

cobas p 501/701 post-analytical units

*Automated storage and retrieval
for maximum efficiency and safety*

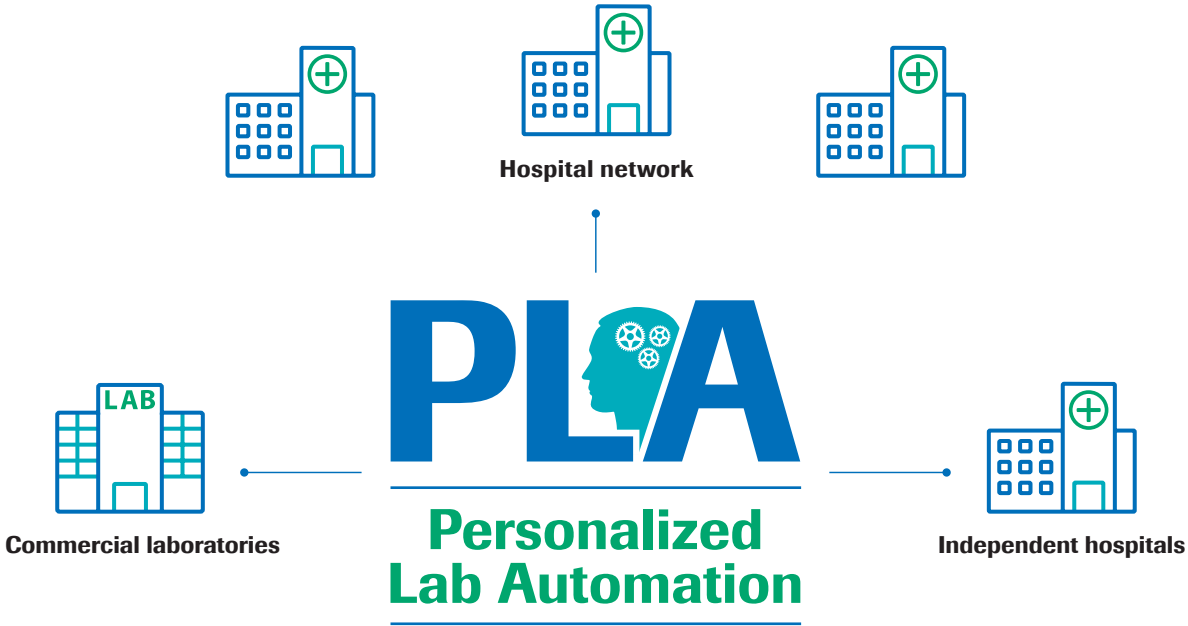
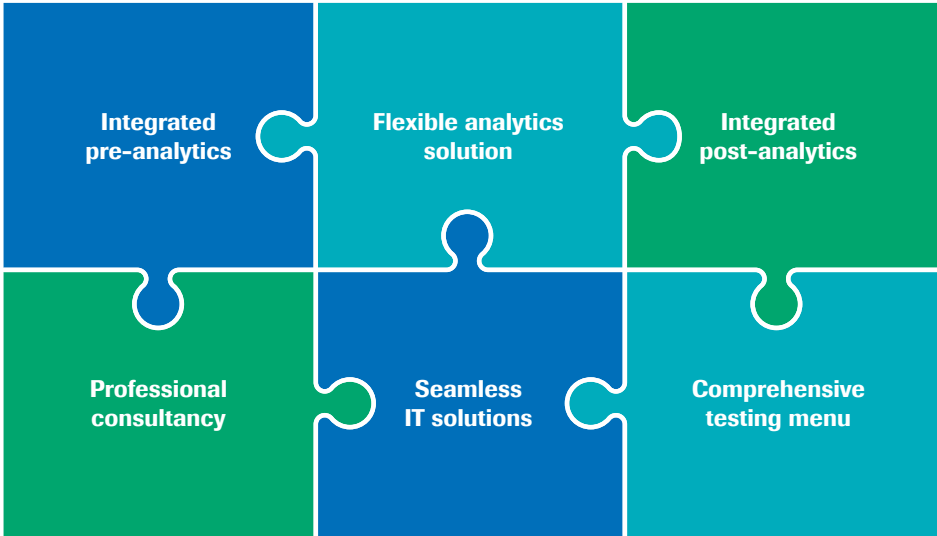


Personalized Lab Automation

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 IT 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.

Automated post-analytical sample management

Seamless integration from sample entry to archive

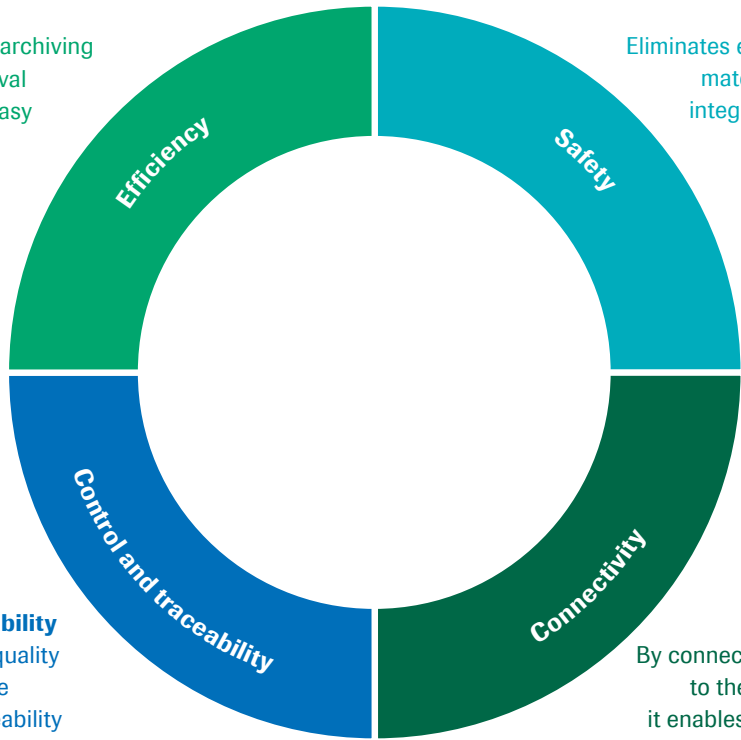


Efficiency

Efficient handling of archiving processes and retrieval for add-on testing. Easy access to samples when needed

Control and traceability

Continuous sample quality monitoring of storage conditions. Full traceability of stored samples



Safety

Eliminates exposure to biohazard materials. Automated and integrated sample disposal with no manual intervention

Connectivity

By connecting **cobas p 501/701** to the automation solution, it enables seamless integration from sample entry to archive

01 Input/output area

Tubes can be loaded into the input area in a Hitachi 5 position rack. A single rack can be loaded into a dedicated line or using trays of 30 or 15 racks. Tubes for add-on testing are provided in HHT 5 position racks in the output area. The empty racks are sorted according to rack range in the rack output.

- Max sample input capacity: 300 tubes
- Configurable input drawers: Tray 30 racks; Tray 15 racks
- Max sample output capacity: 50 tubes
- Exception output capacity: 150 tubes

02 Connected input/output area

The **cobas p 501/701** post-analytical units can be connected to the **cobas®** connection modules and **cobas®** 8100 automated workflow series. The connection offers a total laboratory automation solution including all pre-analytical, analytical and post-analytical steps with-out any direct interaction of the operator with the sample.

03 Rack and tube type identification

- Tube diameter
- Tube height
- Presence of a cap
- Rack range

The open tubes are sorted into the restopping area for closing. The rack range can also be used to determine the storage duration of tubes.

04 Re-stopper/de-stopping

Open tubes are closed using a flexible archiving cap. The **cobas p 501/701** post-analytical units can be equipped with a de-stopping unit. During the retrieval process and according to the customer request tubes can be opened.

05 Storage area

The storage area is continuous monitored for keeping a stable temperature around 4 - 8 °C to guarantee optimal sample storage conditions. Tubes are stored in barcoded high density storage racks with 41 positions. Two different storage durations can be defined by the users.

- **cobas p 701** post-analytical unit capacity: 27,000 tubes
- **cobas p 501** post-analytical unit capacity: 13,500 tubes

06 Automated wasting area

Integrated, smart and safe disposal concept. After the expiration of the storage duration tubes will be wasted automatically. The filling height of the waste containers is monitored.



Technical details

Tube storage capacity	cobas p 501 post-analytical unit: 13,500 cobas p 701 post-analytical unit: 27,000	
Storage throughput	Up to 800 tubes per hour	
Dimensions	cobas p 501 post-analytical unit: 4.34 m (w) x 1.70 m (d) x 2.31 m (h) cobas p 701 post-analytical unit: 5.45 m (w) x 1.70 m (d) x 2.31 m (h)	
Weight	cobas p 501 post-analytical unit: 2,005 kg cobas p 701 post-analytical unit: 2,300 kg	
Tube dimensions	13 - 16 mm (ø), 75 - 100 mm (h)	
Storage	In 41-position high-density racks	
Monitored storage temperature	4 - 8 °C	
Power consumption	< 3 kW	
Heat emission	At about 1.5 kW	
Noise level	< 65 dB	
Certification	CE and UL	

Catalogue numbers

Basic systems	cobas p 501 post-analytical unit:	RD cat # 05158494001
	cobas p 701 post-analytical unit:	RD cat # 05349966001
Options	Re-stopping unit*:	RD cat # 05700922001
	De-stopping unit:	RD cat # 05700949001
Consumables	Archiving cap:	RD cat # 05421349001 (5,000 pcs/box)

** In case the re-stopping unit is not selected all tubes send to instrument for archiving have to be closed.*

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