



PROCESS ARTZ
CO., LTD.

PRODUCTS

and

SERVICES

PROCESS ARTZ

Experts in quality data management and analysis

Process Art is an expression that emphasizes the process of creating a work of art rather than the completed, finished form and focuses on the characteristics of the materials and techniques. In the industrial world, a work of art is a completed product, but data on production parameters and inspection results express its process. Our software focuses on the process leading up to the completion of a product and positions it as an artwork that reveals hidden hints in the data that can lead to quality improvements and innovations in production technology. As data artisans specializing in process data, we will help you improve your production process and enhance quality.



Product Concept

Unlike traditional business intelligence (BI) tools that depend on pre-organized data, Process Arts' system handles unstructured and diverse data formats. It autonomously organizes and structures inspection and measurement data files, regardless of their format, and even automates the creation of databases.

Quality data should offer more than just insights into overall trends. At Process Arts, we approach data from the manufacturer's perspective, delivering a traceable data structure that reveals the product's history through the data. This ensures each data point is more than just a "plot on a graph."





Fully Browser-Based Process Analysis Software

The INDEQS series' i-Analyzer is a browser-based software designed to support continuous process quality evaluation and improvement. It is versatile, functioning seamlessly in both on-premise and cloud environments. With i-Analyzer, there's no need for complex software installations or update management on client PCs. All version revisions and user authority settings are handled on the server side, simplifying maintenance.

On the client side, all that is required is an internet browser. i-Analyzer provides all the graphs and reports necessary for comprehensive quality control. It enables you to manage inspection characteristic data across multiple processes and products directly from your browser.

Supports Two Types of Databases

i-Analyzer supports both Microsoft SQL Server and MySQL, allowing flexibility based on the user's environment.

Visualization and Management Tools

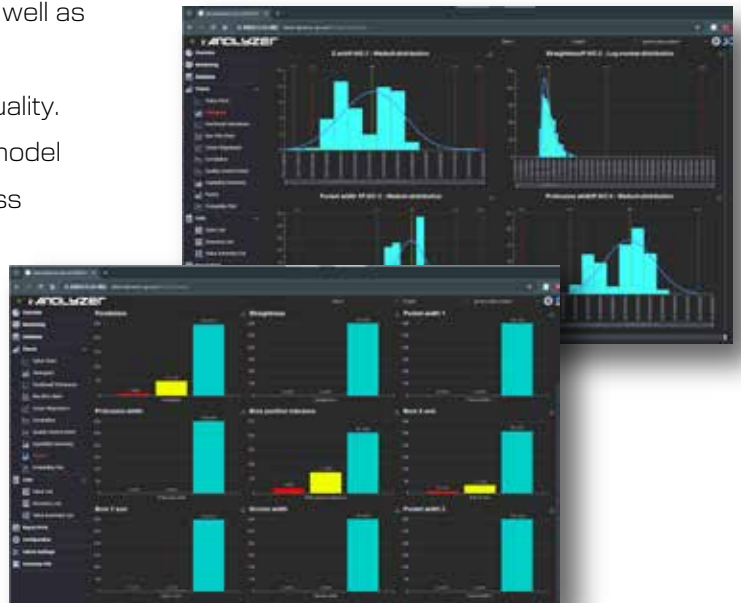
i-Analyzer is equipped with comprehensive graphs and reports essential for evaluating production process quality, including within-tolerance and out-of-tolerance assessments as well as process capability evaluations.

It offers insights for visualizing issues and enhancing quality.

The histogram features a patent-pending distribution model automatic optimization function, ensuring stable process capability calculations.

The main analysis tools include:

- Line graph
- Histogram
- Quality control chart
- Positional tolerance chart
- Scatter plot
- Box plot
- Pareto chart
- Process Capability Index



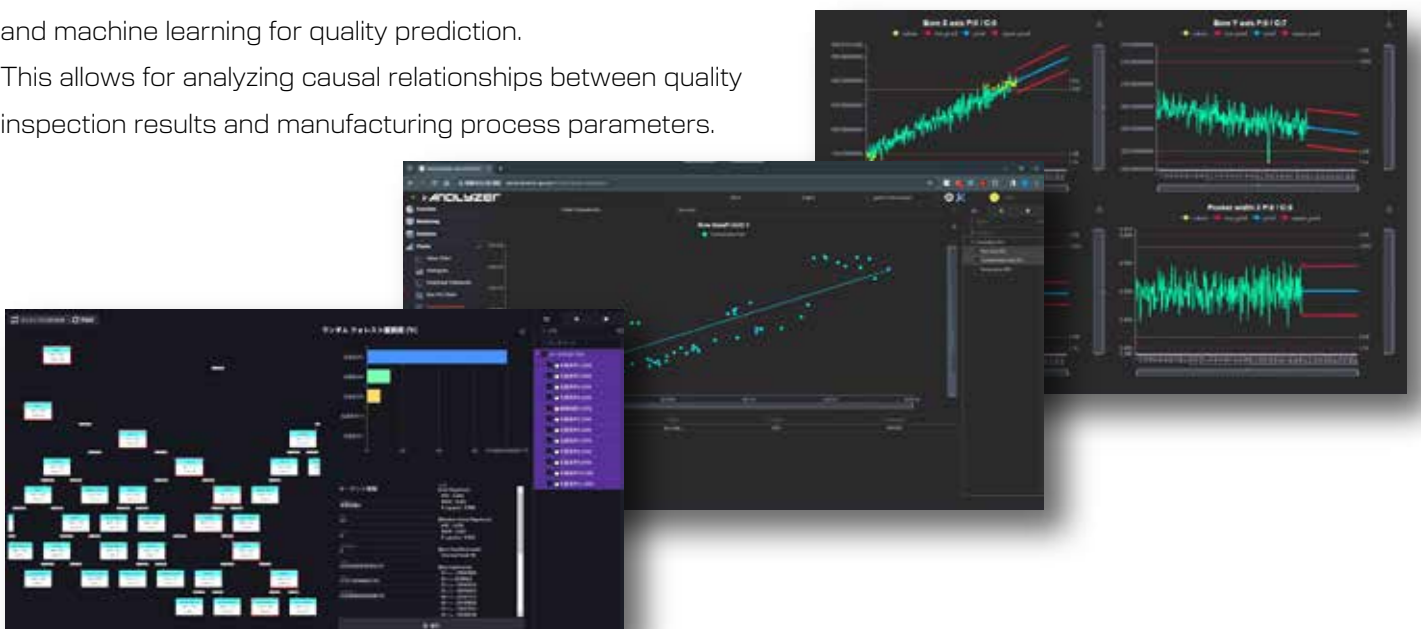
Trend forecast, correlation analysis

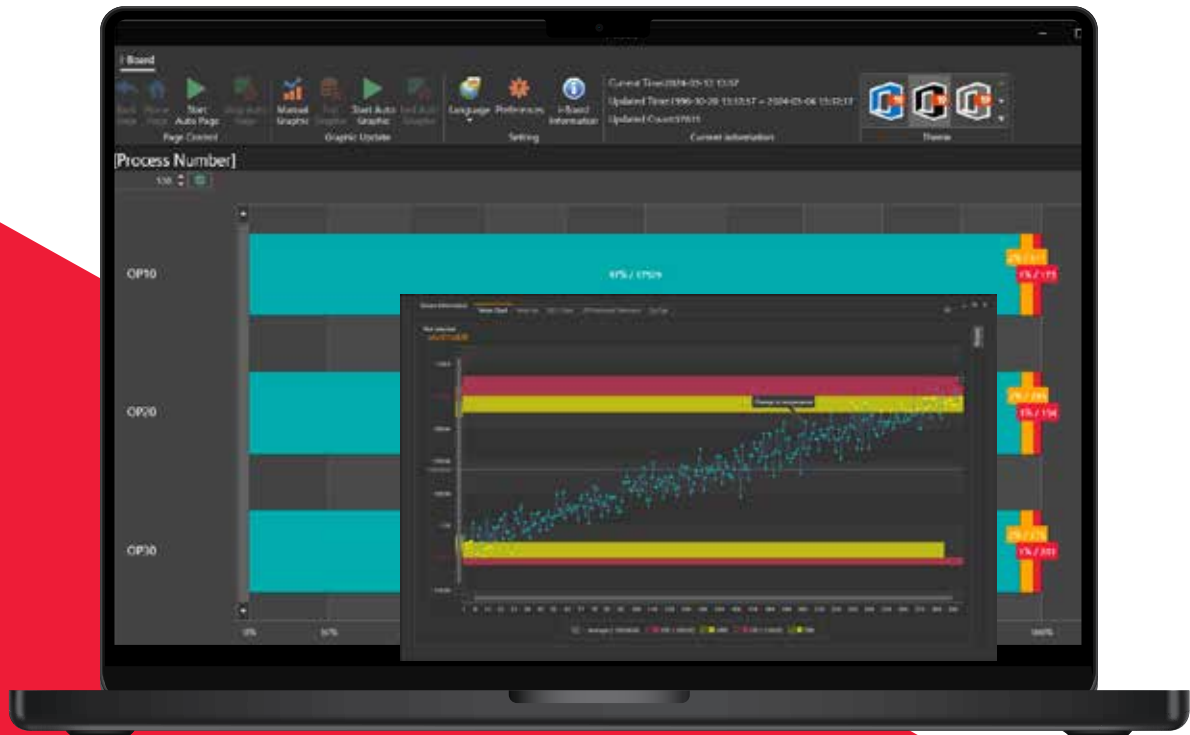
In addition to visualization and management tools,

i-Analyzer leverages time series analysis (ARIMA)

and machine learning for quality prediction.

This allows for analyzing causal relationships between quality inspection results and manufacturing process parameters.





Multi-functional dashboard for monitoring process variations

The INDEQS series i-Board is designed to evaluate continuous quality data. It consistently assesses data extracted from a continuously updated dataset under specific conditions and periods, displaying real-time results. Intensive monitoring of critical information is crucial for maintaining a stable process. However, extracting key characteristics from data that change moment by moment can be challenging.

i-Board simplifies this task with its highly responsive quality data management dashboard. It continuously monitors the database, automatically updating and displaying information that matches the set conditions, ensuring efficient and accurate monitoring.

Drill-down capabilities

i-Board provides advanced data drill-down capabilities for in-depth analysis. Start by expanding the data from a high-level view, such as by "line" or "process," as selected in the settings. Click on the graph to delve into more detailed levels, such as "parts" or "characteristics." This intuitive process allows you to track down and focus on specific data sets for individual measurements.



Dynamic Slideshow

i-Board's slideshow mode periodically updates the displayed product quality data according to the user-defined sequence. Begin with an overview, such as process or line summaries, then transition to more detailed information, such as parts and inspection characteristics, before returning to the overview. The display content is customizable, allowing adjustments to the data update interval and slide display order to meet specific needs.

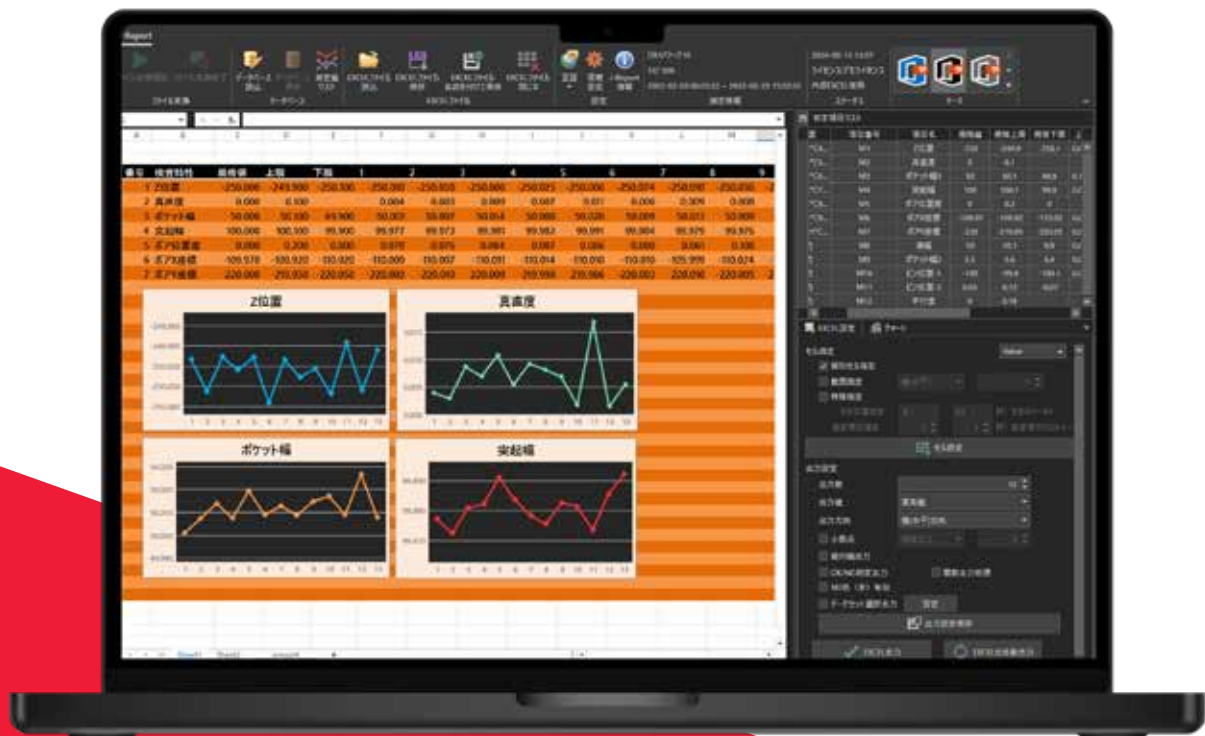


Customizable Graph Display Formats

Choose from three distinct graph display formats to suit your needs:

- **Bar Graph Mode:** Set the number of graphs to display per page for clear and organized visualization.
- **Treemap Mode:** View characteristic items in large boxes, with out-of-tolerance values prominently displayed on the left, followed by warning level items, normal range items, and so on, progressing to the right.
- **Diagram Mode:** Arrange process elements, such as equipment, in any color scheme based on the process layout for a customized visual representation.





The Ultimate Guide to Creating Excel Reports

Struggling with Excel Report Creation?

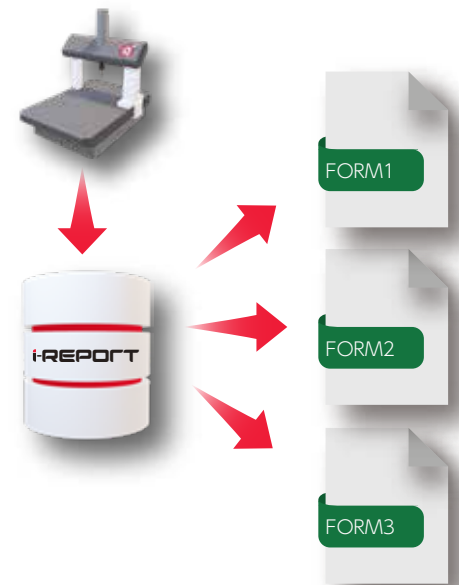
- Do you manually enter test results into various forms for different submission destinations?
- Are you transferring data from multiple forms into Excel by hand?
- Do you have many forms with a low volume of entries, making expensive automation systems impractical?

Introducing the INDEQS series i-Report, a revolutionary Excel report creation tool that semi-automates the most tedious aspects of data entry and supports

No more copy & paste data

Modern industrial machinery and measuring devices often output data in Excel or CSV formats, but the order and content of these outputs can vary significantly. This often necessitates transferring data between Excel files to match specific formats. When dealing with numerous forms, using Excel macros for each pattern becomes inefficient, and saving macros can be problematic.

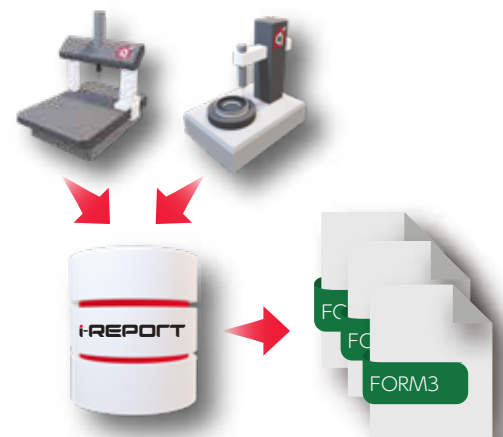
i-Report is designed to address these challenges by specializing in creating Excel inspection sheets. It efficiently handles low-volume, multi-variety inspections and supports various report formats, meeting users' high demand for a versatile and effective solution.



Data integration of multiple devices

Enhance your data management with the optional i-Report Server, which automatically collects data from multiple devices. It supports standard formats like CSV and Excel and is compatible with CMM data formats from major measuring device manufacturers. A data interface can be added to support special formats for additional flexibility.

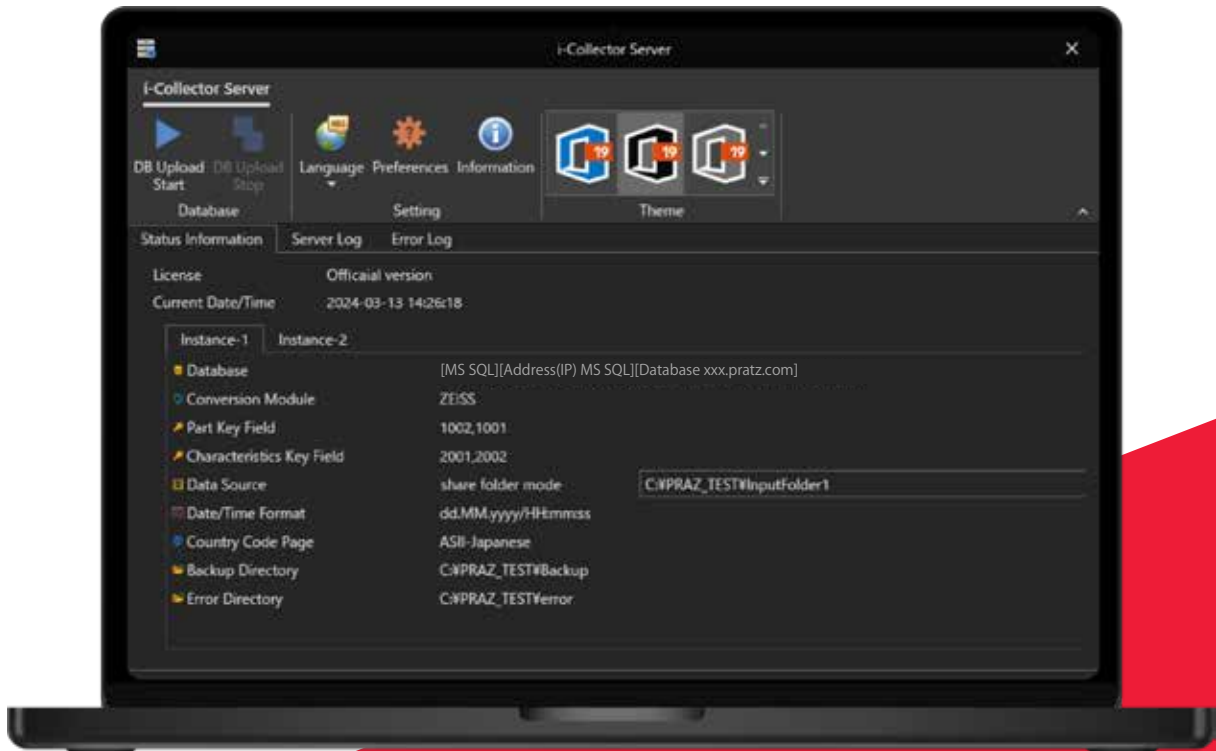
With i-Report, you can integrate measurement results from various devices—such as CMM, form measuring machines, and roundness measuring machines from different manufacturers—into a unified database. This enables you to consolidate and output data in a single comprehensive report.



Easy Data Search and Extraction

i-Report combines the flexibility of Excel output with the advantages of centralized database management, offering robust data handling capabilities:

- **Efficient Search:** Locate data quickly by serial number, date, or time.
- **Batch Output:** Export data in convenient batches of 10 or 100 units.
- **Centralized Maintenance:** Regularly back up data with centralized management.
- **Data Integrity:** Prevent tampering and protect against data file loss and accidental deletion.



Multi-Functional Uploader

ii-Collector is the pivotal upload engine at the heart of the INDEQS series data construction. This powerful tool directly integrates and manages multiple conditions, including diverse data collection sources and upload destinations, on the server.

Key features include:

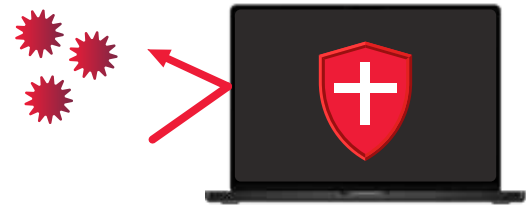
- **Versatile Configuration:** Seamlessly switch between composite primary key settings and various upload destination databases.
- **Simultaneous Management:** Handle multiple condition settings concurrently, with capabilities to complement missing information and remove unnecessary data.
- **Secure Communication:** Employs secure communication settings that avoid general-purpose ports, ensuring robust protection against malware.

i-Collector is designed to streamline data integration and enhance the efficiency of data management processes.

Secure Communication

i-Collector supports two versatile data collection modes:

- Shared Folder Access: Retrieve data files using the conventional shared folder mechanism.
- Port-Specific Transfer: Transfer data files by specifying a communication port number.



Port-specific transfer ensures secure communication by keeping general-purpose ports used by browsers, FTP, and other services closed, effectively preventing intrusion by viruses and malware.

Flexible Data Collection Condition Management

i-Collector allows for the simultaneous management of multiple upload instances, enabling individual configuration of the upload destination database, data collection folder, data supplement content, and more for each process or device. i-Collector facilitates centralized management of even the most complex data-handling scenarios.



Supports Multiple File Formats

i-Collector accommodates a range of file formats, including commonly used CSV, text, and Excel files. It also supports major CMM data formats. With its customizable built-in data interface, i-Collector enables data collection from special file formats and ensures optimal data mapping to database fields.



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