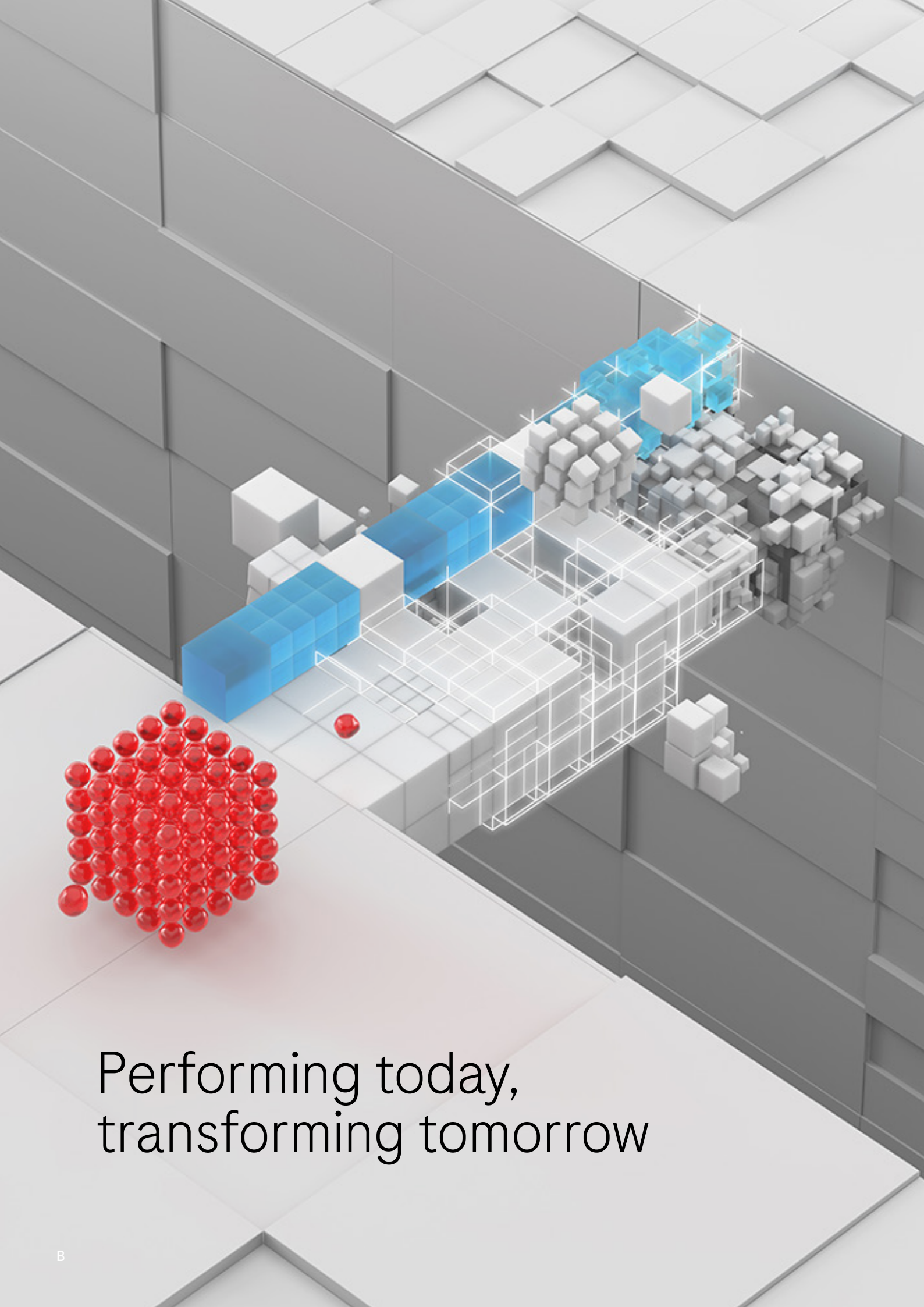
cobas®

Roche

cobas® 8100 automated workflow series

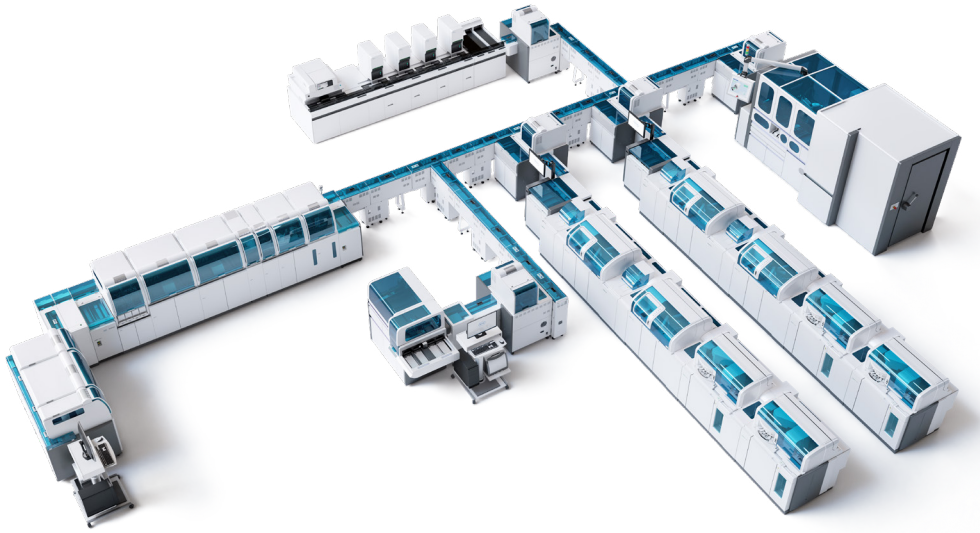
3-D intelligence in lab automation



Performing today, transforming tomorrow

Automation solutions

Design the solution that best fits your needs



Flexible

Flexible workflows and layouts

Scalable

Support from medium to mega lab

Serviceable

Reduced installation and service time

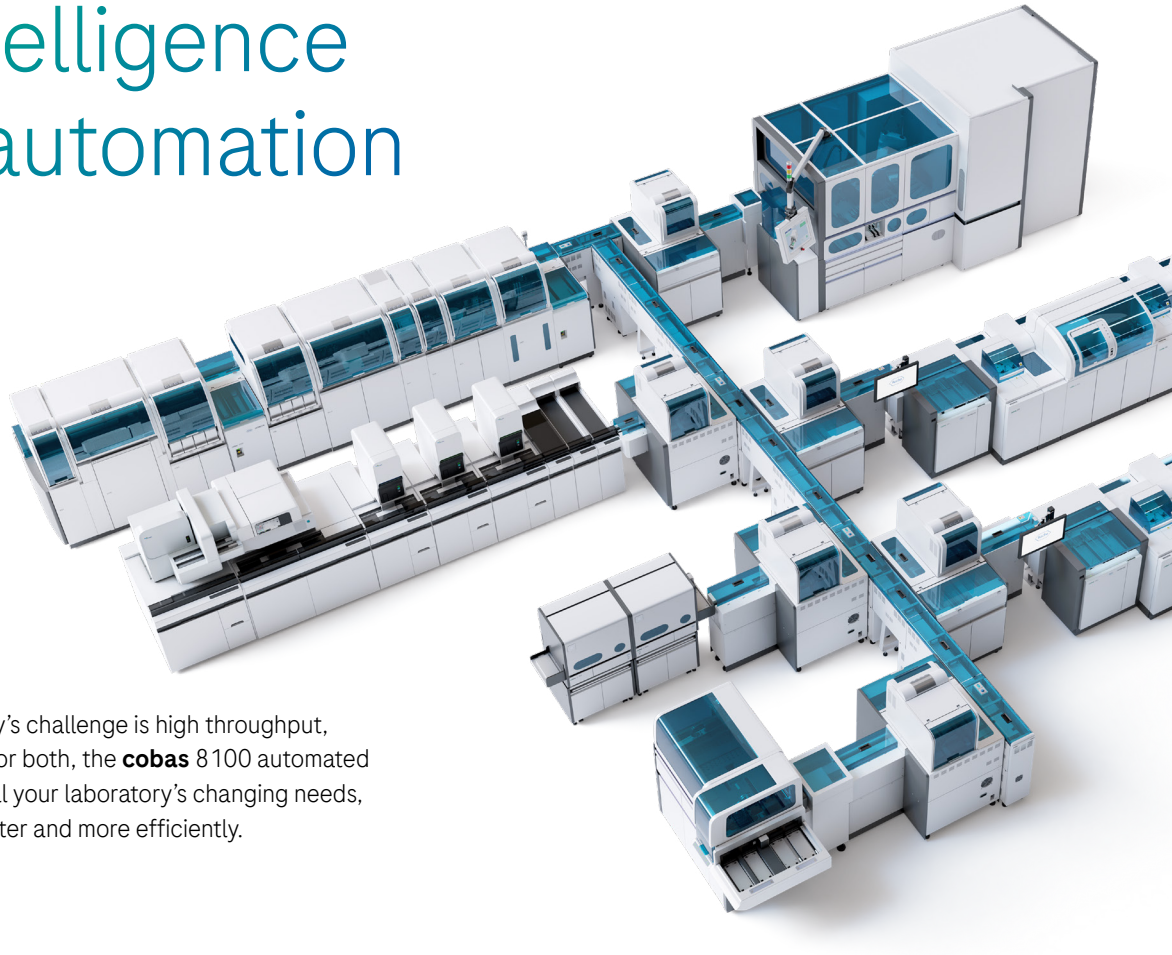
Seamless

Integration with our analyzers

3-D intelligence in lab automation

Designed for
high-throughput
labs

3-D intelligence in lab automation



Whether your laboratory's challenge is high throughput, short turnaround times or both, the **cobas** 8100 automated workflow series will fulfill your laboratory's changing needs, allowing you to work faster and more efficiently.

Quality comes first

Early check of the samples quality at the pre-analytical stage for maximum workflow efficiency

Workflow your way

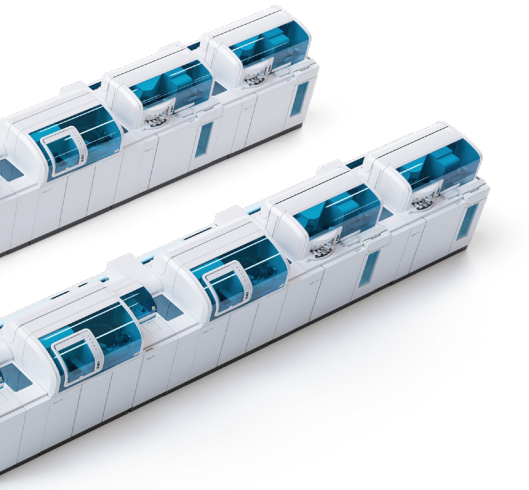
Personalized workflows to enable you to choose among primary, aliquot or mixed workflow

Flexible tube storage

cobas 8100 offers three different storage areas for tubes ensuring fast access as soon as the tube is needed

Short and predictable time to results

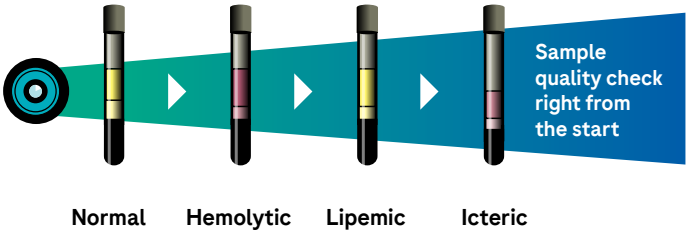
3D intelligent tube transport offers short and predidable time to results. Streamlined processing of multiple disciplines



Quality comes first

At an early pre-analytical stage, Roche automation solutions check the sample quality through a high definition camera and liquid level detection, maximizing workflow efficiency.

- Early error detection
- Reduced workload
- No reagent waste



Workflow your way

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

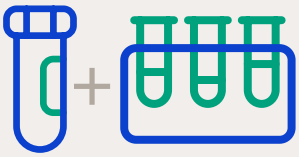
- Primary sample workflow – if the focus is on cost efficiency
- Aliquot workflow – if the focus is on sample integrity and parallel testing
- Mixed workflow – to optimize the benefits of both

Workflow with primary samples

Less consumables, less waste

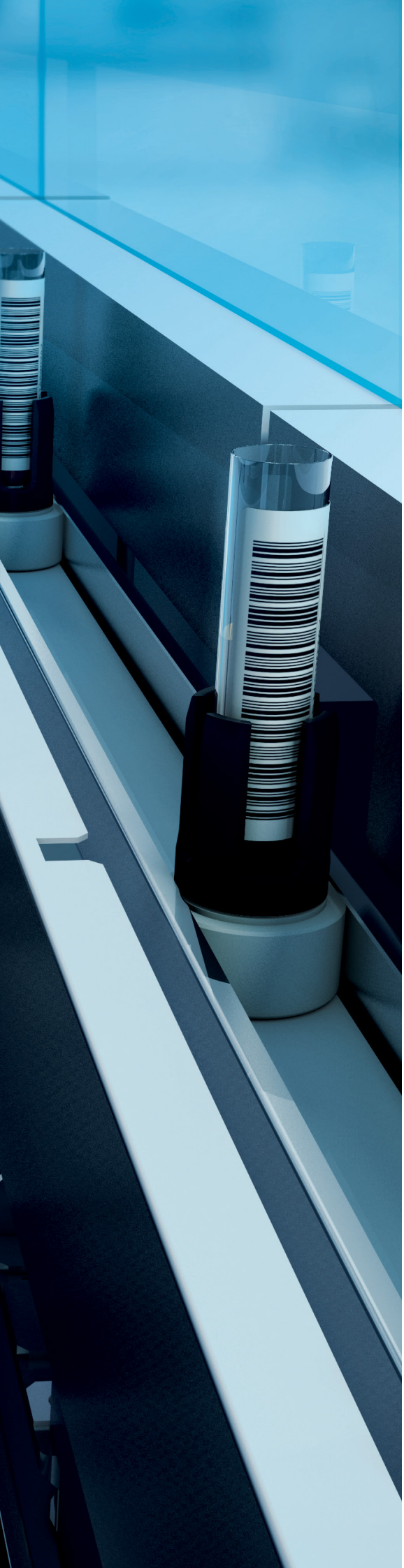
Workflow with aliquoting

Maintain sample integrity and deliver parallel processing for improved TAT



Workflow with aliquoting

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



3-D intelligent sample transportation

3D bi-directional tube transport

Multi-level tube transport

Tubes always have a clear destination

Full and empty sample carriers run on different levels

Tubes can bypass modules

Tubes always have a clear destination

Shortest route – only the necessary stops – without delay

When high-throughput sample processing is required and physicians and their patients are waiting, it is critical to avoid any delays in the workflow. In **cobas** 8100, 3-D intelligent bi-directional transportation is located inside each module.

The transport lines lie on two levels: an upper level for full carriers and a lower level for empty carriers, ensuring that empty carriers do not block the sample transportation line.

The unobstructed sample transportation, with fast access to the next processing step, results in a predictable short turnaround time, even during peaks in your laboratory's workflow.to optimize the over-all lab workflow.

Multi-discipline connectivity to automate the full menu

- Broad reagent portfolio to consolidate 98% or more of routine serum work area
- Designed with options for connectivity to immuno and clinical chemistry, hematology, coagulation, selective best-in-class third-party analyzers and archiving
- **cobas** 8100 fully automates the laboratory process from sample entry to archive
- Integrated post-analytic solutions with add-on buffer module for add-on requests within one day

STAT prioritization in all steps in the process

STAT management in pre-analytical phase and sample transport

STAT management in all analyzers

Flexible tube storage

A solution with **cobas** 8100 offers three storages concepts, ensuring fast automated access to samples whenever needed.

cobas® **pro** integrated solutions
Module sample buffers

Short-term storage

When a sample needs only one run

cobas 8100
Add-on/output buffer

Mid-term storage

For add-on requests within one day/sample archiving

cobas® p 501 / p 701 post-analytical unit
Refrigerated storage

Long-term storage

To ensure long-term sample stability

Accommodates your laboratory's specific needs

Output station

01 Restopper flex-cap/screw cap
02 Add-on/output buffer
03 Output buffer/sorter

Moludar and Scalable

- Easy addition of modules for more functionality or higher throughput
- Easy addition of analyzer modules within an existing analyzer core
- Easy addition of a new analyzer by expanding the layout

Building on long-standing experience, the high quality standards, a proven reliability, as well as innovative cutting-edge technology, the **cobas** 8100 automated workflow series from Roche and Hitachi serves all your automation needs and helps ensure that you will always deliver – whatever the demands may be.

Input station

04 Input buffer
05 Automatic centrifuge unit
06 Sample check module
07 Destopper

Aliquot station

08 Barcode labeler/tube feeder
09 Aliquot module

cobas 8100 intelligent tube transport provides a short predictable time to results, including prioritization for emergency samples.

With flexible workflows, early error detection and fully automated add-on handling, **cobas** 8100 allows for personalized solutions to suite individual laboratory needs, ensuring that quality comes first.

COBAS is a trademark of Roche.
© 2024 Roche

Published by
Roche Diagnostics International Ltd
CH-6343 Rotkreuz
Switzerland

diagnostics.roche.com