FFPE Tissue Block Automatic Facing Device



AT-192M

DNS DAINIPPON SEIKI



Features

1. Minimized workload, maximized efficiency

Equipped with a specialized block surfacing module, this system optimizes various parameters to maximize efficiency. It efficiently manages up to 192 blocks, processing each in approximately 1.5 minutes (thickness set at 1000 µm.)

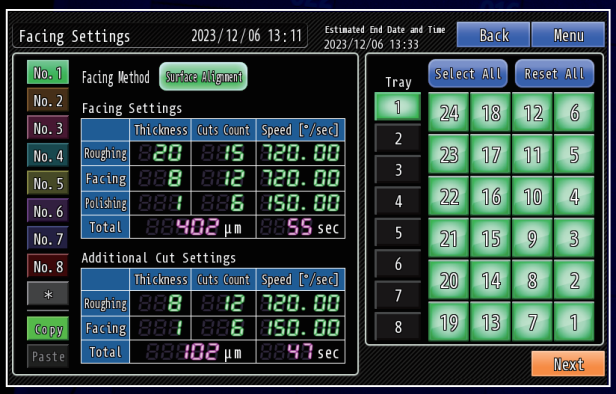
2. Automatic Blade Change

Blades are automatically replaced, preventing injuries to the operator.

3. Automatic Paraffin Waste Collection

Paraffin waste is automatically collected via a powerful vacuum system.

Easy operation via an intuitive touchscreen interface



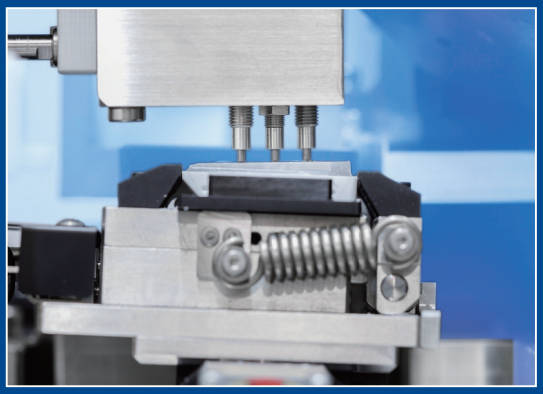
Customizable thickness, cut quantity, and speed settings



Detailed imaging and logging of each processed block



Load your blocks onto the sample tray



Block surface height and angle are automatically adjusted

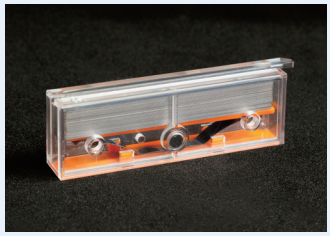
Facing

The embedded paraffin is faced, based on the by the user

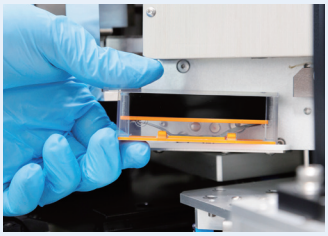
Standard Functions

Automatic Blade Change

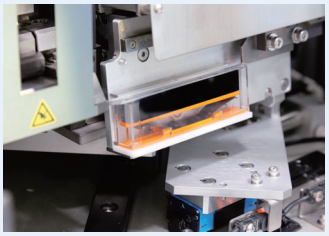
Using a specially designed blade cassette, blades are automatically changed during operation, ensuring safety and ease of use.



Blade Cassette



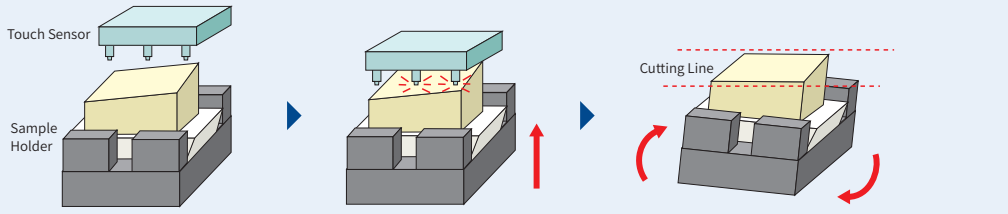
Easy installation



Installation complete

Automatic Surface Orientation

The block surface is automatically measured, adjusting the sample's tilt and height for parallel blade contact.



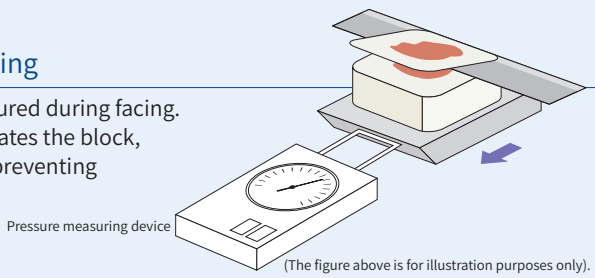
The touch sensor moves into the measuring position on top of the sample holder.

Block surface angle and height are measured.

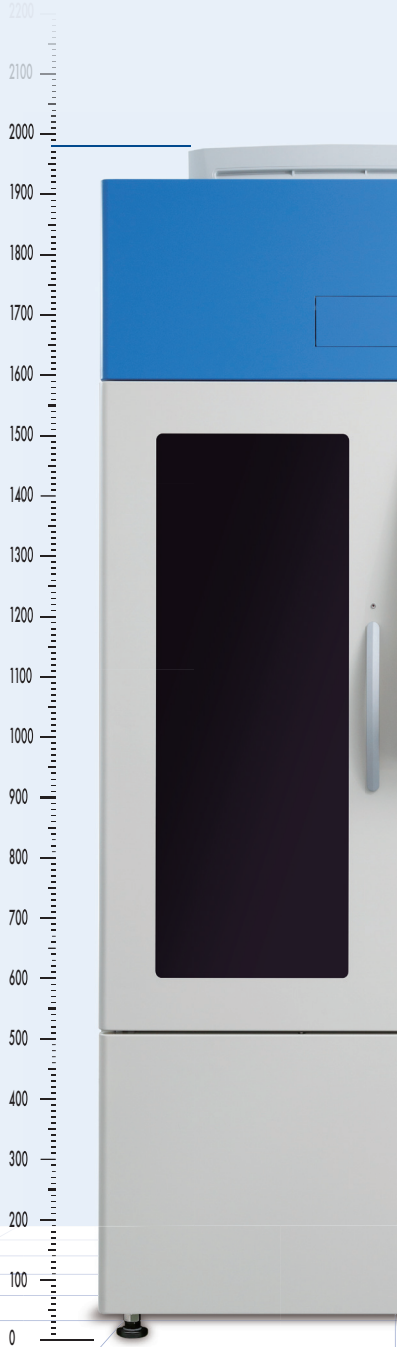
Based on touch sensor readings, the sample holder is automatically adjusted to the cutting line.

Facing Pressure Monitoring

Pressure on the blade is measured during facing. If the blade excessively penetrates the block, facing is immediately halted, preventing damage to the sample.



(The figure above is for illustration purposes only).



Process

sample block
number of cuts set



Facing

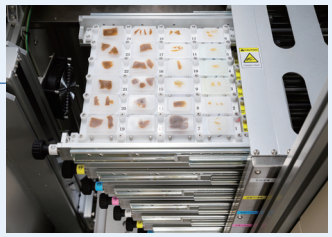


The process is captured by the integrated camera system



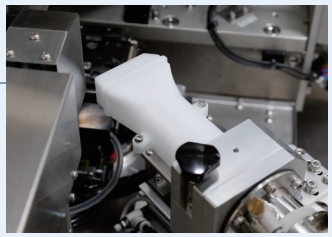
192 Sample Block Capacity

Our system efficiently processes up to 192 blocks per operation, arranged in 8 trays with 24 blocks each, enhancing productivity and turnaround times.



Paraffin Waste Vacuum System

Paraffin waste is automatically collected during facing operation, making cleaning easy and efficient.



Integrated Imaging System

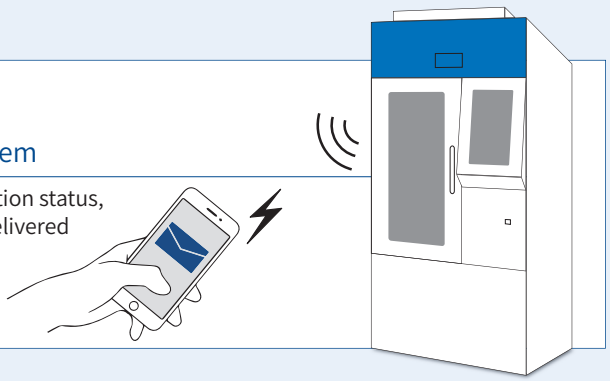
Images of the block surface are captured after each cut, and saved in a log for adjustment and reference purposes.



Optional Function

E-Mail Notification System

Get e-mail updates on operation status, errors, and results directly delivered to your devices.

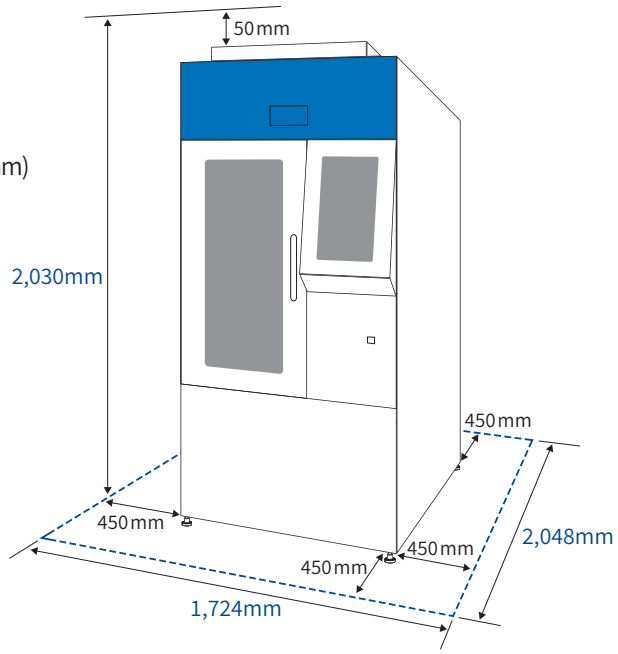


Dimensions

■ Main Unit (W×D×H in mm)
824×1,148×1,980
(Excluding protruding parts)

■ Weight
Approximately 600kg

Installation space

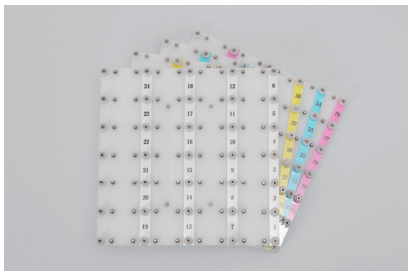


◎Consumables and Accessories



Product name	Dedicated Microtome Replacement Blades (KAI)
Model	K-50
Quantity	1 box (5 cassettes containing 50 blades each)

The blade cassette is fixed on the Automatic Blade Change Unit with a magnet.
The automatic replacement of the blades prevents injuries during operation.



Product name	Sample Tray
Model	ST-24
Quantity	1 pc.

24 block capacity per tray.



Product name	Waste Water Tank
Model	HT
Quantity	1 pc.

A tank for drainage from the cooler.



Product name	Paraffin Collection Container
Model	PCC-5L
Quantity	1 pc.

Container for paraffin waste collection and disposal.



Product name	Prefilter
Model	A-50463
Quantity	1 pc.

Prevents paraffin debris from entering the waste vacuum unit blower.



Product name	Used-blade box
Model	HKT
Quantity	1 pc.

Collects used blades, for safe and easy disposal.

*Maintenance contracts are also available. Please contact us for details.

◎AT-192M Specifications

Block*1 capacity	192 Blocks (24 blocks per tray x 8)
Compatible Block Size	From 24 x 24 x 5 (mm) to 37 x 24 x 14 (mm) *2 *3 Sectioning is possible when there is at least about 3 mm in height.
Compatible Block Cassette Size	40 x 28 x 6 (mm), 40 x 28 x 12 (mm) Not compatible with larger block cassettes.
Device Laser Class	Class 1
Block Processing Speed	Approximately 1.5 Minutes/Block *4 (Facing thickness of 1000 µm)
Operating and setting Interface	Touch Screen Monitor (19.5 Inch)
Ambient Temperature	22 to 26 °C
Ambient Humidity	30 to 70% RH (Non Condensing)
Power Source	AC 100/110/120/220/230/240V 50/60Hz Single phase 1.5KVA x 2 systems
Compressor (Air Pressure)	0.7 MPa (100 psi)
Noise Level	63 dB

*1 Use paraffin with a melting point of 56 to 62°C. *2 If you wish to use sample sizes not listed here, please contact us.
*3 Depending on the surface angle of the blocks, processing may not be successful, even if their dimensions are within the acceptable range. *4 Varies depending on section parameters.

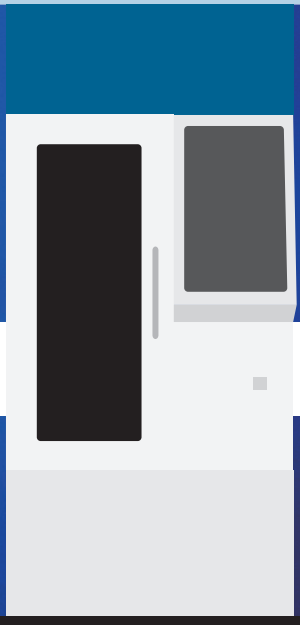
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Products and specifications are subject to change without notice to account for improvements.

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