

leading laboratory solutions provider



Materials & Life Sciences

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Germany **ROHDE & SCHWARZ**
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Product Range

Materials & Life Sciences - Vocational and Training Equipment

Imaging

- Electron Microscopes, SEM, TEM, Dual Beam™ (FIB/SEM), CLEM.
- X-ray Photoelectron Spectroscopy
- Auger Electron Spectroscopy
- SIMS, Secondary Ion Mass Spectrometry
- Atomic Force Microscopes
- 3D Optical Microscopes
- Stylus Profilometers
- Nanomechanical Test Instruments
- Tribometers and Mechanical Testers

Electron Microscopy Sample Preparation Tools

- Rotary and Ultra Microtomes
- Glass Knife Makers
- Freeze Dryer/Critical Point dryer
- Automated TEM Stainer
- Automated Tissue Processor
- Cryo SEM Sample Preparation and Transfer Systems
- Precision Ion Polishing systems
- Advanced Plasma Cleaning System

- Ultrasonic Cutter
- Dimple Grinder/ Disc Grinder System
- Sputter and Carbon Coaters

Fabrication Process

- Electron Beam / FIB lithography
- UV lithography, Mask Aligners, Wafer Bonder
- Plasma Etching and Deposition
- Atomic Layer Deposition/ALD
- Ion Beam Etching and Deposition
- Pulsed Laser , RF, E-Beam, Thermal deposition
- Low and high pressure CVD
- RAPID Thermal Annealing
- Diffusion furnaces
- Cleanroom Designing, Building and Certification
- Coating, Baking, Developing And Etching Wet Process

Test & Measurements

- DC, RF, Cryo Probe Stations
- Signal and Spectrum Analyzers
- Signal Generators & Oscilloscopes
- Network Analyzers and Testers

- Spectroscopic Ellipsometer
- SQUID, PPMS, MPMS systems
- Hall Effect Systems /Magnetometer Systems

Syntheses and Characterization

- Automated flow chemistry and batch chemistry reactor
- Particle Image Velocimetry (PIV) Measurement systems.
- Force tensiometry/Optical tensiometers/Bubble tensiometers.
- Interfacial Shear Rheometry, ISR
- PM-HRRAS (FTIR Reflection Spectroscopy)
- KSV NIMA Langmuir and Langmuir-Blodgett
- KSV NIMA Dip Coaters
- Zeta Potential, Particle Size & Image Analyzers
- BET Surface Area Analyzers
- Chemisorption, TPD/TPR/TPO
- Mercury Porosimetry

Vocational and Training Equipment

Electrical & Electronics Engineering Equipment

- Electrical Machines
- Electrical Power System & PSS
- Motor Control
- Electrical Installation
- Transmission Line
- Analog / Digital Electronic
- Telecommunications
- Microprocessor/Microcontroller
- Power Electronics
- DSP (Digital Signal processing)
- Renewable Energy

Mechanical Engineering

- Thermo Dynamics & HT
- Fluid Mechanics
- AC & Refrigeration
- Material Testing
- Manufacturing Process & Workshop Equipment
- Automotive
- Process Control Engineering

Mechatronics

- Sensor technology
- PLC
- Robotics & Industrial automation
- Process automation & Control

Food Technology

- Laboratory Pasteuriser
- Hydrogenation Unit
- Pressure Homogenizer
- Vacuum Freeze Drier
- Heat Treatment

Chemical Engineering Equipment

- Process Control
- Reactor Design
- Unit Operations
- Petroleum Engineering
- Pilot plant

Civil Engineering

- Material Testing
- Soil Mechanics
- Structure
- Concrete Lab
- Surveying & Transportation lab
- Environment

Agriculture Engineering

- Soil & Water Test Models
- Rainfall Simulator
- Irrigation Displays
- Gauge & Control Structures
- Drain Permeameter

Aviation

- Aerodynamics
- Aviation Maintenance Trainer
- Hydraulics / Pneumatics
- Avionics Trainer
- Power Plant System