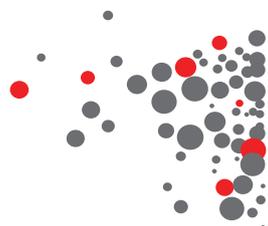
The image features a microscopic view of a material surface, likely a mineral or metal, with a complex, crystalline structure. A prominent red overlay covers the upper portion of the image, highlighting a specific area of interest. The text is overlaid on this red area.

THE SELFRAG LAB SYSTEM

Lab-scale processing for research



SELFRAG
HIGH VOLTAGE PULSE
POWER TECHNOLOGY

A UNIQUE SOLUTION FOR SELECTIVE FRAGMENTATION

HIGH VOLTAGE PULSE POWER EQUIPMENT

Standard sample preparation can degrade or damage minerals in size, form or chemical composition. SELFRAG's high voltage pulse power technology allows the liberation of morphologically intact minerals, providing you with a high quality tool for improved data accuracy and reliability.

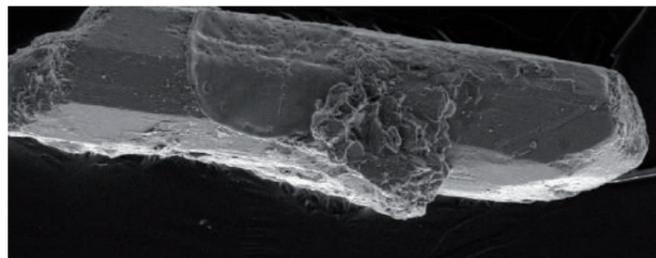
With the Lab, minerals can be liberated from the host rock, fully and morphologically intact, opening new avenues for research in geosciences, while improving sample preparation time, precision and accuracy of data. Fracturing caused by the equipment is predominantly along grain boundaries and enables greater yields of undamaged mineral phases. Sample contamination is minimal as there is no abrasive contact with metals, since the process vessel can be disassembled and cleaned in between each sample. A wet process ensures zero dust production.



Liberation of coarse corundum from silicate matrix of a metamorphic rock.



Complete liberation of brittle beryl, quartz, feldspar, mica and tourmaline from a pegmatite.



Recovery of morphologically intact zircon from sandstone.

THE SELFRAG LAB

The SELFRAG Lab is a laboratory scale batch processing equipment. It uses patented SELFRAG high voltage pulse power technology to fragment materials and liberate individual components. The Lab is self-contained, compact, and constructed in Switzerland to meet all EU health and safety regulations.



THE PROCESS VESSEL

The Lab process vessel allows the batch processing of either a single, fist sized rock sample, or up to 1 kg of unconsolidated material. Two vessel designs allow for material to either be contained within the chamber, or for processed material to fall through a sieve into a collection vessel beneath. With both options, the sample is contained within a fixed space eliminating sample loss. Disassembly and cleaning of the process vessel between samples is quick and easy.

PROCESS VESSEL



MICRO PROCESS VESSEL

THE MICRO PROCESS VESSEL

For the processing of smaller samples, SELFRAG offers a micro process vessel for samples in the 1-2 g range. This small self-contained unit slots into the main process vessel.



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POWER TECHNOLOGY

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