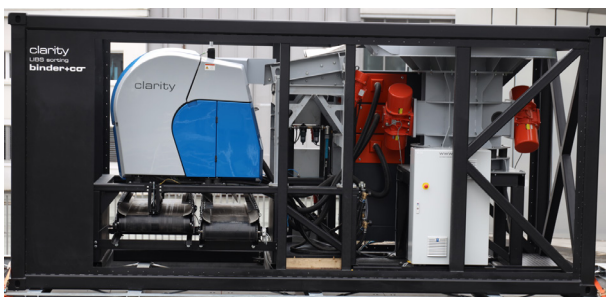


Solutions for the Aluminum Industry

IMS SECOPTA is providing automated analytical solutions dedicated for industrial application. Modern LIBS-technology combined with AI-based algorithms give our customers the possibility to improve their product quality, reduce waste, energy and CO2-emissions.

Aluminum recycling

As sensor provider for fast elemental sensors, the LIBS-solution from IMS SECOPTA allows our partner binder+co to produce high-quality recycling systems with high throughput and precise sorting results. By adjustable alloy classes the sorting systems can be adapted by the user at anytime for changing demands and alloy streams. Integrated surface-cleaning methods allow the sorting of a wide variety of scraps. Utilizing LIBS-technology allows increased material speeds and a more precise detections, especially of light elements.



Multi-channel recycling system from **binder+co** with IMS SECOPTA LIBS-sensors.
More under www.binder-co.com

Scrap Volume flow

IMS SECOPTA supports customers to control and guarantee the quality of scrap, which is recycled in the supply chain. By continuous measurement of scrap on a conveyor, either after the sorting or before feeding into the melting furnace a representative composition of a scrap load can be achieved. Further, expensive remelting-samples or sampling scrap pieces, which is prone to errors, can be avoided.



SECOPTA Mopa-sensor for the continuous analysis of scrap volumes

Analysis of aluminum melts

Analyzing the composition of melts during remelting of scrap is probably the most important step in process and quality control. However, sample taking and laboratory analysis is expensive and can be time consuming. Especially, if the furnace needs to wait for further processing for the analysis results, productivity is lost and energy is consumed to keep the furnace hot. The IMS SECOPTA meltLIBS-sensor allows the measurement of molten aluminum in-situ in the furnace or inline during casting. The results are available instantaneously, allowing direct further processing without any time and productivity loss.



In-situ measurement of aluminum melts

Automated material mix-up tests

IMS SECOPTA supplies automation solutions to improve material mix-up tests, allowing much better traceability and safety to ensure the correct material is processed or shipped to the customer. Whether checking semifinished products, slabs or the finished material before shipping to the end customer, SECOPTA FiberLIBS PMI solutions bring mix-up detection to the next level.



Mix-up control of billets with SECOPTA-sensor

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