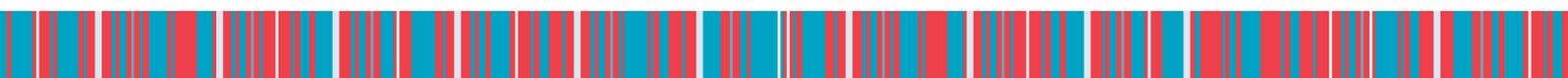




FlexPath™

Automating Anatomical Pathology Labs



FlexPath™

Inpeco FlexPath™ is a suite of automation products that ensures full traceability in Anatomical Pathology, based on 4 pillars:

- **Data collection and traceability**
- **Uncompromised instrument integration**
- **Automation of non-technical tasks**
- **End-to-end management through process automation**

Embedding

FlexPath™ Blox

FlexPath™ Blox is an advanced embedding module that automates all non-technical tasks required during the traditional manual embedding process, allowing the operator to focus on tissue orientation.

Storage

FlexPath™ Store

FlexPath™ Store is an automated archive for FFPE tissue blocks, connected to embedding, microtomy, and other archiving areas via the FlexPath™ Move pneumatic transport system.



Inpeco's FlexPath™ suite supports operators by eliminating potential human errors (e.g. one-by-one cassette management during embedding) and handling non-technical tasks, thereby saving the operator time. It also reduces the labor stress for lab technicians and ensures the chain of custody for samples during non-technical activities, covering the paraffin block cycle end-to-end to achieve process automation goals, resulting in higher-quality output of the diagnostic path.



Transportation

FlexPath™ Move

FlexPath™ Move is a fully automated system, designed to manage the transport of paraffin blocks between embedding, microtomy, and archiving.

Microtomy

The automated delivery of blocks to specific microtomy workstations through specially designed modules allows microtomists to focus solely on cutting, without spending time and attention on block selection or transportation.



Explore the
FlexPath™ solution!

FlexPath™ Trace

Operator-guiding Traceability Solution for Anatomical Pathology



watch the video

FlexPath™ Trace is a unique and innovative solution that tracks the histological sample from the collection point all the way through to diagnosis and archiving.

FlexPath™ Trace is an operator-guiding traceability solution that ensures full chain of custody, from sample collection all the way to the final diagnostics and histological specimen archive*. By guiding the operator through every step of the process until histological diagnosis, FlexPath™ Trace ensures individual sample management and standardized procedures. It offers quick and smooth integration of all devices available in the lab. Moreover, FlexPath™ Trace is fully integrable and scalable to different HIS and AP LIS.

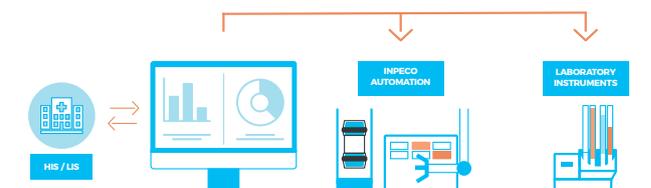
Benefits

- > Patient/Specimen verification
- > Full sample traceability
- > Data collection
- > Operator guidance

Why FlexPath™ Trace?

The data collected by FlexPath™ Trace offer the possibility to refine processing protocols, advanced staining and molecular testing, based on pre-analytical parameters. No more doubts during the pre-analytical phase: all sample information is collected in a few steps, from sample types to fixation conditions, such as time and temperature.

A data bridge between collection point and the laboratory



*Please check the availability of individual phases with Inpeco.

FlexPath™ Blox

Automated Tissue Embedding Module for Anatomical Pathology



The FlexPath™ Blox embedding module automates all steps of the delicate wax embedding phase of histological samples, allowing the operator to fully concentrate on orienting the tissue.

FlexPath™ Blox brings the embedding phase to the next level. While ensuring individual sample management with complete traceability, it maintains paraffin in granules, thus preventing denaturation and yellowing, and features a cold plate that avoids block cracks related to thermal shock. Furthermore, FlexPath™ Blox provides automated blocks detachment, case sorting, as well as automated and standardized wax dispensing, which reduces waste resulting from mold overfilling and manual handling.

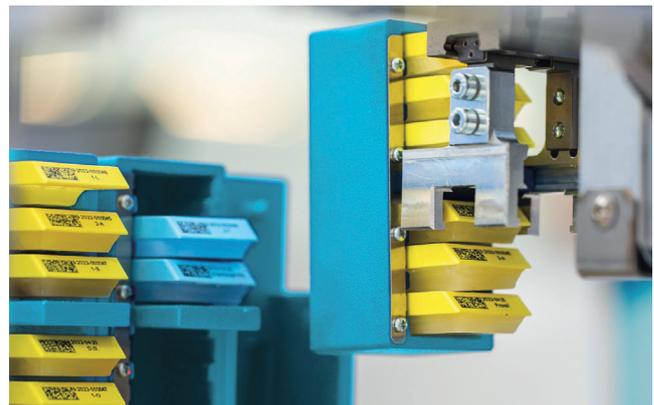
Benefits

- > Operator can fully concentrate on tissue orientation
- > Reduced waste
- > Possibility to work with the most common standard bio-cassette and histology-grade wax on the market*
- > Three slots to receive the most common tissue processor baskets
- > Automated molds reloading
- > Production of blocks with pre-cleaned margins
- > Productivity up to 120 blocks/hour

Why FlexPath™ Blox?

FlexPath™ Blox is Inpeco's automation-assisted embedding module that automates all manual (non-technical) steps of the delicate wax embedding phase of histological samples, allowing the operator to fully concentrate on tissue orientation.

This tissue embedding module ensures complete traceability and unique sample management, thanks to the integration to FlexPath™ Trace, Inpeco's traceability software. It manages samples individually and provides crucial information required to complete the embedding step, such as the characteristics of the sample contained in the cassette.



*validation required

FlexPath™ Move

Automated sample transport management system



watch the video

FlexPath™ Move manages the transport of FFPE blocks from embedding to microtomy and final archiving.

FlexPath™ Move automates the transport of blocks to microtomy and storage after the embedding phase, and ensures blocks retrieval from the storage. FlexPath™ Move deliveries are defined depending on the tissue type, on the lab technician's experience or on case priority. As a tailor-made solution, FlexPath™ Move offers uncompromized customization based on laboratory needs.

Benefits

- > Blocks distributed in small batches for continuous and easily manageable workload
- > Customizable to any lab layout
- > Customized and patented carrier system
- > Automatic loading and unloading doors opening
- > High speed deliveries up to 2 m/s

Why FlexPath™ Move?

To automate histological sample management and distribution, Inpeco has developed FlexPath™ Move which consists of automatic loading/unloading stations connected by pneumatic conveyor tubes.

FlexPath™ Move automatically manages the transport of paraffin blocks to microtomy and storage after the embedding phase and ensures block retrieval from the storage, when needed. Its deliveries are defined depending on tissue type, lab technician's experience, or case priority.

As a tailor-made solution, FlexPath™ Move offers uncompromised customisation based on laboratory needs.



FlexPath™ Store

Automated archive for FFPE tissue blocks



FlexPath™ Store is a robotic sample archive that offers uncompromised traceability and significant time savings to any laboratory. Connected with FlexPath™ Move, it maximizes the efficiency and streamlines the paraffin block workflow.

Formalin-fixed, paraffin-embedded (FFPE) tissue is widely recognized as the benchmark for storing pathology tissue, comprising the largest repositories of patient samples. This preservation method has become standard practice for maintaining diagnostic surgical pathology specimens, forming an extensive archive of tissue samples with mid and long-term clinical follow-up data, which is invaluable for translational clinical research.

Following microtome cutting, staining, and diagnosis, there are occasions where retrieving a specific block for further investigation into particular diagnostic queries becomes imperative. Despite its seeming simplicity, the manual retrieval process consumes considerable time from personnel possessing highly specialized skills that could otherwise be allocated to more value-added activities. Consequently, it leads to unnecessary expenses and presents a significant challenge in maintaining sample traceability.



Why FlexPath™ Store?

FlexPath™ Store offers a fully automated solution for storing FFPE blocks, accommodating over 22,000 blocks in a controlled and secure environment. With FlexPath™ Store, it becomes feasible to retrieve one or more blocks directly from the storage at any given moment, either sending them through FlexPath™ Move or collecting them directly from the module's proprietary rack. Each rack is equipped with a unique QR code and an RFID tag to maintain full traceability of the blocks stored in long-term static archives. This streamlined process minimizes retrieval time while ensuring the utmost traceability, as guaranteed by the FlexPath™ ecosystem.

Benefits

- > Archiving capacity over 22,000 blocks, covering the short and/or medium term lab productivity
- > Integration with automatic transport system to receive FFPE blocks from Embedding or Microtomy
- > Organization of FFPE blocks in tracked racks (RFID and QR code), based on lab rules (eg. "sequential case number")
- > Automatic retrieval and delivery of samples to Microtomy for additional reworks

Inpeco SA

Via Torraccia 26
6883 Novazzano
Switzerland
inpeco.com



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Distributed by:

Axlab A/S

+45 35 43 18 81
axlab@axlab.dk
www.axlab.dk

Axlab

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