

ADVANCED

Analytical Instruments



(XRF) X-Ray - Fluorescence Spectrometer

(OES) Optical Emission Spectrometers

Spectroscopy Products - UV/VIS Spectrophotometer

FT-IR Spectrophotometers

Atomic Emission Spectrometer - QualiAES

Atomic Absorption Spectrophotometers (AAS)

Carbon Sulphur Analyzer - QualiCSA Series

Oxygen Nitrogen & Hydrogen Analyzer - QualiONHA-3000

Oxygen & Nitrogen Analyzer - QualiONA-3000

Original Position Analyzer - QualiOPA

Sample Preparation for Spectroscopy - SPECTRAL Series

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About Qualitest

QUALITEST, together with the WorldofTest.com network, is global suppliers of testing technologies that help customers improve their design, development and manufacturing processes. Our mission is to help our customers design, develop and produce their products faster, with higher quality and at a lower cost. A leader in offering the widest range of precision metal testing technologies on the market, Qualitest leverages extensive industry experience to provide products that determine the mechanical properties of metals including steel, aluminum, alloys, iron, and much more. These solutions include portable and low cost instruments as well as bench-top and sophisticated systems to meet your highest demands. With rapidly growing presence in North America and worldwide, Qualitest maintains offices in USA, Canada, UAE, Asia and Mexico with a wide network of sales and service partners. This global presence ensures that Qualitest customers have fast and efficient access to Qualitest service, support and consulting services to realize optimal return on their testing solution investments. Qualitest offers direct after sales service/calibration support or through our authorized and nationwide A2LA accredited and ISO 17025 certified service centers.

#1 Source for Analytical Instruments

Low Price Guarantee

Qualitest is confident to offer competitive products at the best possible prices. That's why we offer 110% Low Price Guarantee to meet and beat any price for the same level product. We ensure to offer the best value for your investment.

High Level of Standards

Qualitest products are built to meet and exceed latest North American and global standard requirements

Efficient Logistics

Short delivery periods for standard products from our many convenient worldwide distribution centers. Our large volume of shipments helps us to offer the most competitive shipping rates worldwide.

#1 Source for Testing Technologies

Qualitest is recognized as a one stop source for complete quality control lab solutions, as we provide streamlined support for all of your testing requirements without the need of relying on too many sources.

Vendor of Choice for many Fortune500 companies

North American and global Fortune 500 corporations continue to benefit from Qualitest range of products, as we ensure the highest security and assurance for their investment.

Centralized Service & Support Coordination

Managed through our central service dept. we offer efficient customer service support, direct or via our worldwide QualiService authorized network.

Advanced Analytical Instruments

www.WorldofTest.com/analytical-testing-equipment

Qualitest offers the best coverage for analytical research with a wide range of high quality, precise, and reasonably priced analytical instruments on the market. With over 15 years of research and development we are able to provide research labs, schools, and corporate industries products that will facilitate them grow, succeed, and profit with products such as the Carbon Sulphur Analyzer, Oxygen Nitrogen & Hydrogen Analyzer, Oxygen Nitrogen Analyzer, Original Position Analyzer, and many more analytical instruments.

(XRF) X-Ray - Fluorescence Spectrometer

www.WorldofTest.com/xrf-spectrometers-and-metal-analyzers

QUALITEST, is active in providing miners, jewelers, precious metal industries, research laboratories and quality control departments with the most technologically advanced testing equipment, offering the best in product quality and highest performance.

Our 15 years of research and continuous development has lead to the introduction of highly precise and top of the line range of x-ray fluorescence spectrometers. These are widely used in fields such as plating thickness, precious metals (Au, Ag, Pt, Pd, etc), electronic and electric industries. They are also applied in commodity inspection, scientific study, and RoHS detection.

The QualiX series of XRF X-ray fluorescence spectrometer measures the individual component wavelengths of the fluorescent emission produced by a sample when irradiated with X-rays. QualiX X-ray fluorescence spectrometer includes special electronics and software modules to take care that all radiation is properly analyzed in the detector. Our range of QualiX XRF X-ray fluorescence spectrometers covers wide range of application and industries.



QualiX-1000 - Portable XRF Analyzer

www.WorldofTest.com/portable-xrf-analyzer-qualix-1000

QualiX-1000 is designed according to the applications of on-site X-ray analysis in the field, featuring a small and light body, which can be held in-hands by virtually anyone when measuring. Digital multi-channel technology enables the instrument to have better detection limit, better stability, and wider application fields. QualiX-1000 can be widely used for various kinds of alloy analysis. The analytical precision is 2 to 3 times more precise than common alloy analyzer.



QualiX-G1 - XRF X-Ray Fluorescence Spectrometer

www.WorldofTest.com/xrf-x-ray-fluorescence-spectrometer-qualix-g1

QualiX-G1 is specially designed for precious metal detection. It has unique Configuration, fully functional software and user friendly interface. It is used for the content determination of precious metals Au, Ag and all kind of ornaments. Mainly used in precious metal and ornament processing industries, Banks, Ornament sale and detection institutes.



QualiX-G2 - XRF X-Ray Fluorescence Spectrometer

www.WorldofTest.com/x-ray-fluorescence-spectrometer-qualix-g2

QualiX-G2 meets the demands of precious metal testing by virtue of its unique configuration, full-functional test software and user-friendly operation interface, makes test easier and simpler with its humanized design. QualiX-G2 Precious Metal Analyzer uses efficient proportional counter. With fair and reasonable price positioning, brand new and fashionable appearance, humanized and convenient operation, it fully meets the requirements of precious metal analysis and plating thickness measurement.



QualiX-G3 - XRF X-Ray Fluorescence Spectrometer

www.WorldofTest.com/x-ray-fluorescence-spectrometer-qualix-g3

QualiX-G3 is a new generation touch screen precious metal analyzer of Qualitest, which facilitates the precious metal detection with its unique configuration, powerful software and user-friendly interface. It is also used for plating thickness measurement and detecting the content of Au, Pt, Ag, etc. in jewelries and ornaments.



QualiX-M1 - XRF X-ray Fluorescence Spectrometer

www.WorldofTest.com/x-ray-fluorescence-spectrometer-qualix-m1

QualiX-M1 is a desktop model spectrometer specially designed for geology and mining industries. It is equipped with globally advanced analysis technology. QualiX-M1 efficiently reduces testing interference and improves energy resolution of Mg, Al, Si, P and other elements in geology and minerals. The instrument is multi-functional and meets international standards.



QualiX-P1 - XRF X-Ray Fluorescence Spectrometer

www.WorldofTest.com/energy-dispersive-xrf-qualix-p1

QualiX-P1 is excellent for precious metal analysis. It is Ideally applied to Electronic / Electrical appliances and Ornament processing. It has built-in high resolution camera which is convenient for users to analyze samples at any moment



QualiX-R1 - XRF X-Ray Fluorescence Spectrometer

www.WorldofTest.com/xrf-x-ray-fluorescence-spectrometer-qualix-r1

QualiX-R1 is specially designed for RoHS substance detection. Good results can be obtained when testing noble metals such as Au, Ag, Pt, and Pd. It is useful to test plating thickness. Automatic collimator and filter switch makes the operation more convenient. Delicate moveable platform makes the measurement more accurate. Added signal-to- Noise enhancer (SNE) gives extra guarantees of accuracy.



QualiX-S1 - XRF X-Ray Fluorescence Spectrometer

www.WorldofTest.com/x-ray-fluorescence-spectrometer-qualix-s1

To meet the demand of elemental analysis of petrochemicals in the current market, Qualitest launched QualiX-S1 x-ray fluorescence spectrometer. QualiX-S1 uses the physical test method, i.e. X-ray fluorescence spectrometry, to measure the content of the sulfur present in the petrochemicals. Its features include: rapid, precise, minimum human error and minimum sample preparation, QualiX-S1 is crucial to determine whether the petrochemical products comply with the environmental regulations.

Advanced Analytical Instruments



QualiX-S2 - XRF X-ray Fluorescence Spectrometer

www.WorldofTest.com/xrf-x-ray-fluorescence-spectrometer-qualix-s2

QualiX-S2 is specially designed for RoHS substance detection (Cd, Pb, Cr, Hg, and Br) and full element analysis- sulfur to uranium. QualiX-S2 is a new spectrometer with better performance. Having all the five characteristics: rapidness, accuracy, non-destructive, direct viewing, environment friendly and also adopts patented product SNE to increase the accuracy of testing results. Sample chamber with newly added automatic switch makes operation more convenient and the newly designed automatic sample platform assures accurate testing.



QualiX-T1 - XRF X-ray Fluorescence Spectrometer

www.WorldofTest.com/xrf-x-ray-fluorescence-spectrometer-qualix-t1

QualiX-T1 is tailor made for rapid and non-destructive detection of plating thickness and elemental analysis. QualiX-T1 adopts the top lightening structure, 2-D movable sample platform and laser positioning system, which enable the possibility of the point-by-point detection of plating thickness and elemental content on large-size parts. It is equipped with high resolution detector to improve analysis accuracy. QualiX-T1 has the state of the art outlook, structure and color design.



QualiX-W1- Wavelength Dispersive Spectrometer (WDXRF)

www.WorldofTest.com/wavelength-dispersive-spectrometer-qualix-w1

QualiX-W1 wavelength dispersive spectrometer is a high precision analytical instrument, being able to analyze contents of several elements in a substance precisely, quantitatively and simultaneously. QualiX-W1 wavelength dispersive spectrometer features for 10 fixed light diffraction channels, 10 elements being analyzed simultaneously. Elements are arbitrary from Na to U as required by the users. QualiX-W1 is an ideal quality control choice for large and medium-sized enterprises, it is widely used in cement, steel, powder metallurgy, coal, petroleum, kaolin, glass, refractory materials and environment protection industries.

OES Optical Emission Spectrometer – QualiSpark Series

www.WorldofTest.com/optical-emission-spectrometer

The optical emission spectroscopy line from Qualitest features some of the most robust and efficient OES spectrometers. This line of OES spectrometers serves a wide range of uses. From the more traditional use of optical emission spectroscopy of analysis of unknown compounds and elements to elemental analysis of lubricating oils, transmission fluids, fuels, hydraulic fluids and much more this line of optical emission spectrometers can do it all.



OES Optical Emission Spectrometer – QualiSpark 750/1000

www.WorldofTest.com/optical-emission-spectrometer-qualispark-7501000

QualiSpark 750 and QualiSpark1000 are based on original position single spark discharge analysis technology which improves the precision and efficiency of the instrument. Veneer-pattern lens frame cleans and reduces optical chamber pollution. Real-time monitor system is designed on the base of ARM9. Solid-state adsorption trap that prevents optical chamber pollution resulting from oil/gas, improving long-term stability. Green background light quickens the response speed and improves short-term precision. Copper-base spark table, enhances heat emission and firmness. Full digital solid-state spark source with adjustable spark power and frequency, widely used with a variety of materials. Variable delay integration technology debases the background interference. Negative high-voltage power supply with high-precision PMT, which enables a technique that is continuously adjustable by software to improve its dynamic range



OES Optical Emission Spectrometer – QualiSpark 5000

www.WorldofTest.com/optical-emission-spectrometer-qualispark-5000

The newly designed coaxial spark table uses an internal gas circuit to decrease the consumption of argon, reduces the residual metal dust inside the spark table, and improves the stability of the instrument, which vastly improves the resulting data analysis. The constant temperature system prevents the optical lens from fogging. Specially designed discharge chamber ensures the best discharge conditions.



OES Optical Emission Spectrometer – QualiSpark 5000 Plus

www.WorldofTest.com/optical-emission-spectrometer-qualispark-5000-plus

Features:

- Full digital solid-state spark source with adjustable spark power and frequency can be used to analyze different kinds of materials
- Constant temperature and ringed airflow ensure the stability of the instrument with continuous sparks, which improves upon traditional water cooling techniques
- Safeguard prevents the instrument from unsafe spark
- Spark table with cupreous base is easy to disassemble and clean
- Accommodates particular fittings to analyze samples with multifarious shapes (such as cake-shaped, club-shaped, and line-shaped)
- The isolation valve with one lens can prevent pollution caused by routine maintenance, and the lens can be easily replaced
- Specially designed discharge chamber ensures the best discharge conditions

Advanced Analytical Instruments

Spectroscopy Products - UV/VIS Spectrophotometer

www.WorldofTest.com/uvvis-spectrophotometer



UV-2100 UV/VIS Spectrophotometer

www.WorldofTest.com/uv-2100-uvvis-spectrophotometer

Features:

- Double beam, fully automated scanning system.
- Compatible PC controlled, rich analytical software.
- Wavelength Scan: Scanning sample spectra in any range within 190-900nm.
- Three scanning speed: Fast, Middle and Slow selectable, with Min. sampling interval of 0.04nm.
- Data processing function of derivative spectra and smoothing, peak picking, spectrum expansion and superposition and other arithmetic calculation.
- Fixed wavelength measurement: Maximum of 10 wavelengths can be set at the same time, arithmetic calculation between wavelengths can be done.
- Kinetic measurement: Wavelengths and sampling interval selectable, activity calculation available.
- Quantitation: Standard factor method, standard contrast method, 2-wavelength method, and 3-wavelength method etc.



UV/VIS Spectrophotometer - UV-2601 Spectrometer

www.WorldofTest.com/uv-2601-uvvis-spectrophotometer

Features:

- Wide wavelength range, satisfying requirements of various fields.
- Five options for spectral bandwidth selection, 5nm, 4nm, 2nm and 1nm, made according to customer's need and satisfying the requirements of pharmacopoeia
- Fully automated design, realizing the simplest measurement
- Optimized optics and large scale integrated circuits design, light source and receiver from world famous manufacturer all add up to high performance and reliability
- Rich measurement methods, wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method etc., meet different measurement requirements.
- Automatic 10mm 8-cell holder, changeable to automatic 5mm-50mm 4-position cell holder for more choices.



UV-1800 UV/VIS Spectrophotometer

www.WorldofTest.com/uv-1800-uvvis-spectrophotometer

Features:

- Scan type spectrophotometer with wide wavelength range, satisfying requirement of various fields.
- Three options for spectral bandwidth selection: 5nm, 2nm, 1nm, made according to customer's need and satisfy the requirements of pharmacopoeia.
- Manual 4-cell holder accommodates long path length cells up to 100mm.
- Optimized optics and electronics design, light source and detectors from the world famous manufacturer ensure high performance and reliability.
- Rich measurement methods: wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method etc., meet different measurement requirement.



UV-1601 UV/VIS Spectrophotometer

www.WorldofTest.com/uv-spectrophotometer-uv-1601-spectrometer

Features:

- Wide wavelength range, satisfying requirements of various fields.
- The split-beam ratio monitoring system provides accurate measurements and enhances baseline stability.
- Four options for spectral bandwidth selection, 5nm, 4nm, 2nm and 1nm, made according to customer's needs and satisfying the requirements of pharmacopoeia.
- Fully automated design, realizing easy measurement.
- Optimized optics and large scale integrated circuits design, light source and receiver from world famous manufacturer all add up to high performance and reliability.
- Rich measurement methods, wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method etc., meet different measurement requirements.
- Automatic 10mm 8-cell holder, changeable to automatic 5mm-50mm 4-position cell holder for more choices.



UV/VIS Spectrophotometer - UV/VIS-723G Spectrometer

www.WorldofTest.com/uvvis-spectrophotometer-uvvis-723g-spectrometer

Features:

- Single beam wavelength scanning in whole wavelength range of 320-1100nm
- Three options for spectral bandwidth selection: 5nm, 2nm and 1nm, made according to customer's need and satisfy the requirements of pharmacopoeia
- Standard manual 4-cell holder accommodates cells from 5-50mm and changeable long path length cell up to 100mm
- Optimized optics and electronics design, light source and detectors from the world famous manufacturer ensure high performance and reliability
- Rich measurement methods: wavelength scan, time scan, multi-wavelength determination, multi-order derivative determination, double-wavelength method and triple-wavelength method, etc., meet different measurement requirement.



VIS-7220 / 7220G & UV-9100 / 9200 UV/VIS Spectrophotometer

www.WorldofTest.com/vis-7220-7220g-uv-9100-9200-uvvis-spectrophotometer

Features:

- 2nm spectral bandwidth for accuracy.
- Controlled by microcomputer, LED display.
- Working curve with three points used for calculating concentrations.
- Parallel interface is available for printing.
- Easy operation, high flexibility.
- Compact, rugged construction and modern design.

Advanced Analytical Instruments

FT-IR Spectrophotometers

www.WorldofTest.com/ft-ir-spectrophotometer

FT-IR Spectrophotometer - F-510/520 Series

FT-IR Spectrophotometer - F-510/520 Series available in two models are designed to meet the high validation standards set by QA/QC, method development and analytical service laboratories. All systems in the range offer fast throughput and rapid access to reliable and dependable FTIR results, day in and day out.



Atomic Emission Spectrometer – QualiAES

www.WorldofTest.com/atomic-emission-spectrometer

The Atomic Emission Spectrometer - QualiAES is mainly used in the quantitative analysis of metallic element and partial non-metallic element in liquid sample (including the solid sample which can convert into a solution by chemical processing). The solution is placed into a plasma torch in the form of an aerosol. The sample will be evaporated and stimulated, and it will emit light with the characteristic wavelengths of its elements. Its spectral intensity is received by photoelectric element, converted to electrical signals and recorded by a beam-splitting by beam-splitting system.



The Atomic Emission Spectrometer - QualiAES has good stability, low limit of detection (LOD), rapid analysis, low operation cost, easy maintenance, strong anti-interference capacity and many more features.

Atomic Absorption Spectrophotometer (AAS)

www.WorldofTest.com/atomic-absorption-spectrometer

Atomic absorption spectroscopy (AAS) determines the presence of metals in liquid samples. Metals include Fe, Cu, Al, Pb, Ca, Zn, Cd and many more. It also measures the concentrations of metals in the samples. Typical concentrations range in the low mg/L range. In their elemental form, metals will absorb ultraviolet light when they are excited by heat. Each metal has a characteristic wavelength that will be absorbed. The AAS instrument looks for a particular metal by focusing a beam of uv light at a specific wavelength through a flame and into a detector. The sample of interest is aspirated into the flame. If that metal is present in the sample, it will absorb some of the light, thus reducing its intensity. These instruments measure the change in intensity. A computer data system converts the change in intensity into an absorbance.



Atomic Absorption Spectrophotometer - WFX-110/120/130 AAS Spectrometer

www.WorldofTest.com/wfx-110a120a130a-aas-spectrometer

The Atomic Absorption Spectrophotometer - WFX-110/120/130 AAS Spectrometer detects metals that include Fe, Cu, Al, Pb, Ca, Zn, Cd and many more. It also measures the concentrations of metals in the samples. Typical concentrations range in the low mg/L range. In their elemental form, metals will absorb ultraviolet light when they are excited by heat. Each metal has a characteristic wavelength that will be absorbed. The AAS instrument looks for a particular metal by focusing a beam of UV light at a specific wavelength through a flame and into a detector. The sample of interest is aspirated into the flame. If that metal is present in the sample, it will absorb some of the light, thus reducing its intensity. These instruments measure the change in intensity. A computer data system converts the change in intensity into an absorbance.

Atomic Absorption Spectrophotometer - WFX-210 AAS Spectrometer

www.WorldofTest.com/wfx-210-aas-spectrometer

Features:

- The patented flame analysis technique adopting oxygen-rich air-acetylene flame as the substitution for nitrous oxide-acetylene flame for high temperature element analyses.
- Automatic hollow cathode lamp changeover. The high performance HCL can be used directly.
- Auto-changeover and position optimization of integrated flame/graphite furnace atomizer.
- Light-controlled graphite furnace power supplier, adopting FUZZY-PID temperature control technique and dual curve working mode, ensures fast heating, accurate and stable temperature control and good temperature reproducibility. Temperature auto-correction function provided.
- Graphite furnace with pneumatic control and pressure lock ensures constant pressure and reliable contact.
- High accuracy and reproducibility of the graphite furnace auto-sampler, realizing fully automation of graphite furnace analysis.
- Auto-ignition, automatic spectral bandwidth selection.
- Fully automated wavelength scanning and peaking
- Automatic setting of Gas flow
- Perfect safety protection measures, alarm and automatic safety protection to fuel gas leakage, air pressure deficiency and abnormal flame extinction; spray chamber made of explosion-proof material, all-titanium burner and explosion-proof stopper for flame analyses; alarm and protection function to argon pressure deficiency, insufficient cooling water supply, over-heating and over-current etc. in graphite furnace analyses.
- Adopting large-scale programmable logic array and Inter IC bus technique and highly reliable adapters for electric design.



Carbon Sulphur Analyzer - QualiCSA Series

www.WorldofTest.com/carbon-sulphur-analyzer

Carbon Sulphur Analyzer - QualiCSA-2800

The Carbon Sulphur Analyzer - QualiCSA-2800 combines the latest combustion technology, which can quickly analyze simultaneously steel, cast iron, copper, alloys, ores, cement, ceramics, carbon compounds, minerals, sand, glass and other solid materials of carbon and sulfur.

Carbon Sulphur Analyzer - QualiCSA-3000

The Carbon Sulphur Analyzer - QualiCSA-3000 is a new product with two furnaces used for simultaneous carbon, sulfur determination in ferrous and non-ferrous metals, semiconductors, electronic materials, rare earth materials, ores, ceramics, coal, graphite, and some organic materials. The Carbon Sulphur Analyzer - QualiCSA-3000 series are perfect for both production and research environments. The Carbon Sulphur Analyzer - QualiCSA-3000 series provides fast and accurate results for samples of all sizes by lower detection limits and expanded instrument ranges. The Carbon Sulphur Analyzer - QualiCSA-3000 is a high-end, modular device equipped with two sets of sample extraction unit, namely high frequency induction furnace and tubular resistance furnace. The analyzer has a wide measuring range, and it is suitable for a variety of samples.



Advanced Analytical Instruments



Oxygen Nitrogen & Hydrogen Analyzer - QualiONHA-3000

www.WorldofTest.com/oxygen-nitrogen-hydrogen-analyzer

Oxygen Nitrogen & Hydrogen Analyzer - QualiONHA-3000 series is a new product, and it is used for Oxygen, Nitrogen and Hydrogen determination in ferrous and non-ferrous metals, rare earth materials, alloy, and some other inorganic materials.



Oxygen Nitrogen Analyzer – Quali-ONA-3000

www.WorldofTest.com/oxygen-nitrogen-analyzer-qualiona-3000

Quali-ONA-3000 Series Oxygen/Nitrogen Analyzer is used for oxygen, nitrogen determination in ferrous and non-ferrous metals, rare earth materials, alloy, and some other inorganic materials.



Original Position Analyzer – QualiOPA

www.WorldofTest.com/original-position-analyzer

The Original Position Analyzer - QualiOPA, with the functions of analyzing the degree of segregation, distribution and quantity of inclusions, surface porosity and composition of metal, etc., can quickly analyze the elementary composition and state of a large area of the metallic materials. Compared with traditional technology, it is characterized with many advantages such as easy sample preparation, accurate quantitative determination and rapid analysis. It is widely applied in the fields like metallurgy.

The instrument relates to a new analysis method to determine chemical compositions and states of metal materials.

Sample Preparation for Spectroscopy - SPECTRAL Series

www.WorldofTest.com/sample-preparation-spectroscopy

For the preparation of solid metal samples Qualitest offers manual and automatic sample preparation machines - from the small table-top disc surface grinder to automatic milling machine. With our Sample Preparation Machines, you feel yourself ready for the analysis.



Sample Preparation for Spectroscopy - SPECTRAL 250

SPECTRAL 250 is a Table-top Surface Grinder for spectroscopic sample preparation of steels and irons. It's a compact design with vibration-free construction makes it a practical instrument to work with. It has robust steel housing, strong 1,1 kW motor, working disc of 250 mm dia., a rapid stop of the turning disc, suction created by special design retaining the abrasive paper on the disk (no need to glue or fix), disc covered halfway by lid allowing grinding only on a segment, spark trap, dust box and standard outlet for exhaust, easy to clean and ready for operation. 110/230 V, 1-phase, 50 Hz.



Sample Preparation for Spectroscopy - SPECTRAL 350

SPECTRAL 350 Dual Disc Grinder is used to achieve excellent precision flat surfaces of iron and steel samples for spectroscopic analysis. The robust and vibration-free construction has been designed for continuous operation at high sample throughput.

SPECTRAL 350 has two independently driven grinding discs of 350 mm which are dynamically balanced for smooth running and the speed of each disc can be set either to 1400 RPM or 2800 RPM. Coarse and fine grinding on two separate grinding discs can be done on the same machine. Due to its special design, grinding paper is sucked to the grinding disc which does not require any glue. SPECTRAL 350 can be equipped with a strong aspiration device in addition to its special design, increasing vacuum for suction which retains the abrasive paper on the disc, eliminating the requirement for any adhesives or fixing attachments.



Sample Preparation for Spectroscopy - SPECTRAL AG

Spectral AG is an automatic grinding machine, for fast spectroscopic sample preparation of iron and steel samples, bench top compact design, Programmable with colored 7" HMI touch screen control, with Siemens PLC control unit, closed housing, max. safety provided with interlocking switch, large working space with LED lighting, automatic sample feeding with adjustable fine speed. Controlled material removal with digital setting of grinding depth with accuracy of 0,01 mm., high torque 2,2 kW grinding motor, with 2800 rpm speed to obtain optimum surfaces on different materials, all parameters on colored LCD display, ready for operation.



Sample Preparation for Spectroscopy - SPECTRAL PG

SPECTRAL PG is a compact bench-top pendulum grinder for fast grinding of iron and steel samples for spectroscopic analysis. It has a simple and reliable design with low noise and dust generation levels. It is completely enclosed and dust-proof with LED spot light. The front cover can be completely opened for easy access to all sides. SPECTRAL PG is suitable for wet and dry grinding with minimum maintenance required which is mainly cleaning. It is possible to attach an external dust exhaustor to the standard outlet at the rear side. The grinding arm is placed just in front of the machine making it ergonomic and easy to handle. SPECTRAL PG is especially suitable to grind hard materials like white cast irons. It is also possible to prepare other materials by using special stone cup wheels which are easy to exchange.



Sample Preparation for Spectroscopy - SPECTRAL MM

An automatic milling machine for fast milling of non-ferrous and steel samples for emission and X-ray spectrometer analysis. Automatic fine surface milling guarantees the highest level of reproducibility through automatic processing of the specimen. SPECTRAL MM has a robust and reliable design with low noise and emission levels. It is completely enclosed and sound-insulated with LED spot-light. The front cover can be completely opened for easy access to all sides. The unit is equipped with automatic sample feed with fine speed control. Fast advance and reverse are available. All important parameters of the milling process like feed rate, milling depth, spindle speed are adjustable on the touch screen LCD.



Sample Preparation for Spectroscopy - SPECTRAL MMax

Spectral MMax is a fully automatic fine surface milling machine, for preparation of steels, cast iron and non-ferrous metal samples for OES and XRF analysis, Programmable with colored 10 inch HMI touch screen control, Siemens PLC control unit, closed housing, max. safety provided with interlocking switch, large working space with LED lighting, chip container, special clamping device suitable for all shapes of sample forms, (cylindrical, round, oval, etc.), for samples up to 60 mm dia., with max. 65 HRC, integrated air cooling system, automatic height positioning of the milling head for operation.

Qualitest also offers an extensive range of testing technologies for Steel, Aluminum and other Metals.

Our Metal Testing Technologies include:

- Universal Testing Machines
- Sample Preparation Equipment
- Metallography Equipment
- Hardness Testers
- Impact Testers
- Resonant Fatigue Testers
- Surface Roughness Testers
- Ultrasonic Thickness Gauges
- Spectrometers
- XRF Analyzers
- Sheet Metal Testers
- much more

Qualitest Locations:

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Asia: Hong Kong

India: Mumbai

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