



Thermo Scientific TCAutomation
Laboratory Automation Solution

Expandable Automation to streamline lab processes

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Efficiency and consistency in sample handling

Improved efficiency and safety of sample management together with short and consistent turnaround times are the key benefits of laboratory automation. By automating the key pre- and post-analytical steps, such as decapping, centrifugation, aliquoting, sorting and recapping, Thermo Scientific™ TCAutomation™ helps to manage the increasing workloads and improve quality in today's busy laboratories.

Effective sample processing

Samples are transported within the TCAutomation system in single tube carriers that accommodate various tube types and sizes.

- Sample tube carriers with an embedded RFID microchip enable faster and more reliable sample identification.
- Excellent real-time sample tracking possibilities.

Centralized operation

TCAutomation controller, based on Windows® software, offers in a single screen an overview of the entire system allowing users an easy way to monitor large automation configurations.

- Fully graphical, easy-to-navigate user interface.
- Route definitions are simple to manage and provide flexibility when optimizing the workflow.

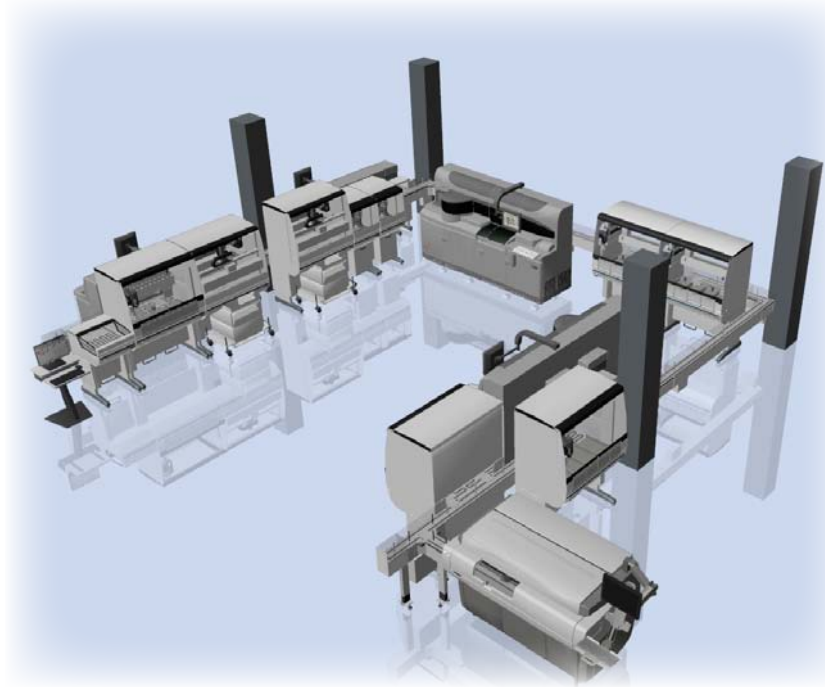


Scalable

customer-specific solutions

Each installation is planned for its individual optimal efficiency delivering improved sample management. TCAutomation provides a solution for increased throughput and productivity needs as well as for integration of new analyzing technologies.

- TCAutomation systems and solutions fit into various floor plans.
- The modular concepts are scalable to meet the changing needs.
- TCAutomation can grow from a small automation system to high volume total laboratory automation.

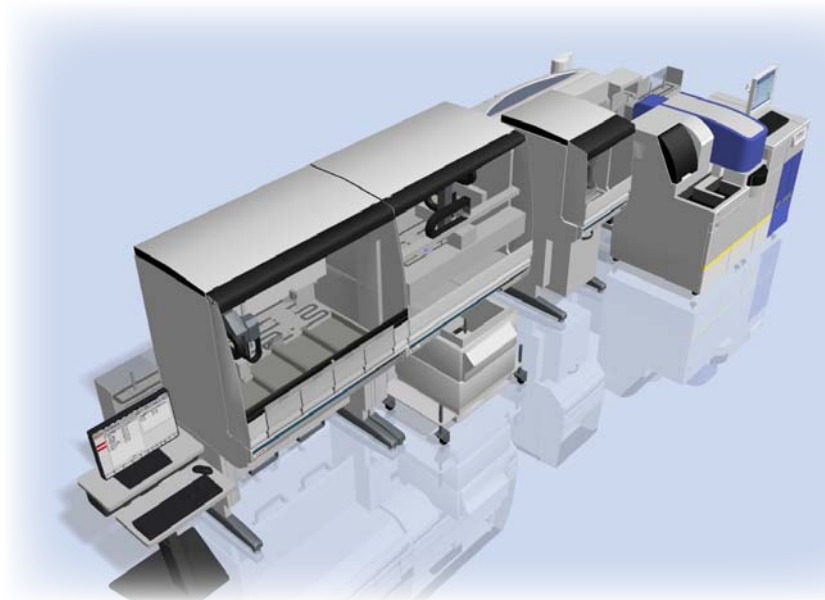


Open

flexible concept

TCAutomation supports analyzer interfaces from various different manufactures. Thermo Scientific workcell solutions may include two or more analyzers in one system combination increasing the analyzing capacity and decreasing the manual work.

- Single entry point without pre-sorting.
- One centralized user interface with sophisticated Middleware software offers integrated functionality for managing the whole workcell.
- Easy addition of pre- and post-analytical functionality.



Fully featured solutions

for optimized workflow



ES Flex, Rack Entry, Rack Exit, Combined Rack Entry/Exit Modules - Modules for automatic sample loading and unloading in user-specified racks. Automatic retrieval for rerun and excellent sample sorting capabilities.



Entry and Exit Module – Modules for manual loading and unloading of sample tubes. Option e.g. for STAT entry.



Aliquoter/Labeler Module – Automatic sample aliquoting to secondary tubes using disposable tips. Automatic barcode labeling of secondary tubes.



Centrifuge Module – Automatic and continuous centrifugation of samples.



Decapper Flex Module – Automatic cap removal from different types and sizes of sample tubes.



Recapper Module – Automatic capping of different types and sizes of primary and TCAutomation Aliquoter secondary tubes with conical caps.



Buffer Module – Area for samples waiting for validation and for storing empty carriers.



Perpendicular and Parallel Bypass Modules – Analyzer- specific interface modules for point-of-space system connections.



Robotic Analyzer Interfaces – Please contact Thermo Fisher Scientific for more information.

Flexible, open and scalable TCAutomation system offers proven and highly efficient solutions for laboratories to

- Automate pre- and/or post- analytical processes
- Integrate analytical systems into one workcell
- Consolidate the pre/post-analytical and analytical workflow

Expandability step by step

- Expand functionality with additional modules
- Increase throughput by multiple modules
- Extend analytical integration by adding analyzer interfaces

Track - Dual-lane conveyors for sample transport. Available in different lengths.





Automation solutions

bringing benefits to clinical laboratories

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Clinical Diagnostics Finland:

Tel: 358-9 329-100 | email: sales.cdx.fi@thermofisher.com

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