nutritional requirements (such as energy, digestible amino acids, fatty acids), technical product specifications (texture, colour, density etc.) and other production constraints (evaporation, processing losses). A direct link with your lab results enables you to adjust your production process on line and cope with varying ingredient batch qualities.

You can optimize your master compound, including several levels of individual sub-compounds. You can easily optimize **multiple recipes in an interactive way**, for one or several production plants. You can add specific allocation constraints at each level.



Be more profitable

You can **anticipate the nutritional losses and conversions** your product undergoes during processing right through to end product. What's more, you can optimize the 'net energy' intake of the animal instead of the 'digestible' or 'metabolizable' energy in your product. This means you gain several percentages in profit. The complex equations to deal with the scientific background are seamlessly integrated into the formulation. You can rule out the hidden costs of overdosing ingredients by correcting your formulation for moisture evaporation or feed density. This invaluable formulation know-how, built into BESTMIX®, can be **integrated easily** with knowledge from your own R&D department.

Take the right purchasing decisions

You can react **fast and effectively** to changes in your ingredients' availability and prices. Purchasing decisions become more reliable because you can evaluate your purchasing contracts using up-to-date information. The built-in knowledge of your database enables you to evaluate every specific stock quantity and to break down costs to ingredient level and calculate handling and transport costs, and to assess specific quality. You can **evaluate the impact** of your purchasing decisions at any time. By simulating alternative ingredients in a separate intelligent simulation database, you can optimize your purchasing strategy without revising current production recipes.



// We are more flexible than ever, now we've implemented BESTMIX® in almost all the countries in which we are active. If a production line closes down temporarily, this future-oriented program allows us to switch production to the nearest company. Which is why we will be implementing it in many more countries. **//**

Bas Schutte, Formulation Manager at Trouw Nutrition International.



// Following the global implementation of the BESTMIX® feed formulation software, we are now implementing BESTMIX® LIMS to manage, among other things, the NIR analyses from our different factories. BESTMIX® LIMS will allow us to evaluate this NIR data efficiently and use it to update the ingredient matrix of BESTMIX® feed formulation, resulting in a more accurate feed formulation and more added value for our customers. **//**

Luciano Roppa, Vice President Feed Solutions Provimi.

Strong position in worldwide market

Maximizing your company's performance means empowering all your organization's intermediaries and branches. BESTMIX® provides you with a helicopter view of your production processes and enables you to effectively distribute new knowledge and know-how.

Allocate to the right time and place

Smart tactics for allocating ingredients can save you a lot of money. What plant will you send the lot to? Or should you sell it, in view of the current market prices? **Allocate the ingredients** to the most appropriate products, plants and periods.

A central raw materials database automatically provides you with **real-time data** of all plant-specific ingredient availability, quality and prices – including time-dependent ERP contract information and dynamic feed evaluations. Your calculations will always reflect the real costs of allocation: including transport, handling and specific quality characteristics, with the possibility of breaking down costs to individual plant and even compound level.



Empower every link in your value chain

Centralized formulation management empowers each one of your subdivisions, letting them meet their client's requirements with cutting-edge performance. It is the fastest and most efficient way of making **sector-specific expert knowledge** available to your local subdivisions. When you adapt parameters and constraints to the latest business knowledge or research results, your local recipe formulators are automatically updated at the same time. This allows you to steer your organization and reinforce each step in the process.

React immediately to changes or failures

The speed of decision making is crucial when responding to changed market requirements or product failures. A reliable, **centralized and integrated information database** allows you to control – in real time – all crucial parameters down to the smallest branch in your global organization. One click of the mouse reveals all the information you need, enabling you to perform quick analyses and simulations.



// We use BESTMIX® to formulate about 1,600 formulas in 8 plants. BESTMIX® saves us a lot of time due to its extensive multiblend functionality and its strong integration with ERP and production. BESTMIX® thinks ahead, as we can already generate Carbon Foot Print information and publish it on our labels as customer information. We will be using many more BESTMIX® functions in the future. **//**

Egon Gårdeson, Formulation Specialist at Svenska Lantmännen.



// We use one central BESTMIX® to optimize more than 6,500 formulas in 30 factories. Not only does it give us more and accurate information but also it allows us to communicate between different systems with different file structures. **//**

Rudolf de Bruin, Head formulations NL, De Heus Voeders B.V.

High efficiency for excellent user experience

BESTMIX® guarantees streamlined workflows, fewer errors and recalls, and happy users. Because the user-friendly software has a familiar interface, customization is a breeze. It may rely on a uniform easy-to-access database, but it never relaxes its data security or reduces its reliability.

Do more in less time

BESTMIX® makes your life easier. The interface is intuitive and easy to use and, at the same time, it provides the features you need for your specific business needs. Based on Microsoft standards, it **integrates seamlessly** with other business applications and guarantees automatic and faultless data import and export.

The **'single screen handling'** helps you navigate easily through your data without traditional screen menus or selection buttons. You can perform several analyses and comparisons on your key data, always keeping the desired overview and detail on the same screen.



Secure your knowledge

The central application server means you don't have to install or store data on local PCs. Updates, upgrades and data backups are all centrally controlled. Your data is **safe from loss and leakage** because storage is encrypted and transferred over a secure line to authenticated users with dedicated access levels. BESTMIX® guides you through the formulation process step by step. At each stage, you can roll back or use **supervisor verification** before continuing.

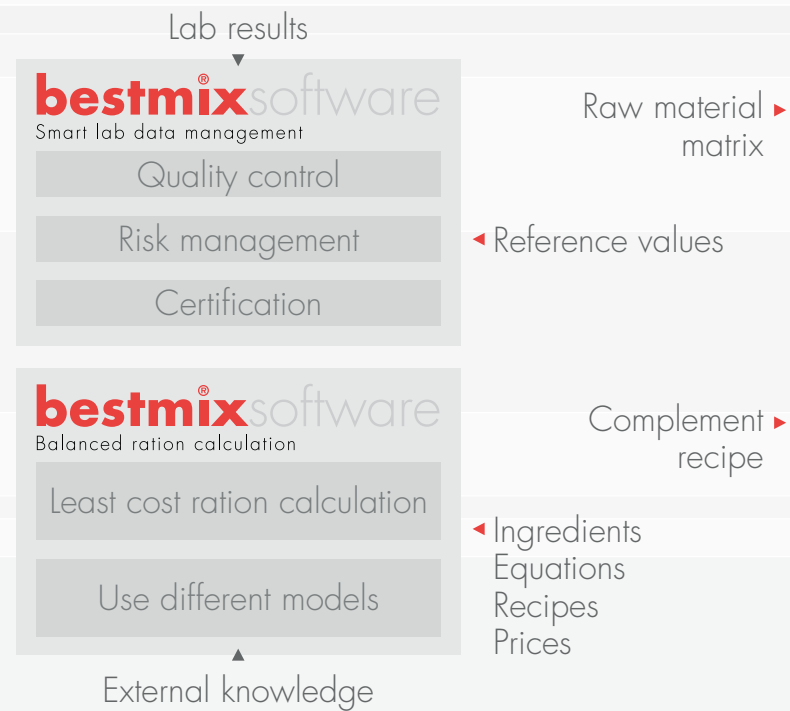
The reliability of data input is guaranteed thanks to the built-in **input control** and verification mechanisms.

Rely on sector-specific advice

All our consultants are familiar with the nutrition-related industries and are dedicated to the sector. When you deal with our people – when they install your software, train your key users, or help you out with a support question – they will **speak your language**. That's the language of your country and your business.

From recipe to end product

Manage your entire process flow – from recipe to end product – by supplementing BESTMIX® with two complementary modules: BESTMIX® Ration Calculation and BESTMIX® LIMS. Together with MILAS® ERP, these modules are subject to the same standards and test procedures to guarantee maximum software reliability. Like all Adifo software, they integrate smoothly with common business applications, letting you import and export data with ease.



bestmixsoftware Balanced ration calculation

Farmer-specific advice

Your job as account manager or independent consultant is to improve the production output of your customers – the farmer – by translating top-notch knowledge into tailor-made client advice. BESTMIX® Ration Calculation **determines the perfectly balanced ration** at the lowest cost for each individual animal, based on the real nutritional requirements that correspond to the animal's production stage (weight gain at a certain body weight or milk production in a certain lactation period, etc.). You can choose between a continuously growing number of models and modules for different animal types. The optimization algorithms combine external feed-related information from your R&D department, research institutes and laboratories with livestock data from the farmer. The system also enables you to work with home-grown materials easily and effortlessly.

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Profit-driven feed formulation

Least cost formulation

Regulatory compliance

Label management

Manage production parameters

Raw material purchase decision

Raw material allocation

Optimum recipes ▶
Labels

◀ Production forecast
Stock
Contract positions
Ingredient prices

Optimum recipes ▶
Labels

milas[®]software

Value-driven logistics & financials

Standard ERP

Contract management

Price calculation

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Production

bestmix[®]software

Smart lab data management

Quality management adapted to your needs

BESTMIX[®] LIMS gives you the link between your formulation process and real lab measurements. You can automate the processing of results generated by NIR instruments, analytical scales and other devices. Standard interfaces are provided to ease the import of analysis results from external laboratories. By managing your lab data in a smart way, you save time and convert your lab results into valuable business knowledge.

BESTMIX[®] LIMS is a **smart Lab Information Management System**, completely tailored to the specific needs of feed-related industries. It enables you to respond to the ever-growing requirements of quality control, risk management, certifications and legislation, without having to implement a complex and fully-fledged LIMS system. BESTMIX[®] LIMS lets you structure and optimize your sample management processes and dispatch results to the rest of your organization in a consistent and flexible way.

milas[®]software

Value-driven logistics & financials

Specialized ERP for your industry

Streamline your purchasing, warehousing, sales and invoicing processes with an Enterprise Resource Planning (ERP) system tailored to the food and feed industries.

MILAS[®] ERP is based on Microsoft Dynamics AX, industry-standard technology, ensuring you of a **future-proof basis** for your company's computerization. In addition, it has been developed with a focus on feed and food industries. Our consultants don't need much from you to understand your business needs and they are perfectly familiar with your terminology. Implementing MILAS[®] ERP results in a smooth interface between plants, bulk loading, route planning, weigh bridges and more feed and food business specifics. The seamless integration with BESTMIX[®] enables you to link automatically with recipes, labels, prices, contract positions and on-hand stock situations.

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Four reasons to choose Adifo

- We are familiar with your specific business processes and challenges.
- We arrive quickly at the most appropriate software solution, containing many sector-specific functions
- We follow closely the latest developments, trends and legislation.
- We incorporate proactively all of this sector knowledge into our software.

So you're always one step ahead.

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Adding value to nutrition industries