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ASPHIRE SPECTRO

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An ISO 9001:2015



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OVERVIEW

About us:

Asphire System OPC Pvt. Ltd is one of the Original Equipment Manufacturer (OEM) of Optical Emission Spectrometers and its accessories in India, based in Delhi NCR (Faridabad), Haryana. We have the fastest growing company in the segment of Analytical Instrumentation.

Established in 2016, Asphire Spectro provides a wide range of Optical Emission Spectrometer, Concomitant Accessories & services to meet the Spectro-chemical needs of the metal industries. Our product range covers Optical / Spark Emission Spectrometers, sample preparation machines for Ferrous & Non-Ferrous, Argon Purifiers, Small Sample Adapters/ Wire Adaptors, and magnetic holders for Spectrometers. Asphire system is beneficial to the industry for Micro, Small & Medium Enterprises, and clusters.

With having fully equipped state-of-the-art development, manufacturing and testing facilities and continuous R & D has enabled Asphire System OPC Pvt. Ltd to design & develop indigenous future ready innovative and interoperable products that are technologically upgradable and tropicalized to suit Indian conditions. To be recognized for Excellence in analytical equipment and influence the sustainable Growth of Organization, Customers, Suppliers and Employees. To deliver Latest Technology based Analytical Instrument, through Innovative Products, World Class Quality & Services that meet the evolving need of customers.

It ensures the delivery of commitment to customers by continuous improvement and implementing efficient quality management systems resulting in growth of Organization, Customers, Suppliers and Employees.

Presently, our instruments are backed by several leading companies across the whole dimension of industries, both in the private sector, public sector & geographical market. With the rapid increase of Asphire System footprints, we have expanded our installation base to 800 + customers in India & rapidly expanding to the international market.

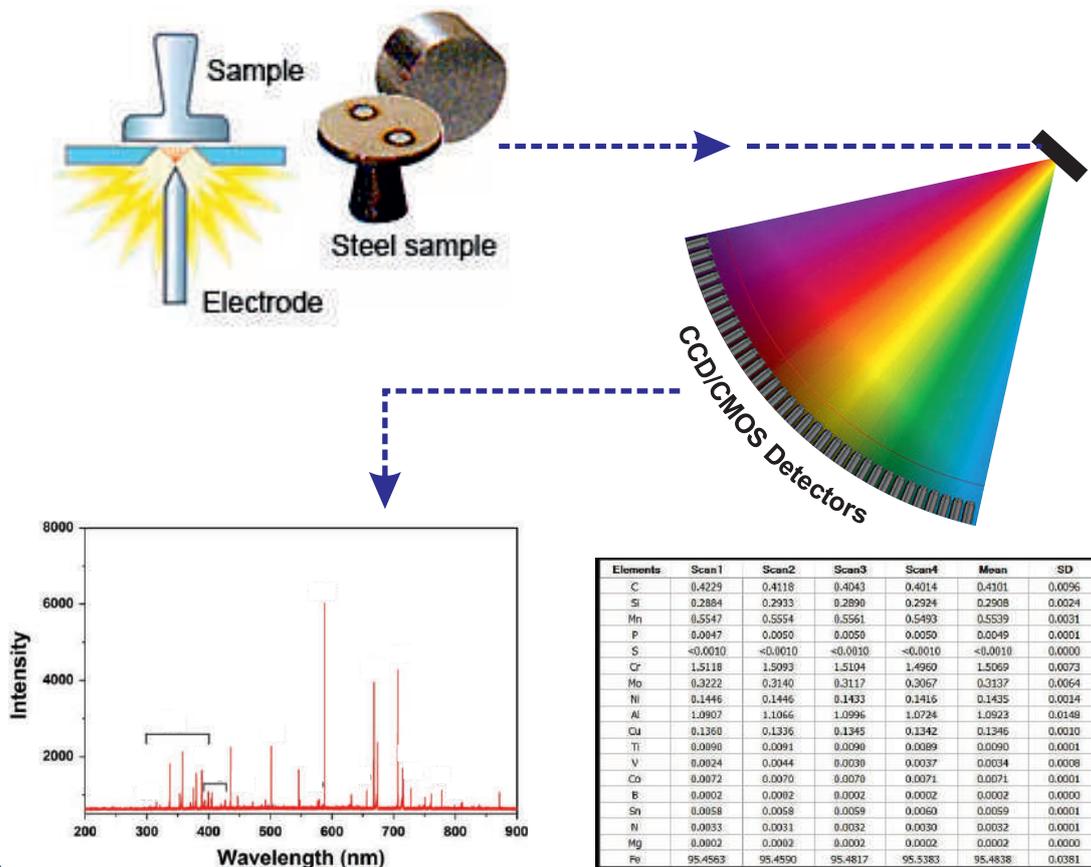
Applications: They are crucial for quality control in foundries, steel production, aerospace, automotive, and scrap metal industries to ensure that material composition meets specifications.

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About Optical Emission Spectrometer :

Optical Emission Spectrometer is a standard technique for analyzing the elemental composition of metals and alloys. A spectrometer is an optical instrument that can detect spectral lines and measure their wavelength or intensity.

Optical emission spectrometry involves applying electrical energy in the form of spark generated between an electrode and a metal sample, whereby the vaporized atoms are brought to a high energy state within a so-called "discharge plasma". Spectral lines.



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FURIOUS Technical Specifications

Description-

The Furious Model is Single Base Calibration unit & it is capable of analyzing Ferrous or Non-Ferrous Base Alloys. Furious is specifically designed to meet the performance requirements and the budgets of small and medium-size foundries and machining operations. This high-quality, compact, affordable instrument is ideal for routine analysis of elemental content in Iron, Aluminium and copper-based metals. This Model have 21+ elements and we can also upgrade as per customer requirement.

Technical Specifications:- Optical System:-

- Optical Air System
- Stabilized against temperature fluctuation
- Effective wavelength ranges: 170-410 nm.
- Multi High Resolution **CCD/CMOS** detectors (designed with single CCD/CMOS.
- High luminosity holographic grating
- Argon purged optical chamber with Proprietary Low Consumption Argon device

Readout System:

- Single board readout system dedicated controlled system for each CMOS/CCD detectors.

Environmental Condition:

- Room Temperature should be 22 °C (± 5 °C). | 18-28 °C
- Temperature maintained with Air condition (AC)
- Relative Humidity < 80%.
- Atmosphere free of corrosive vapors and high dust pollution.

Electrical Power Supply :

- 230 V ± 10 V (AC) | 50 Hz. |
- Earthing Voltage < 2 V.
- Power supply is single phase.
- Power rating Max During spark 800 VA.

Analysis Module:

- Optimized to customer requirements.
- Expansion of additional module on site possible.

Spark Stand:-

- Open spark stand for high sample throughput and various kinds of sample geometries
- Minimized argon consumption controlled with software
- Optimized argon flow
- Reduced cleaning intervals
- Spark stand plate easily exchangeable.

Excitation System:-

Fully digitalized plasma generator with digital discharge definition, digital pulse generator and digital offline pulse control., Max spark frequency 1000Hz

Software-

- Asphire Analytical Software for analytical Operation and Calibration.
- Continuous automatic hardware diagnosis in the background
- Automatic alloy verification and identification
- Result manager
- Data retriever

Instrument Size :-

Benchtop / Tabletop

Length : 640mm
Width : 620mm
Height: 330mm
Weight: 45kg.

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Asphire AS-S1 Technical Specifications



Description:-

AS-S1 is one of the smallest and lightest ultra-compact Benchtop & Tabletop model spark Emission spectrometer and Excellence performance with competitive price. This model is an advanced CCD/CMOS based Optical Emission Spectrometer having multi base structure with multiple matrices (Ferrous, Aluminium, Copper, Nickel, Zinc, Tin, Lead & etc..) with 26+ elements and we can also upgrade as per customer requirement.

Technical Specifications:- Optical System:-

- Optical Air System
- Stabilized against temperature fluctuation
- Effective wavelength ranges: 160-430 nm.
- Multi High Resolution **CCD/CMOS** detectors
- High Luminosity holographic grating
- Argon purged optical chamber with Proprietary Low Consumption Argon device

Readout System:

- Single board readout system dedicated controlled system for each CMOS/CCD detectors.

Environmental Condition:

- Room Temperature should be 22 °C (± 5 °C). | 18-28 °C
- Temperature maintained with Air condition (AC)
- Relative Humidity < 80%.
- Atmosphere free of corrosive vapors and high dust pollution.

Electrical Power Supply :

- 230 V ± 10 V (AC) | 50 Hz. |
- Earthing Voltage < 2 V.
- Power supply is single phase.
- Power rating Max During spark 800 VA.

Analysis Module:

- Optimized to customer requirements.
- Expansion of additional module on site possible.

Spark Stand:-

- Open spark stand for high sample throughput and various kinds of sample geometries
- Minimized argon consumption controlled with software
- Optimized argon flow
- Reduced cleaning intervals
- Spark stand plate easily exchangeable.

Excitation System:-

Fully digitalized plasma generator with digital discharge definition, digital pulse generator and digital offline pulse control., Max spark frequency 1000Hz

Software-

- Asphire Analytical Software for analytical Operation and Calibration.
- Continuous automatic hardware diagnosis in the background
- Automatic alloy verification and identification
- Result manager
- Data retriever

Instrument Size :-

Benchtop / Tabletop

Length : 670mm

Width : 480mm

Height: 320mm

Weight: 45kg.



Asphire AS-S3 Technical Specifications

Description:-

Asphire Spectro Model AS-S3 is an Optimal Decision to the quick analysis with high accuracy and precision for the customer. These laboratory Instruments (Table top or floor model) can work due to excitation of the electrons via the addition of energy which is in the form of some wavelength of the electromagnetic radiation which is in the form of some wavelength of the electromagnetic radiation which is usually light or ultraviolet. AS-S3 is an advanced CCD/CMOS based Optical Emission Spectrometer having multi base structure with multiple matrices (Ferrous, Aluminium, Copper, Nickel, Zinc, Tin, Lead & etc. For the Analysis of chemical composition of the metal. AS-S3 is one of the smallest and lightest ultra-compact spark Emission, Excellent performance with competitive price. This model have 32+ or 56+ elements and we can also upgrade as per customer requirement.

****The applicable and configured wavelength range, Focal Length, Gratings, Detectors are base on the customer's application requirements. Optics are temperature stabilized and pressure compensated.**

Technical Specifications:-

Optical System-

- Optical Air System
- Stabilized against temperature fluctuation
- Effective wavelength ranges: 140-800 nm | 130-800 | 115-800 the applicable and configured wavelength range is based on the customer's application requirements.
- Multi High Resolution **CCD/CMOS** system
- High luminosity holographic grating
- Argon purged optical chamber with Proprietary Low Consumption Argon device
- Focal Length: 300mm / 500mm / 750 mm
- Holographic Grating: 1800 / 2400 / 3600 grooves/mm
- CMOS / CCD detectors ranging from 2-16

Environmental Condition:

- Room Temperature should be 22 °C (± 5 °C). | 18-28 °C
- Temperature maintained with Air condition (AC)
- Relative Humidity < 80%.
- Atmosphere free of corrosive vapors and high dust pollution.

Electrical Power Supply :

- 230 V ± 10 V (AC) | 50 Hz. |
- Earthing Voltage < 2 V.
- Power supply is single phase.
- Power rating Max During spark 800 VA.

Analysis Module:

- Optimized to customer requirements.
- Expansion of additional module on site possible.

Analysis Module:

- Optimized to customer requirements.
- Expansion of additional module on site possible.

Spark Stand:-

- Open spark stand for high sample throughput and various kinds of sample geometries
- Minimized argon consumption controlled with software
- Optimized argon flow
- Reduced cleaning intervals
- Spark stand plate easily exchangeable.

Excitation System:-

Fully digitalized plasma generator with digital discharge definition, digital pulse generator and digital offline pulse control., Max spark frequency 1000Hz

Software-

- Asphire Analytical Software for analytical Operation and Calibration.
- Continuous automatic hardware diagnosis in the background
- Automatic alloy verification and identification
- Result manager
- Data retriever

Instrument Size :-

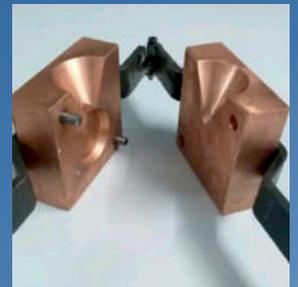
Benchtop / Tabletop

Length : 640mm
Width : 620mm
Height: 330mm
Weight: 50kg.

ACCESSORIES

Sample Polishing Machine:

Sample polishing Machine uses for Preparation the Sample for Optical Emission Spectrometer with Grit Paper 40 or 60 No.s, should be use the paper Aloxide or Zirconia as per requirement.



Wire Adaptors

Wire analysis for minimum 2.0mm to 12.0 mm sizes.

Copper Mold

Specially for casting piece for chilling purpose

Magnetic Sample Holder

Specially for Coin type samples preparation

Certified Reference Materials / Standard Samples

Argon Gas Purifier



ASPHIRE SPECTRO

Our Global Presence



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As of Nov 2025 all prior catalogues are superseded by this edition.