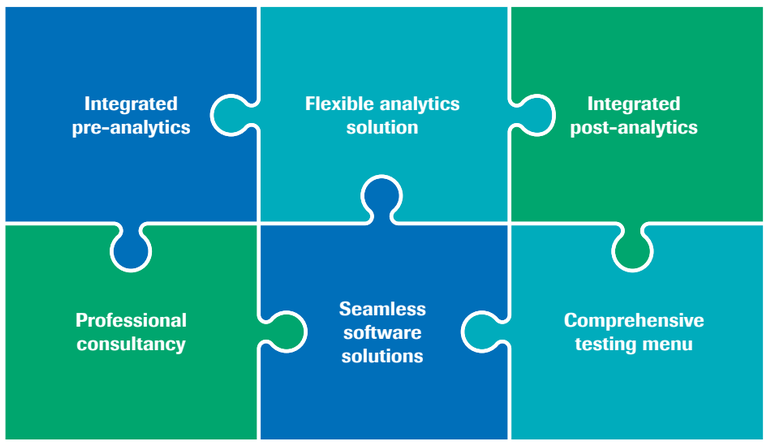
# cobas® connection modules (CCM)

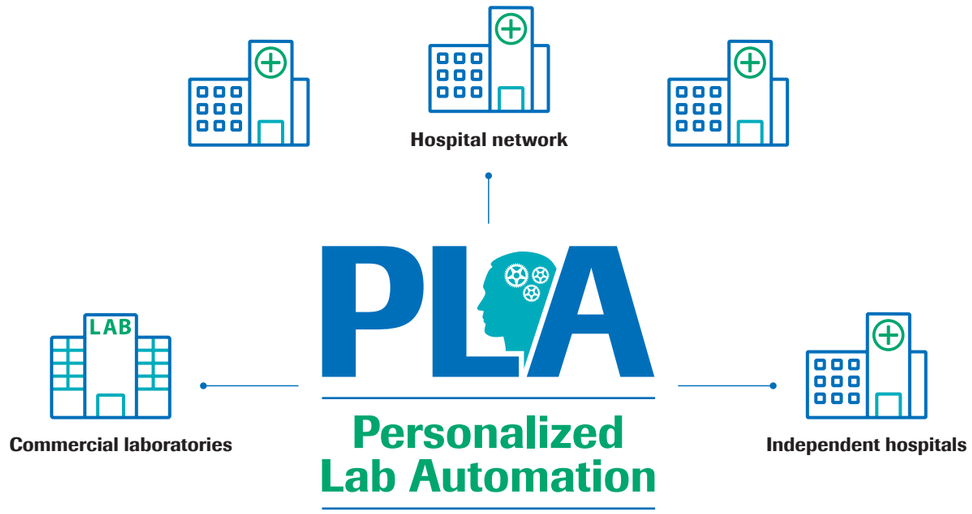
*Everything designed to work together as one*

# Personalized Lab Automation

*Maximizing Testing Efficiency and Medical Value*

**At Roche, laboratory automated solutions deliver the quality and reliability you expect, with the personalization required by low-, mid- and high-volume laboratories.**




**1. Virtual Automation**
To have the control you need, ensuring quality and efficiency across your lab,
Virtual Automation gives you the capability to track your samples and reduce manual tasks through the cobas software solutions.

**2. Standalone Automation**
Pre- and post-analytical tasks are automated, offering maximum efficiency through flexible standalone solutions. It significantly reduces manual steps in the lab, enhancing error handling, safety and process quality.

**3. Connected Automation**
In addition to having all the benefits of Standalone Automation, Connected Automation offers transportation. Physically connecting different instruments allows maximum predictability of time to test results.

*Everything designed to work together as one*

*Designed for high-throughput labs*

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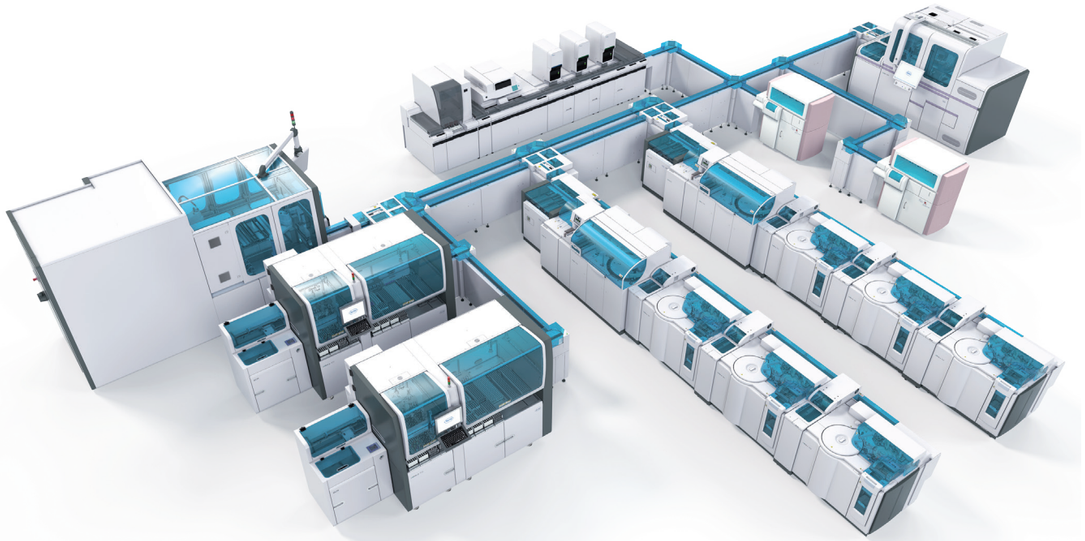
*Everything designed to work together as one*



**Multidisciplinary connectivity**
Only IVD company able to connect to Molecular Diagnostics and Urinalysis with complete test profile

**Quality**
Comprehensive inspection of sample quality at an early stage

**Workflow your way**
Custom choice between primary, aliquot or mixed workflow

**Flexibility**
Adapts to the lab´s sample handling needs



**Multidisciplinary connectivity**

CCM gives you the option to connect multiple laboratory disciplines in a seamless integrated solution. CCM provides connection between analyzers guaranteeing predictable turn around times for high throughput laboratories.

- **Chemistry and Immunochemistry**
- **Hematology**
- **Coagulation**
- **Urinalysis**
- **Molecular Diagnostics**
- **Allergy**
- **Specialized Infectious Diseases**
- **Post-analytics**

- CCM fully automates the laboratory process from sample entry to archive
- Designed to consolidate **the vast majority of your laboratory testing volume**
- CCM offers options for connectivity with Roche and selective best-in-class third-party analyzers
- Options for integrated post-analytics
  - Add-on testing
  - Long-term refrigerated storage

**CCM solutions are validated for cross-contamination compliance**

**Workflow your way**
Personalized workflows enable you to choose fromprimary, aliquot or mixed workflow, the choice is yours.

- Primary sample workflow – if the focus is on cost efficiency
- Aliquot workflow – if the focus is on sample integrity and parallel testing
- Mixed workflow – to optimize the benefits of both

**Workflow with primary samples**
Less consumables, less waste

**Workflow with aliquoting**
Maintain sample integrity and deliver parallel processing for improved TAT

**Mixed workflow**
Benefit from primary tube testing while being able to maintain sample integrity and improve TAT

# cobas® connection modules (CCM)

*More early inspections of samples. Good to go!*

### Quality checks

CCM performs comprehensive inspection of samples at an early stage, maximizing workflow efficiency.

- **Tube type identification**
- **Sample volume check through 3 barcode labels**
- **Spin status detection**
- **Sample quality check**
- **Capture of sample image**

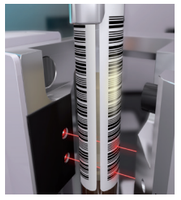
**Overall optimization of lab workflow:**

Reduced workload and reagents waste

Shortest time to consistent results

### Automated spin status detection

CCM detects whether blood samples have been centrifuged or not. Spin status enables a greater workflow efficiency, preventing unspun samples from being tested. Measurements are made via laser through 3 barcode labels.



Laser measurement through barcode labels

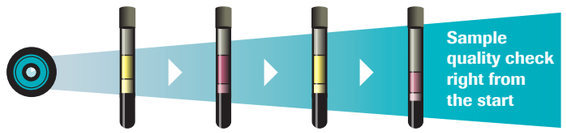
**Sample unspun:**
Gel at bottom

**Sample centrifuged:**
Gel “in the middle”

### Automated sample quality check

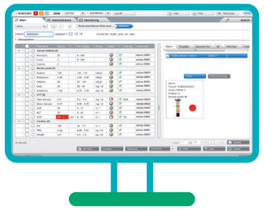
Roche‘s automation solutions perform a comprehensive inspection of sample quality at an early stage. Tube type identification, liquid and volume detection, spin status and sample quality checks are done to optimize the overall lab workflow.

**cobas® infinity software solutions take automated actions for:**
**shortest time to result;**
**saving reagents and samples;**
**avoiding to produce incorrect results.**

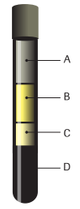


### Capture of sample image

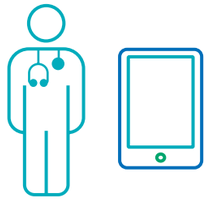
A valuable support for your medical decisions, enhancing reliable and fast results.



Sample image and data on **cobas infinity lab**



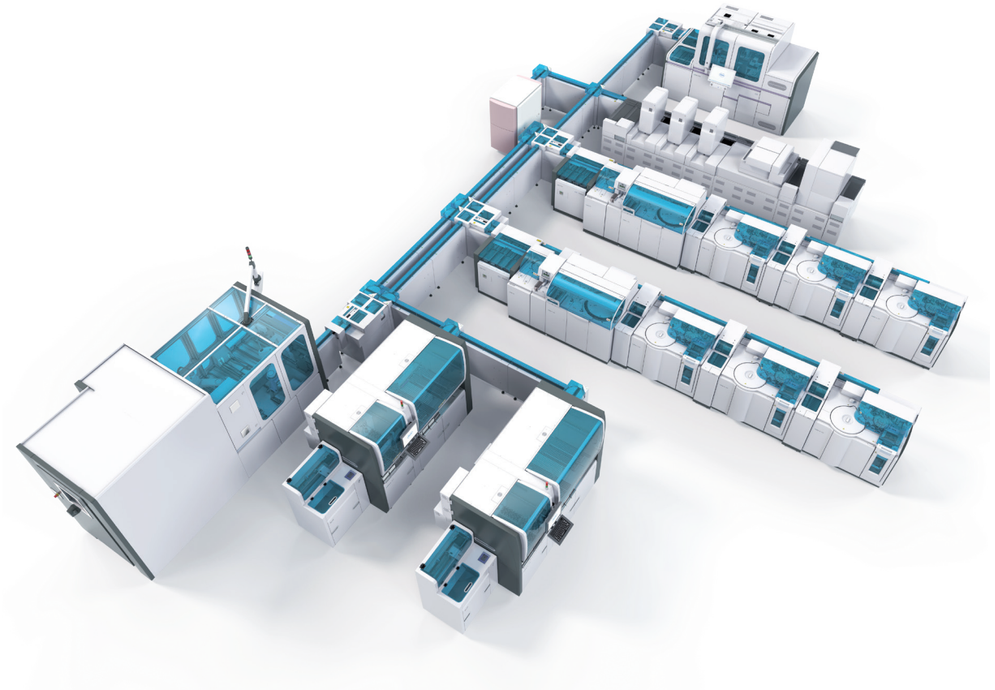

Sample image



Immediate access to samples’ information

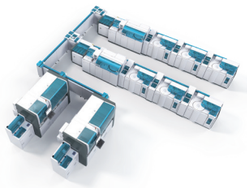
# cobas® connection modules (CCM)

*The growing flexibility*

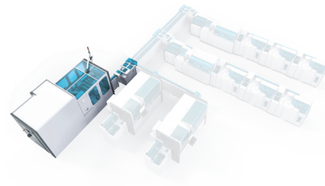


## Scalable

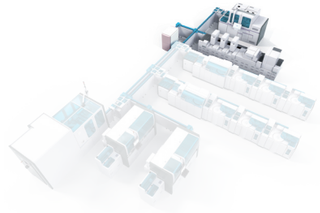
Easy on-site solution expansion as you need it.



**01 Initial configuration, pre-analytics connected to Chemistry and Immunochemistry**



**02 Refrigerated long-term storage**



**03 Hematology, Coagulation and Molecular Diagnostics**

## High flexibility for standalone work areas

CCM is also a valuable option for sorting non-connected work areas.

- Flexible and freely definable sorting areas
- Sorting into various racks supplied from Roche and other vendors
- First pass and recursive workflow
- Archiving of samples

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