

The OBLF MVS 1000



Optics

- spectrometer in Paschen-Runge mounting
- Rowland circle diameter 500 mm
- optics and read-out electronics temperature stabilised to $35^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ for excellent long-term stability
- automatic computer controlled profiling
- optimised detector lines for the used wavelength region
- high UV sensitivity without sensor coating
- shock resistance
- evacuated light metal chamber
- maintenance free 2-stage rotary vane pump
- vacuum pump integrated in cabinet
- oil diffusion protection

Spark Generator

- Gated Digital Source (GDS) with integrated multi-spark system
- maintenance free
- spark frequency up to 1 kHz
- unipolar medium voltage discharge
- separate parameter for pre-sparking and integration selectable
- variable excitation parameters & discharge characteristics selectable by software
- Ignition voltage 20kV

Spark Stand

- Argon purged spark stand, optimised for low Ar consumption
- patented self-cleaning
- open sample stand for easy handling
- low-wear top plate with 12 mm opening
- optionally adapters for small parts and wires are available
- low-wear tungsten electrode
- pneumatic sample clamp for rapid sample handling
- automatic electrode cleaning as option
- About 3 l Argon consumption per measurement
- easy maintenance

Electronics

- 16 Bit AD conversion for each pixel
- DSP processor controlled sensor read-out
- USB interface to spectrometer PC

Dimensions & Weight

- width 60 cm
- height 110 cm
- depth 108 cm
- weight about 300 kg

Power Supply