

AUTOSORTER XN

PRE- AND POST-ANALYTIC SPECIMEN PROCESSING FOR SYSMEX XN-SERIES

KEY BENEFITS

High sorting accuracy/specimen traceability

Robust, industrial design with full safety enclosure

Frees staff from non-value-added specimen processing tasks

SPECIFICATIONS

Height: 6' 4"

Width: 9' 3"

Depth: 4' 5"

Throughput:
Pre-analytic: 1,100 tubes/hr
Post-analytic: 1,000 tubes/hr

UTILITY REQUIREMENTS

Pneumatic: 1 SCFM at 80 PSI

Electrical:
208 VAC, 3-phase, 20 Amps
110 VAC, 5 Amps

SPECIMEN FORMATS

Tube diameter: 13 mm

Tube height: 75 mm



- Robust robotic platform for pre- and post-analytic specimen processing in demanding lab environments.
- Specifically designed to load/unload a fully populated Sysmex XN-series hematology line at capacity, processing up to 1,100 specimens/hour.
- Expertly addresses high-volume commercial lab requirements such as bulk loading and high-speed specimen sorting.
- Industrial robots and components are proven to provide extremely high system uptime and reliability for movement of specimens within the cell.
- Powerful vision system determines tube orientation and checks for label positioning.
- Large sort deck maintains increased quantities of specimens, providing fully automated workload balancing for extended walk-away times.
- Traceability of each specimen is maintained throughout the system including the target rack, row/column location.
- IT connectivity facilitates sort instruction and archive log data.

- Global service and support network including 24-hour hotline provides prompt technical assistance when required.

WORKFLOW

- Bulk-loaded hopper feeds specimen tubes (13 mm x 75 mm) to the AutoSorter XN.
- Incoming specimens are “poured” directly into an input hopper for pre-analytic sorting.
- Each specimen tube is inspected by machine vision to ensure upright tube orientation and to confirm correct label placement. The specimen ID (SID) is compared to a database for processing instructions. If the SID is not found, or the label is unreadable, the specimen is sorted to an “error” target for manual resolution.
- Conforming specimens are placed into corresponding target racks or to a 10-position Sysmex rack to be conveyed to the XN hematology line.
- When testing is complete, all racks are conveyed back to the AutoSorter XN for tube unloading and post-analytic sorting into output racks and drawers based on LIS instructions (archive or secondary sort).

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