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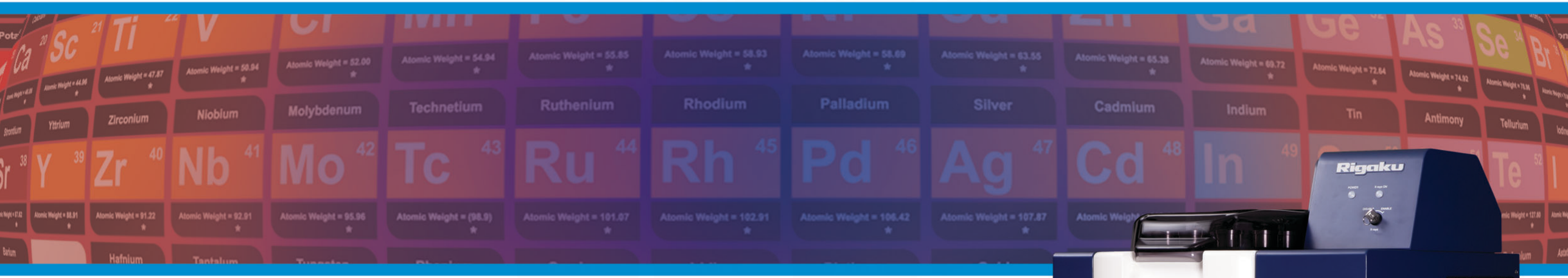
Sequential benchtop WDXRF spectrometer



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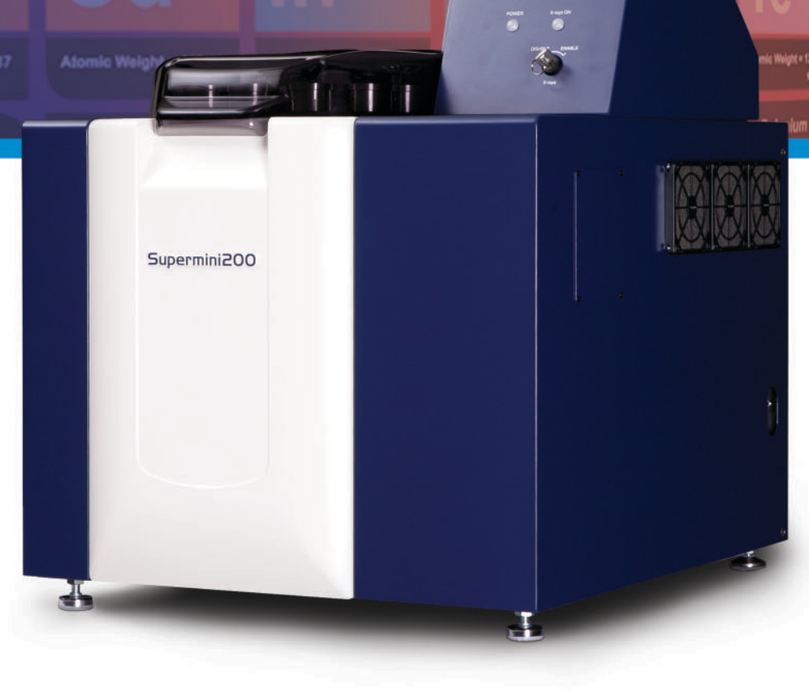
Supermini200

Elemental analysis by X-ray fluorescence



Supermini200

Elemental analysis by X-ray fluorescence

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WDXRF for the toughest environments

Rich hardware features ensure sample measurement flexibility

Solid samples, such as metals, alloys, and pressed powder briquettes, are measured under vacuum. Liquid samples, such as aqueous solutions or oil, are poured into liquid cells, covered with sample film and measured under helium. A 12-sample changer is standard, enabling operators to carry out routine analysis smoothly. For added operator flexibility, during measurement you can replace samples on the changer without interrupting the measurement.

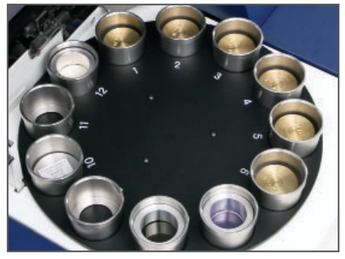
Petroleum and biofuels

Ultra-low detection limits for S, P and Cl, together with the ability to analyze many other elements, make the Supermini200 an attractive analytical tool for petroleum refineries and biofuel plants.

Layers and thin films

Researchers and process engineers utilize the Supermini200 for rapid, non-destructive analysis of composition and thickness of thin films, including multilayer structures such as photovoltaic cells, using Rigaku's advanced thin film FP software.

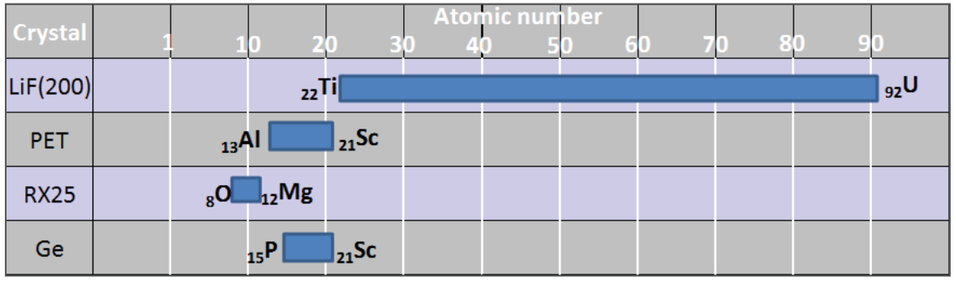
Solid sample cup



Automatic sample changer

Liquid sample cup

The Supermini200 is equipped with a three-crystal exchanger with LiF(200) and PET mounted as standard crystals. RX25 or Ge can be added optionally.



Crystal selection and functionality

Specifications

Specifications

Elemental coverage	Oxygen (O) through uranium (U)
X-ray tube	Pd target
X-ray power	200 W
Generator	50 kV, 4 mA
Cooling	Air cooled
Beam filter	Programmable Zr standard Al optional
Crystals	LiF(200) and PET standard RX25 and Ge optional
Detectors	Flow proportional counter Scintillation counter
Sample size	44 mm diameter maximum 33 mm height maximum
Auto-sampler	12-position turret
Sample spinner	Standard, 30 rpm
Atmosphere	Vacuum standard Helium optional
Vacuum pump	Rotary pump
Helium flush	15 – 65 PSIG, 0.5 l/min
Environment	15 – 28°C temperature <75% relative humidity
Power supply	100 – 120V (50/60 Hz) 15A or 200 – 240V (50/60 Hz) 10A

Software

Operating system	Windows® 7
Options	SQX software with FP Matching library SQX scatter FP method Fused bead correction Line Overlap Correction using Theoretical Intensities (LOCTI) Quant scatter FP

Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries

Coatings

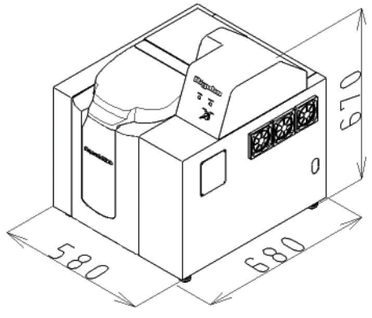
The Supermini200 can determine coating weight and elemental composition of the metallic and non-metallic coating layer, as well as surface treatment on steel or aluminum sheets.

Environment

Plastics with toxic additives, incinerator sludges, and contaminated soils can be analyzed thanks to Rigaku's powerful SQX FP semi-quantitative software.

Dimensions and mass

Width	580 mm
Depth	680 mm
Height	670 mm
Weight	100 kg
Vacuum pump	170 mm (W) x 500 mm (D) x 310 mm (H), 28 kg



Supermini200

Elemental analysis by X-ray fluorescence