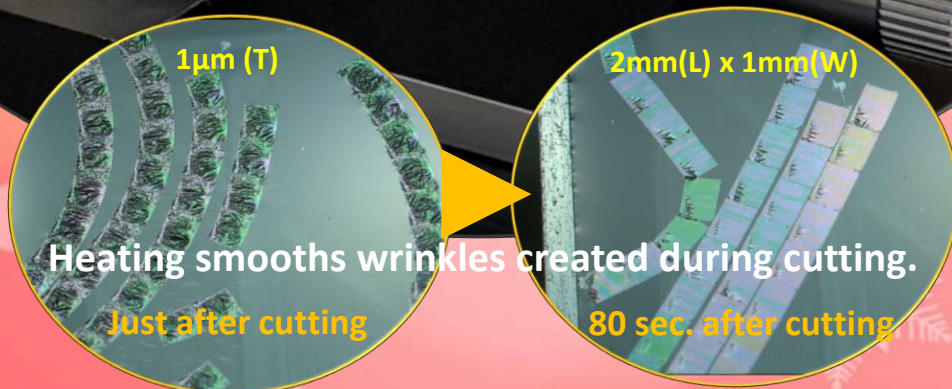


Diamond Knife for Ultra microtome

SYM HEAT

Get warm water in the boat
Achieve Perfect Sections
- No Wrinkles, No Curling -



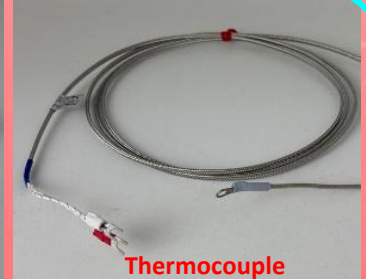
«Installation Example»



Temperature Controller



φ6mm heater



Thermocouple

«Other Required Accessories»

*Please prepare them by yourself

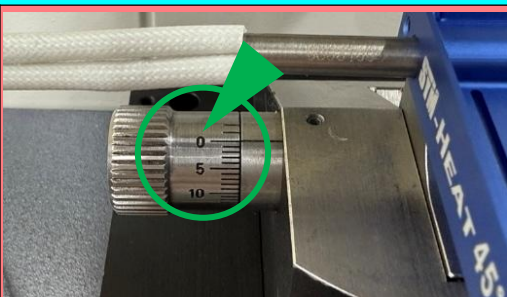
~~Features of the Knife~~

1. Sections to be spread in the boat after cutting
2. Dry section(s) in the boat (water evaporates quickly)
3. Histo type allows $2\mu\text{m}$ to $5\mu\text{m}^*$, curl-free sections through gentle warming

*Uses Hydrophobic Resins (e.g., Spurr)

Discover SYM HEAT

【How to setup】



① Heat knife is set at an angle 0° , just like the Jumbo boat.



② Attach the thermocouple to the screw section at the rear of the holder.

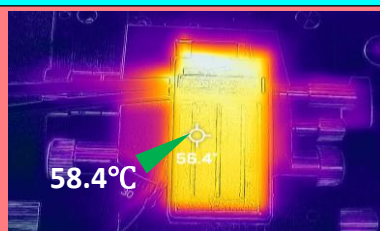


③ Insert the heater into the side hole and tighten the screw.

【Ultrathin Section Collection】

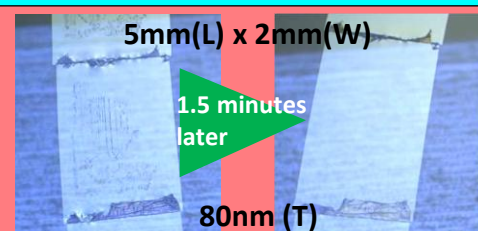


① After sectioning, use the controller to heat up to 60°C (140°F).



② Heats boat water in just 1 to 2 minutes.

**Measured by thermograph.*



③ Warm water removes wrinkles from sections.

**Switch off the heater during collection.*

A 【Semi-thin and Ultrathin Section Ribbon Collection】



① Perform sectioning to create ribbons.

**Photo shows ribbons no heat function*

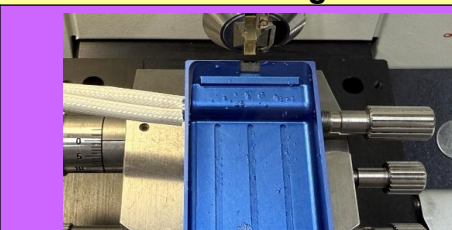


② The difference is clear after heating.

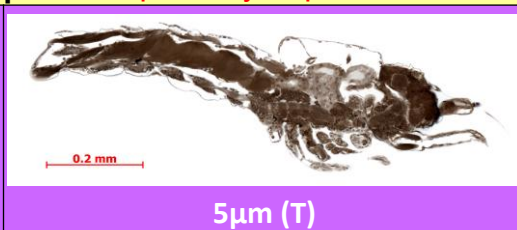


③ Preplace the collection plate; water level goes down, making recovery easier.

B 【Thick sectioning with Histo type】 **Requires hydrophobic resin*



① When cutting thicker sections (1μm to 5 μm), preheat the boat water with the heater.



② Steam softens a resin block, softness facilitates to cut thick sections.



«Caution; Hot!»
Do not touch the boat while heater is ON

Line-up of SYM HEAT

Ultra for thin sections (less than 200nm)

Item No.	Blade Angle	Width	Item No.	Blade Angle	Width
SYM HEAT2035	35°	2.0mm	SYM HEAT2045	45°	2.0mm
SYM HEAT3035	35°	3.0mm	SYM HEAT3045	45°	3.0mm
SYM HEAT4035	35°	4.0mm	SYM HEAT4045	45°	4.0mm

Histo for semi-thin sections (more than 200nm)

SYM HEAT3045H	45°	3.0mm	SYM HEAT3055H	55°	3.0mm
SYM HEAT6045H	45°	6.0mm	SYM HEAT6055H	55°	6.0mm

Temperature Will Ignite the Future!



SYNTEK CO., LTD (Japan)

