

ULTRA- AND CRYO-ULTRAMICROTOMES

Before most biological specimens can be studied with a TEM, they must be made thin enough ($\leq 200\text{nm}$) to allow an electron beam to pass through them.

The ultramicrotomes can be used for semi- and ultrathin sectioning of resin embedded materials as well as smooth surfaces of biological and industrial samples for TEM, SEM and LM examination. Glass knives can be used for trimming and semithin sectioning, and a diamond knife for ultrathin sectioning.

Cryo-ultramicrotomy is performed by the EM FC6 cryochamber. It is designed for low temperature sectioning of samples at temperatures from -15 to -160°C . The instrument can be used for preparation of semi- and ultrathin cryosections as well as smooth surfaces of biological and industrial samples for TEM, SEM and LM examination. Glass knives can be used for trimming and semithin sectioning, and a cryo-diamond knife for ultrathin sectioning.

Modell/type: Leica EM UC6

Acquired in 2005 (2 units)

Semi- and ultrathin sectioning ($3\mu\text{m}$ – 50nm).



Modell/type: RMC MT-X

Acquired in 1999 (1 unit)

Semi - and ultrathin sectioning ($3\mu\text{m}$ – 150nm).



Modell/type: Leica KMR3

Acquired in 2013 (1 unit)
Making glass knife.

Modell/type: Leica KMR2

Acquired in 1999 (1 unit)
Making glass knife.



KMR3

Modell/type: Leica EM FC6, cryounit

Acquired in 2004 (1 unit)

Low temperature sectioning system for preparations of semi- and ultrathin cryosections (3 μ m - 60nm) for TEM and smooth surface for SEM. With a temperature range from -15°C to -160°C.

