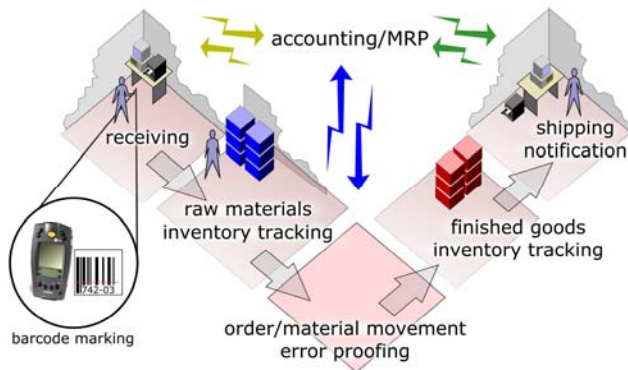


# diamond Material Tracking Suite (MTS)



**Diamond's automated data entry and tracking system adapts to your manufacturing practices and accounting system.**

Diamond MTS can be configured to include your unique naming conventions and business logic, with each user interface optimized for ease-of-use. MTS automates inventory, order, material movement data entry and reporting functions. Each MTS module can be tailored to your unique tracking and specific inventory consumption needs.



#### Highlights

- ◆ Save time with automated data entry
- ◆ Increase inventory control and accuracy
- ◆ Enable serialized tracking
- ◆ Speed and simplify inventory counting
- ◆ Reduce paper records storage
- ◆ Reduce shipping and data entry errors

#### Customizable Manufacturing Environments

- ◆ Work Order/ Discrete Manufacturing
- ◆ Batch Process
- ◆ Repetitive
- ◆ Job Shop
- ◆ Retail

#### Inventory/Cycle Count & Variance Reporting

- ◆ Accounting system import/export
- ◆ Real-time inventory validation
- ◆ Barcode and RF Scanner for physical counting
- ◆ Configurable cycle count and sampling logic
- ◆ Transaction History Log

#### Configurable Material Consumption & Error Proofing

- ◆ Multi-level Bill of Material (BOM) Consumption
- ◆ Actual and Theoretical Consumption with Back Flush
- ◆ Order
- ◆ Material
- ◆ Lot
- ◆ Bulk
- ◆ Serialized

#### Material Movement and History Tracking

- ◆ Inventory (Raw Material / Finished Goods)
- ◆ WIP Tracking
- ◆ Shipping
- ◆ Genealogy with Chain of Custody Traceability

#### Order Pick List Validation & Error Proofing

- ◆ Supports Barcode / RF Scanner for physical pick-to-ship
- ◆ Validates Material and Quantity, with Partial Pallet
- ◆ Supports FIFO Inventory
- ◆ Validates Customer Specific Labeling

Diamond provides a comprehensive suite of software products for manufacturing planning, operations management and industrial automation.

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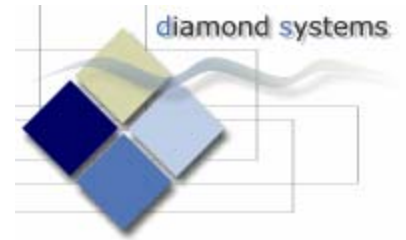


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Increase Operating Efficiency**

# diamond

## MTS Receiving



**Start your material tracking off right ... with efficient reception of raw goods for your manufacturing process**

*Diamonds MTS-One step receiving: Scan incoming materials, print custom barcode labels, and automatically update your accounting/MRP system. In one step. Receiving data is updated automatically, starting everything off right.*



### Highlights

- ◆ Ensure accurate visibility at the earliest opportunity
- ◆ Reduce manual data entry
- ◆ Identify and barcode received materials
- ◆ Automate accounting/MRP update
- ◆ Connect with order management systems
- ◆ Accurately identify received materials
- ◆ Eliminate double data entry
- ◆ Improve scheduling reliability

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### Barcode Labeling and Scanning

- ◆ Scan incoming supplier labels
- ◆ Create custom barcode labels
  - ◆ Location Id field
  - ◆ Supports multiple barcode formats
- ◆ User authentication and tracking
- ◆ Date/Time stamp
- ◆ A key component to 'starting right'

### Management

- ◆ Create and update user records
- ◆ Maintain customer records
- ◆ Maintain receiving history
- ◆ Efficient and easy to use ... It works!

### Automated Accounting/MRP Updates

- ◆ Integrates with Accounting/MRP
- ◆ Download purchase orders from Accounting/MRP
- ◆ Supports manual purchase order entry
- ◆ Supports receiving using Automated Shipment Notice (ASN)
- ◆ Eliminates double entry, saving time and increasing accuracy

### Just One Component of Diamond's Complete Material Tracking Suite

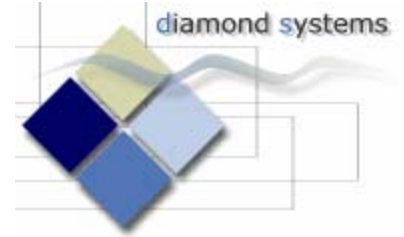
- ◆ MTS - Receiving
- ◆ MTS - Inventory
- ◆ MTS - WIP Tracking
- ◆ MTS - Shipping



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# diamond MTS Inventory

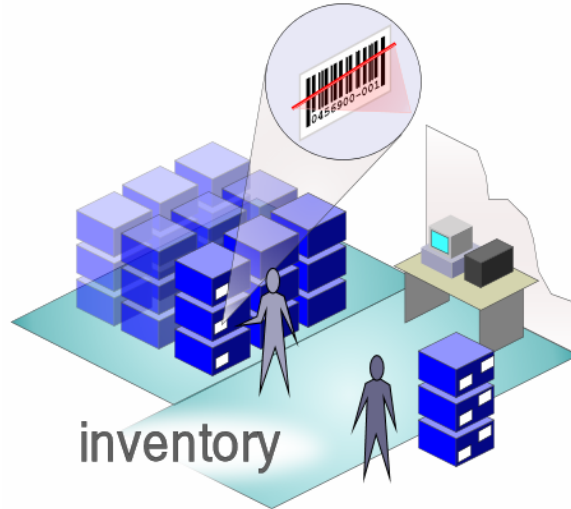


**Confidence and verification...quickly know inventory quantity, location and status**

Diamond's MTS-Inventory manages your inventory and automatically updates your accounting/MRP system with real-time inventory data.

## Highlights

- ◆ Know inventory status, location and amount in one easy step
- ◆ Automate accounting/ MRP inventory update
- ◆ Connect with order management systems
- ◆ Eliminate double data entry
- ◆ Improve scheduling reliability



## Automated Accounting/ MRP Updates

- ◆ Integrates with Accounting/ MRP
- ◆ Supports Accounting/ MPR functions:
  - ◆ Download Inventory information
  - ◆ Download Cycle Count and Classification
- ◆ Inventory Variance Reporting
- ◆ Automate Inventory Consumption reporting to Accounting/ MRP
- ◆ Integrates to Work In Progress (WIP) Systems
- ◆ Integrates to Order Management System
- ◆ Eliminates double entry, saving time and

## Barcode Scanning

- ◆ Supports Receiving Applications
- ◆ Scan barcode labels
  - ◆ Location Id
  - ◆ Supports multiple barcode formats
- ◆ Automated materials identification
- ◆ Locate inventory quickly

## Inventory Management

- ◆ Full Physical Inventory
  - ◆ Bulk
  - ◆ Lot
  - ◆ Serialized
  - ◆ Split/ Merge Lots
- ◆ Availability/ Status
- ◆ Multi-levels of Containership
- ◆ Genealogy/ History
  - ◆ Birth Certificate
  - ◆ License Plate
- ◆ Real-time Accuracy

## Just One Component of Diamond's Complete Material Tracking Suite

- ◆ MTS - Receiving
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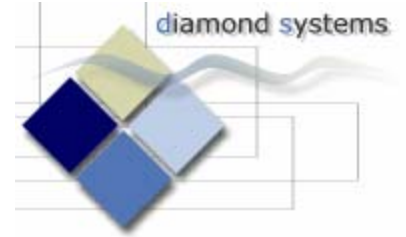


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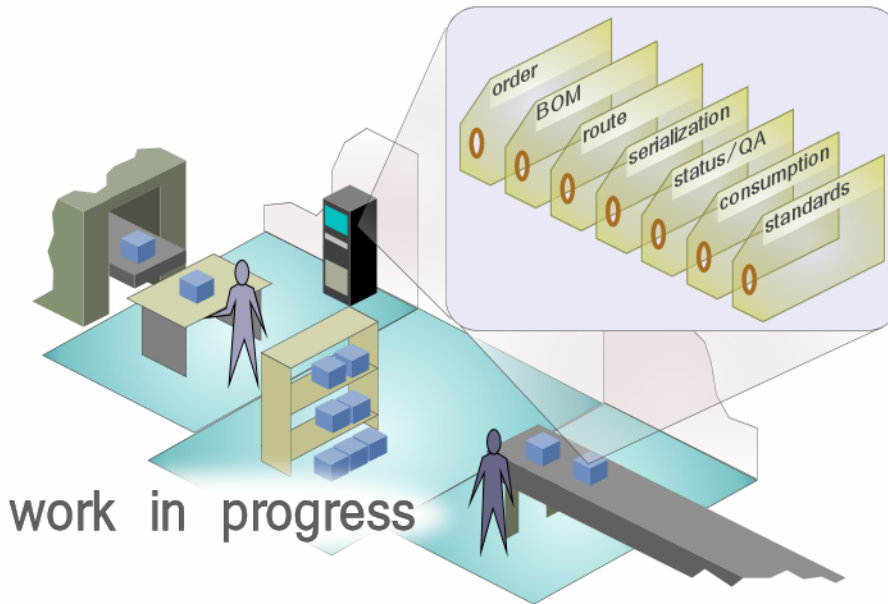
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## MTS WIP Tracking



**Take the manual data entry and guesswork out...automate, authenticate and track WIP in real-time**

MTS WIP delivers the automated WIP tracking manufacturers demand. Real-time updates, route enforcement, automated data entry and more.



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### Highlights

- ◆ Automatically update accounting/MRP system
- ◆ Display current status in real-time
- ◆ Enforce routes and material authentication
- ◆ Integrate with Scheduling applications

### Features

- ◆ Paperless data entry forms
- ◆ Route enforcement
- ◆ Bill of Materials enforcement
- ◆ Material authentication
- ◆ Configurable inventory consumption
  - Lot
  - Bulk
  - Serialized
- ◆ Track
  - Genealogy
  - Scrap/Rework
  - Labor
  - Material
  - Order
- ◆ Barcode scanner support

### Benefits

- ◆ Reduce operating cost
- ◆ Increase accuracy and customer service
- ◆ Reduce or eliminate manual data entry
- ◆ Support EDI, Supply Chain and CRM Applications

### Just One Component of Diamond's Complete Material Tracking Suite

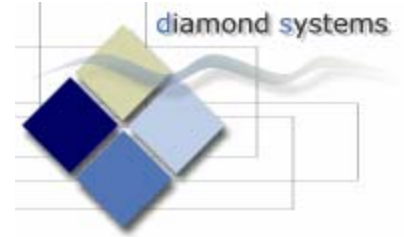
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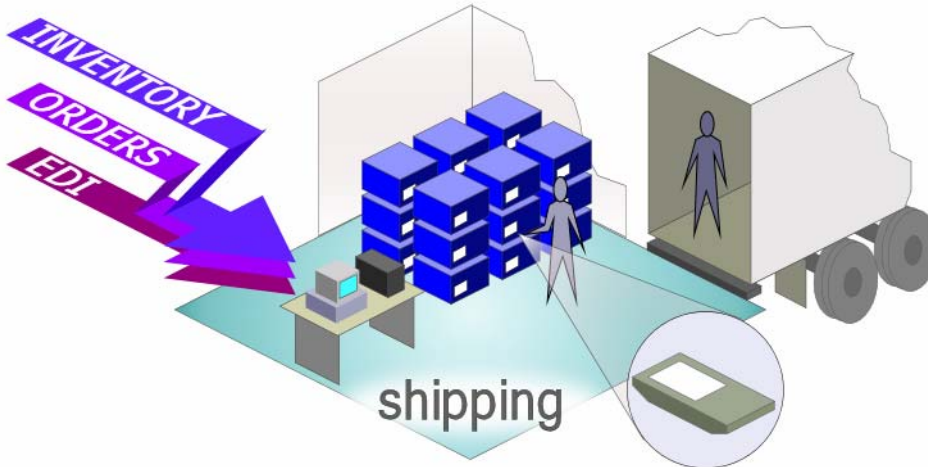
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# diamond MTS Shipping



**Speed, accuracy, and automation ... MTS Shipping takes the guesswork out**

MTS-Shipping is a complete ship-time solution. MTS Shipping delivers order and fulfillment information automatically to the shipping dock, empowering personnel with many time-saving and accuracy features.



#### Highlights

- ◆ Creates and manages customer shipping profiles and rules
- ◆ Download orders from Accounting/MRP
- ◆ Scans barcode
- ◆ Connects with UPS
- ◆ Sends Advance Shipping Notice (ASN)
- ◆ Print custom shipping label
- ◆ Automatically update Finished Goods Inventory

#### Features

- ◆ Order Pick List validation & Error Proofing
- ◆ Scan barcodes for physical Pick-to-ship
- ◆ Partial Pallet
- ◆ FIFO Inventory
- ◆ Automated Shipment Notification (ASN)
- ◆ Display Shipment Status

#### Benefits

- ◆ Eliminate double shipments
- ◆ Eliminate manual accounting system data entry
- ◆ Save time
- ◆ Increased accuracy
- ◆ Improved customer service

#### Streamline Shipping

- ◆ Integrates with EDI order systems
- ◆ Order lists are automatically downloaded to handheld or PC
- ◆ Inventory can be selected quickly via barcode scan
- ◆ Finished Goods Inventory updated in real-time

#### Just One Component of Diamond's Complete Material Tracking Suite

- ◆ MTS - Receiving
- ◆ MTS - Inventory
- ◆ MTS - WIP Tracking
- ◆ MTS - Shipping

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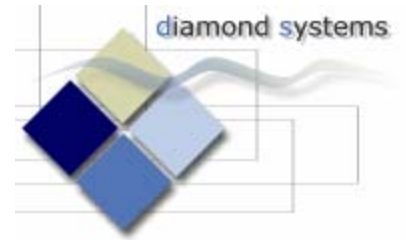


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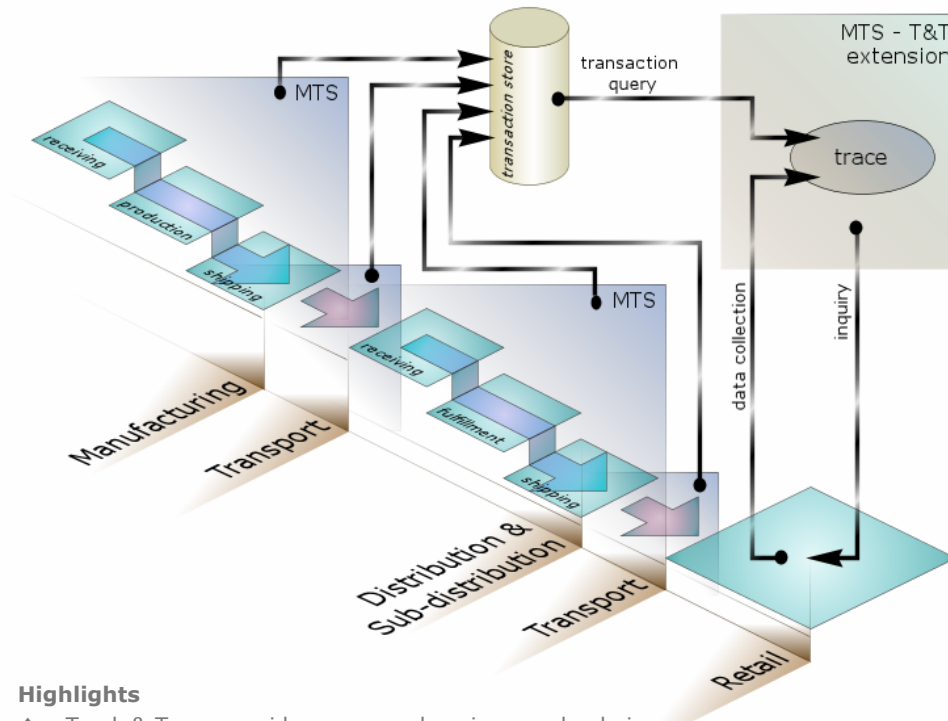
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## MTS - Track & Trace Extension



**Material Tracking Suite combined with ePoint Data Collection Software provides a comprehensive Track & Trace Solution**

MTS allows you to capture the full chain-of-custody history from raw materials to consumer location. ePoint can be used to investigate consumer units to validate authenticity or identify chain-of-custody origins.



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### Highlights

- ◆ Track & Trace provides a comprehensive supply-chain tracking and a field data collection application for tracing the end products authenticity and chain-of-custody.
- ◆ Allows for multi-tiered, multi-technology serialized identification methods that can be overt marked, covert marked, a combination of covert/overt marking or use a lock and key combination of marking.
- ◆ Integrates with industrial automation shop floor systems to capture multi-tiered parent child packaging associations automatically.

### MTS Track and Trace Extensions require the following Diamond Manufacturing Software Products

### Features

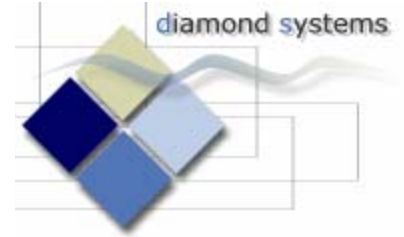
- ◆ Integration to internal business systems, shop floor systems, 3rd party carrier systems and all other external supply-chain transactions - via DiaMatrix.
- ◆ External transaction export - when MTS is supplementing another system (internal distribution, warehouse management etc.) MTS can export parent child associations to facilitate single "parent" scan to capture all tiers of "child" data.
- ◆ MTS - Receiving
- ◆ MTS - Inventory
- ◆ MTS - WIP Tracking
- ◆ MTS - Shipping
- ◆ DiaMatrix
- ◆ 1Point Reporting
- ◆ ePoint Data Collection
- ◆ MTS - Track and Trace Extensions



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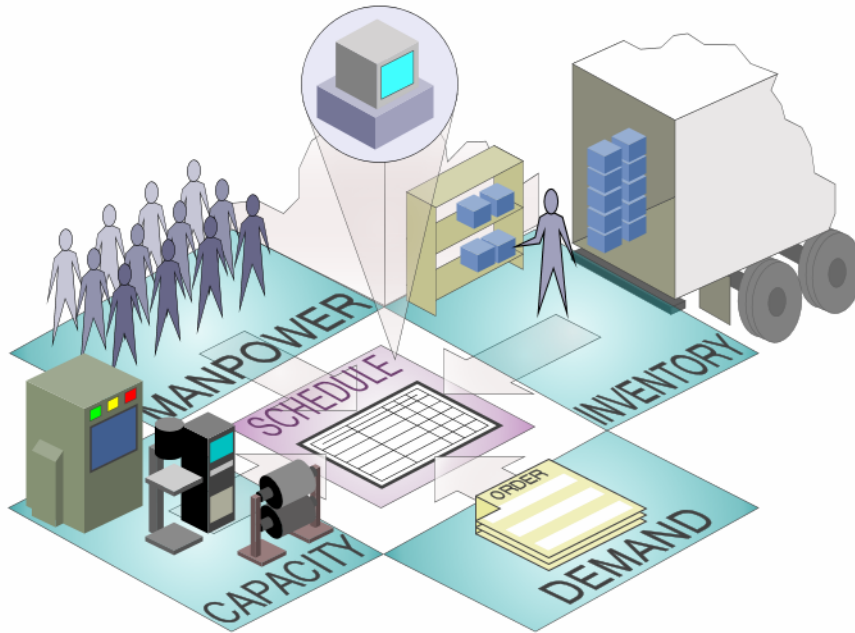
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# diamond Resource / Order Visualization Tool



**Visualize your inventory allocation & resource utilization across all your orders and know that orders will ship on-time**

SCHEDULE ASSISTANT allows production managers to truly foresee their ability to ship orders on-time and visually identify issues that would create delays.



### Highlights

- ◆ Allows what-if impact analysis of ad-hoc / expedited orders against the overall on-time shipping performance
- ◆ Integrates with accounting / MRP systems for Sales Orders and associated BoM / Routing data
- ◆ Integrates with shop floor tracking to include projected WIP as a resource to subsequent operations

### Features

- ◆ Calendar tool to define production availability/labor
- ◆ Forward load schedule against resources or reverse load against due dates
- ◆ Drill down detail to allow visualization at plant/area/line/station level detail
- ◆ Drag and Drop orders into time buckets or onto a clipboard
- ◆ Analyze what-if scenarios and save versions of the analysis and commit the desired schedule
- ◆ Differentiates between firm on-hand, in-route, planned and identified shortages

### Benefits

- ◆ SA is a tool to enhance the scheduler/planners ability instead of trying to replace them with a team of IT personnel
- ◆ Low cost alternative to the very expensive artificial intelligence scheduling systems

### Just One Component of Diamond's Manufacturing Software Products

- ◆ MTS - Receiving
- ◆ MTS - Inventory
- ◆ MTS - WIP Tracking
- ◆ MTS - Shipping

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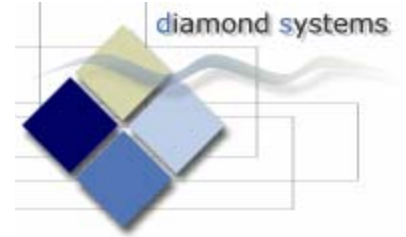
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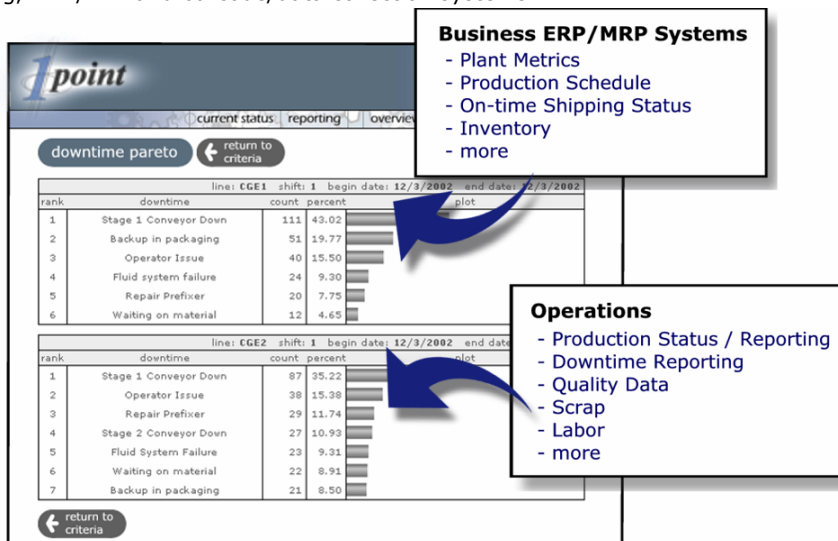
## Multi-Application Real-time Reporting



**Real-time Reporting – Automatically combines operations and business system data in one easy to use charting and reporting application**

Save time, increase accuracy and reduce the load on your technical resources to produce and distribute reports. 1Point integrates all of your business reporting into one powerful application. Supporting standalone databases and Excel, to accounting and business systems, with 1Point you can view all of your reports graphically in one easy to use HTML viewer. 1Point comes complete with graphical report templates and supports most Accounting, MRP/ERP and barcode/data collection systems.

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### Highlights

- ◆ Reports are accessible via HTML browser (supports remote access)
- ◆ - Built-in Reporting/Charting options include:
  - Tabular
  - Bar graph
  - Pareto
  - Histogram
  - Trend
  - Multi-report
- ◆ CSV export option allows users to use Excel or other applications for additional analysis
- ◆ Supports date/time and other configurable user filters
- ◆ View multiple reports on a single page for comparison analysis
- ◆ View multiple reports with automatic pre-defined drill-down
- ◆ Caches processing intensive reports for quick retrieval
- ◆ User/Group based security

### Automatically gathers data from multiple sources

- ◆ For example, merge AS400 Accounting data with stand-alone Access Database
- ◆ Merge and display Quality SPC data with Accounting System Inventory

### Real-time Visibility Across Systems

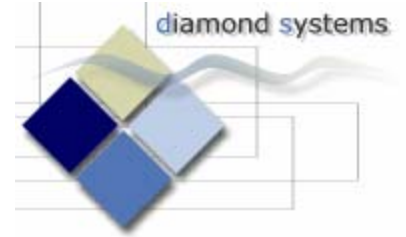
- ◆ Order status
- ◆ Finish good status
- ◆ Scrap status
- ◆ WIP Status
- ◆ Labor status
- ◆ Machine/Capacity status



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**Go paperless! Reduce IT Overhead, Increase Reporting Efficiency  
See your business like never before**

# diamond Electronic Forms & Data Collection



**Eliminate multiple manual data entry and put all types of information right at your fingertips**

Save time and money with ePoint Electronic Forms and Data Collection. Easily make electronic forms for all types of data collection. Now you can eliminate paper storage, quickly collect ad hoc data, and associate many types of data from areas like quality assurance, materials, and more. ePoint works with most standard databases and Microsoft Products. Data storage and integration has never been easier.

ePoint Creator makes it easy to create and maintain electronic forms, enabling you to enter all kinds of data on your PC or hand-held device

Begin Date/Time	1/1/2000	<input type="text"/>
End Date/Time	11/22/2004	<input type="text"/>
Line List	100mm Cast Iron 120mm Cast Iron 40mm Aluminum 45mm Aluminum	

**Flexible data collection that supports both Handheld Device and Desktop PCs**

With ePoint, you can tackle a wide-range of data collection needs quickly and easily. With the Forms Creation Tool, you can add an unlimited number of custom forms, from inventory data and orders to field technician reports. ePoint eliminates multiple data entry and increases accuracy.

- ◆ Point and click Electronic Forms Creation Tool
- ◆ View or export collected data
- ◆ Use either built-in database or an existing database
- ◆ Operates as Local or Internet Application
- ◆ Supports Bar-Code Readers and RFID input
- ◆ Runs on Windows PC, Windows CE PDA or wireless device

**Easily create unique electronic forms for a wide variety of data collection and integration needs**

## Features

- ◆ Integrates seamlessly with 1Point Data Reporting Solution
- ◆ Provides a rich set of entry field types, including:
  - Standard Text Box
  - Check Box and Radio Button
  - Pull Down List
- ◆ Automatic Date-Time Stamp
- ◆ Pre-loaded initial field values
- ◆ Required and optional fields
- ◆ Customizable Naming supports your terminology and existing work environment

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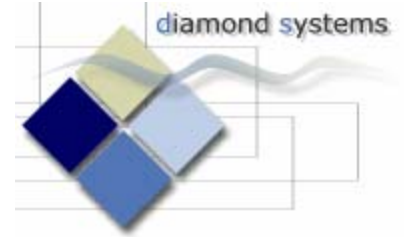
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# Connecting diverse systems together intelligently



diamatrix  
2.1

A Microsoft Certified Product



***Diamatrix™ connects and distributes transactional data in real-time and provides an intelligent container for configurable business logic and event processing.***

Diamatrix provides a flexible connection manager for real-time data and event sharing. Connection Manager supports input/output from a broad range of barcode, SCADA/PLC, business system, warehouse and inventory applications. With Diamatrix, your business can quickly distribute transactional data and provide all of your systems with real-time event visibility.



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***Connecting many diverse types of applications & machines with integrated intelligent business logic & real-time event processing.***

## Broad Communication Support

- ◆ PLC/SCADA
- ◆ TCP/IP sockets
- ◆ Serial IO
- ◆ SOAP/XML messages
- ◆ Middleware messages
- ◆ BAPI messages
- ◆ CSV file
- ◆ Diamatrix DLL plug-in

*Includes multi-application connectivity manager and multi-application event monitoring and processing.*

*HTML interfacing for independent data mining and reporting.*

## Connecting Multiple Applications

- ◆ Supply Chain Management
- ◆ Material Tracking
- ◆ Manufacturing Operations Management
- ◆ Customer Relationship Management
- ◆ Manufacturing Resource Planning
- ◆ Industrial Control & Automation
- ◆ Scheduling

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