



RESEARCH INSTRUMENTS

INNOVATION • PRECISION • PROGRESS



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Materials Preparation

PROGRAMMABLE MUFFLE FURNACE (1000 °C)

Maximum Temperature	: 1000 °C
Thermal Insulation	: Four-layer insulation system
Control System	: Programmable temperature control with digital display
Parts	: PID, SSR, thermocouple, temperature elements etc.
Material	: Stainless steel, Zirconia



PROGRAMMABLE MUFFLE FURNACE (1200 °C)

Maximum Temperature	: 1200 °C
Thermal Insulation	: Four-layer insulation system
Control System	: Programmable temperature control with digital display
Parts	: PID, SSR, thermocouple, temperature elements etc.
Material	: Stainless steel, Zirconia



PROGRAMMABLE MUFFLE FURNACE (1500 °C)

Maximum Temperature	: 1500 °C
Thermal Insulation	: Four-layer insulation system
Control System	: Programmable temperature control with digital display
Parts	: PID, SSR, thermocouple, temperature elements etc.
Material	: Stainless steel, Zirconia



Materials Preparation

CVD FURNACE (1000 °C)

Maximum Temperature	: 1000 °C
Furnace Tube	: High-purity Quartz or Alumina
Heating Zones	: Single or Multi-zone configurations
Thermocouple Type	: K-type (up to 1000 °C)
Gas Handling	: Multi-gas inlet, optional MFC
Controller	: PID programmable controller



CVD FURNACE (1200 °C)

Maximum Temperature	: 1200 °C
Furnace Tube	: High-purity Quartz or Alumina
Heating Zones	: Single or Multi-zone configurations
Thermocouple Type	: R-type or S-type
Gas Handling	: Multi-gas inlet, optional MFC
Controller	: PID programmable controller



CVD FURNACE (1500 °C)

Maximum Temperature	: 1500 °C
Furnace Tube	: High-purity Quartz or Alumina
Heating Zones	: Single or Multi-zone configurations
Thermocouple Type	: R-type or S-type
Gas Handling	: Multi-gas inlet, optional MFC
Controller	: PID programmable controller



Materials Preparation

VACUUM FURNACE (1000 °C)

Maximum Temperature	: 1000 °C
Operating Atmosphere	: Vacuum or inert gas
Vacuum Level	: Up to 10^{-3} mba
Heating Elements	: Graphite / Tungsten
Thermocouple Type:	: Type S, R, or B
Chamber Material	: Alumina / Zirconia / Metal alloys
Controller	: Programmable PID controller
Cooling	: Integrated water-cooling system with active flow sensors and alarms.
Safety	: Vacuum interlocks, over-temperature protection and water flow alarms



VACUUM FURNACE (1200 °C)

Maximum Temperature	: 1200 °C
Operating Atmosphere	: Vacuum or inert gas
Vacuum Level	: Up to 10^{-4} mba
Heating Elements	: Graphite / Tungsten
Thermocouple Type:	: Type S, R, or B
Chamber Material	: Alumina / Zirconia / Metal alloys
Controller	: Programmable PID controller
Cooling	: Integrated water-cooling system with active flow sensors and alarms.
Safety	: Vacuum interlocks, over-temperature protection and water flow alarms



VACUUM FURNACE (1500 °C)

Maximum Temperature	: 1500 °C
Operating Atmosphere	: Vacuum or inert gas
Vacuum Level	: Up to 10^{-5} mba
Heating Elements	: Graphite / Tungsten
Thermocouple Type:	: Type S, R, or B
Chamber Material	: Alumina / Zirconia / Metal alloys
Controller	: Programmable PID controller
Cooling	: Integrated water-cooling system with active flow sensors and alarms.
Safety	: Vacuum interlocks, over-temperature protection and water flow alarms



Materials Preparation

MANUAL COLD PRESS

Working For	: 1 ton
Operation Mode	: Manual hydraulic
Pressure Indication	: High-precision analogue pressure gaug
Die Compatibility	: Standard and custom dies
Frame Construction	: Heavy-duty alloy structure
Moving Parts	: Hardened alloy steel for minimal wear
Surface Finis	: Corrosion-resistant treatment



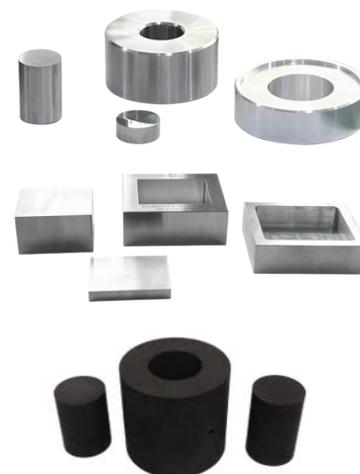
MANUAL HOT PRESS

Maximum Force	: 1 Ton
Maximum Heating Temperature	: 250 °C
Control System	: Electrical resistive heating
Temperature Control	: Digital PID controller
Temperature Accuracy	: ± 2 °C
Construction Material	: High-strength metal alloy and alloy steel



MOLDS & DIES

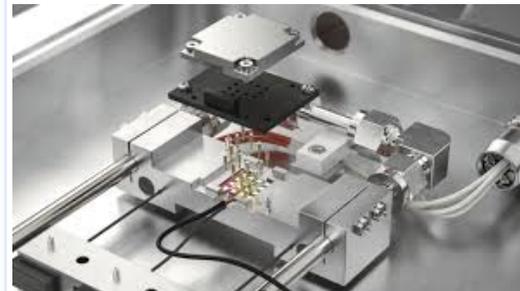
Shapes	: Circular, square, rectangular, custom
Materials	: Stainless steel, hardened alloys, graphite
Accuracy	: High-dimensional accuracy



Material Characterization

Temperature-Dependent Electrical Conductivity Measurement System (Up to 600 °C)

Measurement Configuration	: Four-probe measurement setup
Electrical Contacts	: High-temperature stable electrodes (Pt / Ni)
Chamber Material	: High-purity alumina / ceramic tube
Sample Holder	: Alumina-based fixture with electrical contacts
Maximum Temperature	: 600 °C
Recommended Working Range	: Ambient to 550 °C
Heating Method	: Electrical resistive heating
Heating Zone	: Uniform temperature hot zone
Temperature Accuracy	: ± 1 °C
Heating Rate, and temperature points	: Programmable
Sample Geometry	: Pellet / bar / thin slab



LAB CONSUMABLES

GLASS SAMPLE VIALS

Material	: High-quality borosilicate glass
Size	: As Required
Applications	: Sample storage and chemical handling



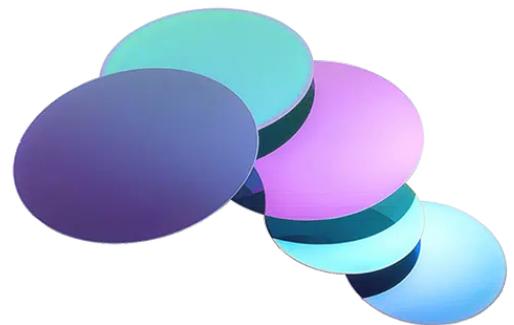
REUSABLE PETRI DISHES

Material	: Glass
Size	: As Required
Applications	: Sample preparation and analysis



HIGH-QUALITY WAFERS

Materials	: Silicon, Quartz, Glass
Surface Quality	: Research-grade polish
Size	: As Required
Applications	: Thin film deposition, device fabrication



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