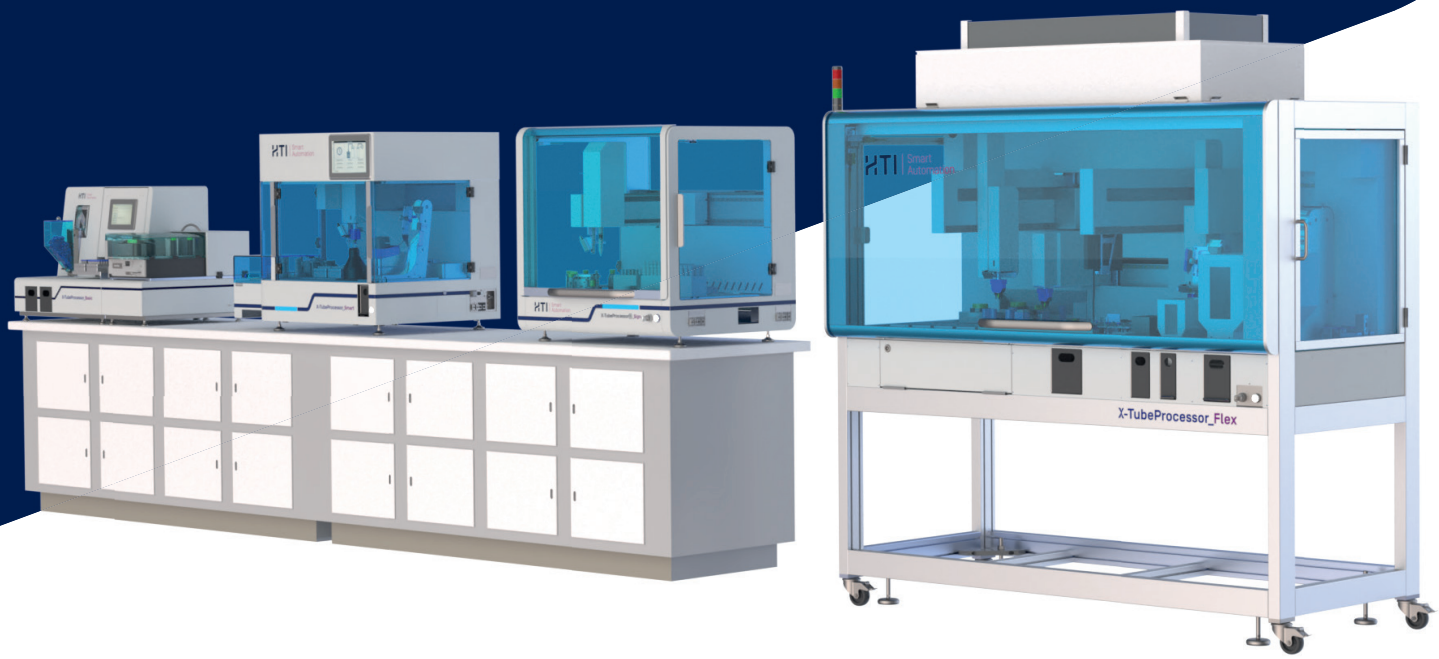
HTI | Smart Automation



Your partner for laboratory automation

20 Years HTI
Excellence in automation.

Engineering services for your custom automation solutions & tube and liquid handling devices

About us

For more than 20 years we have regularly reinvented ourselves - always in the service of our customers. With our engineering services and automation products we are your reliable partner for your success.

HTI | Smart Automation

Engineering Services

HTI Engineering GmbH

X-TubeProcessor® Series

HTI Automation GmbH



Your independent partner for project engineering and laboratory automation

Our high-quality standards, flexible solution competence and expertise make us the preferred partner for companies all around the world. The specific challenges of our customers in the context of laboratory and production automation are our motivation.

Together with you, we exploit the possibilities of modern technology, automate your processes through innovative solutions and thereby maximize your process quality and the efficiency of your products. We support you with enthusiasm and strive to make your company ever more efficient. We care for you personally and professionally in every project phase and over the entire service life of our systems. With the engineering competence of HTI you are equipped for the world of tomorrow.

Selected clients we worked with

EADS · SIGMA · eurofins | Genomics · DIAGAST · MAX PLANCK INSTITUTE OF COLLOIDS AND INTERFACES · TECAN

Lab engineering

Pages 4 – 9 →

Engineering services
Individual solutions
Series products



From prototyping to serial production of OEM solutions and the development of complex modules:

We offer application-oriented full-service engineering. For more than 20 years we have been working together with many well-known companies in various industries, repeatedly demonstrating our broad solution competence. With this expertise and our passion for technology we will develop a convincing solution for your challenge.

DIN ISO 9001
Quality management according to DIN norms

+ 1100 devices and equipment developed and produced

+20 years experience in laboratory automation

Laboratory automation, device development and device manufacturing

Let‘s start your automation project:

+49 (0) 8092 2092-70
sales@hti-automation.com



Our range of engineering services



Advisory –
Understanding your needs

Process analysis

Technology assessment

Definition of specifications and requirements

Gap identification

Strategy recommendation

Independent access to numerous OEM-suppliers

Development –
From concept to proof of concept

Concept realization

Fast iterations and short decision-making

Regular reviews

Smart feasibility tests

Close and direct contact

Prototyping -
Single customized unit

German engineering

Inhouse software design

Local and flexible supply chain

Flexible and quick

Hardware acceptance test

Reliable maintenance options

Serial production -
Lifecycle partnering

OEM modules and products

Lean production

Small to large batches

Reliable partner

Modular branding options

Product and service training

Portfolio and innovation management

After sales service –
Always there for you

Various service options

Full Training and service

Direct and specialized contact

Modifications, updates and upgrades

Software support

Accessories and consumables

We deliver engineering from prototyping to serial production and after-sales service

Examples of engineering projects

We provide fully automated and highly integrated solutions that allow users to quickly conduct a large number of tests which result in a specific analytical output. Our custom-made solutions include smart robotics, various functional modules such as liquid handling, data processing and control software.

Synthesis automation



Synthesis solutions

We provide rapid access to custom-made oligonucleotides of the desired sequence and glycosynthesis through our engineering solutions. Filters, filling tools and columns for oligosynthesis are available, too.

Key features

Customized solutions
Temperature-controlled
Smart cleavage systems
Complex fluid control
Fluid contacts PTFE only

Washing solution



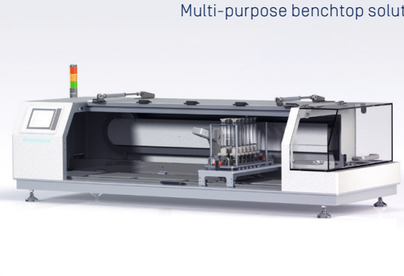
Washing solutions

To meet the requirements for laboratory applications, we match washing needs with custom-made solutions. HTI laboratory washers are compact and sturdy, and they run with high accuracy and with low wear. Our solutions are available in different sizes and forms to adapt to the unique properties of laboratory devices.

Key features

Magnetic beads modules
Plate washing
Dispensing in up to 1536 Well MTP
Contact free
Modular system
Robot integration possible

Multi-purpose benchtop solution



Multipurpose platforms

Multi-purpose platforms are in high demand across industries and applications as they combine several instruments in one system and therewith significantly shorten process time. In the past we have built various multi-purpose platforms, e.g. instruments for blood group determination and solutions for ion channel analysis. Building on that vast portfolio of knowhow from reference projects, we are convinced to find suitable solutions for your challenges.

Key features

Quickly analyze samples
Quality control
Open platform
Sample preparation
Liquid handling

More reference projects on our webseite

Tube and liquid handling devices

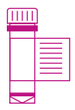
Pages 10 – 17 →

We offer flexible solutions for fully automated tube and liquid handling optimized for a wide variety of laboratory and production processes that are tailored to your needs. Our solutions help to boost your productivity, efficiency and quality.

Key features of our X-TubeProcessor® devices



Capping and uncapping



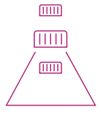
Labeling



Dispensing



Pipetting



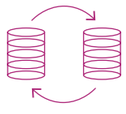
Cap feeder



Cooling of liquids



Sterile working



Data-management



Our comprehensive know-how in tube and liquid handling is reflected in our HTI X-TubeProcessor®_Series. Established technologies, such as liquid handling, are combined and automated with other individual processes in a coherent overall concept.

Our solutions for tube and liquid handling range from small to high throughput, from labelling to liquid dispensing, and solutions for working under sterile and temperature-controlled conditions.

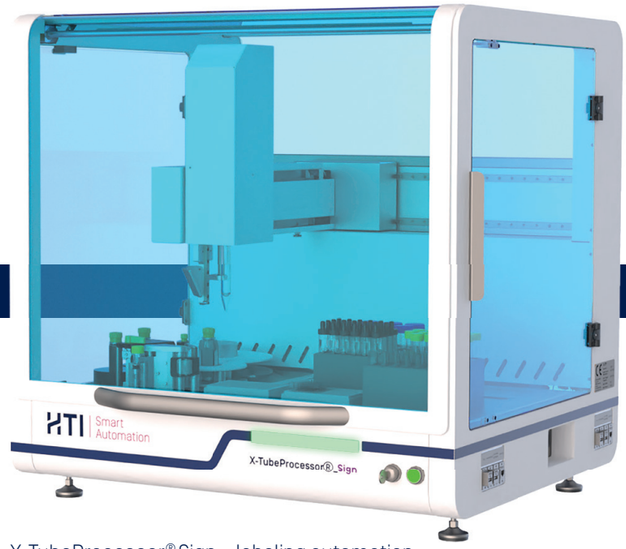
Depending on the device, our systems handle several processes in parallel and can thus not only free up valuable resources but also significantly increase throughput. HTI solutions work economically, with high accuracy and low-wear, are easily accessible and very user-friendly.

Learn how our X-TubeProcessor®_Series might fit your needs and visit our product page: hti-automation.com/en/products

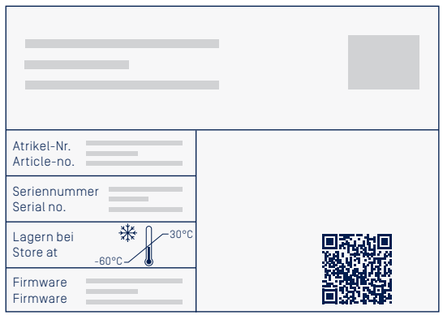
User-friendly software in all our devices.

Simple and efficient: The Sign Tube labeler software represents the outstanding user-friendliness of our entire range of devices.

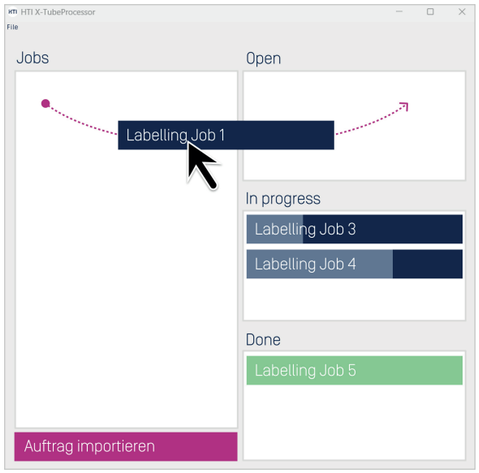
X-TubeProcessor®_Series



X-TubeProcessor®_Sign – labeling automation

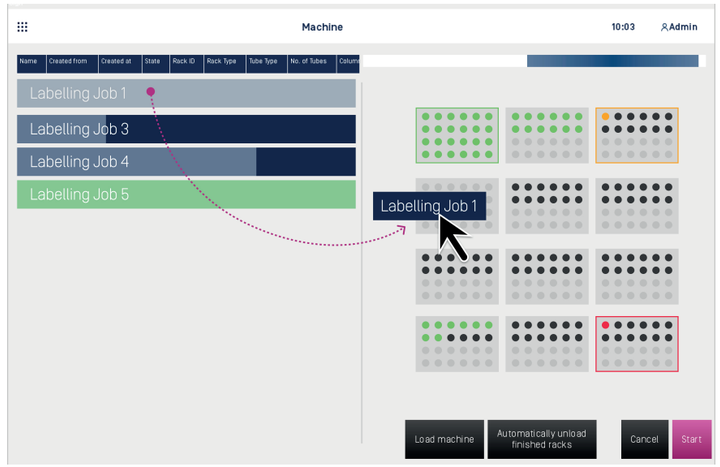


Layout



From the workplaces

Job is sent to device



At the sign device

1. Design a label

Start with the design of your labels, be it according to regulatory requirements or your individual wishes. Create your labels with the software of your choice, including cablabel, BarTender, NiceLabel and more.

2. Create jobs and send them to Sign

Create jobs from your imported tube data and send them to the Sign. Jobs can be sent to the Sign directly via Ethernet or managed and integrated via your LIMS.

3. Assign jobs to the racks and start them

Assign the jobs via drag and drop function to the desired racks or use the automatic positioning function.
Then start the labeling process, which you can monitor at any time via the color display for each tube.

Key features of the sign software

Simple troubleshooting
Instead of cryptic error codes, the user is informed in clear sentences about possible errors on the device. This simplifies operation and minimizes the training effort.

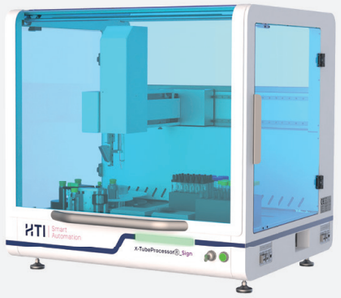
Custom barcodes
With Sign, you can write your own barcodes on each tube, giving you full control over the labeling process.
Each tube can be labeled individually.

Easy integration
The software is compatible with various data formats such as Excel and CSV. The Sign can also be integrated directly into your LIMS and thus the jobs can be managed and controlled directly from your laboratory information system.

User management
Our software provides efficient user management with role assignment and activity logging function to ensure security and control over access and actions performed.

Overview of the X-TubeProcessor®_Series

Our powerful and sustainable solutions for your laboratory processes.
The right device for every need.



See the Sign in action

X-TubeProcessor®_Sign

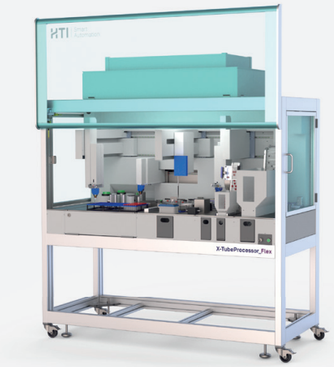
Labeling tubes and vials has never been so easy and flexible

Thanks to its design, the Sign enables labelling for a wide range of laboratory tube types - all in a single device.

Use our software and interfaces to easily and flexibly create the right labelling
easily and flexibly create the right labelling layout for every sample.

Thanks to its labelling module for precise label application and the flexible 4-jaw gripper, the Sign can process a wide range of tube types, sizes and brands. This means that a different type of tube can be used in each of the 12 racks.

Key functions
Labelling
Datamanagement



See the Flex in action

X-TubeProcessor®_Flex

The flexible all-rounder for your laboratory automation

With its standardized, freely customizable modules, the X-TubeProcessor®Flex enables you to easily automate your individual processes for handling micro screw tubes.

Extended walkaway time thanks to processing of nine SBS racks or output of the processed products as bulk material and sending of error messages by e-mail.

High throughput despite compact size.

Key functions
Tube & cap handling
Label & marking
Dispensing & pipetting (ADP)
Identification
Sterile applications



See the Basic in action

X-TubeProcessor®_Basic

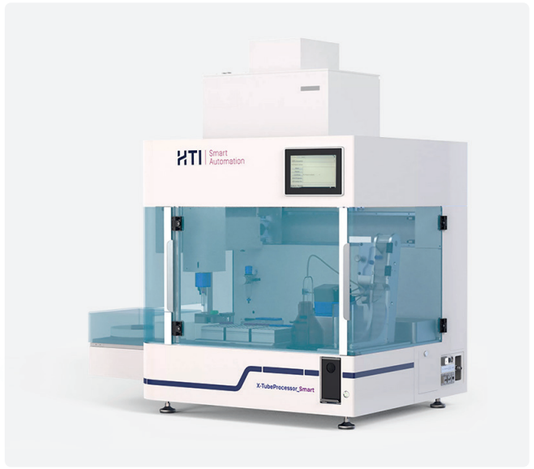
Your Tube-Processing —
Simply Automated

With the X-TubeProcessor®Basic, time-consuming manual capping and decapping of tubes in your laboratory is a thing of the past.

Expand the X-TubeProcessor®Basic with a labeling module for application of your labels. User-friendly software is available for designing the label layout.

One rack with 96 tubes or alternatively 2 SBS racks with 48 tubes each can be processed as standard. To further increase your walkaway time, the device can be expanded with a band module. Thus, up to 6 racks can be processed without reloading.

Key functions
Tube & cap handling
Labeling & marking
Sort & store



See the Smart in action

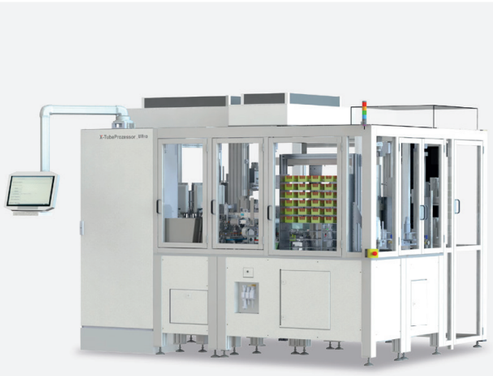
X-TubeProcessor®_Smart

Laboratory automation in a minimum of space

Whether you need to label tubes for safe processing, remove tube caps for a subsequent step, or need a device to fill reagents in kit production, we have a smart Workbench solution.

Place up to six racks of micro-screw tubes, press „Start“, and is done: Processing tubes with the XTubeProcessor®_Smart is that simple. Despite its compact size, the device is a full-blown automation solution that can be flexibly adapted to a wide range of processes and production quantities.

Key functions
Tube & cap handling
Label & marking
Dispensing (Peristaltic pump)
Sterile applications



See the Ultra in action

X-TubeProcessor®_Ultra

When standard modules are no longer sufficient, we rely on the ultra solution

Pipetting, dispensing, labeling of tubes, labeling of screw caps, screwing, opening, IPC, sorting, storing and much more. and preferably at the same time.

Our X-TubeProcessor®_Ultra supports your flexible process with the processing of up to 1,000 tubes per hour. Different modules can be used to handle up to 10 processes in parallel. HTI's Ultra systems are characterized by universal application possibilities, high accuracy and compact design.

Key functions
Tube & cap handling
Label & marking
Dispensing
Identification
Sterile applications
Sorting & Storage

What our customers say about our products.

»We are committed to excellence in everything we do. Our goal is to be best in class and deliver superior products. Finding a partner like HTI who shares this vision is crucial.«



Torun Ekblad, PHD
Chief Operating Officer,
Mabtech

»We needed equipment that could be easily integrated into our routine production schedule. HTI was able to deliver an automation solution that fit our processes and took up as little space as possible.«



Brett Clark,
Production Manager,
Genetic Signatures

»The most important criterion for our business lies in the quality and reproducibility in the manufacture of our products. We were looking for a compact device, an all-in-one solution that would perform the filling of our wash buffers reliably and in the perfect walk-away time for us – and we found it in the SMART.«



Dr. Martin Käsemann,
COO,
PreOmics

Read whole case-studies:
www.hti-automation.com

Service at HTI

To avoid operational downtime, we proactively maintain our devices on a regular basis both on-site and via remote maintenance. Moreover, in our training courses you will gain all the knowledge you need for a proper use of your device. These and other services can be part of your individual service contract.

Your Benefits

- Service-Level Agreements
- Installation at a fixed price
- On-site maintenance and service
- International service-network

DIN EN ISO 9001

Our DIN EN ISO 9001 certified quality management ensures the highest process forms of cooperation, planning and legal security. Regular audits form the basis for continuous improvement and for delivering the highest quality at all times.



Book your live-demo

Ask all your questions and see the X-TubeProcessor® devices in action

We would be happy to discuss your application and automation needs with you:

Phone: +49 8092 2092-70
E-mail: sales@hti-automation.com

HTI | Smart Automation

HTI Automation GmbH
HTI Engineering GmbH

Am Forst 6
85560 Ebersberg, Deutschland
www.hti-automation.com

Tel.: +49 (0) 80 92 20 92-0
Fax: +49 (0) 80 92 20 92-28

info@hti-automation.com
www.hti-automation.com

Ausgewählte Kunden

MABTECH · SIGMA GERMANY · eurofins | Genomics · DIAGAST · MAX PLANCK INSTITUTE OF COLLOIDS AND INTERFACES · TECAN

Fragen zu unseren Produkten und Dienstleistungen:

+49 (0) 8092 2092-70
sales@hti-automation.com

Service- und Supportanfragen:

+49 (0) 8092 2092-60
support@hti-automation.com

Imprint:
HTI Automation GmbH
Am Forst 6
85560 Ebersberg, Germany

Vertretungsberechtigte Geschäftsführer:
Dr. Thomas Krüger
Dr. Wolfgang Heimberg

Design: noahkoesel.de