



cobas[®] 8000 modular analyzer series
Intelligent LabPower



cobas[®]
Life needs answers



Introducing the cobas® 8000 modular analyzer series

Because demanding jobs require intelligent and powerful solutions

The **cobas** 8000 modular analyzer series is the latest member of the Roche **cobas** modular platform family and builds upon all the great qualities high-volume labs have come to expect from Roche Diagnostics. It greatly increases lab efficiency and throughput, and offers amazing modular flexibility.

This new Serum Work Area (SWA) solution is designed for high workload laboratories and can cover a throughput range of 3-15 million clinical chemistry and immunochemistry tests/year. One **cobas** 8000 modular analyzer series configuration consists of a core unit, an optional ISE module (**cobas** ISE module) and up to 4 of the following analytical modules:

- A high throughput clinical chemistry module (**cobas c 702** module)
- A mid volume throughput clinical chemistry module (**cobas c 502** module)
- An immunoassay module (**cobas e 602** module)

Combinations of these modules offer 24 unique configurations that provide tailored solutions to meet the needs of individual laboratories. Additionally, each system can be reconfigured on-site to meet the changing needs of your lab.

Many innovative design elements, such as intelligent sample routing with fast transportation and return lines; independent processing lines within each module; the Module Sample Buffer in each module; continuous reagent exchange through the reagent manager; the tailor-made and harmonized reagent cassette concept and many more, are further contributions to add value in a high workload laboratory.

cobas® 8000 modular analyzer series

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The cobas 8000 modular analyzer series delivers a new dimension in productivity, efficiency, process innovation and consolidation:

Multidimensional modularity

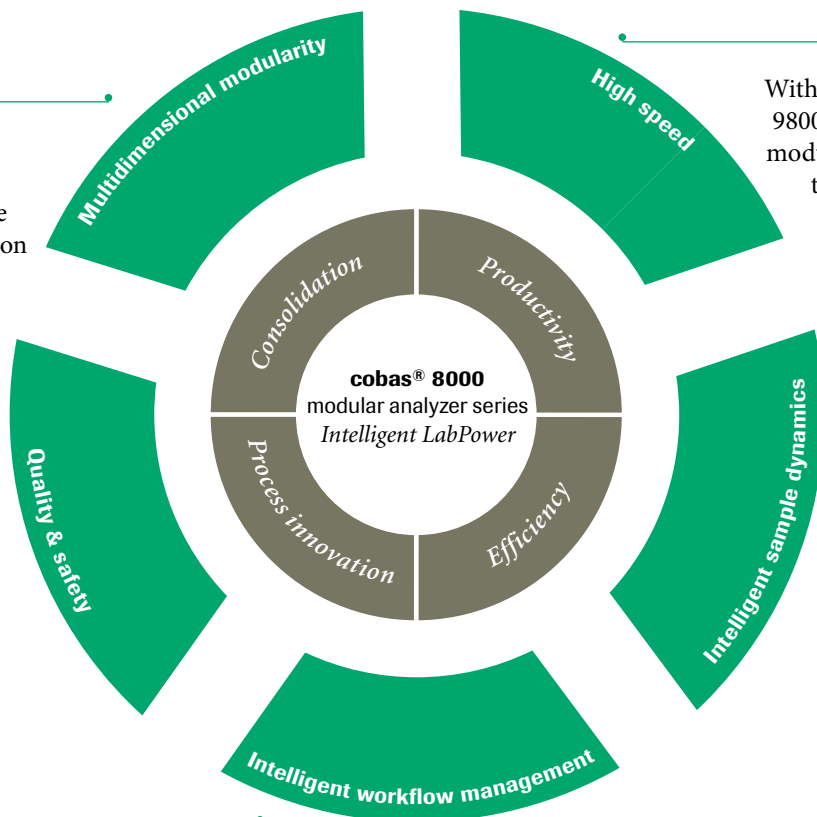
24 unique configurations can be tailored to suit a wide range of throughput and consolidation needs.

Quality & safety

Disposable tips and cups, ultrasonic mixing, clot detection, and serum indices help to increase confidence in results without compromising turnaround time.

Intelligent workflow management

The introduction of the cobas 8000 data manager and the Auto QC concept, and liquid, ready-to-use reagents and the ability to seamlessly connect to pre-analytics help to significantly improve your overall laboratory workflow.



High speed

With a high throughput of up to 9800 tests/hour, the cobas 8000 modular analyzer series delivers the speed you need for your high-volume laboratory.

Intelligent sample dynamics

One of the most unique design elements of the cobas 8000 modular analyzer series is the Module Sample Buffers which allow for fast and efficient management of each and every rack.

cobas® 8000 modular analyzer series

At a glance



1 cobas 8000 data manager

- Screen sharing with the analyzer software and **cobas link** on a single screen for convenient instrument monitoring.
- Traceability of information for easy tracking of calibration and reagent information.
- User defined fully automated and selective rerun and reflex testing.
- Technical validation of sample result in combination with rule programming improves and accelerates the result release process.
- QC management of all connected instruments on a single screen supports flexible integration of local requirements for QC standards and rules (e.g. Levey-Jennings plots and diagrams, Westgard rules,...etc.).

2 Core Unit

- Loading capacity of up to 300 samples (4 trays: 15 racks/tray, 5 samples/rack)
- Throughput of up to 1,000 samples/hour
- Dedicated STAT port

3 cobas ISE module

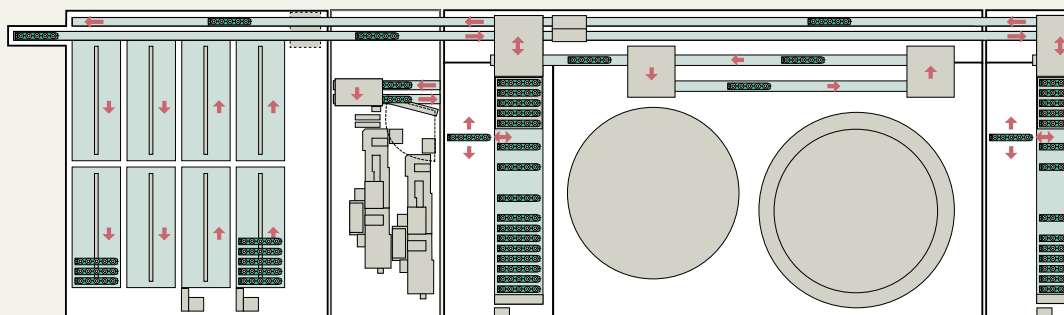
- Sodium, potassium, chloride
- Up to 600 samples/hour or 1,800 tests/hour
- ISE specific sample probe with clot detection
- Independent processing line

4 cobas c 702 module

- Clinical chemistry, homogeneous immunoassays
- Throughput of up to 2,000 tests/hour
- 70 reagent channels
- Specimen integrity via serum indices (parallel processing), clot and liquid level detection
- Contact-free ultrasonic mixing
- 2 sample probes
- 4 reagent probes
- Pipeting cycle time of 1.8 seconds

4a Reagent Manager

- 10 reagent positions
- Reagent RFID reader
- Continuous reagent cassette loading; load on the fly
- Reagent cassette decapping
- Reagent cassette unloading
- Reagent cassettes can be placed in the Reagent Manager at any time





5 cobas c 502 module

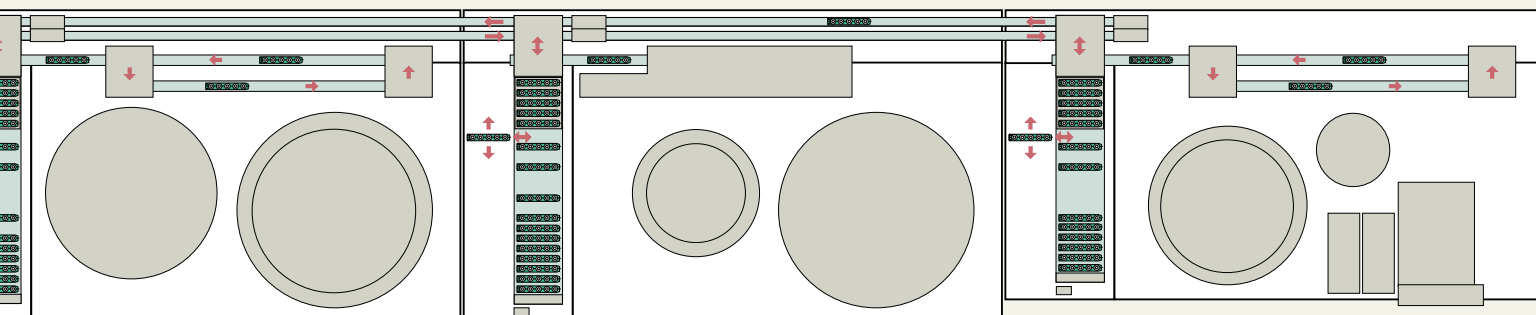
- Clinical chemistry, homogeneous immunoassays, HbA1c (whole blood measurement)
- Throughput of up to 600 tests/hour
- 60 reagent channels
- Reagent loading on the fly
- Specimen integrity via serum indices (parallel processing), clot and liquid level detection
- Contact-free ultrasonic mixing

6 cobas e 602 module

- Heterogeneous immunoassays
- Electrochemiluminescence (ECL) technology
- Throughput of up to 170 tests/hour
- 25 reagent channels
- Disposable tips and cups
- Clot and air bubble detection

7 Module Sample Buffer

- Capacity for 20 sample racks/up to 100 samples per module
- Environmentally controlled compartment for 5 Auto QC racks
- Backup operation port
- Rack shuttle gates allow fast and efficient movement of racks from module to module
- True random access allows all racks to go from anywhere to everywhere
- Seamless STAT integration



*The **cobas** 8000 modular analyzer series effectively meets laboratory workload and manages peak demand by delivering an extremely high throughput of tests per hour.*

Intelligent LabPower *With a passion for productivity*

- Delivers a max throughput of up to 9800 tests/hour
- Module Sample Buffers allow for fast indexing of each and every rack
- High speed transport and return line combined with the rack shuttle gates in each Module Sample Buffer allow racks to move more quickly and efficiently to each module
- 9-minute immunoassay STAT applications ensure rapid availability of all patient results
- Scheduled automated reagent cassette exchange with no operator intervention
- Radio Frequency Identification (RFID) technology on the **cobas c** pack large cassettes allow for fast reagent registration
- Remote diagnostics via **cobas** link help to ensure maximum uptime



Designed to create unparalleled efficiency with intelligent sample dynamics that allow unrestricted rack flow and true random access to every rack.

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With a passion for efficiency



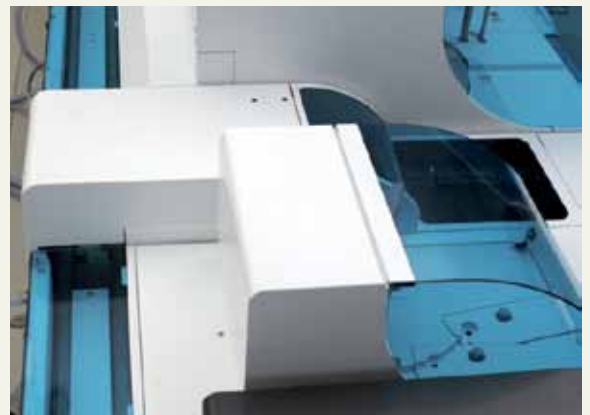
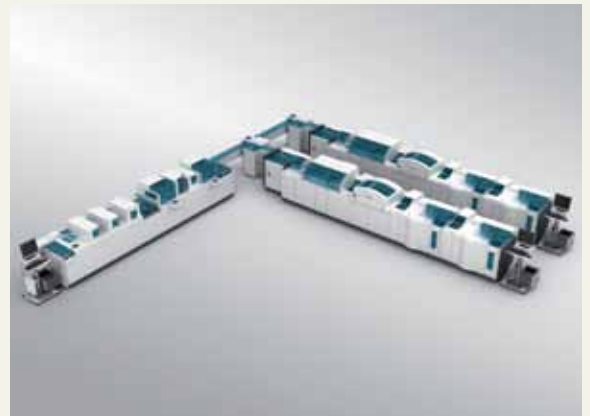
- Large onboard sample and reagent capacity, combined with the Auto QC concept, help to maximize your walk-away time
- Liquid, ready-to-use reagents and the many automated processes reduce your overall hands-on time
- Module Sample Buffers allow for true random access to every rack and allow a rack to go from anywhere to everywhere within the system
- STAT samples are prioritized in the system allowing for rapid turnaround of critical patient reports
- Automatic application downloads via **cobas link** ensure parameters are loaded correctly the first time

*Many innovative design and process elements in the **cobas** 8000 modular analyzer series not only streamline the overall workflow process in the system but also enhance the overall workflow efficiency for the laboratory and its environment.*

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With a passion for process innovation

- Innovative Module Sample Buffers allow for true random access to every rack and unrestricted rack flow within the system
- Auto QC concept allows for seamless processing of quality controls without user intervention
- Connectivity to pre-analytics, including **MODULAR PRE-ANALYTICS** system, allows for less variability and more predictability in the process, providing confidence in the results

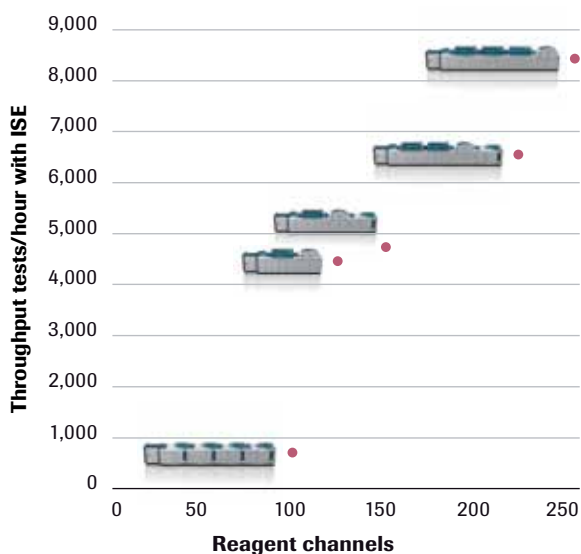


*Many options in analytical modules, reagent channels, assay portfolio, cassette size and STAT management contribute to the exceptional consolidation power in the **cobas** 8000 modular analyzer series.*

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With a passion for consolidation

Some examples from the possible configurations



- Highly scalable design resulting in 24 unique configurations
- Each system can be reconfigured on-site to meet the changing needs of your lab
- Maximizes throughput and consolidation power without compromising workflow
- Consolidates very frequently requested tests with less frequently requested tests

*Because demanding jobs require intelligent
and powerful solutions, now and in the future.*

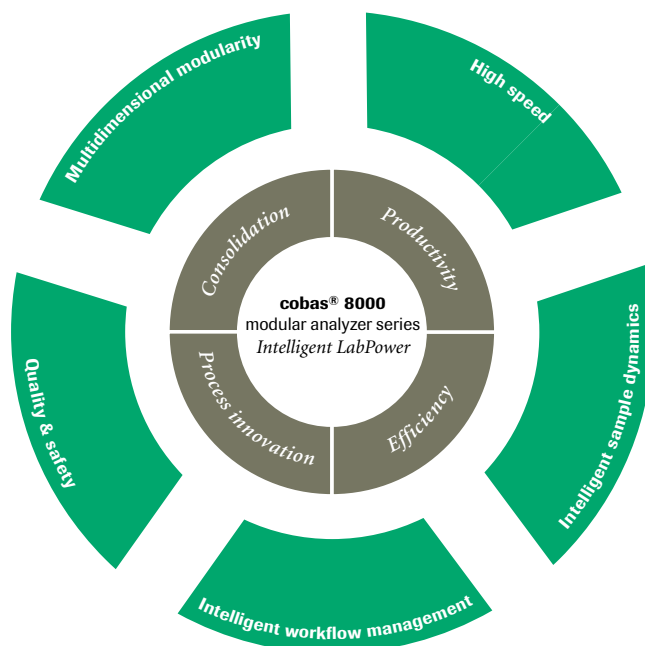
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With a passion for uniqueness

The **cobas** 8000 modular analyzer series provides intelligent solutions for demanding jobs. Designed for high-volume testing, the **cobas** 8000 modular analyzer series reaches new dimensions in high speed, intelligent sample dynamics and workflow improvements while still ensuring optimal performance for the individual patient. Highest quality and safety standards are met and intelligent sample, reagent and result management further enhances efficiency.

The **cobas** 8000 modular analyzer series with its flexible modularity offers tailored solutions to meet the changing laboratory needs, bringing a new dimension in terms of productivity, efficiency and consolidation.

The **cobas** 8000 modular analyzer series acts intelligently, empowering the laboratory to improve both customer and patient services.



**To find out more, speak to your Roche representative
or call 1-800-981-8863.**

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