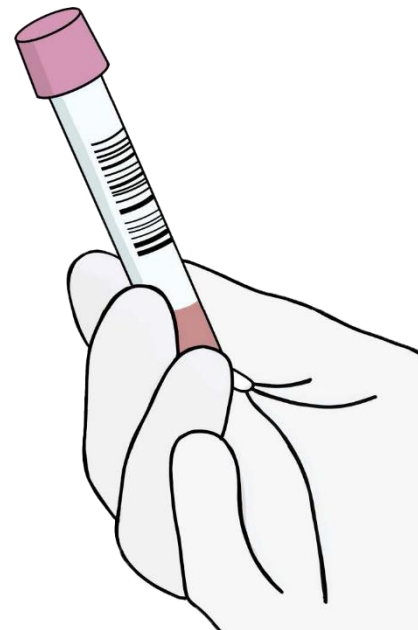
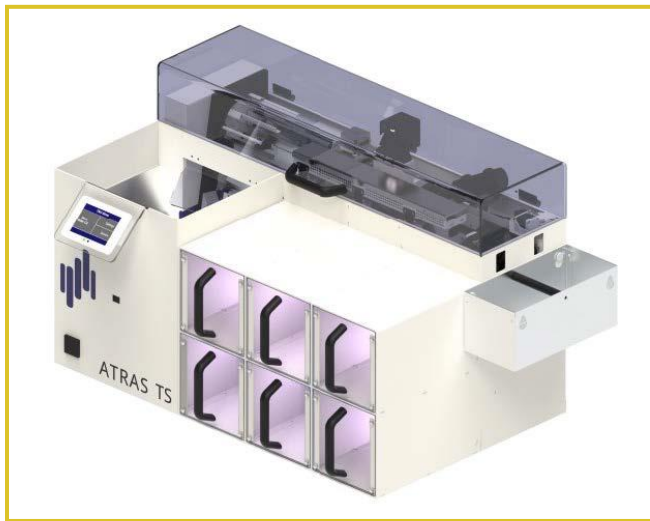


Kairos ID™

Bulk Loader and Sorter

Cost-effective optimization of the sample reception area



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

a division of
**platinum
code**

Benefits

Our sorter optimizes the sample reception area efficiently and cost-effectively

- Early registration of sample tubes
- Employees can focus on value adding activities

Our sorter improves process quality and reduces turn-around time

- Early identification and separation of samples in question
- Fast and reliable

Our sorter organizes pre-analytical sorting of hematology samples

- Direct sorting of hematology samples in bulk or racks
- Significant reduction of samples for further pre-analytical processing



System Description

Our sorter is characterized by a **clear structure**, **intuitive handling**, and **low maintenance**. **High quality** and almost **wear-free parts** ensure the devices **reliability** and **durability**. Due to its **modular design** our sorter provides an **ideal solution** for diverse and interchangeable laboratory requirements.

Sample registration

Sample tubes are registered via a high-performance barcode scanner for fast and reliable sample tube identification.

Cap-color identification

A unique spectrometer, developed in-house, identifies the cap-color of every single tube enabling a plausibility check between tube type and corresponding barcode.

Sorting rules

Sorting of tubes occurs through customer-defined rules based on cap-color and/or barcode information or by US-transmitted rules.

Tube separation

A conveyor chain separates the sample tubes smoothly and reliably.

Bulk loader

Easy and continuous sample loading in bulk, with a capacity of up to 600 tubes.



SIQ-bin

External bin for samples in question.

Rack sorter

One double rack target module sorts into three different racks.

Sorting to target bins

The illuminated target bins can be removed at any time during the sorting process. The process then continues until a tube is supposed to be sorted into the removed bin. Thus, the performance continuously remains at the highest level in real operations.

User interface

Intuitive and simple operation via colored touchscreen.



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

a division of

**platinum
code**

Automated

Bulk-to-Bulk Registration and Sorting

Sample tubes are inserted in bulk, registered, and sorted based on barcode and/or cap-color information. Registration is done by a high-performance barcode reader ensuring reliable specimen identification at high throughput. An adaptive and uniquely precise, in-house developed spectrometer enables the verification of a sample tube's cap-color and its corresponding barcode, detecting and sorting out false or un-labelled specimen at the earliest possible stage. Sorting rules can be set up as required and adjusted easily so it can communicate directly with the LIS or work independently as a stand-alone device. The continuous tracking of all sample tubes during the entire process from registration to sorting guarantees safe and reliable handling of all specimen to increase overall process quality.

- Throughput: 2350 tubes/h
- All common sample tubes
- 6-10 target bins*
- External SIQ-bin
- Expandable by rack target modules
- Works with/without LIS-connection



*The number of target bins can be increased almost indefinitely through expansion modules.



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

a division of

**platinum
code**

Automated

Bulk-to-Rack Registration and Sorting

Expanding the bulk-to-bulk sorting by bulk-to-rack sorting goes one step further in the direction of full laboratory automation, therefore being particularly suited for highly automated laboratories with a high sample-throughput. Thanks to an intelligent software control and a buffer inside every rack target module, it operates highly efficient achieving a throughput of 500-700 tubes/h per rack target module.

2 Options Available

A. The tubes are sorted into one rack per rack target module - Ideal for a high throughput

B. The tubes are sorted into 3 different racks per rack target module - Ideal for detailed sub-sorting

- Arbitrary combination of rack and bulk target modules
- Intelligent software control for efficient processing
- Throughput: 500-700 tubes/hour per rack target module
 - Throughput depending on rack type
- Plausibility control
- Works with or without LIS-connection

The modular design allows for any combination of bulk and rack target modules.



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

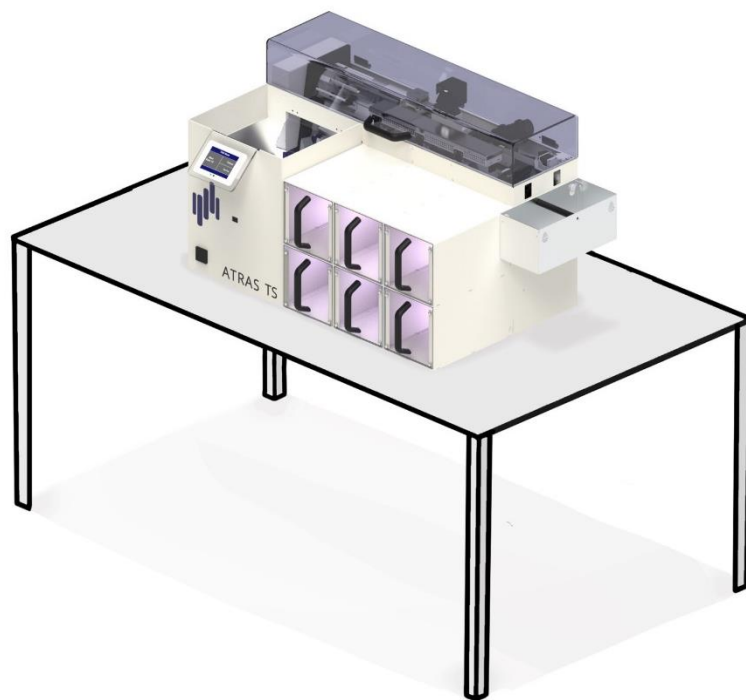
a division of

**platinum
code**

Automated

Bench-Top Device for Registration and Sorting

Our benchtop unit is a small and compact benchtop version providing the same functionality at lower investment costs. Due to its small size, the device is the perfect automation solution for smaller laboratories with low to medium throughput requirements. It can be used for recursive sorting to further optimize sample workflow in the laboratory.



- Compact design, small footprint
- Throughput: up to 1200 tubes/hour
- Intuitive and simple handling
- All common sample tubes
- Bulk input capacity: 400 tubes



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

a division of

**platinum
code**

Bulk-to-Bulk and Rack-to-Rack Devices

Technical Specifications

Construction

Dimensions (W x H x D)	1100-1500 (3-5 modules) x 1140 x 600 mm
User interface	Touchscreen, colored
Barcodes	All common 1D-barcode types
Cap-color detection	Cap-color identification via spectrometer (CapID)
Sorting modes	Stand-alone or via LIS communication
Sorting basis	Barcode, cap color, tube dimension
Target bins	10 + 1 target bins, expandable indefinitely by extension modules
Capacity	Input module: app, 400 tubes, target bins: 100-120 tubes
Throughput	1200 tubes/h under normal conditions
Weight	App. 50 kg. / 110 lbs.
BTU (maximum version)	Approx. 392 BTU

Electrical/Connections

Supply voltage	AC 100-240 V / 50-60 Hz
Consumption	App. 200 VA
LIS consumption	Ethernet, RJ45
PC connection	Ethernet, RJ45

Rack Target Module

Consumption	Additionally 50 VA per rack module
Throughput	App. 500 tubes/h per rack target module with alignment of the barcode App. 600 tubes/h per rack target module without alignment of the barcode
Features	Barcode alignment
BTU (additionally)	Approx. 239 BTU



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

a division of
**platinum
code**

Bench-Top Device

Technical Specifications

Construction

Dimensions (W x H x D)	820 x 500 x 500 mm
User interface	Touchscreen, colored
Barcodes	All common 1D-barcode types
Cap-color detection	Cap-color identification via spectrometer
Sorting modes	Stand-alone or via LIS communication
Sorting basis	Barcode, cap color
Target bins	Cap-color identification via spectrometer
Capacity	Input module: app, 400 tubes, target bins: 100-120 tubes
Throughput	1200 tubes/h under normal conditions
Weight	App. 50 kg. / 110 lbs.
BTU (maximum version)	Approx. 392 BTU

Electrical/Connections

Supply voltage	AC 100-240 V / 50-60 Hz
Consumption	App. 200 VA
LIS consumption	Ethernet, RJ45
PC connection	Ethernet, RJ45



952.529.9200



www.kairosid.com



info@kairosid.com

8095 215th Street West, Lakeville, Minnesota

a division of
**platinum
code**