

# Smart

X-TubeProcessor\_Smart® – All in one – compact performance

HTI offers flexible solutions for automated tube and liquid handling that are optimized for a variety of laboratory and production processes.

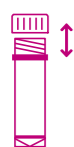
# TubeProcessor®\_Smart

All in one – compact performance

The X-TubeProcessor®\_Smart is a modular benchtop product ideal for capping and decapping, labelling and dispensing of tubes. Boost your lab's productivity by switching from ergonomically straining and monotonous manual work to fully automated processing of your tubes. The Smart is flexible, adjusts to your changing needs and growth, and is your reliable partner for success.

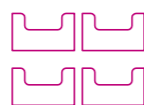
X-TubeProcessor®\_Smart can perform single or multiple automation processes, depending on the requirements of the laboratory. With the modular design, the automation modules can be added later to the device with very little downtime.

## Configuration of the function modules



### Capping/Decapping

Our X-TubeProcessor®\_Smart automates the capping and decapping of tubes. The Smart is designed for processing 0.5 – 2.0 mL Sarstedt tubes. The caps are loaded in bulk, with a capacity to hold 600 caps.



### Storage

Depending on the modules and configuration, the X-TubeProcessor®\_Smart enables small and medium throughput. The system is capable of processing tubes in 1 or 2 racks with 96 tubes or up to 6 SBS racks with 48 tubes each. With an optional rack adapter, customers can process tubes in their own racks.



### Labelling

The X-TubeProcessor®\_Smart is expandable with a labelling module. The labels can be printed with identical or unique information. The content can be entered in via the touch screen control panel or by a database connection.



### Dispensing

The X-TubeProcessor®\_Smart is expandable with a fast and reliable liquid dispensing module. Tubes are filled sequentially with reagents. Dispensing is performed with a peristaltic pump, and typical volumes range between 25 µl to 2 mL per tube. An optional ultrasonic flow sensor can be included for in-process dispense verification.



### Barcode Identification

Reliable traceability in the working process is possible with our products. Barcodes on tubes and racks can be read and processed according to requirements.



### User Interface & Database Connection

A touch display delivers seamless interaction with the device through a user-friendly GUI. The powerful control unit allows for configuration of automation depending on the process requirements. With the ability to access the system within the LAN, X-TubeProcessor®\_Smart can be easily integrated within the current laboratory and industry workflows.

## Technical data (typical configuration)

Throughput:	up to 500 tubes / hour
Tube types:	0.5 mL, 1.5 mL and 2.0 mL Sarstedt tubes or similar
Dimensions:	93 x 70 x 80 cm with labeller module 80 x 70 x 80 cm without labeller module
Weight:	Approx. 85 kg with labeller module Approx. 72 kg without labeller module
Electrical supply:	115 - 230 V 50-60Hz
Pneumatic supply:	6-8 bar, Dry air; 500 L/min
Connections:	Electrical Inlet; Pneumatic Inlet; USB Connection; Ethernet Connection
User Interface:	HTI GUI on a Touch Display

## Process time for 96 Tubes

11

Labelling ca. 11 minutes

19

Capping ca. 19 minutes

22

Filling and Capping: ca. 22 minutes

29

Filling, Capping and Labelling: ca. 29 minutes

## Highlights

- Capping / decapping with automatic cap feeding
- Dispensing with peristaltic pump
- Labelling (individual or bulk)
- Up to 6 SBS racks with 48 tubes capacity each
- Barcode reading
- Cap color sensor
- In-process control
- Database connection

## Service and Support

### Act rather than react

Our aim is permanent availability of your equipment during operations. Regular on-site and remote maintenance prevents uncontrolled downtimes. On request, we thoroughly check our own and third-party components and products. Experienced service technicians with standardised tools are available when you need them. We are happy to create individual service packages for you.

### Your Benefits

- Short reaction times
- Permanent availability as target
- Regular, predictable maintenance intervals
- Original spare parts
- Long term availability of spare parts
- Full cost control
- Individual service packages

# One step ahead

Always there for you

Your relationship to HTI does not end with the purchase of a system - we are your reliable partner and support you in your workflow and over the entire service life of your product. We offer technological advice and service so that you can always achieve top performance. Our customer service team is happy to take up your concerns and process them promptly. If an incident occurs, we make a point in offering you competent, fast and straightforward assistance.

## Contact

You can reach our experts at any time via the following contact options:

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