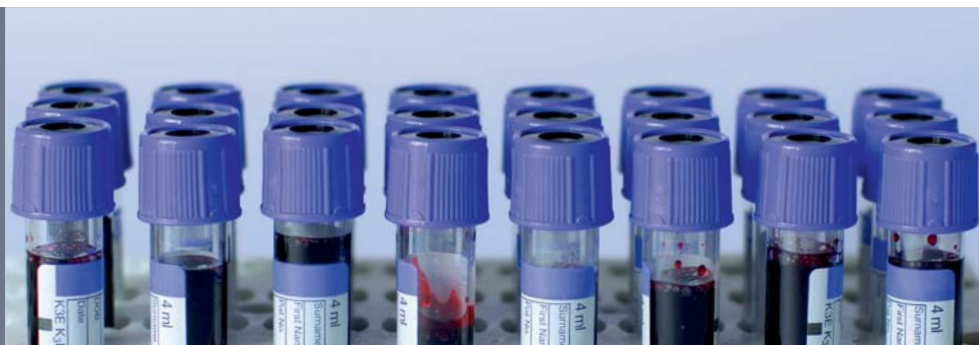




Highspeed Closed Tube Sorter
HCTS2000 MK3

Laboratory logistics precisely engineered

HCTS2000 MK3



Efficient laboratory logistics

The HCTS2000 MK3 (Highspeed Closed Tube Sorter) is a machine for sorting loose primary sample tubes and placing them directly into racks. It was specifically designed to organize the work flow in clinical laboratories efficiently, particularly in the pre-analytical phase in Hematology and in the entrance area.



- Loose, bulk tubes placed in racks
- Fast processing and sorting
- Adaptable to various types of racks

The HCTS2000 MK3 can process and sort all types of primary tubes. Any cylindrical tube with a length of 76 – 120 mm and a diameter of 8 – 19 mm, from any of the major tube manufacturers such as GBO, Sarstedt, BD, and Terumo to name a few, are easily handled by the machine. It doesn't matter if the tubes are for use in Clinical Chemistry, Hematology, or Coagulation, the HCTS2000 MK3 can process them all.

Installing an HCTS2000 MK3 in the laboratory eliminates most of the manual tube handling, thus dramatically improving workflow. Processing up to 800 tubes per hour, the HCTS2000 MK3 is the perfect complement for the analytical instruments in the lab; reliably supplying them with perfectly filled racks without tying up highly qualified personnel.

In addition, the HCTS2000 MK3 is much faster and has fewer errors than sorting by hand. The HCTS2000 MK3 easily overcomes every bottleneck during the peak hours in the pre-analytical phase of Hematology and the accession area of the lab.

Loose, bulk tubes placed directly into racks

With the HCTS2000 MK3, it is possible to sort loose tubes directly into racks. Just place any mix of primary tubes, as long as they are within the allowed dimensions, into the funnel shaped entrance area. The machine then takes over reading the tube barcode, registering the tube (depending on LIS options) and sorting the tube to the proper rack or target bin. At the end of the sorting process, a special gripper places the tubes upright into the waiting racks.

In its standard version the device can process two-dimensional LabCell racks. Other rack types, which can be one- or two-dimensional, are handled by individual rack adapters in the output rack channel of the HCTS2000 MK3.

Fast processing and sorting

The HCTS2000 MK3 can process up to 800 tubes per hour, easily handling the bottlenecks that occur during the peak hours in the lab. It can read barcodes with up to 30 characters. Using various sorting rules, the tubes are quickly read, identified, and sorted either into the rack channel or into one of its five sorting bins.

Sorting rules can be developed by the user and stored in the HCTS2000 MK3 or queried from the LIS. The HCTS2000 MK3 can store up to 10 different sorting rules so it can quickly and easily be adapted by the user to all the various workloads in the lab.

Just select the appropriate sorting rules by the integrated touch panel.

Processing with different types of racks

To process different rack types a number of required racks are placed on the individual rack adapters. These rack adapters are fed into the rack channel. Its capacity depends on the requested rack type, which should be arranged on the rack adapters.

If LabCell racks should be processed, they can be fed directly into the existing output channel without additional rack adapters.



LabCell Rack



Rackmount with Streamlab Rack

Part numbers	
30-107115	HCTS2000 MK3

If you have any questions regarding the configuration possibilities of the rack types, please contact your m-u-t partner.

More information about optional equipment possibilities can be found in the Datasheet [HCTS2000 Accessories](#).



HCTS2000 MK3

Technical specifications

Sorting

Sorting speed	650 - 800 tubes per hour
Sorting criteria	Linear barcodes with up to 30 characters UPS/EAN, Code 39, Interleave 2 of 5, Code 128, Codabar, EAN 128, EAN Abendum, Pharma Code, PDF417 Query to LIS, up to 25 order requests 2D-Data-Matrix-Code (optional) Cap color (optional)
Sorting rules	10 Sorting rules, freely editable and stored in memory

Tube-handling

Primary tubes	Cylindrical from all manufacturers, 76 – 120 mm in length, 8 – 19 mm diameter
Tube entrance area	Funnel shaped container for up to 550 tubes
Tube exit area tubes	Up to 30 racks 5 target bins, each having 200 tube capacity
Rack structure	1 output channel for LabCell racks, Alternative on individual rack adapter for e.g. Advia, Streamlab, Sysmex, Hitachi

General

Operations	Built-in processor with touch screen panel Sorting rules edited using PC word processor LIS-connection, ASCII-Protocol
Connections	Power: 110 – 230 Vac, 50 – 60 Hz Standard serial communication; 9600 Baud d-sub 9 connector, RJ45 (optinal)
Dimensions	1,930 x 1,540 x 2,210 mm (76 x 61 x 87 in) (w x h x d)
Weight	ca. 250 kg (550 lb)



m-u-t AG
Am Marienhof 2
D-22880 Wedel, Germany

fon: +49 (0) 4103 - 9308 - 0
fax: +49 (0) 4103 - 9308 - 99
info@mut-group.com