



AGR - Inventory Optimiser

AGR is a software and engineering company founded in 1997. AGR specializes in software development, statistical and mathematical modeling, optimization, forecasting and other operational research projects, with its main emphasis on inventory planning.

LOWER INVENTORY HIGHER SERVICE LEVELS REDUCED WORKLOAD BETTER OVERVIEW

The Optimiser is specially designed for operations in retail, wholesale, distribution and manufacturing. It uses raw data from any ERP or transaction system and employs sophisticated forecasting methods along with established inventory management techniques to deliver proposals on purchases so as to minimize total inventory costs.

KEY FEATURES

Historical Data

The system makes it possible to view graphically historical sales, inventory levels and shortages.

Forecasting

The optimiser generates sales forecasts based on proven statistical forecasting methods, coupled with a powerful expert system that uses the most suitable forecasting method in each instance, taking into account historical sales, seasonal fluctuations, etc.

Purchasing recommendations

Established Inventory management methods based on the sales forecasts, demand variability and other preconditions are used to deliver manual or automatic purchasing recommendations that remove excess cost from the supply chain.

Supply chain structure

The product has the flexibility to fit any supply chain network from single location wholesalers to international retailers with numerous distribution centres and stores.

Integration and architecture

AGR Inventory Optimiser has a 3-tier architecture and has been integrated with various ERP systems. The system is programmed in C# utilizing Microsoft's newest .Net technology and initiative.

KEY ADVANTAGES

Inventory savings & reduced manual work by automating inventory management tasks.

Experience from our customers shows up to 30% reduction in inventory costs.

Improved service levels

Less manual work and increased automation

Increased overview with graphical display

Reduction in transportation costs with better utilisation of trucks and containers.

Implementation of new methodologies and smart thinking in the purchasing process

ADDITIONAL MODULES

ABC analyses Two-dimensional ABC analyses, classifying items simultaneously based on turnover value and sold units, e.g. AA, AC, BA, etc. This enables users to prioritize their efforts in terms of the importance of each product.

Vendor Managed Inventory (VMI) supports active collaboration between supplier and wholesaler. This module allows vendors to execute forecasts and order proposals based on their client's data and preconditions.

Supplier performance module enables monitoring of supplier's service level ratio both by order lines and the number of units ordered.

Purchase plans make it possible to create order plans for the future to increase vendor collaboration and information sharing.

Materials Requirement Planning (MRP) module makes it possible to calculate raw material needs for production items.

USER FRIENDLY INTERFACE

The item master shows detailed information on the chosen item. It gives a graphical overview of historical inventory development and sales figures while showing future forecasts and projected inventory level

Stock by location. Inventory levels can be viewed graphically by location, either in units or days.

Order proposals. The buyer reviews order proposals before sending them to the ERP system. The Item Master is updated automatically according to the item number that is being reviewed, showing historical sales, inventory levels and forecasts and enabling the purchaser to obtain a good overview of the past and future situations before making a final decision on how much of each item to order, as is shown in the picture above.

Scheduled proposals Automatic order proposals can be scheduled to take place weekly, monthly or on specific user-defined dates.

Management overview enables managers to evaluate the performance of various factors in the inventory system, such as stock value development, turnover, or turnover ratios for products, groups or locations, allowing them to closely monitor the performance of the system.

Sales adjustments for groups makes it possible for buyers to adjust the sale history for groups of items to influence forecasts.

USERS

"We have been Using AGR Inventory Optimiser since 2002 for inventory planning purposes in our distribution centre which supplies 3 major grocery chains. The payback on our investment was within our targeted time limit. The system has helped us to keep inventory costs down and save time in the buying process"

Lárus Óskarsson, CEO of Adfong (Subsidiary of Baugur) (www.baugur.is), Iceland

"AGR Inventory Optimiser has helped us to reduce inventory and increase service levels while minimising work in the buying process for the past two years. We are currently implementing the system at all our retail outlets"

Sigurður K. Pálsson, Purchasing manager, Iceland Oil Ltd. (www.olis.is), Iceland

"The reason for our Investment in AGR was simple: It makes my life a purchasing manager easy and it is able to do a lot more advanced calculations than our ERP system (Axapta) "

Davíð Hjalttested, Purchasing Manager, Karl K. Karlsson (www.karlsson.is), Iceland

"One of my first tasks after I completed the buyout of Sindra-Stal Ltd. was to ensure optimal inventory planning by investing in AGR's solution. That decision was based on prior experience with the system at two other companies I have managed in the past years"

Bogi Sigurodsson, CEO and owner, Sindra-Stal Ltd. (www.sindri.is), Iceland

"We chose AGR because of its user-friendliness and the small number of manual actions that have to be performed compared to other software. We were impressed by how clearly we could judge order proposals and influence sales history. Accurate orders can be made with only a small effort. We are planning to unroll AGR at all our 35 stores"

Thijs Prins, Supply Chain Manager, Bouwmaat Nederland B.V. (www.bouwmaat.nl), Holland