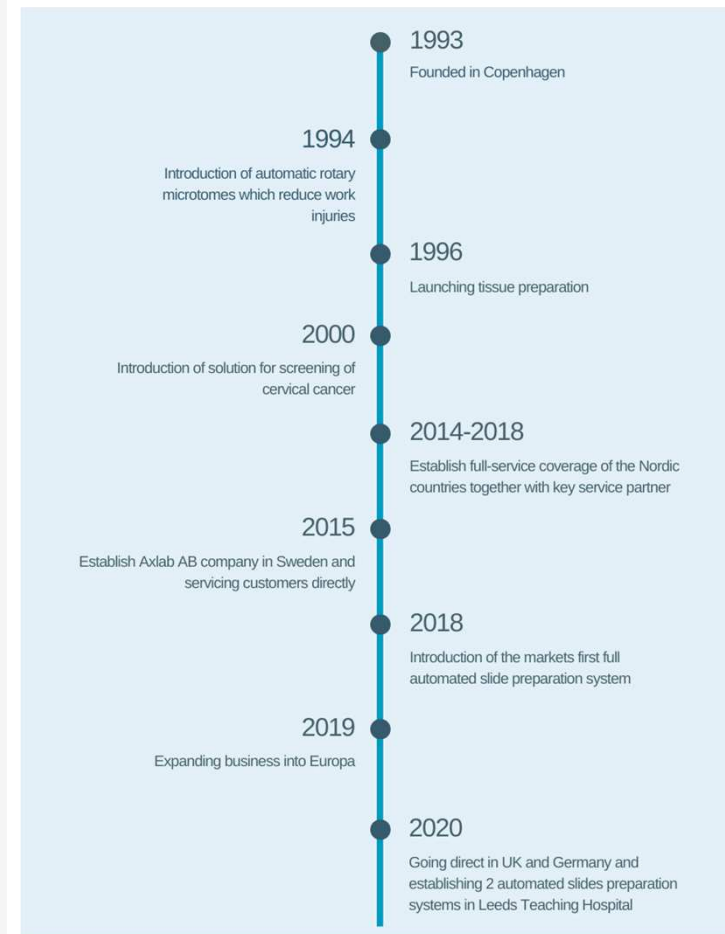


Focus on quality since 1993

- Solid private ownership with focus on long-lasting relationships
- Strong within all process/workstations within pathology labs
- Primary business areas:
 - Cytology
 - Histology



Why automatization?



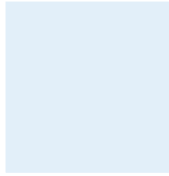
Increase in:

- Number of specimens
- Complexity in assays and tests
- Number of tests pr. specimen
- Handling of assays and tests



Decrease in:

- Ressources human and financial
- Time



The AS-410 gives you:

- Standardized high section quality perfect for digital scanning.
- Standardized placing of the sections.
- Sections performed at night.
- No patient mix ups
- Prevent bottlenecks in the pathology labs.
- Fun and easy to work with



AS-410M : System 4

21 Installations in DK

Region Nord:
Aalborg Hjørring

Region Midt:
1 Randers 2018
2 Skejby 2021/22
Viborg

4-5 more installation in the next couple of years

Region Hovedstaden:
4 Herlev 2015/16/18/20
3 Rigshospitalet 2018/21
2 Hvidovre 2018/21

Region Syd:
2 Odense 2018/20
1 Esbjerg 2017
1 Aabenraa 2021
2 Vejle 2021

Region Sjælland:
2 Næstved 2021

Pharma:
1 Novo Nordisk 2018
Agilent/Dako



IL1

IL2

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YOUR CHALLENGES - OUR INSPIRATION

Europe

1 Norway
Oslo 2021
Histolab

Utrecht
May 2022

2 UK:Leeds
Teaching hospital
2020

10 installations in Europe

2 Spain/Grenada 2021
Soon no 3

1 Switzerland:
Roche/Pharma

3 Italy
2019/2021/
2022



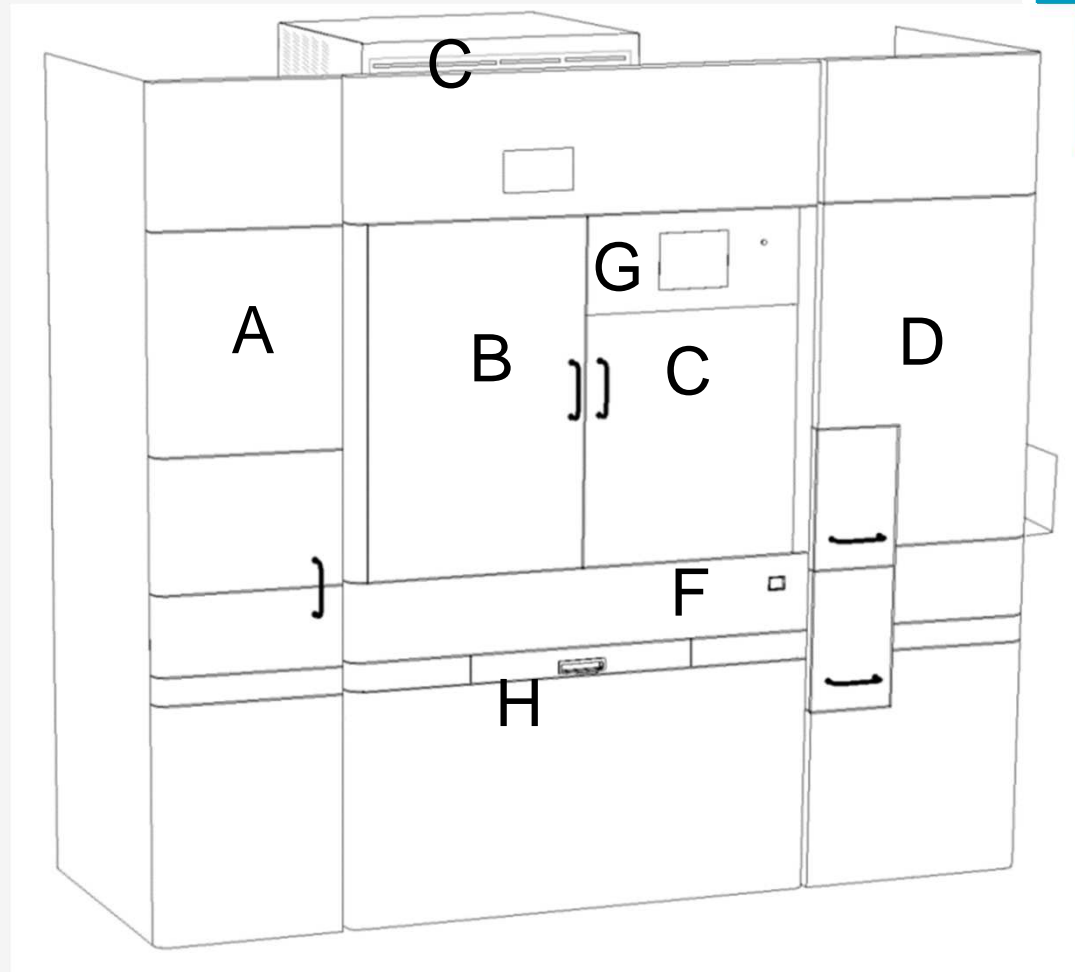
Dia 5

IL1 Ina Lund; 7/04/2022

IL2 Ina Lund; 7/04/2022

AS-410M Main units

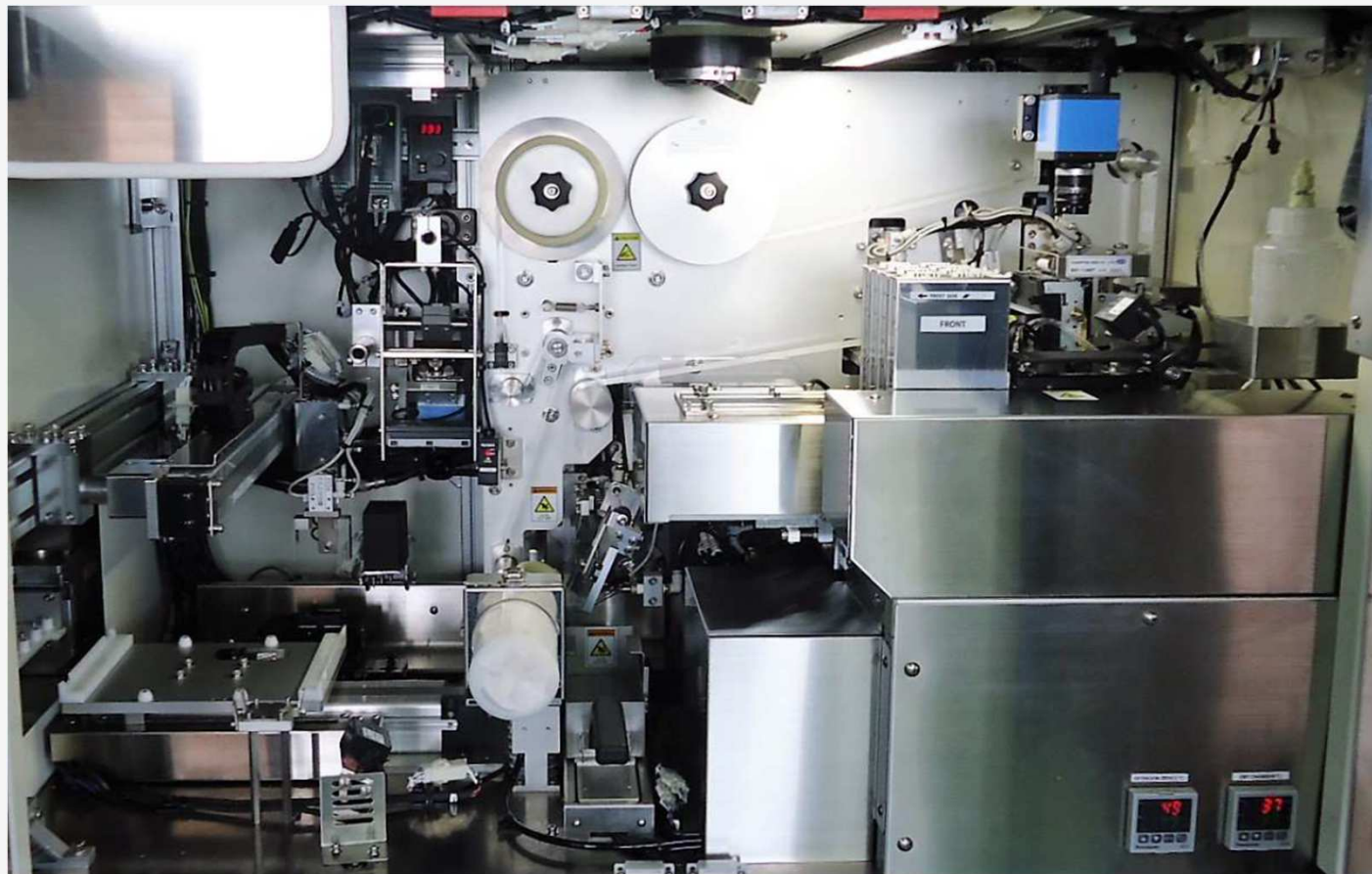
- A: 96 block load unit
- B: Sectioning unit (Sectioning under standardized conditions)
- C: Slide transfer and section mount
- D: Dry chamber with heat can contain 4 collectionboxes for 400 slides in total.
- E: Aircondition
- F: Power bottom
- G: Touch panel for manual operation
- H: Bottom drawer



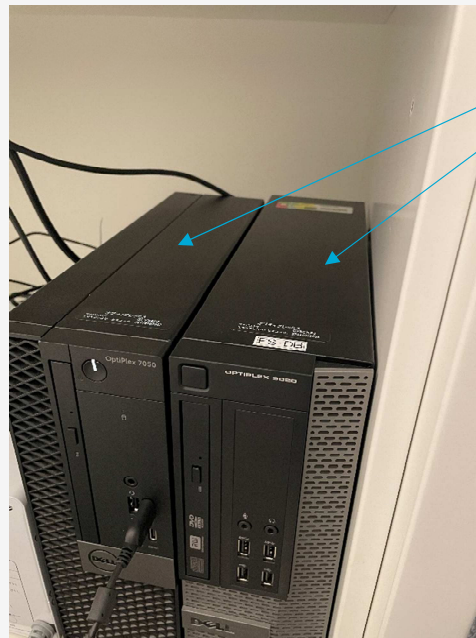
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Inside the unit



AS410M computer setup

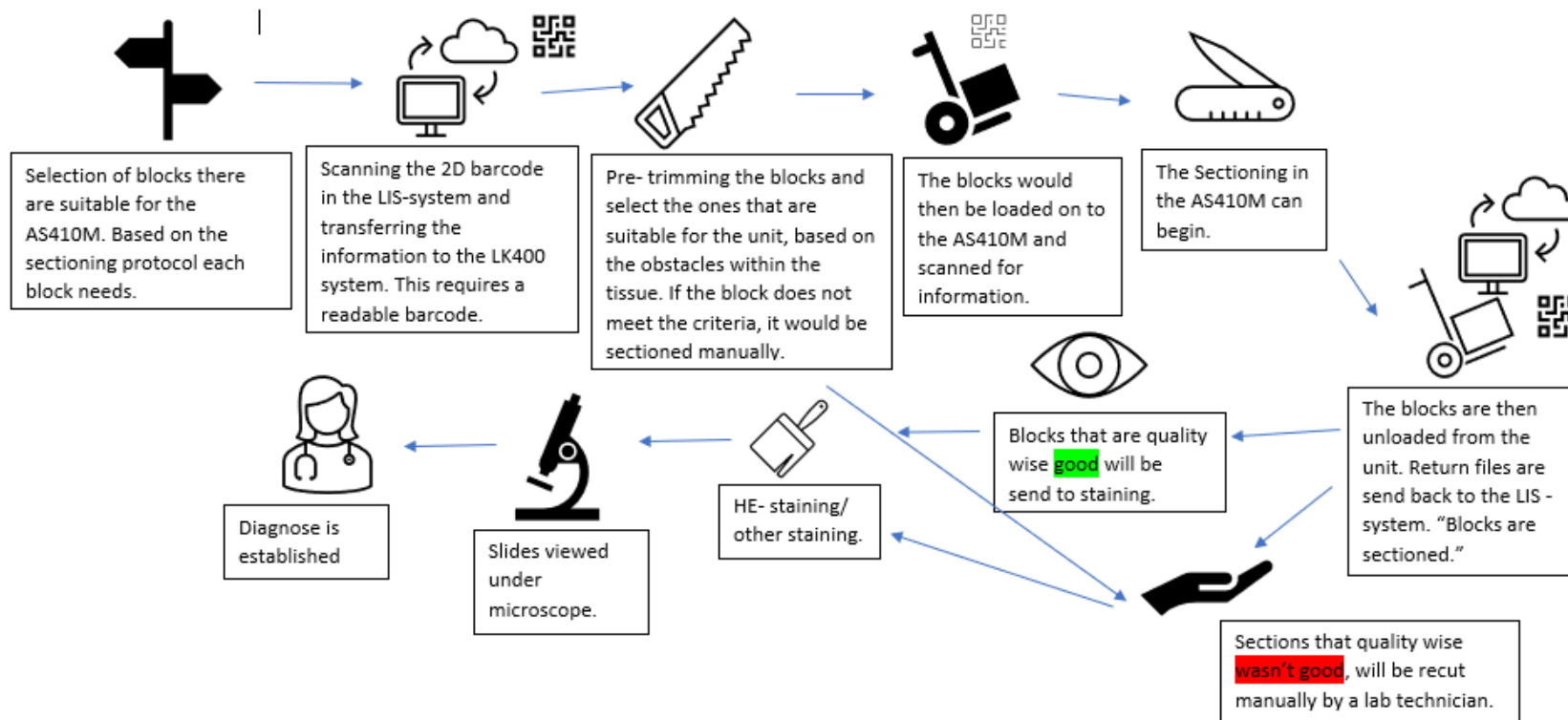


One for the LK400 and
blademark pc



Switching between the
two pc

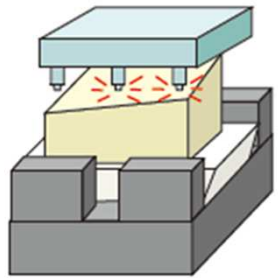
Workflow



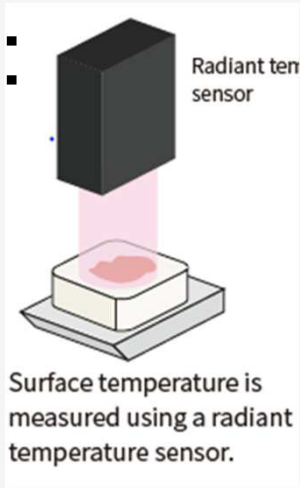
Axlab

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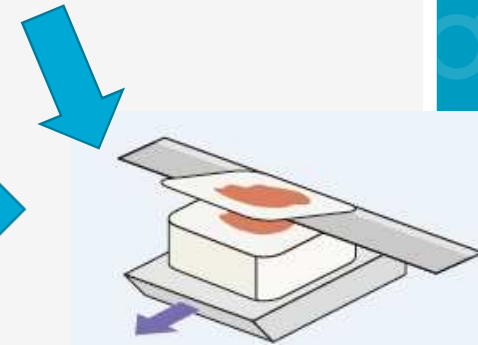
Sectioning principle:



The touch sensor measures the surface angle and height.



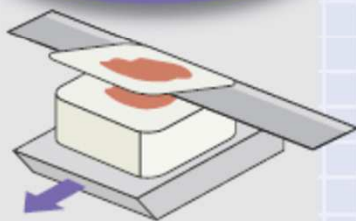
Humidifier in sec.



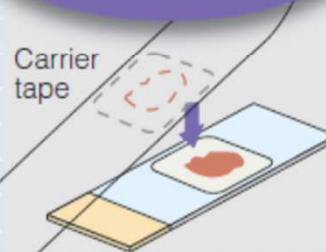
Polishing 60 µm + 4 test sections placed on carriertape.
Every bladechange

Sectioning Process

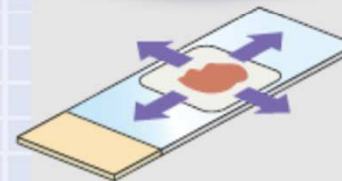
Slicing of paraffin-embedded tissue block



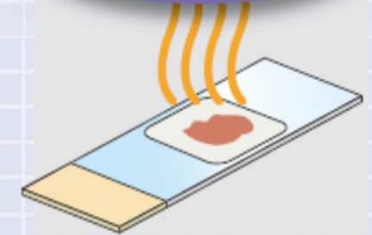
Mounting onto slides



Smoothing after mounting

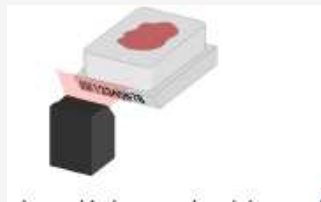
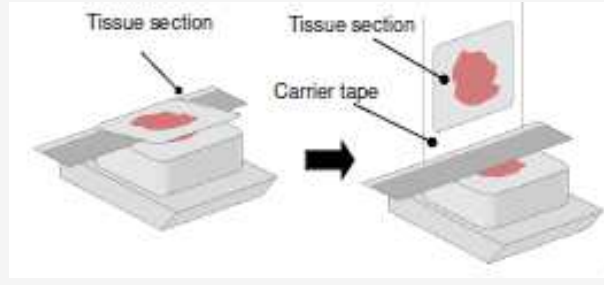
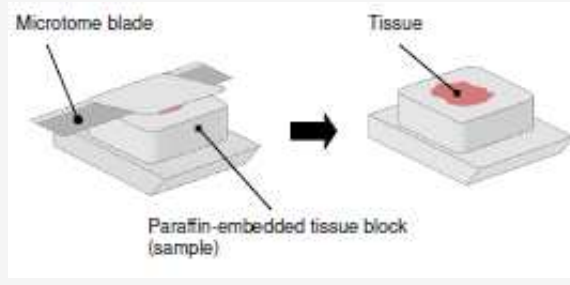
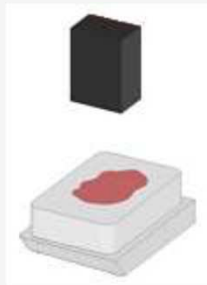


Drying after Smoothing

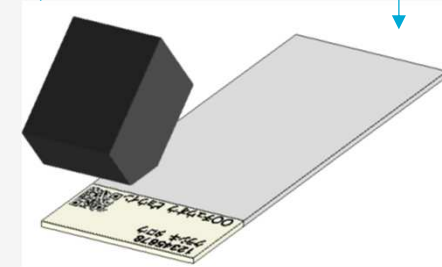
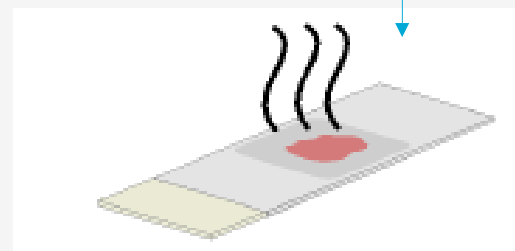
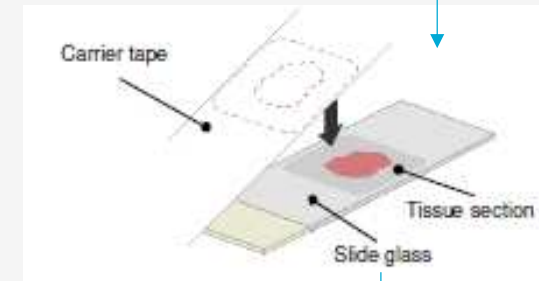
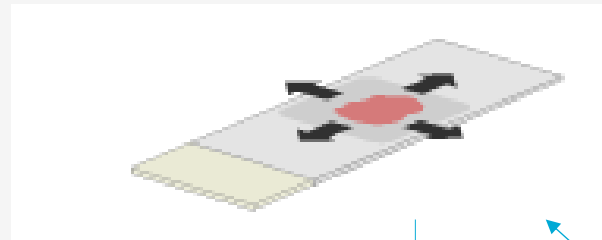


Automatic Tilting Mechanism





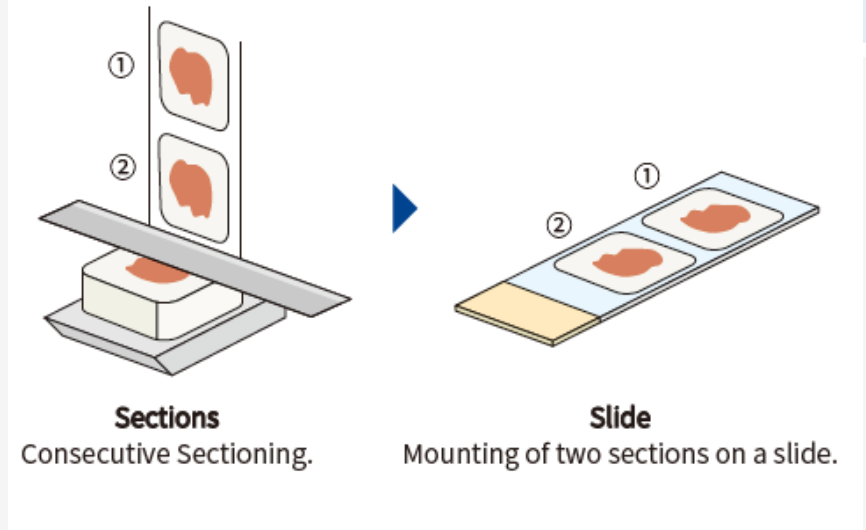
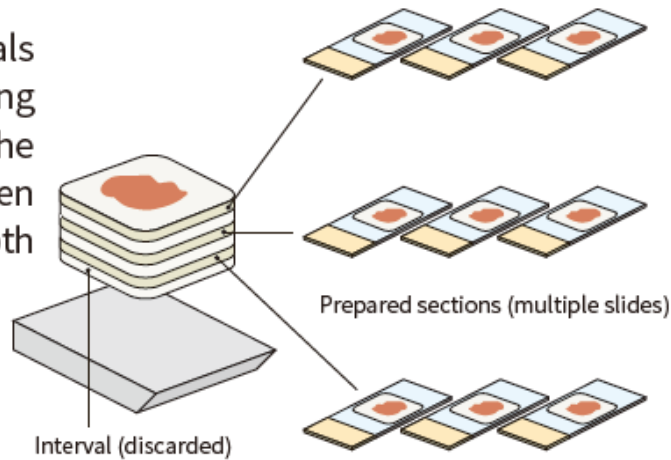
NO patient mix ups



Interval & Dual Sectioning

Interval Cut Function

Serial sectioning by intervals can be performed by setting the number of layers and the interval (thickness) in between while keeping the same depth of intervals.



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Trays & loading unit



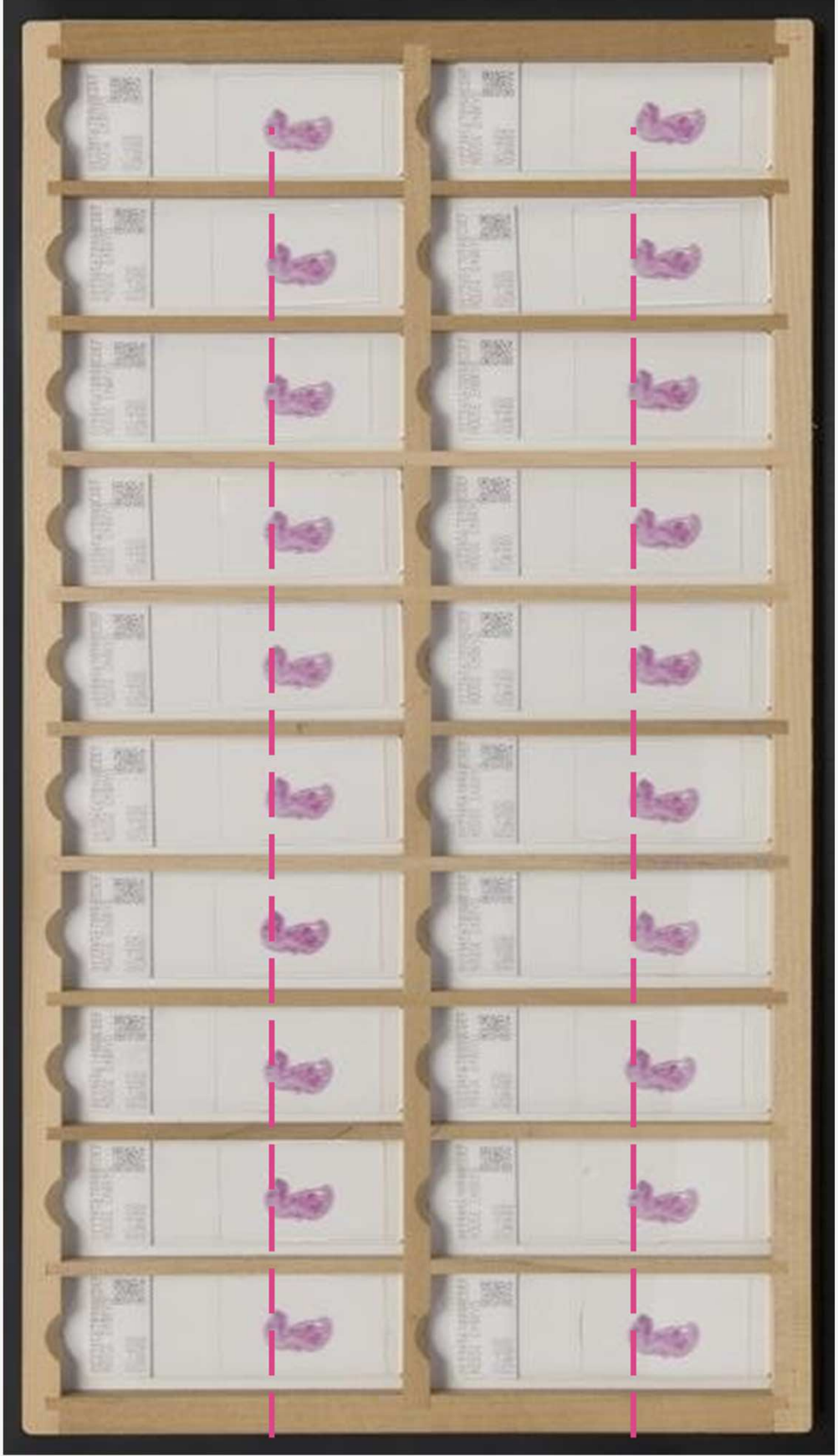
$24 \times 4 = 96$ blocks





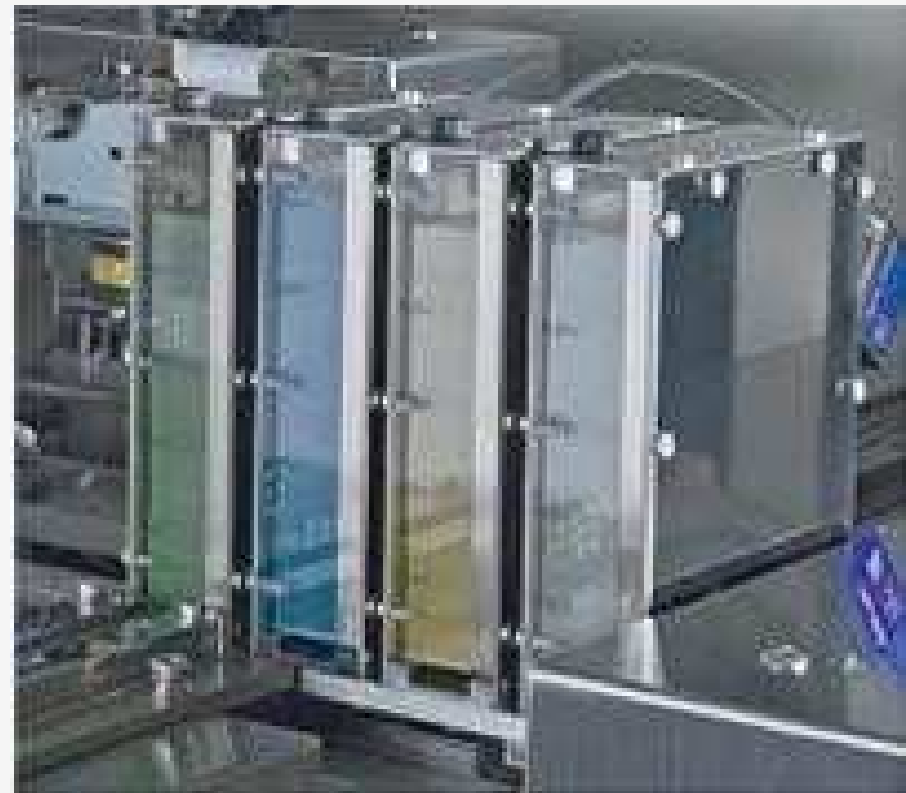
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Glass Slides

- Any glass slide which surface is hydrophilic with printable frosted side can be used
 - 100-slide supply type (DU-100)
 - 400-slide supply type (DU-400)

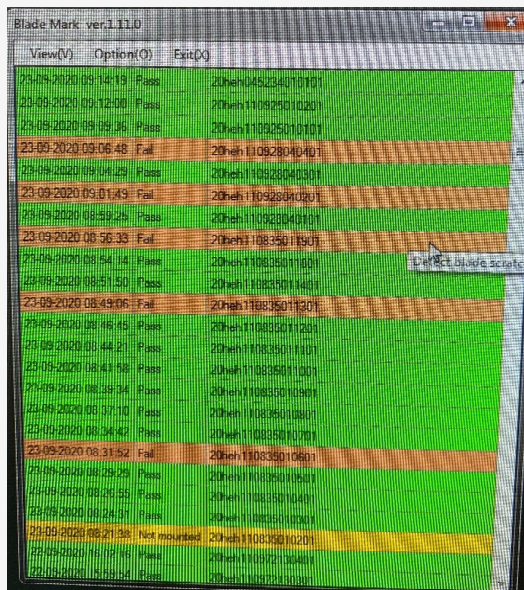


Mounting onto glass slides

- 100 Slide Storing / Drying Unit & 400 Slide Storing / Drying Unit
- Glass slides will be stored into the Dry Stocker Boxes inside of the chamber
- Set temperature: room temp $\sim 50^{\circ}\text{C}$
- The box(es) stay tilted while drying

Blade mark check

(A picture is being taken of each section for high quality sectioning)

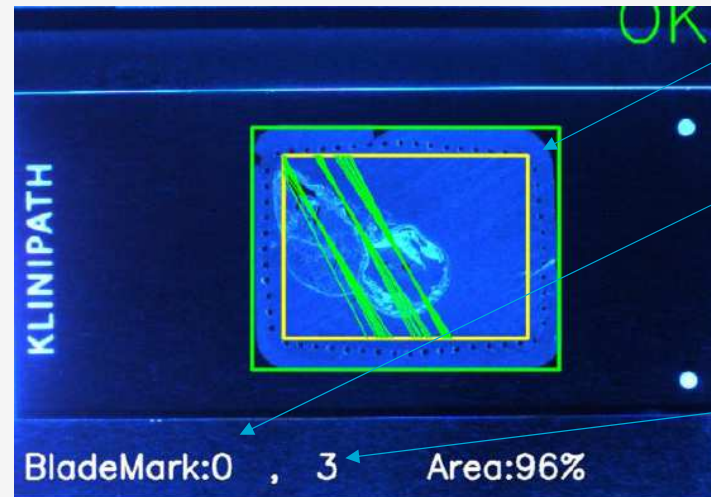
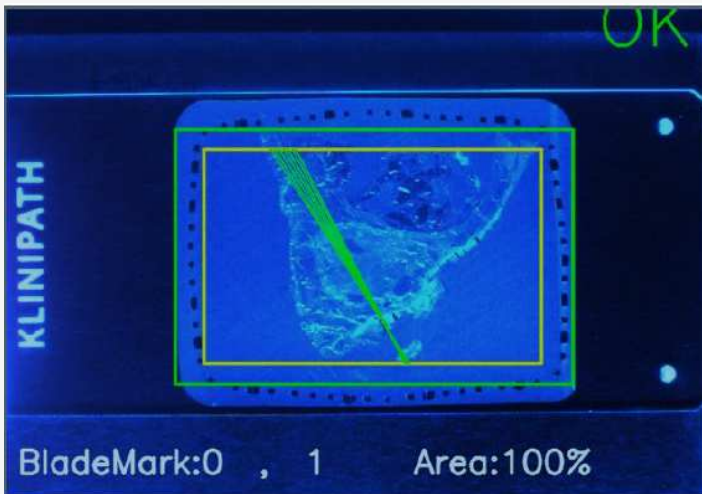
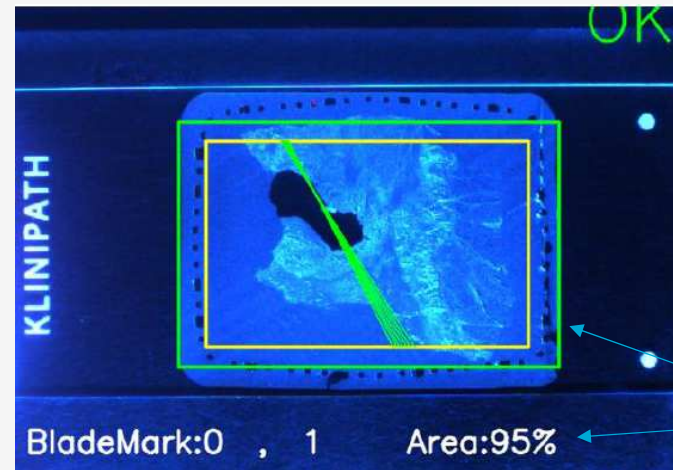
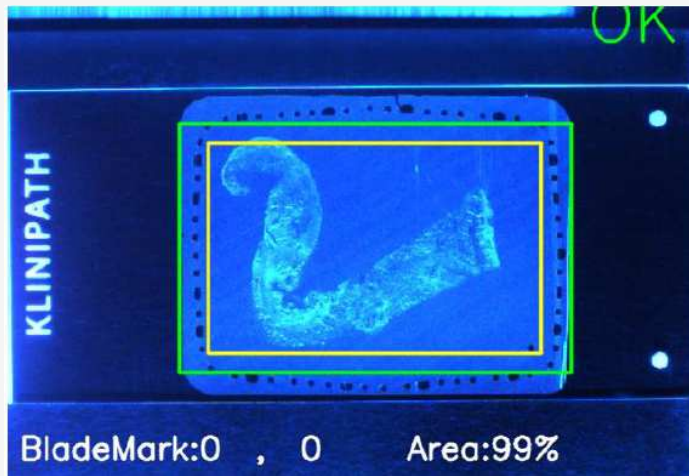


View(V)	Option(O)	Exit(X)
23-09-2020 09:14:19	Pass	20hen1045234610101
23-09-2020 09:12:00	Pass	20hen110829010201
23-09-2020 09:09:36	Pass	20hen110325010101
23-09-2020 09:06:48	Fail	20hen110928040401
23-09-2020 09:04:29	Pass	20hen110928040301
23-09-2020 09:01:49	Fail	20hen110928040201
23-09-2020 08:59:26	Pass	20hen110220401901
23-09-2020 08:56:33	Fail	20hen110835011901
23-09-2020 08:54:14	Pass	20hen110835011101
23-09-2020 08:51:50	Pass	20hen110835011401
23-09-2020 08:49:06	Fail	20hen110835011201
23-09-2020 08:46:45	Pass	20hen110835011001
23-09-2020 08:44:21	Pass	20hen110835011101
23-09-2020 08:41:56	Pass	20hen110835011001
23-09-2020 08:39:34	Pass	20hen110835010901
23-09-2020 08:37:10	Pass	20hen110835010801
23-09-2020 08:34:42	Pass	20hen110835010701
23-09-2020 08:31:52	Fail	20hen110835010601
23-09-2020 08:29:29	Pass	20hen110835010501
23-09-2020 08:26:55	Pass	20hen110835010401
23-09-2020 08:24:31	Pass	20hen110835010301
23-09-2020 08:21:38	Not mounted	20hen110835010201
23-09-2020 16:19:16	Pass	20hen110521010201
23-09-2020 16:19:04	Pass	20hen110521010101

Pass: The section is with no larger artefacts and the tissue area is representative.

Not mounted: There are no section mounted on the slide or the sections is in so bad quality that it is categorized as not mounted.

Fail: The section contains larger or smaller artefact that is over the acceptable mount. The unit will change the blade position or the blade, depending on the position of the blade.

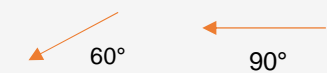


OK referring to the ones that are "passed".

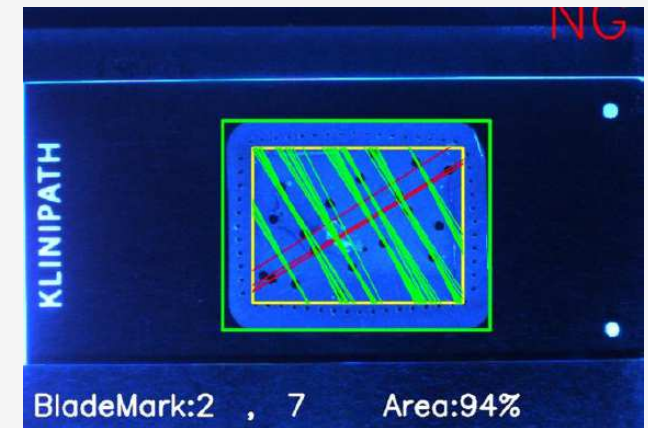
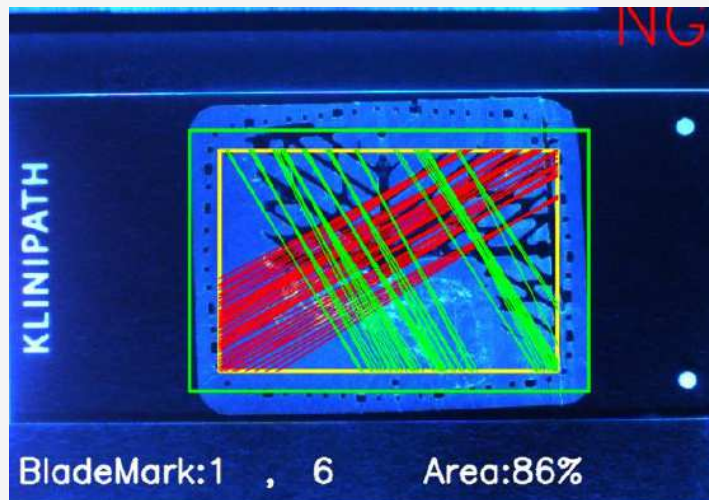
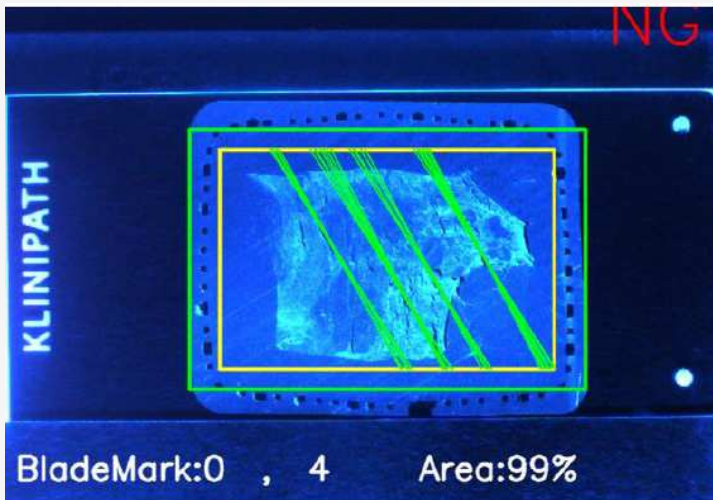
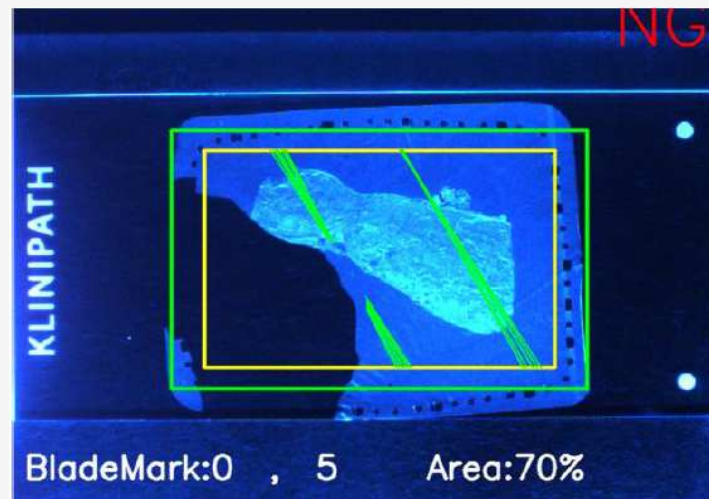
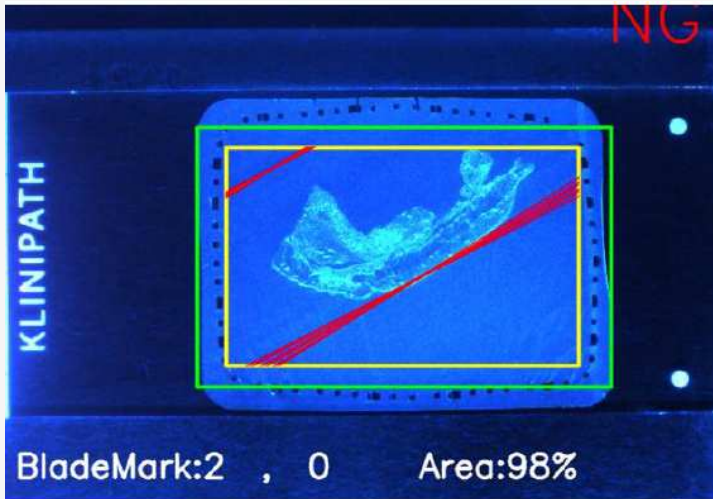
The is referring to the area. And how much of the block surface there are representant

The is referring to the area where the blade mark are detecting.

Blade mark: is the number of artifact parallel to the direction of the sectioning.



The number is referring to the artifacts that are perpendicular.



NG referring to the sections there are failed or not mounted.

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2x AS-410M, Leeds Teaching Hospitals, UK

