



HCTS2000 Accessories

Laboratory logistics precisely engineered

HCTS2000 Accessories



Numerous options are available to increase the flexibility of the HCTS2000 family, allowing the sorters to be optimized to your daily workflow.

Signal light

The signal light is mounted on the protective hood of the HCTS2000 MK3. Its bright red light indicates the end of the sorting process or an unexpected stoppage. If required, the HCTS2000 MK2 can be equipped with the signal light as well.



Barcode scanner

The standard 1-D barcode scanner is compatible with most conventional barcodes. However, for situations where large quantities of data are stored in the barcode, a high density or 2-D barcode scanner can be installed. Due to technical prerequisites, scanning time increases slightly when these scanners are used. The performance of the HCTS2000 MK3 is not affected, while the HCTS2000 MK2 operates at well over 1,200 tubes per hour.

For more information, please contact your sales representative.

Cap colour option

The cap color option allows the HCTS2000 MK2 to use the cap color of the sample tube as an additional sorting criterion and to perform a plausibility check by comparing a bar coded material with the cap color. The system can distinguish between up to 20 monochrome colored caps. In addition, the system provides tube type detection by scanning the geometry of the tube. This ensures a secure differentiation of the individual tubes, even when using complex sample tube spectra. Depending on the complexity of the tube spectra and the communication options on the LIS, a HCTS2000 MK2 equipped with the cap color option is able to process up to 1500 tubes per hour.

If a new HCTS2000 is ordered with the cap color option, it is calibrated at the factory prior to shipment. The customer must supply m-u-t with a complete spectrum of tubes for proper calibration. If the cap color option is installed on-site, the calibration will be performed by m-u-t service personnel.

Target drawers

The standard target bins can be replaced by integrated target drawers, providing further optimized handling modalities.

The drawers collect the sorted tubes and store these within the sorter. The contents of the drawers are clearly visible from outside. The easy-to-use construction allows comfortable removal of the sorted tubes. Safety sensors stop the sorter if a target drawer is removed or filled completely. Each target drawer provides a capacity for approx. 200 sample tubes (depending on the tube size).



Extension Module

The HCTS2000 Extension Module expands the main unit with additional target bins. As a result, the Extension Module provides greater precision in primary sample sorting and further enhances efficiency.



- Further precision in each usage cycle
- Simple operation

More precise sorting per working cycle

Many laboratories need to sort samples into more than 7 or 5 groups. Every Extension Module expands the number of target bins by an additional 5 targets. Up to 3 modules can be connected to the main unit, expanding the number of target bins to 12, 17 and 22 (or with the HCTS2000 MK3 to 10, 15 and 20).

Therefore the HCTS2000 can address the individual needs of your laboratory for optimum primary sorting precision.

Easy handling conditions

The HCTS2000 automatically detects Extension Modules once they are plugged in, without any influence on system performance – the overall sorting rate remains the same. The new target bins can be used immediately with the fully-customizable sorting rules in the main unit firmware. When the HCTS2000 is connected to a LIS, the additional sorting options are also available immediately. The additional target bins are handled like the main unit, and Extension Modules can also be equipped with the removable target drawers.

Installation with the HCTS2000

The Extension Module is connected directly to the main unit on the left side. The transfer of the sample tubes from the main unit to the Extension Module is fully synchronized by the control unit of the sorter, using a fiber optic connection attached to the main board. To connect one or more Extension Modules to a HCTS2000 MK2, only one connection kit has to be installed.

Technical specifications	
HCTS2000 EXT	Extension Module for HCTS2000
Compatibility	HCTS2000 MK2, HCTS2000 MK3
Speed	800 – 2,000 sample tubes per hour, depending on main unit
Samples	Cylindrical, from all manufacturers Length: 76mm – 120mm Diameter: 8mm – 19mm
Target Bins	5 target bins 5 x 200 tube capacity
Expandability	Up to 3 Extension Modules per main unit
Control	Via HCTS2000 main unit, (requires 1pc. connection kit 30-106907)
Connection	Power supply 110 - 230V, 50 - 60Hz
Measurements	865mm x 1,060mm x 820mm (wxhxd)
Weight	25kg

Error bin

Tubes with unreadable or unrecognized barcodes (e.g. because of damaged labels), are sent to the error bin for further processing. The Sorter comes standard with one error bin. Additional error bins are often convenient to have on hand and can be ordered separately with your HCTS2000MK2.

Technical specifications

Dimensions	220mm x 250mm x 360mm (wxhxd)
Capacity	approx. 200 samples (size depending)

External target bin

External target bins for larger tube volumes can be mounted on the outside of the machine, just below the target bin sliders. A special clamp is used to hold the external target bin in place. Using the external bins, the tubes can be removed using one hand. Operations are continuous, increasing throughput and decreasing TAT.

Technical specifications

Dimensions	150mm x 245mm x 125mm (wxhxd)
Capacity	approx. 150 samples (size depending)

Part numbers

30-107432	Signal Light
30-106039	Interface Adapter
32-100078	1D-Barcode-Scanner HD
21-117255	2D-Barcode-Scanner
30-107260	Cap Color Detector
30-107194	Target Drawer Attachment with 7 target drawers for HCTS2000 MK2
30-107195	Target Drawer Attachment with 5 target drawers for Extension Module
30-107732	Single Target Drawer
30-104933	Extension Module
30-106907	HCTS2000 Extension Module Connection Kit
21-114832	Error Bin
30-107192	External Target Bin



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