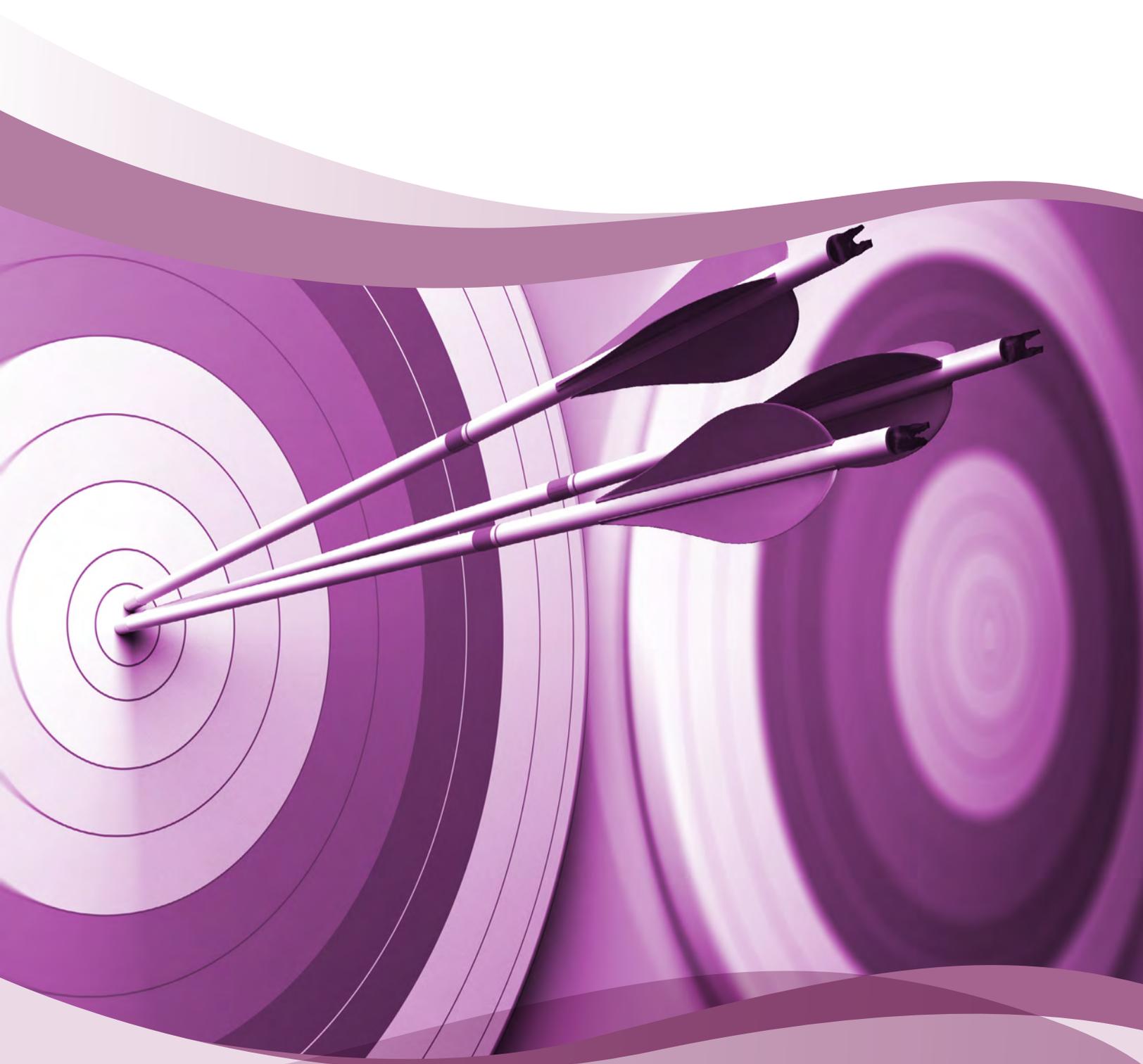


# Quality AnalytiX<sup>®</sup>

Complete SPC Quality Software Solution



Make the Invisible Visible™



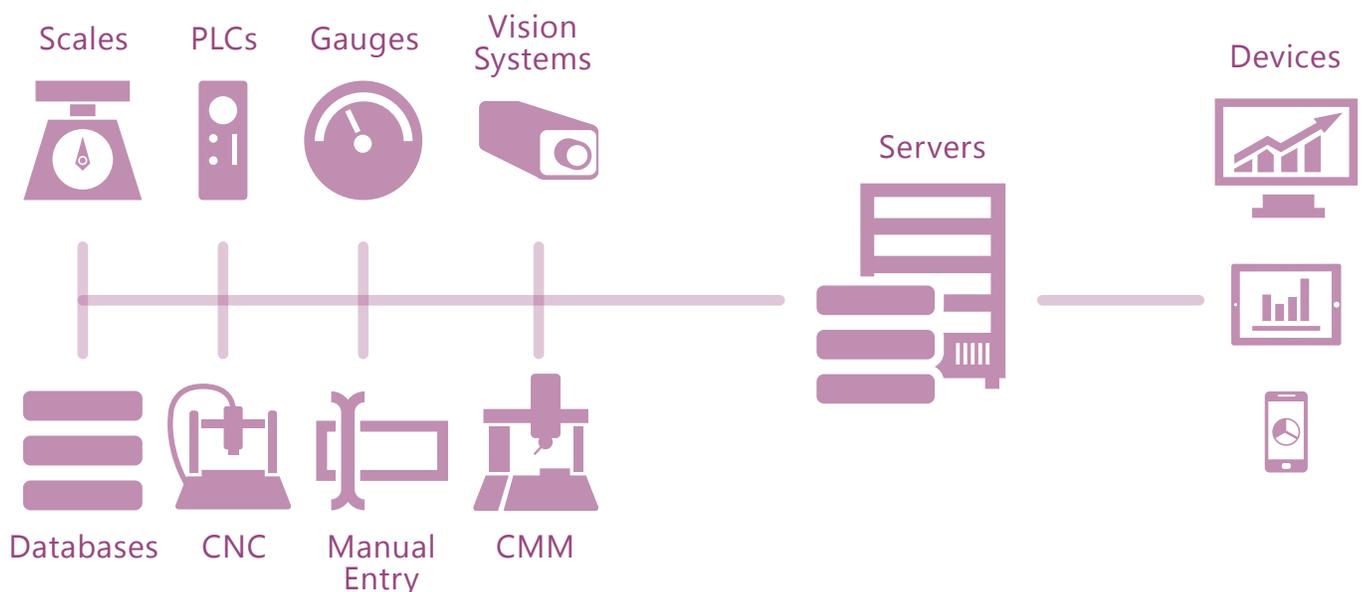
# Improve Your Production Quality

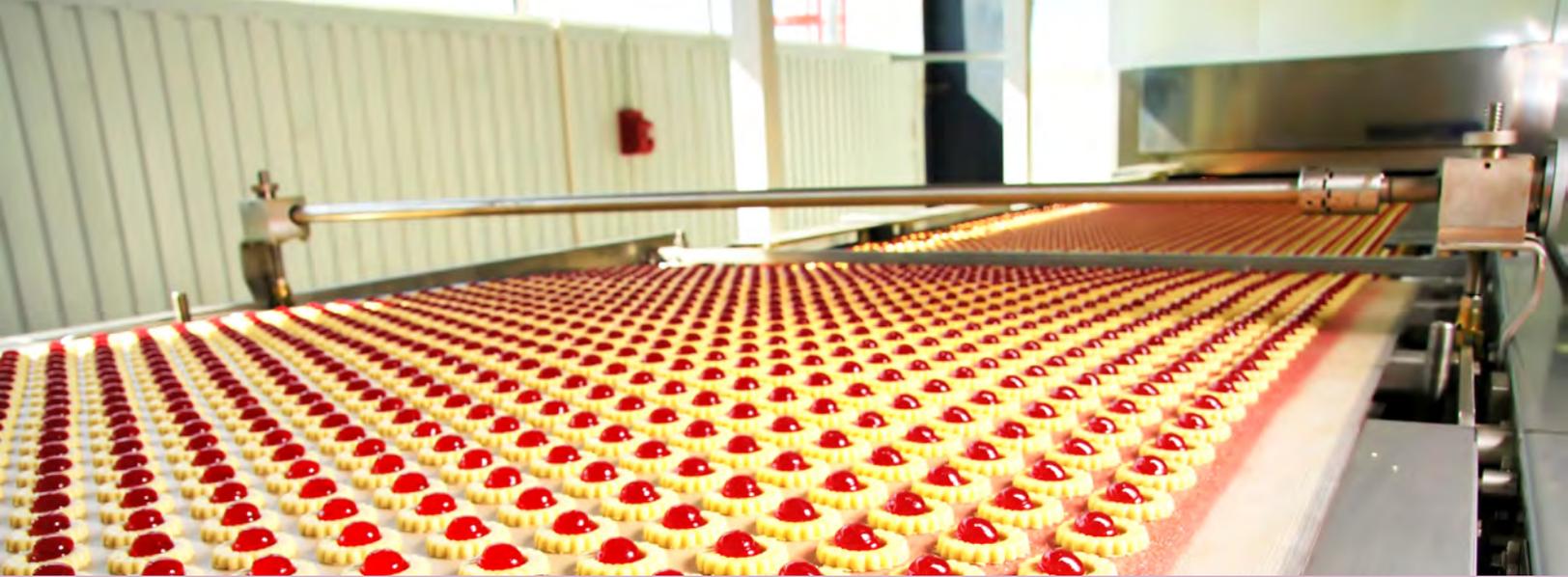
Improve Quality,  
Lower Production  
Costs and Increase  
Process Efficiency  
with Quality AnalytiX

The demand to increase product quality is critical to many in manufacturing with an expectation of Six Sigma or better conformance to product specifications. Achieving best-in-class quality output requires continuous analysis and real-time quality control. Quality AnalytiX® is a real-time Statistical Process Control (SPC) quality analysis solution that is straightforward to use and applicable to any quality monitoring application. With simple configuration and deployment methods, Quality AnalytiX offers an extensive set of SPC calculations, control charts, portal dashboard views and standard quality reports that can be applied in a variety of combinations to help pinpoint quality outliers.

Quality AnalytiX enables operators, quality personnel, manufacturing engineers and management to view quality SPC data and other production parameters impacting product quality. Apply any of the extensive set of SPC calculations to any process variable and integrate SPC data into expressions and logic to drive corrective actions based on process trends.

- Apply Any Combination of a Full Suite of SPC Calculations
- Customize Powerful Statistical Rule-based Alarms
- Combine SQC and Process Monitoring for Accurate Insight
- Universally Connect to All New and Existing Equipment
- Monitor, Analyze and Control Processes from Dashboards





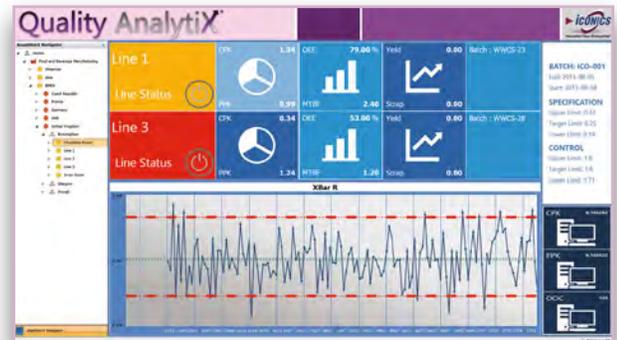
# Visualize and Optimize Your Applications

## Take Action and Improve Product Quality

Spot trends and make decisions based on real-time SPC data with Quality AnalytiX. Reduce scrap and increase production yields using built-in charts, graphs and alarm views. Powerful workflow technology initiates control actions based on quality conditions or alarm violations, providing changes to process equipment such as PLCs, temperature controllers and DCS systems.

## Charts, Grids, Tiles and Graphics Any Way You Want

- Quality Dashboards and Smart Tiles Provide Process KPIs
- Quickly Scroll, Zoom and Sort to Uncover Quality Anomalies
- Add Operator Comments to Any Quality Sample
- Customizable Upper and Lower Control Limits (UCL/LCL)
- Asset Navigation Provides Fast Access to Quality Data



## Extensive Library of Statistical Calculations

- X-Bar
- Moving Average
- Cpk
- Cpu
- PPK
- Ppu
- Range
- Moving Range
- Cp
- Cpm
- Pp
- Ppm
- Sigma
- EWMA
- Cpl
- Cpkm
- Ppl
- Ppkm

## Detect Quality Deviations with Customizable Alarm Rules

- Western Electric
- Westgard
- AIAG
- Duncan
- Hughes
- Juran
- Nelson
- Gitlow

Time	Description
10:31 AM	Product XYZ Length: 4 Out of Last 5 Points Above Center Line
10:31 AM	Product XYZ Width Out of Specification Limits
10:32 AM	Product XYZ Length: Trending Alert Values Constantly Upwards
10:32 AM	Product XYZ Diameter: Outside Sigma Limit
10:32 AM	Product XYZ Width Out of Control Limits
10:32 AM	Product XYZ Length: Trending Alert Values Constantly Downwards
10:32 AM	Product XYZ Length: 2 Out of Last 3 Points Above Center Line

# Make Decisions and View Quality Data From Any Device

Quality AnalytiX utilizes ICONICS Hyper Historian™, a scalable, high performance, mission-critical plant historian. Designed to integrate numerous quality measurement devices across any plant, Quality AnalytiX provides unprecedented plant-wide quality information. Unlike other single PC-based quality solutions, Quality AnalytiX provides a scalable solution that can handle any size quality application.

## Universal Connectors

Quality AnalytiX is built on open standards and has achieved compliance with OPC, OPC UA, Modbus, SNMP, BACnet and web services. This ensures ease of connectivity to any quality measurement device, database, IT or factory system.



Quality AnalytiX Supports Popular Tablets and Phones

## Key Features and Benefits

- Generate Standard SPC Quality Reports
- Apply Extensive Library of Statistical Calculations
- Utilize Interactive Charts and Visualization
- Create Operational and Management Dashboards
- Build Workflow Logic to Take Corrective Action
- View and Analyze on Any Smart Device
- Collaborate Within Microsoft SharePoint®
- Scale and Collect Data for Any Size Application
- Display Operational Efficiencies and Total Cost Impact
- Facilitates TQM and ISO9000 Standards
- Utilize Microsoft Power BI and Excel to Analyze Data
- Collect Data From Multiple Sources:
  - Gauges
  - Scales
  - CMM Devices
  - CNC Devices
  - Production Databases
  - Manual Entry
- Reduce Scrap, Increase Yield and Prevent Variations
- Improve Overall Product Quality with Universal Connectivity
- Lower Costs and Increase Customer Satisfaction

## Applications

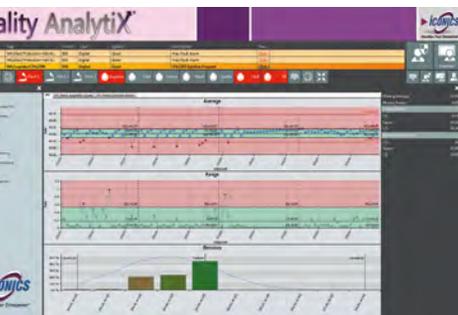
- Automotive and Tier 1 Suppliers
- Continuous Process
- Discrete Manufacturing
- Food and Beverage
- Machine Builders
- Medical Device
- Metals and Chemical Process
- Oil & Gas Refining
- Pharmaceutical
- Many More



# Quality AnalytiX Saves You Money

## Benefit from Built-In Expert Knowledge

In today's competitive market, it is essential to find and resolve quality issues as quickly as possible. Reducing waste and increasing yield is critical to achieving financial results and improving overall profitability and margins.



## Discover Hidden Costs

- Investigate Operational Data to Identify Costly Inefficiencies
- Reveal Process Scrap, Overfills and Sources of Waste
- Determine Savings-per-unit by Reducing Variation in Process
- Utilize Pre-configured Calculations to Discover Optimal Conditions

## Capture Actionable Data by Multiple Means

- Fixed Time Intervals
- Devices Including: Testers, Scales, Keyboards and Micrometers
- Machines Utilizing Universal Communications Protocols
- Enter Manual Data into Pre-configured Calculations



## Visualize Real-time Processes

- Custom Trends, Charts and Alarms
- Deliver Information Instantly Via Smart Tiles
- Access Operational Data on Any Device at Any Time
- Intuitive Dashboards Provide Instant Quality KPIs



Founded in 1986, ICONICS is an award-winning independent software provider offering real-time visualization, HMI/SCADA, energy management, fault detection, manufacturing intelligence, MES, and a suite of analytics solutions for operational excellence. ICONICS solutions are installed in 70 percent of the Global 500 companies around the world, helping customers to be more profitable, agile and efficient, to improve quality, and to be more sustainable.

ICONICS is leading the way in cloud-based solutions with its HMI/SCADA, analytics, mobile and data historian to help its customers embrace the Internet of Things (IoT). ICONICS products are used in manufacturing, building automation, oil and gas, renewable energy, utilities, water and wastewater, pharmaceuticals, automotive, and many other industries. ICONICS' advanced visualization, productivity, and sustainability solutions are built on its flagship products: GENESIS64™ HMI/SCADA, Hyper Historian™ plant historian, AnalytiX® solution suite, and MobileHMI™ mobile apps. Delivering information anytime, anywhere, ICONICS' solutions scale from the smallest standalone embedded projects to the largest enterprise applications.

ICONICS promotes an international culture of innovation, creativity, and excellence in product design, development, technical support, training, sales, and consulting services for end users, systems integrators, OEMs, and channel partners. ICONICS has over 350,000 applications installed in multiple industries worldwide.



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## For more, visit [www.iconics.com/QualityAnalytiX](http://www.iconics.com/QualityAnalytiX)

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