

Transforming Engineering & Manufacturing™

Global Edge® 11.0 – Workgroup Edition **The Power to Succeed in a Global Market**

- **Automated Sales Quoting**
- **Automated Product Configuration / Drawing Generation**
- **Bill of Materials / Routings Management**
- **Project / Engineering Change Order Management**
- **Workflow / Document Control**
- **CAD / ERP Integration**
- **Shop Floor Integration**

Stay Ahead of Your Competition

Better, Faster, Cheaper

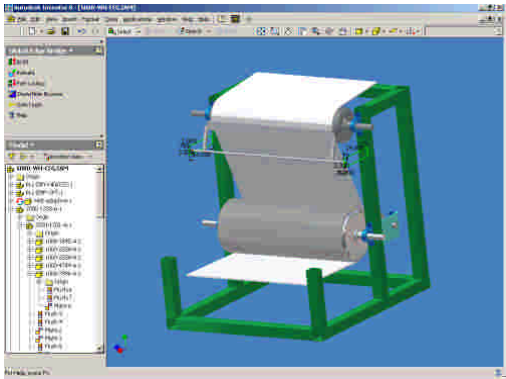
Staying ahead of your competition means finding innovative methods to increase sales, improve profitability and build customer loyalty. **Global Edge® 11.0 – Workgroup Edition** is the fast, efficient way to automate your “Engineer-to-Order” business to gain the maximum advantage of the latest technology. The engineers at Logic Design Corporation have identified the bottlenecks that prevent you from reaching your goals of faster growth and greater profitability. Automating Quoting, Product Configuration, Drawing Generation, Part Number Generation, Routings and Scheduling gives you the edge you need to compete and thrive in the limelight of a global market. Your sales people can focus on Selling and your engineers can focus on Innovation and Design. Purchasing and Manufacturing can deliver faster. Your customers get the price they want, the quality they demand, and the fast delivery they require. Don't let your competitors, foreign or domestic, have the edge. Logic Design Corporation and our strategic partners can provide you with the **Global Edge** you need.

Challenges	Solution
Accurate & Timely Quoting <ul style="list-style-type: none"> • Configure / Engineer Products for Quoting • Determine Accurate Material & Process Costs • Determine Accurate Delivery Dates • Accurate Cost Estimating • Timely Quote Compilation • Timely Customer Specification Drawings 	Global Edge – Sales & Quoting <ul style="list-style-type: none"> ✓ Automated Product Configuration ✓ Automated Bill of Materials / Routings ✓ Real-Time ERP Process & Material Costs ✓ Automated Cost-Roll-Ups ✓ Automated 3D CAD Drawing Generation ✓ Capacity Scheduling
Simple-to-Complex Product Configuration <ul style="list-style-type: none"> • Generate Accurate Bill of Materials / Routings • Increasing Design / Drafting Productivity • Maintain Consistent Design Standards 	Global Edge – Product Configurator <ul style="list-style-type: none"> ✓ Automated Product Configuration ✓ Automated Design Rules ✓ Automated BOM / Routings Generation ✓ Automated 3D CAD Drawing Generation
Project / Workflow / Document Management <ul style="list-style-type: none"> • Better Planning / Allocation of Project Resources • Reduce Engineering Cycle Times • Retrieval of Past Project Histories / Documents • Increase Design Reuse • Speed-Up Design & ECO Approval Process • Accurate Version & Release Control 	Global Edge – Engineering Management <ul style="list-style-type: none"> ✓ Effective ECO / Project Management ✓ Automated Workflow / Escalation ✓ Powerful Document “Where-Used” ✓ Document Check-In / Check-Out ✓ Drag & Drop Secure Vaulting ✓ Automated Revision Control
CAD / ERP Integration <ul style="list-style-type: none"> • Manual Retyping of BOM to ERP • Find Existing Parts / Drawings • Eliminate Duplicate Parts / Drawings • Synchronizing CAD Database with ERP 	Global Edge – CAD / ERP Interface <ul style="list-style-type: none"> ✓ “Real-Time” CAD / ERP Link ✓ Electronic Parts Catalog ✓ Automatic Part Number Generation ✓ Extensive Part Search & “Where-Used” ✓ Integrated Document Control
Shop Floor Integration <ul style="list-style-type: none"> • Improve Shop Floor Productivity • Shop Floor Work Instructions • Complete Routing Information / Distribution • Accurate Cut Lists • Access to Production Drawings • Integrating Data with Automated Production • Data Collection & Accurate Job Costing 	Global Edge – Integrated Manufacturing <ul style="list-style-type: none"> ✓ Shop Floor / ERP Integration ✓ Capacity Planning / Scheduling ✓ Shop Paper / Work Instructions ✓ Electronic Cut List ✓ Document Viewing ✓ CNC Program Check-Out ✓ ERP / PLC Integration ✓ Bar Code Data Collection

Configure Simple-to-Complex Products in a Matter of Minutes

Automated Sales Quoting & Product Configuration

Global Edge reduces the amount of time required to generate a sales quote for an "Engineered-to-Order" product from several hours to minutes. **Global Edge** incorporates engineering rules into the sales quoting process to include the automated creation of bill of materials and routings utilizing "Real-Time" material and process costs from ERP. **Global Edge** generates a product configuration based on customer specifications in a matter of seconds including a complete roll-up of material and process costs. This is accomplished by setting up **Global Edge** with a Master Configuration (template) required to configure and manufacture an "Engineered-to-Order" product. This is coupled with automatic parameterizing of an existing 3D template assembly drawing which eliminates the time to manually modify drawing dimensions from hours to literally seconds. **Global Edge** also greatly reduces the dependency on engineering for sales to produce accurate and timely sales quotes.



Global Edge automatically produces a 3D parameterized CAD drawing in seconds based on the output produced by the Product Configurator.

Automated Drawing Generation / Document Control

As the quote configuration is generated within **Global Edge**, the necessary information to parameterize a 3D CAD template drawing is produced. **Global Edge** automatically copies the proper CAD template drawings and renames them with the **Global Edge** Part Number Check-Out Functionality. Upon marking the quote "Awaiting" Engineering Approval, **Global Edge** launches the new configuration within the 3D CAD system. The **Global Edge** "CAD-Rebuild" function automatically rebuilds the new CAD configuration to match the new Quote Configuration. Engineering then has the option to modify the new CAD configuration and have **Global Edge** then update the Quote Configuration automatically. Once the Quote Configuration is approved by engineering, the new CAD Drawings are vaulted and the costs are re-rolled up to reflect any changes made by engineering. Once engineering approves the new configuration, sales can update the quote extended prices and submit the quote, including drawings and product delivery dates in a timely fashion.

CAD / ERP Interface

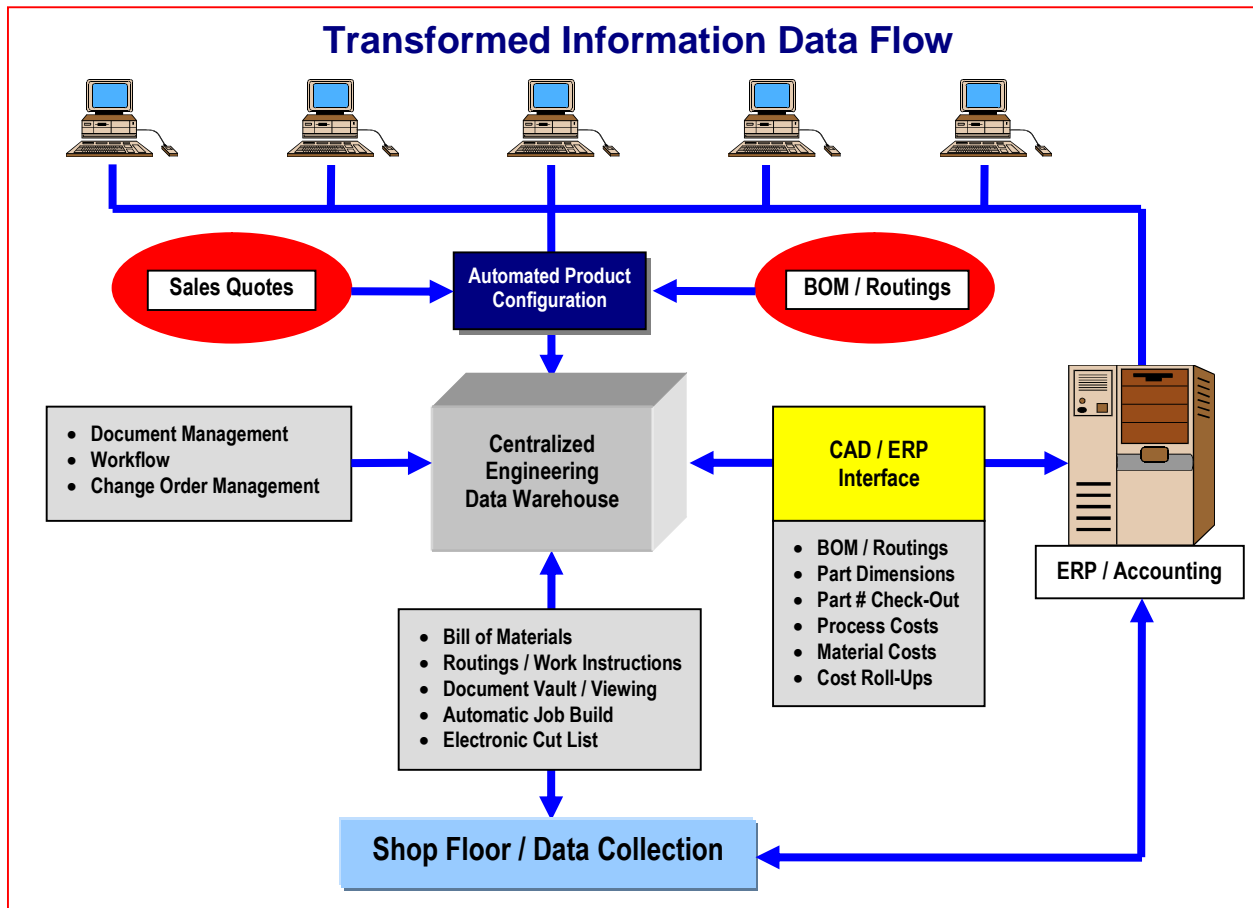
Global Edge provides a dynamic, "Real-Time" two-way product data link between 3D CAD and most ERP / Accounting systems. As new products are designed, or existing products are modified, **Global Edge** provides an automated real-time link to synchronize product bill of materials information between CAD drawings and your business system. **Global Edge** eliminates the manual retyping of bill of materials and routing information into the ERP system. Existing parts are easily found and reused instead of creating massive and expensive duplication of data and effort. As new parts and assemblies are created or modified in engineering, this information is dynamically updated and is made readily available at the enterprise level. Any customized changes are automatically updated in the assembly with the material and process costs re-rolled up and automatically updated back to ERP and the original sales quote. **Global Edge** improves information accuracy throughout the quoting and design process and eliminates retyping information from CAD back to ERP or vice versa.

Rapid Return-On-Investment

Global Edge provides a Rapid Return-On-Investment by automating many of the time consuming manual tasks associated with producing accurate sales quotes, producing CAD drawings, eliminating the manual typing of information between engineering and the enterprise. **Global Edge** helps insure your company is responsive to customers to provide accurate and timely information. **Global Edge** adapts to most product lines and eliminates the need for a custom programmed product configuration system. **Global Edge** helps manufacturing companies' stay ahead of the competition by doing more with existing resources.

Simplify Integrating Sales & Engineering with ERP / Shop Floor

Global Edge® 10.0 – Workgroup Edition starts with receiving specifications from the customer for a “Engineered-to-Order” product. Based on the specifications provided by the customer such as: Length, Width, Height, Input, Output, Colors, Options, etc., these variables when fed into **Global Edge** automatically produce complete bill of materials and routings, provides temporary or newly assigned part numbers with the part check-out feature, and roll-up all of the material and process costs from your ERP system to produce an accurate sales quote in a matter of seconds. The information produced by **Global Edge** creates the necessary information to parameterize 3D template CAD drawings to match the information created by the sales quote configuration. As information is produced in engineering, it is automatically updated in the ERP system and can produce a two way real-time flow of information with the shop floor.



Cycle time is shrinking – my customer wants everything “yesterday!”

“Within one year of implementing Global Edge the time from order entry to shipment of custom power supplies decreased from four months to three weeks.”

– John Garcia, V.P. Engineering, Lambda Electronics, Melville, New York

Reuse rather than re-create – quit reinventing the wheel!

“Without the Global Edge – Product Configurator, we would need to create hundreds of bill of materials (the list of damper components), which requires hundreds of engineering and clerical hours to create and maintain. Orders that once took up to four hours are now processed within 20 seconds.”

– Steve Yoder, Damper Cell Manager, Johnson Controls, Watertown, Wisconsin

Find the right information when you need it!

“Global Edge has reduced the time spent entering data and searching for information resulting in 50% more design time available.”

– Jeff Duxbury, Project Engineer, Nelson Industries, Black River Falls, Wisconsin

Article Reprint

Logic Design Configurator a Breath of Fresh Air

WHETHER YOUR OFFICE BUILDING IS COOL AND COMFORTABLE or hot and stuffy, depends in part on devices called dampers and actuators. When a building's HVAC system calls for customized dampers and actuators, that can mean a tremendous load of order processing and therefore added costs for the device supplier.

The Damper Production Facility at Milwaukee's Johnson Controls, Inc., the world's largest manufacturer of environmental control systems, has dramatically increased the number of custom orders it can process thanks to Informix partner Logic Design Corporation and its Global Edge - Product Configurator.

The Configurator is currently being used for custom orders in Johnson Control's damper production cell. A damper, consisting of a shroud, an actuator, movable blades, and a variety of other customizable options, range from a few inches to a couple of feet wide, are used to control airflow in various heating and cooling applications.

"Without the Configurator, we would need to create hundreds of bills of material (the list of damper components), which requires hundreds of engineering and clerical hours to create and maintain," says Steve Yoder, Damper Cell Manager for Johnson Controls.

Driven by the Informix Work Group Server database, the Global Edge - Product Configurator allows for real-time processing of complex custom orders requiring intricate configurations and calculations used by Johnson Control engineers. Orders that once took up to four hours are now processed within 20 seconds.

According to Lars Hedman, President of Logic Design Corporation, "What we're doing for Johnson Controls is finding a way to link all of their islands of information together, from engineering to enterprise resource planning to the shop floor."