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# Tissue-Tek SmartConnect® Automated Transfer System

*Your helping hand in achieving  
consistent, high-quality results*



continuous innovation for pathology







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## Focus on critical cases while we handle the workflow

With an increasing rise in the number of cancer cases, we see laboratories working as hard as possible to deal with cases in a limited amount of time. With the help of SMART Automation for manual tasks, they can focus on what truly matters - obtaining accurate diagnoses.

### How the Tissue-Tek SmartConnect® operates

As part of the Sakura SMART Automation portfolio, the Tissue-Tek SmartConnect® automates the critical workflow of processing and embedding by seamlessly connecting the Tissue-Tek Xpress® x120 with the Tissue-Tek AutoTEC® a120.

From loading grossed tissue specimens to retrieving completed Paraform blocks ready for microtomy, Tissue-Tek SmartConnect takes care of each step autonomously, freeing up lab technicians time to focus on priority cases an complex tasks.

## Automated loading of the Tissue-Tek Xpress x120

After grossing, the lab technician can insert up to six magazines into the formalin-filled Tissue-Tek SmartConnect loading station so that samples do not dry out.

Once the tissue specimens are ready for processing, let the Tissue-Tek SmartConnect autonomously handle loading the magazines into the Tissue-Tek Xpress x120, freeing technicians to focus on critical tasks.

## Automated connection between Tissue-Tek Xpress x120 and Tissue-Tek AutoTEC a120

After processing, Tissue-Tek SmartConnect transfers magazines from Tissue-Tek Xpress x120 to Tissue-Tek AutoTEC a120 automatically. Let your team focus on skilled tasks without interruptions.

## Dual processing option: conventional tissue loading

Non-automated processed tissue samples can simply be loaded into the transfer station by technicians, and the Tissue-Tek SmartConnect will load the batch for embedding.

## Automated unloading of the Tissue-Tek AutoTEC a120

The Tissue-Tek SmartConnect autonomously unloads the Tissue-Tek AutoTEC a120, placing microtomy-ready blocks in the designated area for easy collection - no workflow disruptions.



## Bridge



Sakura Bridge enhances the efficiency of your lab by seamlessly integrating the Tissue-Tek AutoTEC® a120, Tissue-Tek Xpress® x120, Tissue-Tek SmartConnect® and Tissue-Tek Genie® SMART Automation solutions.

Our expert consultants work closely with your team to streamline workflows, minimise backlogs and standardise procedures.

From pre-installation planning to post-implementation support, Sakura Bridge ensures a smooth transition and long-term success.

With tailored guidance and ongoing optimisation, we help you achieve higher throughput, reduced turnaround times and a more productive laboratory - ready to meet today's demands and future challenges.



# Tissue-Tek AutoTEC<sup>®</sup> a120

Automated Embedding System



## How the Tissue-Tek SmartConnect empowers you



### Standardised, reliable results

- Standardise tissue-handling throughout processing and embedding
- Reduce variability
- Deliver consistently high-quality blocks for microtomy



### Efficient, hands-free operation

- Automate tissue transfer
- Reduce repetitive tasks
- Free up technicians' time
- Benefit from flexibility and efficiency with every run, even unattended



### Enhanced control and safety

- Seamless LIS connectivity
- Visibility of each sample throughout processing and embedding
- Single point-of-operation for technicians



### Responsive to high-priority cases

- Priority positions for promptly handling urgent cases
- Capability to maintain high efficiency, even during peak demand



Scan to see  
the Tissue-Tek in action



ROBOTIQ



Tissue-Tek SmartC  
Automated Transfer System

MANUAL MODE

Thursday, July 09, 2020 11:59

INPUT FIXED TISSUE SAMPLES	INPUT PROCESSED TISSUE SAMPLES
OPEN	OPEN
CLOSE	CLOSE
AUTO	MANUAL
SERVICE	LOG
MODE 10	COBOT OFF

# Tissue-Tek SmartConnect®

## Automated Transfer System

### Specifications



#### General

<b>Product</b>	Tissue-Tek SmartConnect®	7740
<b>Legal manufacturer</b>	Sakura Finetek Europe B.V. Flemingweg 10a 2408 AV Alphen aan den Rijn Netherlands	
<b>CND</b>	W0202059080	
<b>RDM</b>	I2346867	
<b>IVDR classification</b>	Class A	
<b>BASIC UDI-DI</b>	8720177600058025E	

#### Applications

Robotic sample transfer system between the Tissue-Tek Xpress® x120 continuous rapid tissue processor and the Tissue-Tek AutoTEC® a120 automated embedding system

<b>Power supply</b>	180-230VAC ± 10%, 50-60Hz
<b>Power requirements</b>	2 dedicated 16A power cables (one for the Tissue-Tek x120, one for the Tissue-Tek AutoTEC a120 and Tissue-Tek SmartConnect)
<b>Input</b>	350 W
<b>Dimensions</b>	235 x 78 x 82 - 205cm (205cm is the maximum extension of the cobot arm)
<b>Weight</b>	500kg
<b>Floor limitations (weight)</b>	3000kg (for Tissue-Tek x120, Tissue-Tek AutoTEC a120 and Tissue-Tek SmartConnect)
<b>Operating temperature</b>	15 to 50°C
<b>Noise</b>	<72 dB(A)
<b>Airflow capacity</b>	minimum 1.5m³ / minute

## General characteristics

<b>Load capacity</b>	<ul style="list-style-type: none"> <li>• 6 input positions for magazines from grossing (max 120 cassettes)</li> <li>• 8 input positions for magazine from conventional processing (max 160 cassettes)</li> </ul>
<b>Unload capacity</b>	<ul style="list-style-type: none"> <li>• 4 unload positions for the full output doors (max 80 blocks)</li> <li>• 4 positions for empty output doors</li> <li>• Repository for 50 used magazines</li> </ul>
<b>Smoke control</b>	Equipped with formaline fume intake
<b>Display user interface</b>	Colour LCD touchscreen
<b>Connectivity to LIS</b>	Equipped with a QR code scanner that can be connected to the LIS for traceability

## Related instruments & accessories

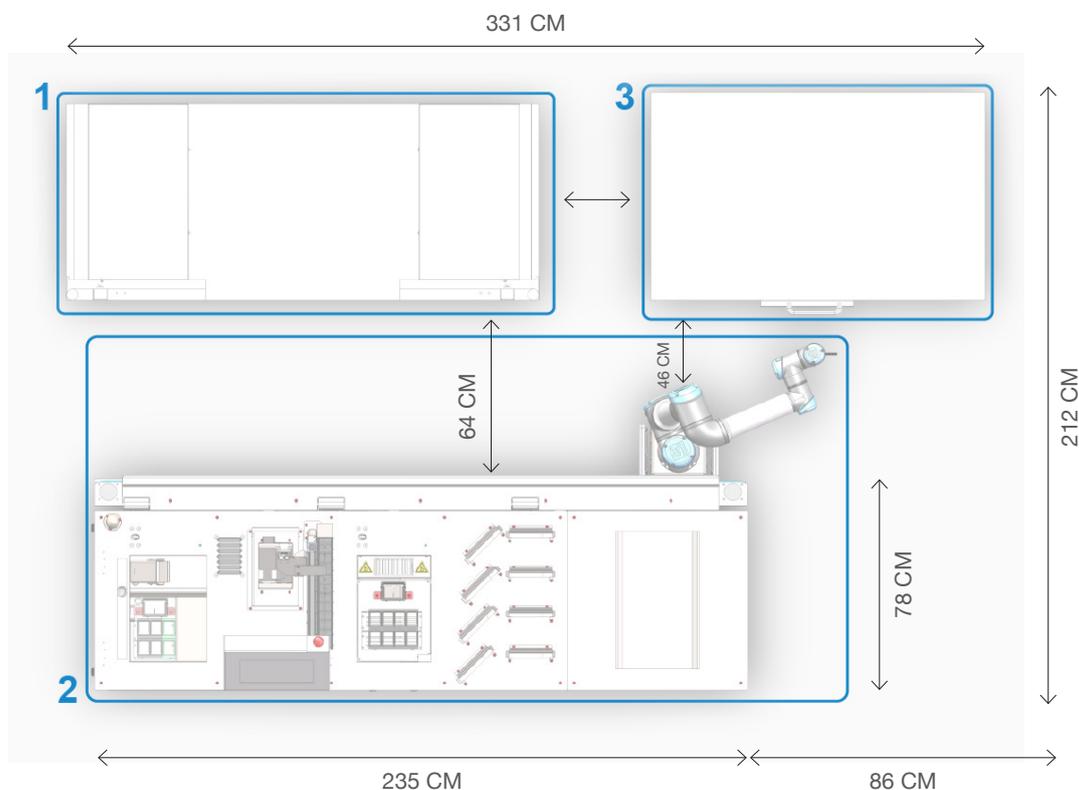
<b>7090</b>	AutoTEC® a120 Tissue-Tek Automatic Embedding System; 100-230V, 50/60 Hz
<b>7722</b>	Tissue-Tek Xpress® x120 Continuous Rapid Tissue Processor 230 V, 50/60 Hz
<b>7093</b>	Tissue-Tek AutoTEC® a120 20-Cassette Magazine (6 pcs)
<b>7094</b>	Tissue-Tek AutoTEC® a120 Cassette Magazine Retainer (4 pcs)
<b>7095</b>	Tissue-Tek AutoTEC® a120 Output Door (2 pcs)

## Functional features

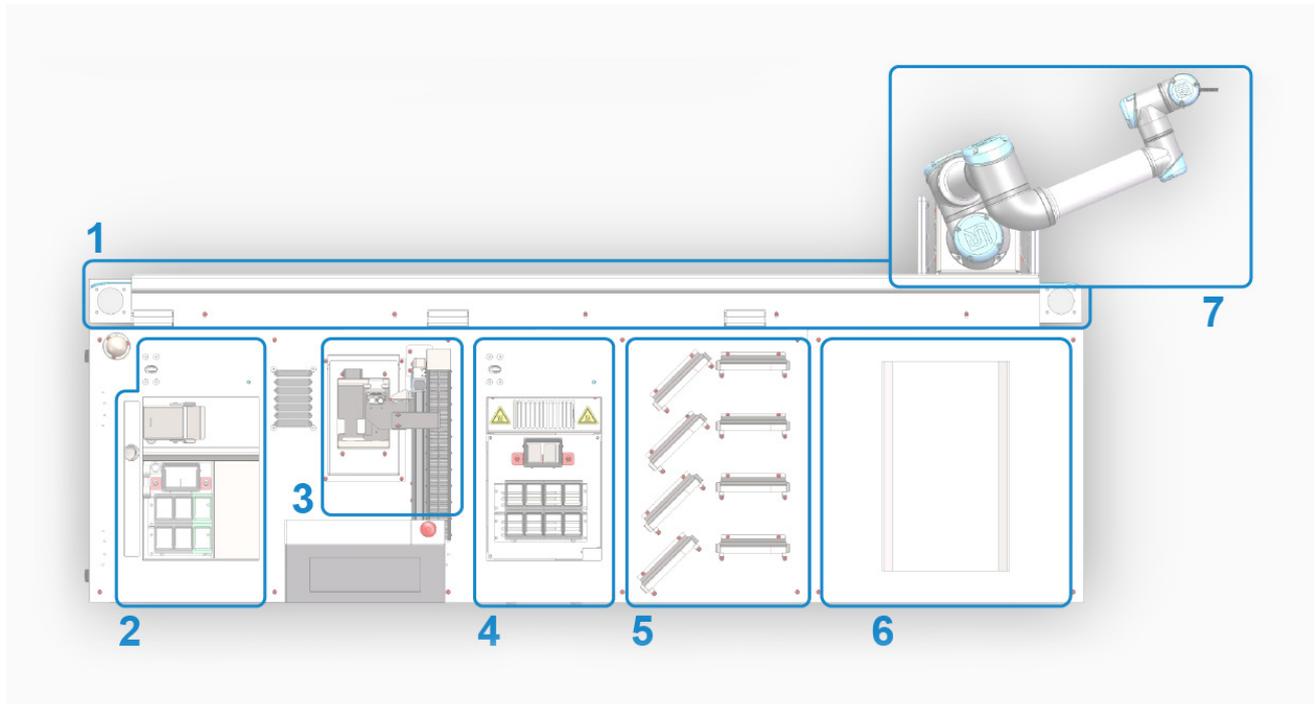
### Clearance:

A minimum space of 20cm behind the Tissue-Tek Xpress x120 and Tissue-Tek AutoTEC a120 is required for installation, though a clearance of 60cm is recommended for optimal accessibility and maintenance.

1. Tissue-Tek Xpress® x120
2. Tissue-TekSmartConnect®
3. Tissue-Tek AutoTEC® a120

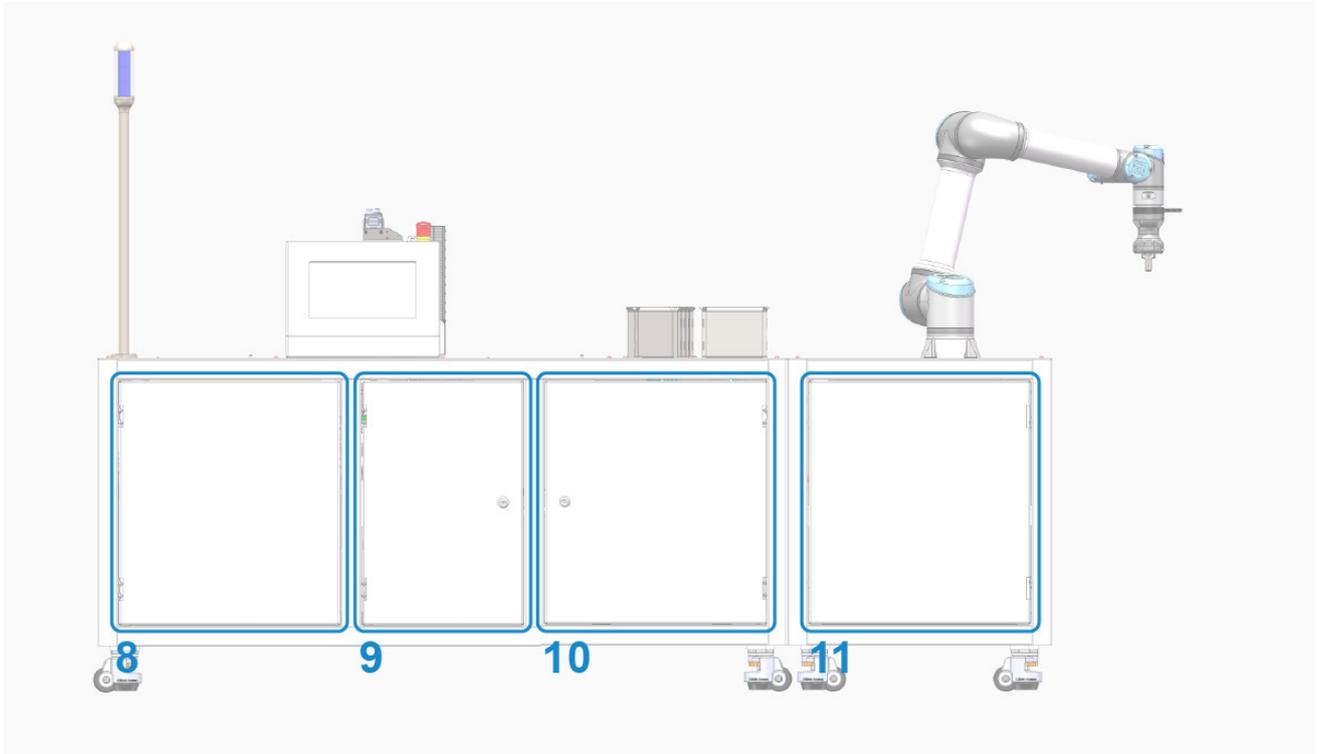


## Top view



1. Cobot rail
2. Input area
3. Scanning area
4. Transfer area
5. Output Area
6. Magazine repository
7. Cobot

## Front view



- 8. Formaline station
- 9. Instrument Control Station 1
- 10. Instrument Control Station 2 \*
- 11. Magazine repository

\* not accessible for end users



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