

## W4 Optical Emission Spectrometer Ideal Solution to Metal Analysis



- High resolution CMOS readout system
- Low total cost of ownership
- Vacuum optics enabling fast stabilization
- Excellent long-term stability
- Ferrous and non-ferrous applications

### Applications:

Steel Plants Where needs are at around 100 PPM levels or elements like C, Cr, S, P etc.

Rolling Mills, Foundries, Workshops: Rapid analysis; test several 100s of samples daily

Alloy Manufacturers: Any number of bases / matrices; highly stable and precise

Medium-sized Industries: Extremely rugged and economical; low cost / analysis

Foundries which need a quick analysis near the furnace

Warehouse Material Identification

Base: Fe, Cu, Al.

Item	W4
Grating Line	3600m1/mm
Focal Length	300mm
Wavelength	165-580mm(Extendable)
Argon Flow Rate	Spark:6.5L/min Standby:0L/min
Power Consumption	Spark:400W Standby:50W
UV Emission	Vacuum

# W5 Optical Emission Spectrometer

## The 4th Generation High Performance Metal Analyzer



- Ultra-low limits of detection
- High integration, reliability, stability
- Lowering operating cost, easy maintenance
- Vacuum optical chamber, low argon usage
- Maximum 30+ elements
- High nitrogen (N) analysis 0.03%–0.9%

### Applications:

Large Steel Plants Where needs are at around 10 PPM levels or elements like C, N, Cr, S, P etc.

Testing Laboratories: Commercial testing laboratories, Universities and colleges

Pure Metal Applications purity Al, Pb, Zn, Mg etc.– most industrial users

Regulatory Compliance Very low LODs to control Pb, Cd, As etc.

Foundries which need a quick analysis near the furnace

Manufacturing Facilities

Warehouse Material Identification

Base: Fe, Cu, Al, Ni, Co, Mg, Ti, Zn, Pb, Sn, Ag, Mn, Cr etc

Item	W5
Grating Line	2400m1/mm
Focal Length	400mm
Wavelength	165–580mm(Extendable)
Argon Flow Rate	Spark:7.5L/min Standby:0L/min
Power Consumption	Spark:750W Standby:100W
UV Emission	Vacuum

# W6 Optical Emission Spectrometer

## Ultimate Performance for Metal Analysis



- Multi-bases, full spectrum analysis for utmost elemental flexibility
- Ultra-low limits of detection
- Wavelength range: 130nm–800nm, maximum 30+ elements
- Long-term stability and repeatability
- Ultra-low carbon, low nitrogen analysis 0.005%–0.93%

Item	W6
Grating Line	2400m1/mm
Focal Length	400mm
Wavelength	130–800nm(Extendable)
Argon Flow Rate	Spark:7.5L/min Standby:0L/min
Power Consumption	Spark:400W Standby:100W
UV Emission	Vacuum

### Applications:

High-end Laboratories Defense, Railways, pure research, etc.

Large Steel Plants Rapid analysis with limits in low to single-PPM range on C, S, P, B, N, Ti

Pure metal applications 99.95%+ purity Al, Pb, Zn, Cu etc.

Regulatory compliance Very low LODs to control Pb, Cd, As etc. (e.g. ship-making)

Specialty alloy makers: Wide range of elements with low detection limits

Manufacturing Facilities

Base: Fe, Cu, Al, Ni, Co, Mg, Ti, Zn, Pb, Sn, Ag etc



## SP6 Mobile Metal Analyzer

- Flexible, reliable and safety on-site analysis
- Anytime, anywhere, on-site inspection
- Positive Material Identification (PMI)
- Light-weight to be about 20Kg
- High accuracy and stability
- Suitable for analysis task in different conditions
- Compact rugged with high-performance optics

**Key Applications: Make on-site analysis come true for a foundry workshop or forge shop or in scrap yards or on the aerial rack etc.**