



Master Planning

Let automated optimization do the heavy lifting

Create smart, executable production plans that drive results

For manufacturers, master planning determines what to produce, when, and in what quantities. Creating optimal multi-site plans that align with business goals is challenging as supply chain constraints, data silos, and planning disconnects often get in the way. These problems can lead to:

- Inefficient plans that degrade customer service.
- Reduced capacity utilization.
- Inflated inventory costs.

All these directly impact your bottom line.

Without advanced tools, it's nearly impossible to consider all critical factors at once while creating and maintaining an effective plan for the upcoming weeks and months.

That's where RELEX Master Planning comes in.

Key benefits:



Improved service levels



Minimised manual work



Reduced operational and purchase costs



Boosted product availability



With RELEX Master Planning, you can:



Craft the most profitable, viable plan

RELEX automatically calculates and continuously updates the most optimal production and material purchasing plans—aligning with business goals, operational rules, and capacity constraints.



Increase service levels and customer satisfaction

Meeting fluctuating customer demand while keeping delivery promises—using only the materials and resources available—is a constant balancing act. The challenge intensifies with fresh products, where expiration dates and the push-pull planning dynamics add complexity. RELEX can handle precisely that.



Use production resources more efficiently

Production machinery, storage, labor, and tools have fixed capacity limits for a specific timeframe. Exceeding these limits isn't possible, but underutilization leads to wasted money. RELEX maximizes resource usage, identifies bottlenecks, and prevents capacity waste.



Reduce material spending

The availability and cost of materials play a crucial role in production efficiency and overall profitability. As part of Master Planning, RELEX ensures that material purchase orders are placed at the right time, in the correct quantities, and at the lowest possible cost.



Embrace touchless planning

By relieving planners of their daily manual workload, RELEX allows them to concentrate on more strategic decision-making. Utilizing AI, RELEX automates complex calculations and provides clear visibility into plans, KPIs, and important exceptions, enabling users to identify precisely where action is needed.

Measured KPIs from customer deployments



35%
reduction
in goods waste



2%
improvement in
production
efficiency



Up to **22%**
inventory
reduction



95%
delivery
performance



Key RELEX capabilities for successful master planning



Advanced AI driven optimization of production plans

RELEX combines mathematical optimization and heuristics to evaluate production options, considering demand forecasts, production capabilities, constraints, inventory penalties, product structures, alternatives, routings, and setup times. The result is an optimized plan balancing efficiency, cost, and service at daily and weekly levels.



Food and beverage specific advanced capabilities

In the food industry, freshness requirements, expiration dates, and recipe variations create complex planning challenges. RELEX addresses these with push-pull planning, reverse Bill of Materials, and recipe optimization features—maximizing profitability while reducing spoilage and waste throughout the supply chain.



Profit optimized purchase planning

RELEX helps automate the purchasing of raw materials, semi-finished goods, finished products, and packaging, generating accurate purchase order proposals based on optimized production plans. Additionally, RELEX supports multi-source procurement and allows taking advantage of bulk discounts, enabling smarter and more cost-effective purchasing decisions.



Configurability and adaptability via business rules

RELEX adapts to evolving business needs through its highly configurable platform. The intuitive UI allows users to create dashboards, modify workflows, adjust optimization models, and automate actions—all without coding. This empowers customers to independently manage their RELEX environment while enabling rapid implementation and ongoing development.



Seamlessly part of RELEX Supply Chain Planning

RELEX Master Planning is part of the RELEX end-to-end Supply Chain Planning solution, which offers unified technology across all planning functions. This scalable, AI-powered platform includes Demand Planning and Sensing, Master Planning, Distribution Planning, Inventory Planning, and Production Scheduling.

Why RELEX for Master Planning?



Purpose-built capabilities for Food and Beverage production.



Seamlessly part of the market leading E2E RELEX Supply Chain Planning.



Proven AI that enables advanced optimization at scale.



Unique UI based configurability and adaptability.

Learn more about how RELEX Master Planning can help you:

