**Power Tome Ultramicrotome**

**Equipment:** Power Tome Ultramicrotome RMC (Boeckeler)

**No. of Equipment:** UACH11

**Responsible coordinator:** Dr. Petr Svora

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**Equipment Description**

**Description of equipment:**

Power Tome Ultramicrotome RMC (Boeckeler) is used for cutting ultra thin slices of biological and industrial specimen for transmission electron microscopy. The glass or diamant cutting knifes are used for ultra thin cuts.

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP3**a,c-h, **WP4**a,b, **WP5**c, **WP6**a,c-f, **WP7**a-e,g-i, **WP8**a,c-f

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment**:

All the fields in which the characterization of the prepared materials is needed.

**Please, specify the secondary research topics connected with equipment**:

**Keywords describing research area:**

Sample preparation for transmission electron microscopy.

**Competence**

**Relevance for applied and industrial research:**

High-quality materials characterization to support preparation of perspective novel materials in large scale production (applied and industrial research).

**Relevance for fundamental studies:**

Detailed analysis of prepared materials connection between morphology and properties in nanoscale range.