

Mechanochemical laboratory

(the preparation of nanomaterials)

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Planetary Mono Mill PULVERISETTE 6 classic line



- High-energy ultrafine milling
- one-step preparation
- high rotation speed (up to 600 min^{-1})
- inert (Ar) or special (CO_2) atmosphere

Planetary Micro Mill PULVERISETTE 7 premium line

- high rotation speed (up to 1100 min^{-1})
- controlling of gas pressure and temperature during milling



Aplikácie

- the preparation of new attractive nanomaterials (minerals or inorganic compounds)
- the characterization of solid-phase nanomaterials:
 - the study of surface-volume structure of the mechanically activated and synthesized material
 - the study of physico-chemical properties of mechanothesized nanomaterials (powder diffraction analysis, infrared spectroscopy, scanning electron microscopy, particle size distribution, BET analysis, thermal analysis and others)

