XL20
Automated Tube Handling

reliable, flexible and affordable

The XL20 is a reliable, versatile and affordable robotic pick and place system that automates and streamlines critical sample management tasks such as organizing, reformatting and accurately tracking samples. The XL20 is fully compatible with LIMS and with a wide range of labware formats. It can be configured to suit any application with multiple add-on functionalities and modules.

applications

- Enhanced compound sample library management
- Facilitate robust QA/QC
- Cherry pick tubes for efficient liquid handling
- Comprehensive sample library volume/inventory tracking
- Optimize freezer space by consolidating tube rack samples
- Simplify printing and application of human readable and barcode labels

benefits

- Highly reliable technology with 20 years of platform experience
- Designed for continuous use and unattended operation
- Compact benchtop footprint maximizes available lab space
- Versatile system that supports labs of all sizes and throughputs
- Great for standalone use or alongside fully automated sample stores

features

- Re-array, reformat or cherry pick tubes
- Sample weighing with 4-place balance
- 2D barcode decoding
- LIMS integration ready
- Work list-based operation
- Label printing and application (optional)
- Integration software toolkits available

BioMicroLab
XL20

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2D barcode scanning

decode up to 740 vials per hour

A built-in camera quickly identifies and decodes unique 2D barcode identifiers as tubes are moved from rack to rack. In-process decoding provides an additional level of sample integrity and tracking at the time of tube transfer. The XL Work List Manager software captures and reports the 2D barcode, tube location, weight and more to LIMS.

label printing and application

print and apply up to 220 vials per hour

Affix human readable labels to labware with ease and eliminate the headache of manual tube labeling.

- Print 1D & 2D barcodes and human readable text
- Variety of label sizes available
- Identical or unique labels
- 300 – 600 dpi thermal printer
- User-friendly software

re-array, reformat, cherry pick

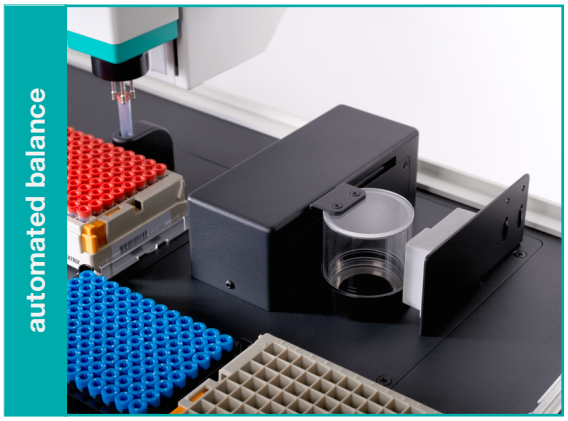
sort up to 1150 tubes per hour

For labs with small or large sample libraries, the XL20 provides walkaway tube processing for work list-based tube transfer from source racks to target racks. Labs depend on BioMicroLab's tube sample management systems to increase their liquid handling throughput and to efficiently complete sample requests.

automated balance

measure up to 420 tubes per hour

- 4-place analytical balance (0.0001g readability)
- Onboard micro ionizer to dissipate electrostatic charge
- Weight data is output to user specified file type (.csv, .txt, etc.)
- Utilizes two rack positions on the sorting platform



Specifications

model	capacity	dimensions (W x D x H)	weight
XL20	20 ANSI/SLAS racks	745 x 570 x 465 mm	18 kg (~60 lbs)
XL20 with LabelPro	18 ANSI/SLAS racks	745 x 830 x 465 mm*	37.4 kg (~82.5 lbs)

Electrical: 110-220 VAC 50/60 Hz
Operating environment: 10-40°C, 10-90% RH [standard]; (-)4-40°C, 10-90% RH [cold room model]
System requirements: Windows 10, 11 - 4 GB RAM - 2 USB 2.0 ports

*a Benchtop Extender is available to support the labeling module where the bench top is not deep enough.

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