

SAMPLE PREPARATION LABORATORY

Mechanical milling has been recognized as an effective way of occurrence the solid state chemical reaction at low temperature. In our own laboratories, one can prepare polycrystalline bulk and nanocrystalline samples of a variety of classes of materials including intermetallic and oxides systems.

Several types of system are available for the preparation of samples in our laboratory, including:

1. Vario – Planetary Mill – Fritsch high energy ball milling equipment for mechanical alloying



- a. Flexible configurable grinding conditions: impact and/or friction
- b. 440C hardened steel balls and milling vial.
- c. Fast grinding with rotational speeds up to 400 rpm
- d. Loss-free grinding even below 1 μm

2. Gloves and controlled atmosphere box



Location: Institute of Physics "Ioan Ursu"

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Lab Responsible Person: Lect. Dr. Dudric Roxana

Working hours: Monday-Friday 8-20

The access to these equipments is unrestricted for UBB researchers/teaching staff and without payment for external users, under the supervision of the Institute staff or after appropriate training.

**For access to the lab, please contact us by e-mail:
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