

Predisys Analytical Suite

Analyze, Understand and Improve Manufacturing Processes

What does Predisys Analytical Suite do?

Predisys Analytical Suite is the ideal solution for helping companies understand and control manufacturing processes, improve product quality, reduce operating costs and for increasing manufacturing visibility through advanced SPC analytics.

Why is Predisys Analytical Suite important?

Predisys Analytical Suite provides a cost-effective and comprehensive set of applications for statistical quality improvement, providing analytical, customization and ease-of-use features not found in any other software package.

Predisys Analytical Suite is the first enterprise-class analytical solution built upon the revolutionary Microsoft SharePoint and BI platform.

Together, Predisys Analytical Suite and Microsoft SharePoint provide unrivalled opportunities for manufacturers who want to go beyond traditional entry-level statistical analysis and fully embrace modern, extendable Process Analytical and IT technology for significantly improved quality control at reduced costs.

For whom is Predisys Analytical Suite designed?

Predisys Analytical Suite is the perfect tool to complement Six Sigma, Lean Six Sigma, Total Quality Management (TQM) and other continuous improvement methodologies.

The feature rich application suite provides the right level of interface and information to the plant floor operator as well as to users with demanding analytical needs such as production, quality management and R&D engineers.

As a solution to the need to reduce quality risks while improving efficiency, many manufacturers endeavor to implement advanced quality statistics across the enterprise. Taking full advantage of these methods can help manufacturers understand and control their manufacturing processes, enabling them to successfully achieve their quality targets. Even so, only a fraction of manufacturers have consistently incorporated statistical tools into their operations in a way which would allow them to achieve the greatest possible efficiency and productivity. In addition, the volumes of calculations required by this approach prohibit manual data collection in favor of advanced statistical tools and modern web-centric IT solution architectures.

Support Corporate Quality Improvement Initiatives

Predisys has responded to these challenges by delivering a modern, comprehensive and cost-effective solution for manufacturers. Predisys Analytical Suite allows manufacturers *to shorten their time to market, to improve production yields and quality, and to reduce lead times and to cut costs related to non-value adding processes.*

Predisys Analytical Suite bridges the gap between engineering and manufacturing with digital traceability, live statistical analytics and intelligence extracted from manufacturing data. It provides the tools needed for collecting, managing and analyzing quality and performance measurement data.

Turn Data Into Insights

Predisys Analytical Suite is a unique web-based statistical application for optimizing the amount of information available for making management decisions. The analytical tools enable manufacturers to make decisions based on facts rather than opinions, helping engineers to quickly identify critical issues and to focus actions on areas needing improvement.

Increase Visibility And Collaboration Across The Enterprise

The collaborative features of the Predisys solution facilitate cross functional collaboration and bridge the gap between engineering and manufacturing. Using a web browser, employees can now quickly and easily access manufacturing data from any location.

Improve Supply Chain Visibility

With increased use of outsourcing to contract manufacturers it becomes more important than ever to control all parts of the supply chain. The Predisys solution facilitates easy supervision of manufacturing processes and quality of products being manufactured by subcontractors.

Empower Your Users

Predisys Analytical Suite comes with a wide range of tools and reports to satisfy the needs of any user, from the shop floor operator to the R&D engineer and VP of Quality Management.

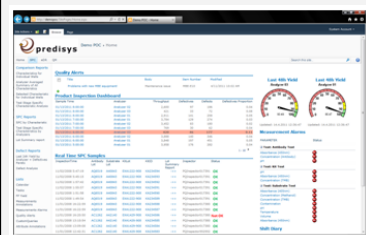
Fast Implementation and User Adaption

Predisys Analytical Suite has been developed for a fast and easy implementation. The initial system can be installed and configured in days or weeks rather than months. Fast adoption of critical end users is ensured through an intuitive user interface, preconfigured reports, seamless integration with familiar Microsoft Office tools and by the fact that no software has to be installed on individual workstations.



"Thanks to the global visibility and highly refined real time intelligence it provides us, we are able to make more accurate and fact based decisions faster than ever before, and move from reactive to preventive actions"

Panu Kaila
Executive Vice President, Operations
Efore Plc



COMPLETE SOLUTION FOR QUALITY IMPROVEMENT

Predisys Analytical Suite is a powerful, modular application suite for cost- and quality conscious manufacturers providing:

- Advanced Statistical Process Control
- Quality data analytics tools
- Measurement System Analysis (Gage R&R)
- Multivariate SPC
- Monitoring and Alarming
- Manual and semi-automatic data collection
- Fully automated data collection
- Test Data Management
- Supply Chain SPC

For manufacturers seeking further improvement Predisys Analytical Suite can be extended with the optional quality management modules.

Online SPC For Tracking and Controlling Manufacturing Processes

Statistical Process Control (SPC) is the primary analytical tool for understanding and controlling processes as a means to quality improvement. SPC is integral to monitoring, understanding and controlling the variables affecting all the processes which define, produce or support the products.

The Predisys solution takes online SPC to a new level providing comprehensive functionality, such advanced charting capabilities, powerful automatic exception handling, and unmatched customization opportunities.

Statistical Engineering Analysis & Reporting

Manufacturers are faced with the challenges of continuously having to develop and produce increasingly advanced and innovative high quality products in a cost-sensitive market. While attempting to meet customer demands they must operate within strict regulatory settings, and are pressured to increase yield, lower costs and shorten the lead time for new product introductions. To successfully navigate this equation, it is crucial for the manufacturers to understand, control and improve their processes.

Online SPC is perfect for monitoring manufacturing processes, but it may not suffice. Often engineers need additional advanced Statistical Engineering Analysis tools which allows them to 'on-the-fly drill-down' through massive amounts of data and analyze it to understand process and product quality.

The Predisys Advanced Statistical Engineering tools provide unmatched speed, flexibility and ease, giving users quick and intuitive access to the analytical information they need on an ad-hoc basis.

Operates On Virtually Any Data Source

With the ability to monitor multiple processes and integrate a wide variety of data manufacturers gain a more complete picture of enterprise-wide quality improvement efforts. The Predisys solution can operate on virtually any data source, such as: CMMs and automated inspection systems, high volume product test systems and databases, and MES and traceability databases. Quality data can also be manually collected using the user friendly Predisys Digital Forms technology.

PROVEN FUNCTIONALITY

Automation

To minimize the need for error prone manual processes, many tasks, such as data integration, online alerting and distribution of standard report and distribution, can be automated.

Easy Setup and Configuration

A low cost of ownership has been a key design objective for Predisys. The system allows for easy implementation and updating, and can be configured through intuitive graphical user interfaces with no need for programming.

Comprehensive SPC Charting and Analytics

Predisys Analytical Suite supports a wide range of SPC functionality and charts for data visualization. The suite support traditional univariate SPC as well as advanced multivariate SPC. Functionality. A full description of the charts and SPC functionality supported can be found in the datasheet for Predisys Analytical Suite:

Supports FDA 21 CFR Part 11

Predisys Analytical Suite supports electronic signatures, electronic signing, audit trails to meet US and international industry and regulatory requirements including the FDA's 21 CFR Part 11.

Intuitive User Interface Facilitate Ease-of-Use

Predisys applications can be used from a web browser and interfaces with Microsoft Office applications. The intuitive interface enables fast adaption and system use among critical end users, while reducing the need for training.

Customization of User Interface and Reports

The software has been built for extensive customization. Web pages and reports can be personalized to fit the need of specific users without any programming.

Due to the modern and flexible architecture manufacturers can fully customize the web page layout and can even incorporate data from other systems on the same page to create a page containing all vital information for a specific product or process.

Easier Visualization with Operational Dashboards

Online SPC data can be visualized through electronic dashboards providing a quick and easy way to track the manufacturing process.

Automatic Exception Reporting - Warning and Alerts

The system automatically alerts users when specific conditions are met to ensure manufacturing deviations and nonconformance issues are visible to users. The occurrence of an exception automatically starts a workflow that may e.g. result in notifications being e-mailed to specific people. The advanced workflow features can be setup without having to write custom code.

Assignable Cause & Corrective Action

To facilitate collaboration and process improvement, notes can be assigned to any data points on a chart. Assignable cause and corrective actions can thus easily be recorded and shared with other personnel.

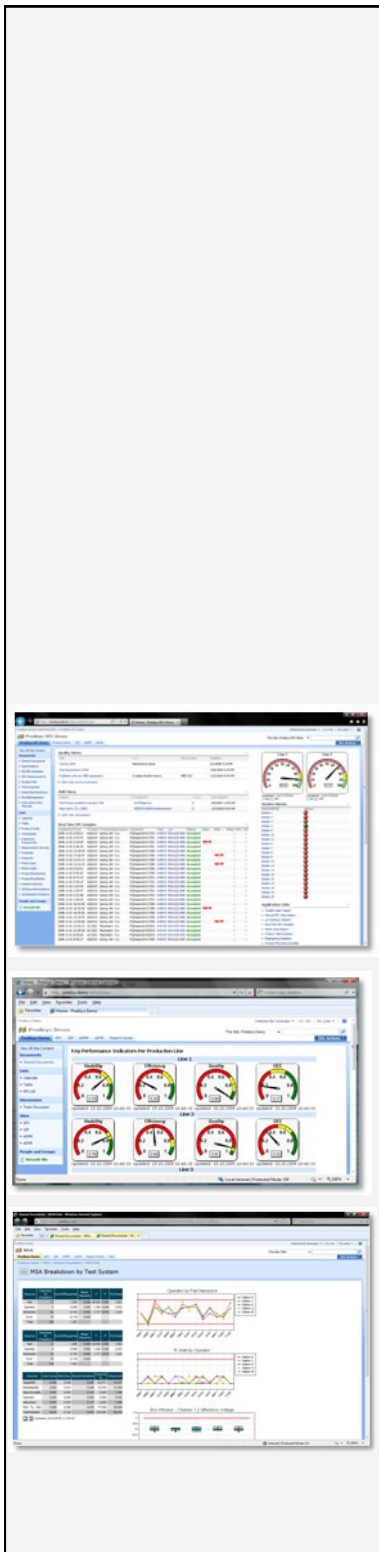
Flexible Reporting

A wide range of reports are available. The end user can easily make additional reports by using the Predisys software or standard tools, such as Microsoft Reporting Services or Microsoft Excel.

"Ever since Predisys Analytical Suite was deployed at our factory, the first pass yield of our mass production line has improved dramatically. Even an improvement of just 1% in the first pass yield would have paid the investment back"

Jouni Lehtinen
Factory Director
Teleste Plc





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LEVERAGE AND EXTEND YOUR IT INVESTMENTS

Extending the Microsoft Platform

Predisys® Analytical Suite is built upon the latest Microsoft technology widely in use in most corporations today. Microsoft Windows, Microsoft SharePoint, Microsoft SQL Server, and Microsoft Office software are used extensively and provide a feature rich, yet cost-effective and easily extendable platform.

This offers several significant benefits:

- **Simplicity for end users**, who can leverage their familiarity with Office-based applications and the browser environment for all their information-work activities, regardless of their role or task.
- **Value and governance** for IT, which only needs to support a single set of technologies to enable comprehensive capabilities across the enterprise.
- **Speed and flexibility** for the business, which can customize and extend the platform quickly and easily at a variety of levels from personalization to enterprise application development.
- The **security and scalability** of a platform built for the enterprise.

Powerful and Scalable

The enterprise-class Predisys Analytical Suite has been made for high-volume environments and probably provides the best performance in the industry today. Unlike other solutions, Predisys Analytical Suite is only constrained by the storage capacity and the CPU power of the used servers.

On-Premise or Cloud

The Predisys software can be installed on your own servers, or may be used on the Microsoft Azure cloud platform..

A Cost-Effective Extendable Platform for Future Growth

The Microsoft SharePoint platform provides manufacturers with further possibilities for improved cross-functional collaboration and efficiency at no or low additional cost. The SharePoint platform facilitates a wide range of collaboration features, including sharing information through the use of wikis and blogs, collaborating on and publishing documents and maintaining task lists. In addition, it also provides for Document Management making it the perfect way to share information across the entire manufacturing organization.

ABOUT PREDISYS

Predisys specializes in developing Quality Control (incl. statistical process control), Quality Data Management and Manufacturing Business Intelligence software applications enabling manufacturers to make informed decisions that will improve quality, increase productivity, and positively impact the bottom line. Predisys is the technology leader in turning massive plant floor databases into actionable information, and in bridging Product Development & Engineering with Manufacturing. Predisys helps manufacturing enterprises to cut their time to market, improve yields and quality, shorten lead times and improve supplier quality insight.

For more information, please visit: www.predisys.com