



Elvatech

Advanced XRF equipment and solutions



# ElvaX

**THE NEXT GENERATION XRF  
ANALYZER ELVAX**

**HIGHLY-ACCURATE CHEMICAL ANALYSIS  
IN FOUNDRY AND METALLURGY**

**Highly accurate chemical analysis in the foundry and metallurgy.**

**High speed, simplicity and minimum requirements for sample preparation along with the lowest detection limits drastically increase productivity of your laboratory. ElvaX is designed to analyze the full range of materials used in foundry and metallurgy. The device is able to estimate the carbon content in steel and cast iron. Helium purging of the analytical chamber provides minimal detection limits of the light elements.**

**The sample rotation function enables you to conduct fast and efficient analysis of inhomogeneous samples. The measurement process can be automated using a 16-position carousel sample changer. Elvatech Ltd. production is certified according to the ISO 9001:2015 standard.**

## **Analysis at all the stages of production**

- ✓ All types of steels and alloys
- ✓ Slags, fluxes, refractories
- ✓ Ferroalloys
- ✓ Ores and concentrates
- ✓ Dust emissions

## **Powerful and intuitive software**

- ✓ Fundamental parameters and empiric calibrations
- ✓ Analysis of oxides

## High-end Fast SDD detector

- ✓ Highly-accurate analysis in a few seconds

## Estimation of carbon content

- ✓ Detection range 0,1 %, to 4 %
- ✓ Accuracy 0,02 %

## Quantitative analysis of light elements

- ✓ Detection of Mg in Al alloys <0,05 %,  
Al in Ti alloys <0,05 %,  
Si in steels <0,01 %,  
S and P in steels <0,005 %

**In our work we always put our customers' needs first.**

### Customer support includes:

- ✓ training on the instrument operation;
- ✓ warranty support and repairs;
- ✓ post-warranty service;
- ✓ guaranteed availability of spare parts and consumables;
- ✓ analytical support



## Technical specifications

Range of detectable elements	From Na (Z=11) to U (Z=92)
Measurement time	From 1 second
X-Ray tube	50 kV, 200 $\mu$ A, 5 W
Detector	Fast SDD, 25 mm <sup>2</sup> with a thin Graphene window
Resolution	130 eV at Mn Ka
Count rate	500 000 cps
Dimensions/weight	430x340x200 mm, 18 kg
Power	90-240 V, 50/60 Hz
Power consumption	50 W
Options	16 positions autosampler Sampler rotation Integrated camera for sampler positioning
Software	ElvaX™ software for MS Windows

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