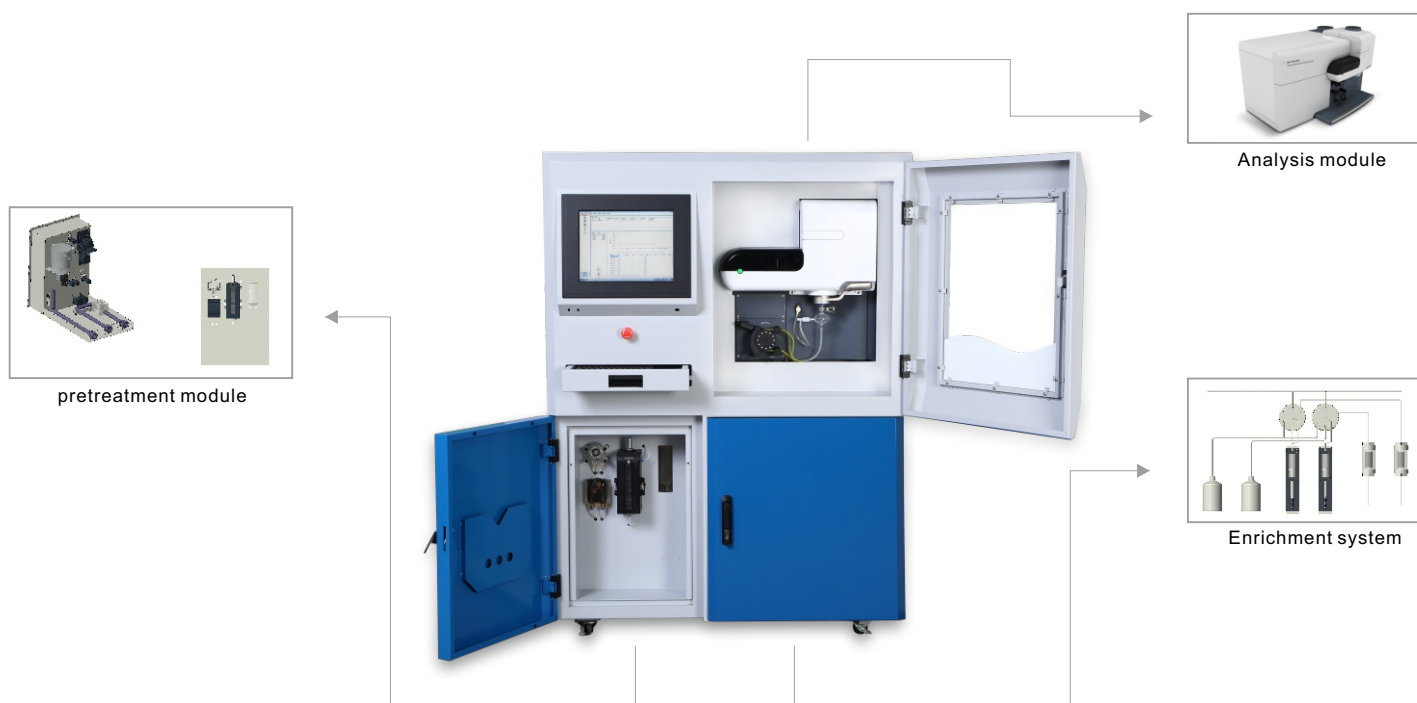


➔ 5100MP HEAVY METAL ONLINE ANALYZER

Online 5100 MP the multi-parameter heavy metal on-line analyzer uses an emission spectrum to analyze the elemental content in the solution. At high temperature, the atom or ion in the ground state transits to the excited state. When the atom in the excited state returns to the ground state, the light of different wavelengths is emitted. The wavelength of the emission line is related to the specific element, and the intensity of the line is related to the concentration. That is the principle for online 5100 MP analysis.

Microwave Plasma Emission Spectrometry applies to: Cu, Cr, Pb, Cd, Fe, Mn, Ni, Zn, Ag, As, Hg, Sb, Tl, K, Na, Ca, Mg, etc.



■ Features

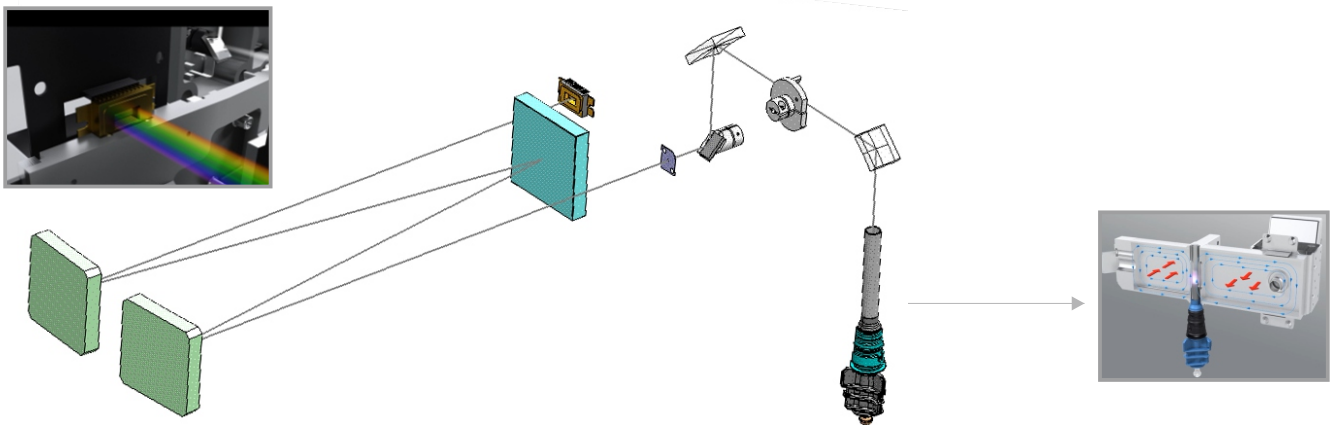
- Employ reliable and mature methodology - Atomic emission spectrum principle
- Analyzing elements include metal and nonmetal
- Multi-element simultaneous analysis and extensive applications up to 70 elements
- Wide linear range: ppb ~ ppm
- Wide wavelength range: 176nm ~ 780nm
- Low detection limit: Comparable to laboratory ICP-AES
- High salinity tolerance: Up to 3% TDS
- Industrial computer control, user-friendly interface
- CCD solid state track detector: Simultaneously background correction and interference correction
- Low operating costs: Extract nitrogen from the air without using expensive gas
- Safety: No flammable gas and safety issues are minimized
- Efficiency: Analyzing multiple elements in minutes
- Integral rectangular tube: Saving the hassle of tube tuning

Technical Parameters

Analysis elements	User selection (up to 70+ optional)
Measuring methodology	Atomic emission spectrum
Accuracy	Better than $\pm 2\%$ (standard sample)
Repeatability	Better than 2%
Linearity	Better than 0.9999
Analysis time	About 1 min / single element (without pretreatment)
Instrument calibration	Automatic
Power supply	220V \pm 10% VAC, 50 \pm 1Hz
Preprocessing	Configured according to user requirement



Optical Path Diagram



Gas Path Diagram

The Online 5100 MP gas system includes air compressor, nitrogen generator, argon gas and exhaust fan, which is mainly used to maintain the gas environment of the ignition of the instrument and discharge the heat generated by the operation process in time.

