



QAD DYNASYS IN
INDUSTRIAL





QAD DYNASYS DSCP IS BUILT FOR INDUSTRIAL MANUFACTURING

Every manufacturer wants to meet the goal of delivering the right product, to the right place, at the right time, in the right quantity, all while managing margins and optimizing the supply chain. However, volatile B2B customer demand, pressure to deliver innovative new products, mass customization through customer-specific variations, complex global supply chains and aggressive competition make meeting these goals highly challenging.

Many successful industrial manufacturers that are producing products including chemicals, flexible packaging, discrete parts / components , engineered materials, assemblies and standalone equipment use QAD DynaSys DSCP (demand and supply chain planning) to address the challenges of modern business environments. DSCP helps manufacturers meet the needs of mixed production environments that include high-volume catalog items as well as single-customer SKU's. Individual product orders may be flexibly based on make to stock, configured to order, made to order or assembled to order demand.

The modern manufacturer has stringent goals associated with demand management, new product introduction and balancing global manufacturing resources. This balance must be achieved while optimizing global supply chains and achieving best in class customer service levels.

DSCP enables manufacturers to effectively optimize, analyze, simulate, collaborate, understand and plan all supply chain activities. Ultimately it allows the manufacturer to deliver the right product, to the right place, at the right time, in the right quantity.

VALUE & BENEFITS

Using DSCP results in several business benefits for the modern manufacturer:

- Improves demand visibility and forecasts in order to better respond to market fluctuations – across customers, products and geographies
- Allows for planning at both the product family and individual product levels
- Optimizes the use of material and human assets spread throughout the supply chain
- Streamlines customer fulfillment to reduce lead times and inventories while improving service levels
- Improves the profitability at both the customer and the order level
- Improves sales forecast accuracy

- Better manages product life cycles to improve global competitiveness
- Minimizes inventory costs including reducing costly inventory re-deployment for finished goods, sub-assemblies and components
- Streamlines the Sales and Operations Planning (S&OP) process including financial plan simulations
- Reduces supply chain costs by improving collaboration with customers and suppliers
- Reduces production and capacity bottlenecks by simulating alternatives
- Optimizes procurement's plans for critical components and end items, improving service levels and reducing logistic costs



BUILT ON A STRONG FOUNDATION

QAD DynaSys has been helping industrial manufacturing improve productivity and profitability through better supply chain decision-making since 1985. Significant recurring investment in research and development has resulted in QAD DynaSys solutions that are functionally powerful and easy to use while being highly configurable to align with manufacturer's individual needs.

BUILT WITH A CLEAR FOCUS

Focus on Demand Planning

Demand Planning offers a collaborative solution for developing demand forecasts, the starting point of supply chain decision-making for manufacturers. Sales forecasts are developed based on sales history and other data sources such as CRM (Customer Relationship Management) solutions, customer forecast-schedules or industry specific market intelligence. Demand forecasts can be further tuned through collaborative processes that tap into the market knowledge of key business users. Demand Planning carries out forecast calculations on multiple levels, uses a sophisticated statistical engine, and considers product life cycle. Dynamic Demand Planning decision-making is supported with numerous metrics and indicators including statistics on forecast accuracy, ABC classification, comparison of actual sales to budget and safety stock dimensioning.

Many manufacturers have to develop a coordinated set of resources that deliver both commodity items and make-to-order products that may be customized on an individual customer basis. The flexibility of QAD DynaSys solution allows for the configuration of the demand

planning process according to different markets, business units or production types (MTO, MTS, ATO). Users will be able to work with relevant data and intelligence in order to make better decisions and ultimately optimizing time and efforts.

Focus on Supply Chain Planning

DSCP includes complete features for distribution, production and procurement planning, and network and inventory optimization.

Distribution Planning coordinates the product flow across the entire logistics network. It enables users to model distribution networks, calculates distribution requirements across the network and provides graphical visualization of product flows. It includes a stock deployment algorithm reflecting

stock management strategies such as push flows, pull flows, priority and fair share. It simulates product flow scenarios by observing stock and customer service-rate projections.

Production Planning provides finite capacity planning for manufacturing and capacity and inventory optimization. It optimizes Master Production Scheduling (MPS) and/or Sales and Operations Planning (S&OP) according to demand, inventory policies and production constraints. Multiple algorithms enable planners to perform capacity smoothing while monitoring stock to better tune capacity utilization, optimize resources and synchronize different levels of production. The solution allows for monitoring through advanced KPI's. Inventory and capacity simulations can be performed which allows cost-based optimization.

Procurement Planning optimizes the master procurement plan and calculates the order and delivery plan for all purchased items including raw materials, packaging or finished goods. Procurement Planning optimizes an order plan according to production requirements, logistics constraints and inventory policies. It provides the ability to merge order quantities to attain carriage-paid or full containers, and makes it simple to propose alternative suppliers when required.

Network and Inventory Optimization offers strategic network flow management that economically optimizes the supply chain while facilitating the monitoring and management of budgetary activity. The optimization takes into account a large variety of costs including production, storage, transport and fixed site, and includes production or storage capacity constraints. This ensures manufacturers define optimal routes within their supply network.

DEMAND & SUPPLY CHAIN PLANNING
FOR INDUSTRIAL

CONTINUOUS IMPROVEMENT | REDUCE COSTS

OPTIMIZE PRODUCTION RESOURCES | IMPROVE TURNOVER & PRODUCT MARGIN

COLLABORATE EFFECTIVELY

PLAN, SIMULATE, OPTIMISE YOUR GLOBAL SUPPLY CHAIN

Focus on S&OP

DSCP facilitates the communication and decision-making process leading to balance supply and demand. It provides deep insight into the company's strategic objectives and operations to achieve optimal service levels that will drive product mix.

FUTURE PROOF TECHNOLOGY

QAD DynaSys cloud – safe, secure and available. DSCP is available in the QAD Cloud. QAD Cloud services are ISO certified and carry SSAE15 SOC 1 Type II certification. Business continuity is assured with comprehensive disaster recovery planning.

Mobility. DSCP user experience supports Web, mobile and touch screen user interfaces.

Analytics. As the IoT and machine learning deliver a greater number of data points, supply chain solutions must have a best-in-class capability to translate data into trends and decision grade analytics. DSCP seamlessly embeds capability from Qlik, a leading business analytics provider. This provides a beautiful and pleasant to use data experience supporting responsive and accurate decision making.

In-Memory. DSCP uses a highly scalable, rapid in-memory data model enabling real time simulation planning and effective decision support.

Integration. QAD DynaSys supports integration with QAD, SAP, Sage, JDE, Oracle, Infor, Microsoft and many other ERP and enterprise applications. It uses a data hub approach to exchange supply chain information across the organization and includes tool for building custom integrations.



QAD DynaSys Headquarters

Espace Européen de l'Entreprise
Immeuble Le Skansen 3 Allée de
Stockholm F - 67300
Schiltigheim
France
Tel: +33 (0) 3 88 19 14 14

QAD DynaSys UK

Sir Stanley Clarke House Quinton
Business Park,
Birmingham, B32 1AF
United Kingdom
Tel: +44 (0) 121 506 6500

QAD DynaSys USA

2651 Warrenville Rd
Suite 580
Downers Grove, IL 60615
USA
Tel: +1 (805) 566-4500

E-mail: contact@dys.com