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## Equipos de Laboratorio: Descripciones y Fotos

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To help you assemble the equipment page for your laboratory, here is a list with brief descriptions and a reference image for each item.

### Preparation and Polishing

- **Logitech PM5 Planoparallel Polisher**

High-precision lapping and polishing system, designed to obtain perfectly flat surfaces and control the planoparallelism of samples (essential for thin sections).



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[www.irsm.cas.cz](http://www.irsm.cas.cz)

- **Struers Rotopol 35 Automatic Polisher**

Machine for grinding and polishing multiple samples simultaneously. Automates the process to ensure reproducibility in metallographic preparation.



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[tw.caeonline.com](http://tw.caeonline.com)

- **Buehler AutoMet 250 Polisher**

Semi-automatic grinding and polishing system. It is robust and allows programming forces and times for high-volume sample processing.



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[www.buehler.com](http://www.buehler.com)

- **Struers VibroMet (Vibratory Polisher)**

Uses vibratory polishing to remove microscopic deformations. Ideal for the final step before EBSD analysis or for soft and ductile materials.



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[www.buehler.com](http://www.buehler.com)

## Electrolytic and Specific Preparation (TEM)

- **Struers TenuPol**

Unit for electrolytic thinning of specimens, specifically designed to prepare 3 mm samples transparent to electrons for TEM.



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[webshop.struers.com](http://webshop.struers.com)

- **Struers LectroPol**

Automatic equipment for electrolytic polishing and etching of metallographic samples, free of mechanical deformation.



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 [webshop.struers.com](http://webshop.struers.com)

- **Gatan Dimple Grinder**

Instrument for mechanical pre-thinning (dimpling) of TEM samples. Creates a central depression before final ion milling.



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 [mrl.illinois.edu](http://mrl.illinois.edu)

- **Disc Puncher (3 mm / 1 mm)**

Precision mechanical tool for cutting discs of standard diameter (usually 3 mm) from thin sheets for TEM preparation.



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 [www.gatan.com](http://www.gatan.com)

## **Cutting and Accessories**

- **Buehler IsoMet Cutter (Low Speed Saw)**

Precision saw using diamond blades. Cuts delicate materials with minimal deformation and low thermal damage.



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[www.buehler.com](http://www.buehler.com)

- **Struers AccuStop**

High-precision specimen holder for manual or semi-automatic polishing. Allows controlling the removal of material with micrometric accuracy.



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[webshop.struers.com](http://webshop.struers.com)

## General Laboratory Equipment

- **Thermconcept LAC Furnace**

Laboratory muffle furnace for heat treatments, sintering, or calcination, with precise temperature control.



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[www.directindustry.com](http://www.directindustry.com)

- **Binder Oven**

Drying and heating oven with forced convection, used for drying samples or curing materials.



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[www.binder-world.com](http://www.binder-world.com)

- **Euro Aire Fume Hood**

Safety cabin with gas extraction, essential for handling volatile chemical reagents, acids, or toxic samples.



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[www.cleatech.com](http://www.cleatech.com)

*(Note: Images for common equipment like the "Precision Balance" or "Optical Microscope" were omitted to prioritize specific models, but they are standard instruments in any characterization laboratory).*