



softtrace

delivering **traceability** solutions

Traceability and Quality Management Software



*Full Forward and Backward Traceability • Rapid Response Capabilities • Risk Management and Brand Protection
Superior Plant Management • Yield Management and Waste Reduction • Optimised Product Values*



Traceability and Quality Management Software

Tailored to your Industry

SoftTrace is a complete software solution to the specific quality, traceability, yield and risk management challenges facing the Food industry.

SoftTrace provides a platform for full quality management and traceability by integrating quality data at plant level with all other operational areas. It manages quality throughout the entire manufacturing process and uses real-time validation to ensure compliance with quality procedures. It maintains the integrity of the traceability chain so that - within minutes - it is possible to identify all raw material / ingredient batches, contact materials and equipment used in the manufacture of finished products to pallet and pack level.

Meeting Your Challenges and Increasing Profitability

By installing SoftTrace at your manufacturing facility, you will gain unprecedented, real-time access to the raw material usage, physical tracking and traceability data critical to the success and competitive advantage of your business. You will achieve real-time control over product safety and the ability to demonstrate that control to regulators, customers and consumers:

- Full integration of all quality, manufacturing and business data in a single Quality Management and Traceability system.
- Full traceability from raw material receiving to finished product dispatch and the customer.
- Enhanced rapid response, product recall, crisis management and brand protection capabilities.
- Demonstrable compliance with national and international regulations.
- Increased customer confidence and satisfaction.
- A competitive edge in a commodity market.
- A comprehensive quality platform for process optimisation, product value optimisation, waste and cost reduction.
- Increased operational efficiency and profits.
- Lot specific inventory management and increased inventory management efficiencies.
- Elimination of paper-based records.



The Functionality You Need – Quickly Implemented

SoftTrace fits the specific requirements of the Food industry with little customisation or process re-engineering. It can be rapidly implemented with a minimum of disruption to your business. A significantly reduced consulting, design and implementation period, with prioritization of critical processes, guarantees a quick return on investment.

SoftTrace can be implemented on a modular basis to meet your specific needs and budget, or as a complete package. It is highly configurable, flexible and easily integrated with laboratory instruments, ERP, process automation and bar-coding systems.



Much More than Compliance

Use real-time information to control plant efficiency and effectiveness, optimise product quality and have a positive effect on your bottom-line.

Mitigating risk and meeting compliance challenges are two reasons for implementing a SoftTrace solution, but there are other business benefits. SoftTrace provides significant benefits that extend beyond simply meeting regulatory and customer requirements. Financial benefits can be quickly realised through the availability of real-time data throughout the manufacturing process and the software's ability to facilitate a reduction in overhead costs, product yield management, optimising product values and supporting superior plant management.

Real-time reporting provides the key manufacturing information needed to minimise waste, reduce downtime, maximise yields, control inventory and improve plant performance. Key areas for potential return include laboratory costs, waste product disposal costs, production costs, labour costs, and so on.

Superior Plant Management

- Determine daily production costs and yields.
- Monitor and control environmental load.
- Achieve full production traceability by dispatch.
- Monitor and control waste.
- Establish optimal production levels.
- Achieve reduced recall expenses.

Maximised Yields

- Produce a daily mass balance.
- Determine the real-time process adjustments needed to achieve yield improvements.
- Monitor yield variation on an individual unit basis.
- Link yield with suppliers for preferential purchase decision making.
- Reduce ingredient losses.
- Track costs, usage, delivery and invoice data.



Reduced Overhead Costs

As a fully integrated quality and traceability database, SoftTrace provides significant efficiencies in production data management, resource deployment and cost reduction. It eliminates unnecessary overhead costs by automating labour intensive tasks and facilitates increases in production without incurring the expense of additional resources. Resource deployment is optimised across the following functional areas:

- **Laboratory:** via automatic data capture from laboratory instruments.
- **Production:** via automatic production data capture and record keeping.
- **Dispatch:** via computerized picking and specification overlay.
- **Quality Assurance:** via instant access to traceability records and a significant reduction in the amount of time spent on audits by personnel across all departments.



Optimised Product Values

- Reduce manufacturing costs.
- Enhance quality performance.
- Instantly access a full profile of the quality and grade of all product inventories to sub-lot and pallet level.
- Match customer quality specifications with available pallet quality attributes.
- Optimise inventory allocation to sales orders for maximum returns.
- Reduce losses as a result of product downgrades.



Features

Raw Materials

Integrated quality data on all raw materials and ingredients for enhanced rapid response and crisis management capabilities.

- Capture data at the intake point / weigh area.
- Raw material QA and release into the process or holding area.
- Update inventories of raw materials and ingredients.
- Integrate with process automation software for physical movements and key events data.
- Record and monitor all receipts and sales.
- Full traceability from raw material receipt into the process.
- Monitor direct sales to third party processors.

Laboratory Information Management System (LIMS)

A secure, configurable platform for full quality traceability from raw materials to dispatch.

- Receiving, in-process, environmental and finished product analysis.
- Automatic test / sample creation and frequency control.
- Certificates of analysis / conformance documentation.
- Full data access security and audit trail.
- Instrument calibration and event management tool.
- User defined database of tests, test specifications and worksheets.
- Instrument interfacing and data capture library.
- Online methods and standard operating procedures.
- Interface to manufacturing and business systems.
- Flexible graphing (SPC) and reporting options.

In-Process

Track, integrate and control manufacturing data to sub-batch level.

- Record raw material, ingredients, process and packing line inputs.
- Configurable, user defined process control records (make sheets).
- Integrate SOPs and work instructions.
- Log quality samples and view results from the production floor.
- Automatically generate work-in-progress records.
- Integrate with process automation and packing line systems.
- Track all product movement by quantity and batch code.
- User configurable, alert functionality.
- Real-time trends based on laboratory and process automation data.
- Automatic update of finished goods inventory.
- A comprehensive suite of enquiries, reports and graphs.

Inventory Management

A robust solution to raw material, ingredient and finished goods inventory, grading, dispatch and yield analysis challenges.

- Real-time inventory data on raw materials, work-in-progress and finished goods.
- Profile the quality and grade of all finished goods to sub-batch, container or pack level.
- Full batch traceability from finished goods to raw materials and ingredients.
- Production reconciliation.
- Automatically update finished goods inventory.
- Movement history / store management.
- Select product to sub-batch level.
- Pick-list to customer specification to maximise use of inventory.
- Generate loading sheets and dispatch documentation.
- Integrated barcode labeling system and support for RFI technology.
- Interface to ERP / Business system.
- A comprehensive suite of enquiries and reports.



Full Traceability in Minutes!

Key to meeting the end-to-end traceability challenge is seamlessly integrating all critical quality, manufacturing and business data into a single software system so that it is guaranteed error proof and can be effortlessly accessed in real-time.

Forward traceability means being able to:

- Receive notification of a quality breakdown with an ingredient.
- Immediately identify all finished product batches containing the ingredient batch and their in-store or dispatched location.
- Rapidly instigate a product recall.

Backward traceability means being able to:

- Receive external notification of a quality breakdown with a dispatched product.
- Easily trace the affected product batch backwards through the process and identify all associated raw material and ingredient deliveries.

Seamless Integration of all Critical Quality, Manufacturing & Business Data

SoftTrace is an integrated solution for effective, demonstrable conformance to end-to-end traceability requirements.



- **Receiving Data:** supplier delivery data; all receiving records with integrated quality control and laboratory data.
- **Raw Materials / Ingredients Data:** raw material and ingredient batch usage for a product/batch.
- **Process Manufacturing Data:** all associated manufacturing and blend records, laboratory data, CIP records, calibration and downtime analysis etc.
- **Finished Goods Data:** finished goods analysis results along with the customer's product specifications, packing data and raw material sources.
- **Dispatch Data:** all dispatch data associated with the product/batch including transport and delivery details, storage, quality release data and certificates of analysis.
- **Customer Data:** full customer details for associated dispatches.

Maintaining the Traceability Data Chain

The SoftTrace modules add up to a plant-wide data collection and management system that provides full product traceability and effortless access to all data – forward and backward – from any point in the traceability data chain.

- Integration between **SoftTrace Raw Materials** and **LIMS** creates an unbroken traceability chain from the farm and active ingredient sources to quality control and release into the manufacturing process.
- **SoftTrace In-Process** extends the traceability chain from raw material receiving and active ingredient inventory to the in-process batches, bulk finished product and finished goods inventory. It captures in-process quality control data live on the plant floor. It integrates bulk finished goods and packing line data to provide a vital link between the bulk finished goods, their packing and manufacture. It provides instant access to detailed quality information on the batches of bulk finished product and packed finished product units.
- Full integration of **SoftTrace In-Process** and **Inventory Management** secures the production traceability chain by linking the process control sheets, packing, quality and inventory records. It provides a profile of the quality and grade of all finished goods to individual pack level. Traceability to the customer is maintained to unit level within the batch – completing the traceability chain from source to customer



Delivering a Complete Traceability Solution on Time and in Budget

We emphasise short implementation times, deliver on time, at the agreed price and with measurable results.

Our goal is to provide a total solution to the Traceability and Quality Management demands of our Food industry customers. The SoftTrace team has just the right mix of technical skills and process industry experience to do that. We combine in-depth industry knowledge with cutting-edge Traceability and Quality Management Software and a range of expert support services.

- Business and application consultancy
- Risk analysis and needs assessment
- Project management
- Software customisation
- Hardware implementation
- Database and Application Licensing
- Data Migration
- Training
- Technical Support

We adhere to rigorous development standards, test and software release procedures and work closely with customers to document their specific system requirements, identify core areas and emphasise speed and clarity of purpose in implementing a working system.



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