



ANALYTICAL INSTRUMENTS GROUP

# MiniLab



S3 MiniLab 300

[www.gnr.it](http://www.gnr.it)

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UltracoMpacT Optical EMiSSion SpEctroMEtEr

The **S3 MiniLab 300** is the latest addition to the GNR range of Optical Emission Spectrometer designed by GNR. Today our MiniLab range is recognised as one of the most compact and highly performing optical emission spectrometers available in this class.

The **S3 MiniLab 300** Spectrometer combines ease of use with low maintenance costs. With its affordable price and using the most advanced technological optical and electronic components it is truly a leader in its field.

The **S3 MiniLab 300** is a Multi Matrix spectrometer for Ferrous Alloys, Aluminium alloys and Copper alloys.

Due to its innovative optical design, the S3 MiniLab 300 is the only spectrometer of its class to mount up to 7+1 high resolution CCD detectors with 3.648 elements to ensure the best spectral resolution (< 10pm).

The **S3 MiniLab 300** with its extended analytical range from 130 up to 700 nm can cover almost all of the analytical requirements of a modern foundry. Extra element lines may be easily added if needed without hardware additions

The innovative argon purged optic, with an argon consumption of 10 l/day only, ensures the maximum light transparency in UV region at negligible cost.

## Technical Data S3 MiniLab 300

### Purged Argon Optical System

A High Resolution CCD system with up to 7 +1 CCD solid state detectors, depending on required applications. Spectral Field: from 130 to 700 nm - High Luminosity Holographic grating with 3600 grooves per mm 400 - 700 nm extended range with additional CCD. The focal length is 300 mm for all optical systems.

Argon purged optical chamber with Proprietary Low Consumption Argon Device.

Stabilised against temperature variations

Special materials used in the construction to eliminate drift.

### Source

Fully programmable controlled source.

Solid state spark source controlled and regulated by microprocessor

### Software

MetalLab32 software, operating in Windows environment is very easy and intuitive to use. The operator can access all the spectrometer's functions. Some of the most important functions are listed: Analysis-Automatic standardisation. Printing and management of certificates. Determination of alloys in accordance to international norms (UNI, ASTM, DIN) Network linking and remote control.

### Other Information

Personal Computer (optional): Intel Core Processor 4 Gb Ram, 320 Gb HD 7.200 rpm Combo DVD + DVD RW, Monitor 19" LCD, mouse, keyboard and HP Deskjet printer.

**Power Supply** 110/220 V AC 16 A 1 KW

**Dimension and Weight** 53x83x46 h cm / 70 Kg

### Single Sample Standardization

The MiniLab spectrometers are equipped with software able to standardize the machine with just one single sample for several bases.

This innovative technique allows a saving in time and sample cost in the recalibration process where the operation can be completed by using just one sample

Local Agent



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