



# DAKEWE CT520 Cryostat microtome

Multipoint temperature  
control

# CT520 Cryostat microtome



## Consistent and reproducible sections

Dakewe CT520 cryostat microtome can quick-freeze up to 20 specimens at a time (including 2 Peltier elements).

The powerful double compressors and multiple sets of temperature sensors ensure precise temperature control and fast, smooth cooling.

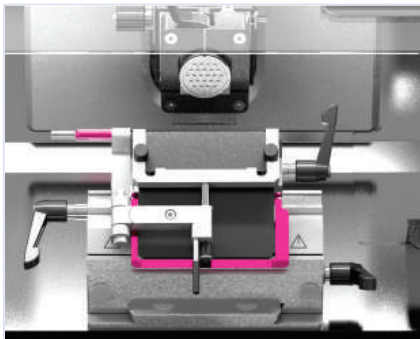
Separate temperature setting on specimen head, freeze shelf, and blade holder is now possible.

Reach target temperature from room temperature in down to 1.5 hours.

Semi-motorized microtome located outside the cryochamber further improves reliability and precision, and provides for quality sections.

Blade holder adapts to high and low profile blades.

Smooth and durable dual rail effortlessly handles heavy sectioning demand. Explicit specimen feeding driven by precise stepper motors produces homogeneous sections.



Stable blade holder and anti-roll guide provide for smooth sections



Specimen discs with cubic studs enable stable specimen mounting

The flat stem provides large contact surface for heat transfer and the ease of operation



Easily adjust crucial parameters and move specimen via physical control panel

Sensor light with adjustable brightness allows for clear view and prevents eye fatigue

# Multi-point temperature control

Dakewe CT520 cryostat microtome



12.1 inch color touch screen

Slide placement area

Light and smooth handwheel

Two-position handwheel lock

53-liter large volume cryochamber stores massive cool air to keep up with heavy workloads

Front and top ergonomic curve design to provide comfort when leaned on

Anti-bacterial nano silver coating

Condensate bottle with liquid level detection



Specimen head position memory function allows specimen head to be reset to memorized position with just one touch.

Choose freely from 3 customizable presets of temperature to suit specimen types.

Specimen head travel distance is clearly shown.

Rocking mode can be enabled to help trimming.

Schedule automatic defrosting and disinfection according to lab routine for thorough defrosting and optimal defrosting outcome.

Intelligent algorithm of compressor working mode ensures efficient cooling while maintaining quiet operation.

Operation logs and user permission system aid laboratory management.

# Specifications

Power requirements	220 - 240 VAC, 50 Hz; 220 - 240 VAC, 60 Hz; 110 - 127 VAC, 60 Hz
Dimensions (W×D×H)	830 × 910 × 1300 mm (including the handwheel)
Weight	Approx. 185 kg (without accessories)
Section thickness range	1 - 100 µm
Trimming thickness range	5 - 600 µm
Horizontal feed	30 ± 1 mm
Vertical stroke	62 ± 1 mm
Retraction	Yes, adjustable
Specimen orientation	±8° (x/y axis), 360° (z axis)
Temperature range	At ambient temperature of 20 °C Freeze shelf: -10 °C to -42 °C ± 5°C Specimen head: -10 °C to -50 °C ± 5°C Blade holder: -15 °C to -30 °C ± 5°C
Freezing stations	18 stations + 2 Peltier elements
Peltier elements	-60 °C + 3 °C (at freeze shelf temperature of -42 °C (+5 °C))

## DAKEWE

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