

Tissue-Tek® Polar®

Cryostat



Tissue-Tek®Polar®DM

SAKURA

製造販売届出番号：20B2X00014000027



Tissue-Tek®Polar®D

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Tissue-Tek®Polar®B

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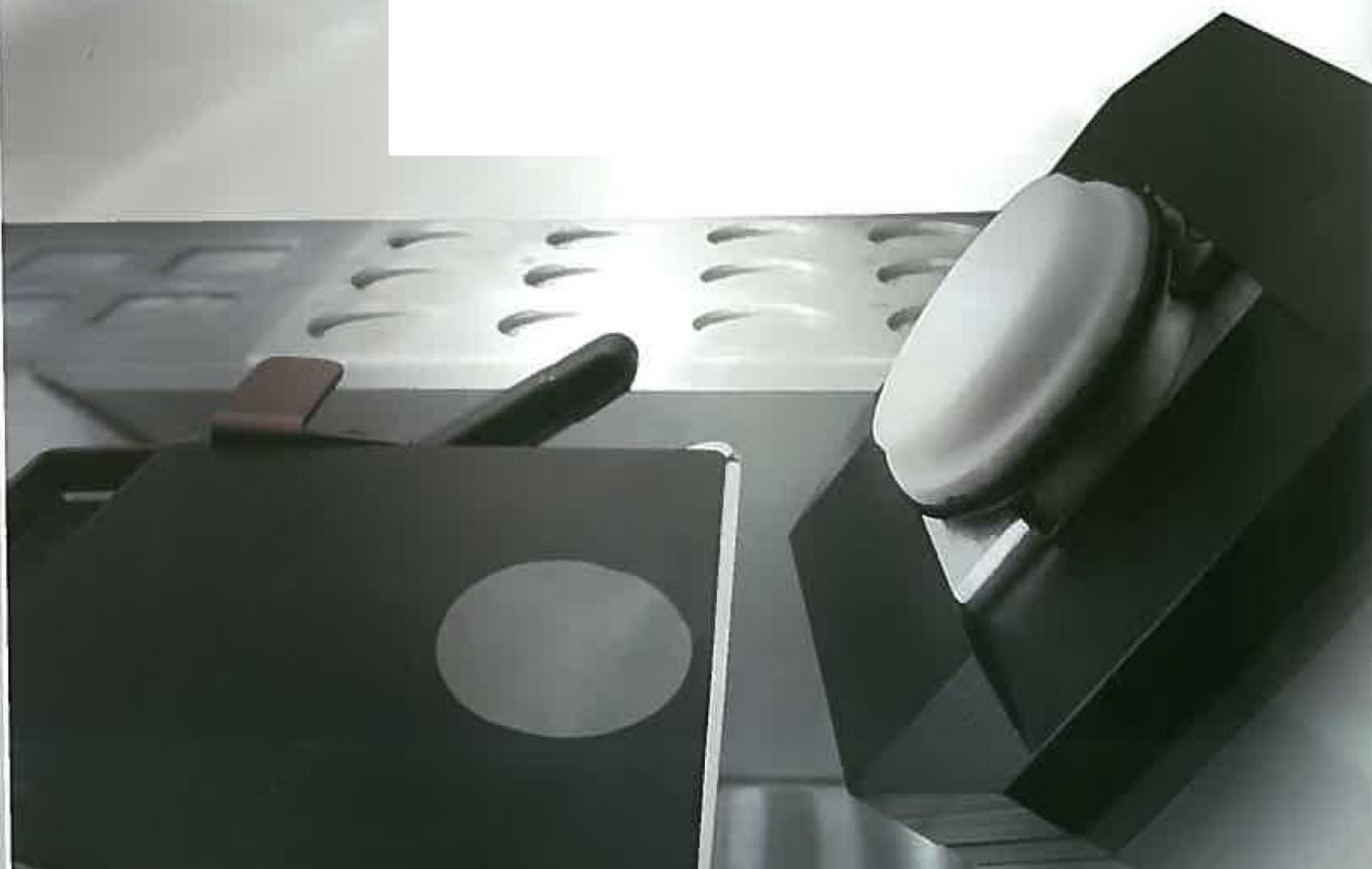
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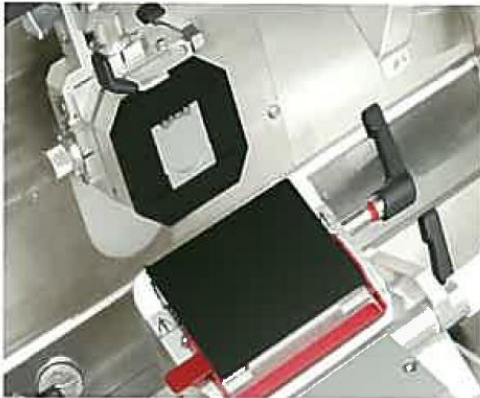
Reduced infection risks
Quicker adipose tissue sectioning



Polar – a new powerful system for sectioning of adipose tissue

Efficient cooling of the blade holder and microtome chuck, and excellent microtome rigidity allow for a variety of tissues, from lymph node through mammary gland, to be sectioned in an ideal temperature range





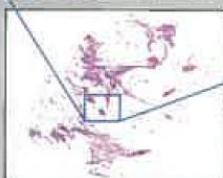
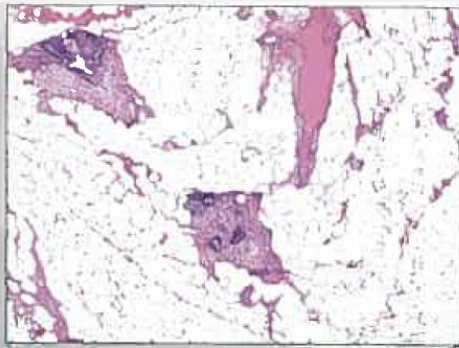
Cooling of the blade holder and microtome chuck(*)

These efficiently cooled components provide high quality sections and facilitate sectioning fatty tissues. Keeping temperature variations to a minimum allows for sectioning of many blocks without interruption.

The temperature control system(*) brings the microtome chuck to the set temperature within a few seconds and quickly adjusts for sectioning adipose tissues just after sectioning solid organs.

- D and DM models only

Mammary gland specimens sectioned by Polar (200x)



乳腺組織における検出例



Excellent microtome rigidity

A monocoque structure(*) is employed for the chamber base, on which the microtome chuck and blade holder are mounted, providing high rigidity and preventing inconsistent thickness when sectioning hard blocks at low temperatures, which often causes the microtome to chatter.

(*) The monocoque structure is a structure integrating the blade holder and the chuck assembly frame. It has excellent strength and rigidity and is resistant to the stress produced during sectioning.



Horizontally movable blade holder

The blade holder can be moved left or right without touching the sharp blade.

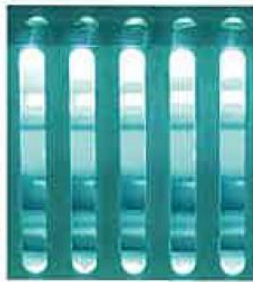


Enhanced infection control features - Even advanced instruments are operated by people.

Intraoperative rapid diagnosis can expose personnel to infectious agents.

The Polar provides a unique draft generator to minimize release of contaminated air to the outside of the chamber, in addition to the ozone disinfection cycle and vacuum debris removal system. Complete infection control features protect laboratory staff.





Unique ozone disinfection feature^(*)

Allows for rapid (75min), effective infection control using ozone gas. The ozone disinfection is effective even at low temperatures and does not require expensive chemicals. It is effective against the tubercle bacillus (TB), and the hepatitis B and C viruses that can create problems ~~in~~ during intraoperative rapid diagnosis.

* D and DM models only



Vacuum debris removal system^(*)

Quickly removes shavings to keep the chamber interior clean. This system can be active not only after use but also during sectioning.

* D and DM models only



Optional draft generator^(*)

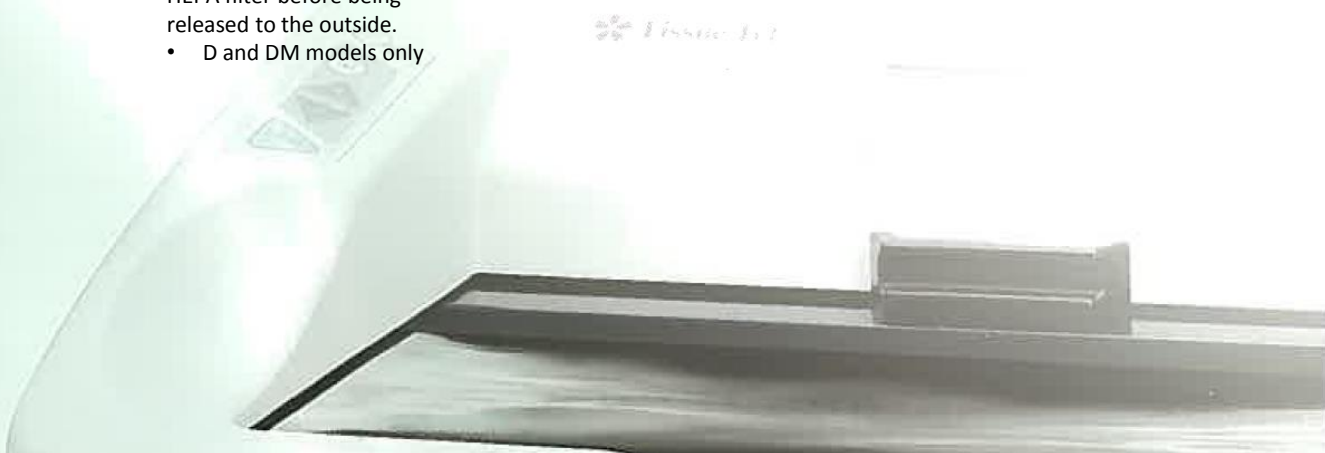
This is a unique feature of the Polar that minimizes release of contaminated air to the outside of the chamber and the operator's exposure to infectious sources during the sectioning. The chamber air is suctioned through an HEPA filter before being released to the outside.

• D and DM models only



Cryobar[®] cavities and specimen holders numbered serially

Up to 15 specimens can be held on the Cryobar[®]. This provides for unobstructed and smooth operation even when processing many specimens at the same time.





Easy-to-use specimen holders with wire handle

High-thermal-conductive specimen holders with wire handle facilitate removal of the specimen block from the Cryomold®.



Fine-tunable orientation of the microtome chuck to obtain the desired angle for the specimen block

The microtome chuck is fine-tunable in the X and Y axes and easy to orient for small specimens.



Easy-to-navigate, color touch display

Unique pictograms allow to navigate the Polar screens intuitively.

Significantly increased work efficiency – even more user-friendly in intraoperative rapid diagnosis procedures

Comments and desires from many cryostat users were incorporated into the Polar to improve the handling and work flow during operation, making the Polar even more user-friendly from section preparation through cleaning.





Homing function of the chuck to a user-defined home position

With one touch of a button, the chuck moves to its home position start trimming. Work can start in a few steps.



Motorized sectioning function (DM model only)

This function provides adjustment of the sectioning speed and switch the operation mode between TRIM, FINE and PAUSE. An optional foot switch is available.



Temperature setting memory function

Three different temperature settings can be stored in memory.



Anti-Roll Rake facilitates picking up sections

As sections are kept from curling, even less-experienced operator can easily obtain sections.



Ample work space makes sectioning easier

The wide, black working area makes it easy to see each section clearly and produce sections.



Wide, shallow chamber with a flat floor

Operator-friendly chamber interior. The flat chamber floor is easy to clean.



LAN and USB connectors

LAN and USB connectors are provided for output of data such as event logs.

Peripheral tools and consumables

A complete set of tools for frozen section preparation is available:

- Frozen Specimen Block Preparation System, Histo-Tek® PINO®
- Exclusive refrigerant for the PINO®, Histo-Tek® Hyfluid®
- Histo-Tek® cooling ladles
- Tissue-Tek® O.C.T. Compound
- Tissue-Tek® Cryomold® base molds (round type / square type)
- Feather® disposable microtome blades, for high profile blade holders



Tissue-Tek® O.C.T. Compound



Histo-Tek® PINO®



Tissue-Tek® Cryomold® base molds (round type)



Tissue-Tek® Cryomold® base molds (square type)

Specifications

Generic Name	Microtome/Cryostat for Histology frozen sections		
Product Name	Tissue-Tek® Polar® B	Tissue-Tek® Polar® D	Tissue-Tek® Polar® DM
Model	POLAR-B	POLAR-D	POLAR-DM
Outer Dimensions	785 (W) x 781 (D) x 1,185 (H) mm; 650mm (W) with the handle folded		
Weight	Approx. 155 kg	Approx. 174 kg	Approx. 176 kg
Power Requirement	100VAC, 50/60Hz, 15A		
Power Consumption	1,500VA or less (with a 15A-rating or more outlet used)		
Chamber Inner Dimensions	500 (W) x 360 (D) x 280 (H) mm; excluding the evaporator		
Temperature Range	Chamber: -10 ~ -35°C (@25°C)	Microtome chuck: -10 ~ -50°C (@25°C) Chamber: -10 ~ -35°C (@15°C)	
Cryobar® Temperature	-40°C or lower (@25°C)		
Max. Number of Specimen Holders on Cryobar®	12 (rectangular type) or 15 (round type) / user-selectable		
Cryo+ Temperature	-50°C or lower (@25°C)	-55°C or lower (@25°C)	
Section Thickness Range	1 ~ 99 µm		
Max. Specimen Size	48.5 mm in diameter		
Specimen Orientation	8° (XY axes) / 360° (Z axis)		
Infection Control Device	---	75-minute ozone disinfection process (15-minute ozone purge cycle included)	
Downdraft Generator	---	Option	
Vacuum Debris Removal System	---	Standard	
Sectioning Method	Manual	Manual	Manual / Motorized
Display	6.2-inch VGA TFT Color LCD (640 x 240 dots)		

* These specifications are subject to change without notice.
* Tissue-Tek® is a registered trade mark of Sakura Finetek Japan Co., Ltd.

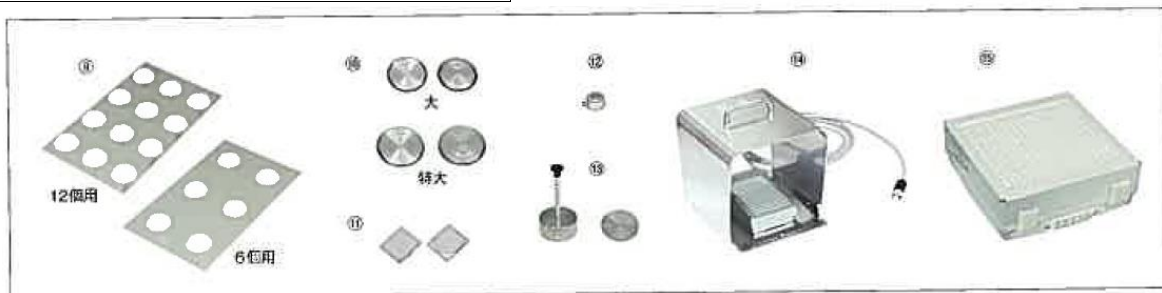
Standard Accessories

Description	Q'ty
1. Cryobar® Insert Round type (15-cavity, 26 dia.)	15
2. Specimen Holder Set Round type (standard, 26 dia.) or Rectangular type (standard, 26x31mm)	1
3. Heat Extractor (standard)	1
4. Parking Plate (standard)	1
5. Debris Vacuum Hose (D and DM models only)	1
6. Vacuum Head Connection Hose (D and DM models only)	1
7. Biohazard Waste Bags	1 set
8. Vacuum Filter Set (D and DM models only)	1 set

1 set x Anti-roll rake / 1 set x Anti-roll plate / 1 set x Blade holder assembly
1 box x Cryomold (100/box, choose between one of the round or rectangular type) / 1 x O.C.T. Compound / 1 box High-Profile disposable blade dispenser (5 blades/box) / 1 x Waste bottle
1 x Drain cleaning brush / 1 x Drain filter / 2 x Wave washers (one is already installed in the blade holder) / 1 x Tool set / 1 x Power cord / 1 x Operating manual

Options

Description
1. Cryobar® Insert Round type (12-cavity, 35.5 dia.), Round type (6-cavity, 48.5 dia.)
2. Specimen Holder Set Large round type (35.5 dia., 12 pcs), Extra-large round type (48.5 dia., 6 pcs)
3. Plastic Specimen Holder Set, Standard rectangular type (26x31mm, 3 pcs)
4. Adapter for Cryo® 3 specimen holder, 6 pcs
5. A set of Large Heat Extractor and Large Parking Plate
6. Foot Switch Unit (for DM model)
7. Draft Generator Unit (for D and DM models) Consists of draft generator filter and draft generator pre-filter



販売業者
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