About Torontech

The Torontech group is proud to be a Canadian corporation headquartered in Toronto; the commercial, technical, and economic hub of Canada. With offices and an extensive network in the USA as well as other international markets, we are uniquely prepared to provide turn-key solutions for our customers and clients around the globe. At Torontech our quality and variety of products support many industries. Our advantage is sustainable growth in our product lines and providing the best products.

Creating comprehensive solutions for our clients has always been a core value of our company. From sales, to order execution, and post-sales support; every staff member is here to help you choose and implement the solution that best suits your unique requirements.

Since inception, we have succeeded in only offering quality manufactured products that are trusted worldwide. We offer the best value for your investment and provide world-class support. In the past few years, Torontech has grown remarkably in numerous industries, but especially in Analytical Instruments. The growth has given us the opportunity to serve many well-known global and North American corporations including Sikorsky Aircraft Corporation. Our growing client base participates in a breadth of industries from aerospace, to manufacturing, to mineral processing, and we serve many colleges, universities, and government organizations.

General Applications

Analytical instruments are very important in today’s world. They are used by all types of organizations to analyze, identify qualitatively and quantitatively the samples. This encompasses many instruments for the industrial, manufacturing, medical, laboratory, research and others uses.

Our range of products include atomic emission spectrometers (AES), atomic absorption spectrometers (AAS), optical emission spectrometers (OES), x-ray fluorescence spectrometers (XRF), chromatography instruments including high Performance liquid chromatography (HPLC), water purification systems, and many other high quality instruments.
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Analytical Instruments

Spectroscopy

www.Torontech.com/analytical-instruments/spectroscopy

Spectroscopy has a wide area of application in many fields. Spectroscopy is based on the concept of Energy = frequency x Planck (E=ʎh) constant which is used to study matter. Spectrometry is the technique which is used to analyze the concentration of elements in the sample being tested. Our products are able to analyze carbon, aluminum, sulfur, gold, silver, magnesium, steel, alloys and many other elements. We can also calibrate our products to account for elements like oxygen which are present in many compounds by calibrating with a known sample.

EDXpert / Spectra XRF Analyzers

www.Torontech.com/analytical-instruments/spectroscopy/xrf-analyzer-xrf-spectrometers

Torontech is the source for an extended line of top quality, advanced and yet competitively priced XRF Analyzers, both in handheld as well as table-top configurations. This popular range of XRF Analyzers with the minimal need of calibration and maintenance, combined with our extended global warranty, offers accuracy, reliability, and ease of operation for your complete XRF Spectroscopy applications.

Handheld XRF Analyzer - EDXpert

The Handheld XRF Analyzer - EDXpert Portable XRF Analyzer is designed to be an intuitive and user friendly system powered by a 7.2 Vdc Li-ion battery. The key advantage of our Handheld XRF Analyzer – EDXpert Portable XRF Analyzers, and what sets us apart from the competition, is that these units are calibrated to be used accurately, straight out of the box without the need for frequent calibration.

Handheld XRF Analyzer EDXpert - II

The EDXpert™ II XRF analyzer operates at a high voltage of 40 kV (can be set for up to 50 kV), and has a detectable range of Cl to U. The light element option has a detectable range from Mg to U.

XRF Mini Spectrometer-Spectra 500

The Spectra 500 is a powerful energy-dispersive X-ray fluorescence (EDXRF) alloys analyzer. Predominantly used in the jewellery industry, it is designed to provide accurate analysis without the bulk of larger EDXRF spectrometers.

XRF Mobile Spectrometer - Spectra 800

XRF Mobile Spectrometer - Spectra 800 is for testing all kinds of materials. Spectra 800 analyzer is indispensable for testing soil and petrochemicals and any other applications, where testing of liquids and powders on site is required.

XRF Spectra 1000

The Spectra 1000 is a desktop energy-dispersive X-ray fluorescence (EDXRF) analyzer with an extended element range from Na (Z=11) to U (Z=92). The system engineered into the Spectra 1000 enables the high resolution detection of light elements.

XRF Spectra 1300 Standard Spectrometer

The Spectra 1300 is a desktop energy dispersive X-ray fluorescence (EDXRF) analyzer. The unit is able to perform qualitative and quantitative analysis of the elemental composition of metal alloys, liquids, foods and biological samples, powder assays, as well as samples deposited on surfaces or filters.
The Spectra 1300 is a desktop energy dispersive X-ray fluorescence (EDXRF) analyzer. The unit is able to perform qualitative and quantitative analysis, including uranium (Z=92). The system engineered into the Spectra 1000 enables the high resolution detection of light elements.

The Spectra 1000 is a desktop energy-dispersive X-ray fluorescence (EDXRF) analyzer with an extended element range from sodium (Z=11) to uranium (Z=92). It is particularly useful for applications in the petrochemicals industry and any other applications, where testing of liquids and powders on-site is required.

XRF Mobile Spectrometer - Spectra 800


Handheld XRF Analyzer - EDXpert


Atomic emission spectroscopy (AES) measures light that is emitted from flame excited samples. It is generally used in the chemical and biochemical industry used for quantitative analysis.

AES Inductively Coupled Plasma Analyzer 700


AES Inductively Coupled Plasma Analyzer 700 works on the principles of atomic emission spectroscopy. Its applications range from steel, geology, metallurgy, thulium, plating, cement, oil, chemical, environmental detection, metals, sanitation, food, geoponics, scientific research, health, college mine factory, oil, water quality, and many others.

AES Carbon & Sulfur Infrared Analyzer 1000


The Infrared Carbon & Sulfur Spectrometer is a high frequency automatic inductive combustion furnace which can measure the carbon and sulphur content in cement, steel alloys, non-ferrous metals, other materials and alloys.

AES Carbon & Sulfur Infrared Analyzer 2000


The carbon and sulfur analysis is capable of both the ultra-low and higher content analysis. The high-speed sampling and the dynamic data analysis procedure improves the analysis sensitivity and accuracy rating.

AAS Atomic Absorption Analyzer

www.Torontech.com/analytical-instruments/spectroscopy/aas-atomic-absorption-analyzer

Atomic absorption spectroscopy (AAS) measures light that is absorbed due to lamp and atomization of excited samples. Generally it is used to analyze solutions or solid samples for metals which account for more than 70 elements.

AAS Atomic Absorption Analyzer 1000

www.Torontech.com/analytical-instruments/spectroscopy/aas-atomic-absorption-analyzer-1000

The atomic absorption spectrometer 1000 is completely controlled automatically by PC and it is flexible with selecting the atomizer, whether it may be flame (included) or graphite furnace (optional). Efficient atomization system enables a higher sensitivity.
**Analytical Instruments**

**AAS Atomic Absorption Analyzer 2000**

The atomic absorption spectrometer 2000 offers the best safety and protection against the burner, leakage of the gas, under voltage of air and the abnormal flameout.

**OES Optical Emission Analyzer**
www.Torontech.com/analytical-instruments/spectroscopy/oes-optical-emission-analyzer

Optical emission spectroscopy (OES), plasma, spectroscopy & spark or arc emission all work on similar principle where either plasma, arc or spark is used to excite the sample by heating it and detecting the emitted spectrum.

**Visible Spectrophotometer**
www.Torontech.com/analytical-instruments/spectroscopy/visible-spectrophotometer

Visible Spectrophotometer can be used for both quantitative and qualitative analysis using the visible range of the electromagnetic spectrum. It is a highly recommended unit in any laboratory which deals with medical industry more specifically in treatment and health of the public, chemistry, biochemistry, quality control, safety, environmental and university facilities.

**Fourier Transform Infrared Spectroscopy – FTIR**

Fourier Transform Infrared Spectroscopy (FTIR) is a technique used to obtain an infrared spectrum of absorption, emission, photoconductivity or Raman scattering of a solid, liquid or gas.

**Ultra UV-VIS Spectrophotometer – 3000 Series**
www.Torontech.com/analytical-instruments/spectroscopy/ultra-uv-vis-spectrophotometer-3000-series

Ultra UV-Vis spectrophotometer 3000 Series with high quality grating, reduces stray light level, and improves test accuracy & linear range.

**Ultra UV-VIS Spectrophotometer – 6000 Series**
www.Torontech.com/analytical-instruments/spectroscopy/ultra-uv-vis-spectrophotometer-6000-series

Ultra-6000 Series contains high-performance Deuterium and tungsten lamps, owning longer service life and small maintenance cost.

**Chromatography**
www.Torontech.com/analytical-instruments/chromatography

Chromatography is a technique used for separating the components, or solutes, of a mixture on the basis of the relative amounts of each solute distributed between a moving fluid stream, called the mobile phase, and a contiguous stationary phase. The mobile phase may be either a liquid or a gas, while the stationary phase is either a solid or a liquid.

**HPLC High Performance Liquid Chromatography Series**

High Performance Liquid Chromatography (HPLC) is used for applications in the analytical chemistry, biochemistry and many other industries.

**Gas Chromatograph TT-GC9000**
www.Torontech.com/analytical-instruments/chromatography/gas-chromatograph-tt-gc9000

Gas chromatography carries out the quantitative analysis and peculiar smell testing for residual solvent on food packaging cases after printing. It also tests the pureness and quality of organic solvents.
Analytical Instruments

Water Purification Equipment / Water Purifier
www.Torontech.com/analytical-instruments/water-purification-equipment-water-purifier
Water Purification Equipment / Water Purification System from Torontech offers tap water inlet, integrating various advanced water purification technology and process control methods, our water purification systems can completely meet, even exceed, the pure water standard of ASTM, NCCLS Class I etc.

Water Purification / Water Purifier - Alpha Series
Alpha Series Water Purifier has an automatic microcomputer controlling system with multi-menu operation and display. It automatically detects fault and performs diagnostic.

Water Purification / Water Purifier - Beta Series
Beta Series Water Purifier displays consumables residual life and informs the user to replace consumables. It comes with on-line water quality monitoring system which monitor the inlet, reverse osmosis (RO) and ultra-pure water.

Optical and Laboratory Instruments
www.Torontech.com/analytical-instruments/optical-and-laboratory-instruments
Optical Instruments are an excellent tool to detect simple properties of samples. Torontech offers an auto Melting Point Apparatus is integrated with photoelectric detection, digital temperature display and automatic display of initial and final melts. Automatic polarimeter includes a built-in peltier which is a precise temperature control system with automatic photoelectric inspection technology. Automatic refractometer includes a high-performance CCD. Automatic refractometer can accurately and efficiently complete sample analysis and tests. Among our general laboratory products, Torontech offers Refrigerated and Heating Circulators.

Refrigerated and Heating Circulators
Refrigerated and Heating Circulator is controlled by a PID temperature control system which controls the temperature and produces stable and accurately fast results.

Auto Video Melting Point Apparatus
Torontech's series of TT-MPA Automatic Video Melting Point Apparatus perfectly integrate video technology into melting point measuring. It not only provides users with reliable melting point test result, but also intuitively displays temperature curve and real-time video image, and achieves the function of save, video replay etc.

Automatic Refractometer
Automatic refractometer can accurately and efficiently complete sample analysis and tests. Automatic refractometer can automatically measure the refractive index (nD) of transparent or translucent liquids and mass fraction (Brix) of sugar solution which is accurate, reliable, quick and easy for operation.

Automatic Polarimeter
Automatic Polarimeter includes a built-in peltier which is a precise temperature control system with automatic photoelectric inspection technology. It's based on the application of the optical rotation and by determining this characteristic the density, content and purity of the sample can be found. Its common uses include medicine, petroleum, food, chemicals, universities and research institutes.
Please contact us for your nearest local office or distributor