

Bulk loader module (BLM)

Upgrading the insert options of Roche PVT pre-analytical systems

Bulk loader module (BLM) offers a new sample input option for Roche PVT pre-analytical systems which enables direct loading of unsorted closed tubes. BLM is connected to cobas p 471 single centrifuge. It offers a loading capacity of approx. 600 tubes and a max. throughput of approx. 830 tubes per hour without centrifugation. Liquid level detection (IR-LLD) and Sample Quality assessment (QS I camera) as options of the subsequent cobas p 512 and cobas p 612 pre-analytical systems guarantee standardized sample management and control without manual loading of samples.

Main characteristics of the bulk loader module

BLM is mechanically connected to **cobas p 471** centrifuge input. It separates and re-orientates tubes and places them into empty Hitachi 5-position racks. STAT samples that are placed into the empty Hitachi 5-position racks on the input of the centrifuge will be prioritized by BLM. By trigger connection BLM could be started by external devices (i.e. tube transportation systems).

Continuous workflow from entry to analysis

According to material and test request samples can be processed from BLM to the centrifuge (high G-forces for coagulation, auto-balance, start by timer, optional barcode scanner) or forwarded to the pre-analytical systems (sorting, decapping and optional aliquoting, recapping, quality and liquid level assessment).

In case the pre-analytical system is linked to **cobas®** connection modules (CCM), samples could be passed directly on analyzers (**cobas®** 6000 and **cobas®** 8000, Sysmex hematology) or MPA EVO and its connected analyzers.

- 1 Transport of racks into centrifuge
- 2 Tube separation, re-orientation and placement in empty racks
- 3 Bulk tube loading
- 4 Input of centrifuge and supply of empty racks



Configuration example: bulk loader module and cobas p 471 centrifuge unit connected to cobas p 612 pre-analytical system, as well available connected to cobas p 512 pre-analytical system

Dimensions of example (WxDxH) 5.63 m (221.7") x 1.15 m (45.3") x 1.80 m (70.9")



Throughput	830 tubes per hour (without centrifugation)
Capacity	Loading capacity: 600 tubes HHT 5-position racks: 30 empty racks
Tube specifications	Tube length (incl. cap): 72.1(1) mm – 108.0(2) mm Tube diameter: 11.5 – 15.5 mm Cap diameter: 13.4 – 18.0 mm Cap height (without nose): 5.0 – 30.0 mm The BLM determines the orientation of the tube via detection of the cap. (1)standing in RTT 23.1 mm. (2)In case of Sarstedt “10 mL urine tube” 117.0 mm with cap (top part)
Sample carrier	RD Hitachi racks (5-positions) for input- and output buffer
Dimensions	Width: 1.26 m (49.6") Depth: 0.67 m (26.4") Height: 1.27 m (50.0") Weight: approx. 85 kg
Maximal power consumption	200VA

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