

Ionplus⁺

engineering scientific instruments



Scientific Instruments for Radiocarbon Dating

Ionplus⁺ covers the entire range of dedicated ^{14}C laboratory equipment. Our instruments are designed for fast and efficient sample processing with a very high degree of automation. We offer fully automated graphitization systems – AGE3, gas interface systems for unattended gas measurements of small samples – GIS, automated carbonate handling systems – CHS, and a range of peripheral devices. High-precision $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values can be conveniently obtained online during graphitization and gas measurements with a newly implemented IRMS instrument.

A high degree of automation and the outstanding reliability of all *Ionplus⁺* instruments maximize the repeatability of sample preparation and measurements, thus helping you to improve the throughput, precision and accuracy of your radiocarbon analyses.

The *Ionplus⁺* mini carbon dating system – MICADAS is the world's smallest commercially available ^{14}C -AMS system and offers high performance while reducing maintenance to a minimum:

- Dating of samples back to 50'000 radiocarbon years
- Negative ion currents of 50 to 150 μA on graphite* and 10 to 20 μA on gas samples**
- Helium stripping for a high ^{14}C -transmission of 47%, fast tuning and high measurement stability
- Dimensions and weight: 3.4 m \times 2.6 m \times 2 m, 4500 kg
- Equipped with optional permanent magnets, MICADAS is the first energy efficient AMS system and renders expensive water cooling systems redundant.

*With 1 mg carbon

** With 10 μg C or more



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Contact us for more information
on our products and services.

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