

SEFRAG

HIGH VOLTAGE PULSE POWER FRAGMENTATION



JUNE 2012

EXPLORER

SEFRAG has developed with an interdisciplinary team of physicists, engineers, chemists and geologists the a fully automated modular continuous system, the **SEFRAG Explorer**. The high power electrical pulse process has the characteristic to produce very narrow target fractions, reducing by a factor 2-3 the losses in fines, compared to conventional crushing. The true challenge is the efficient delivery of the energy to the material in a continuous way on a reliable system with its patented HV Pulsed Power Technology. First industrial installations have proven that the **SEFRAG Explorer** has mastered all these requirements.



Before



After

THE EXPLORER FEATURES

- Automated, modular, continuous system, easy multiplication of modules for more throughput.
- HMI by color touch screen / Standard Control System: Siemens / Web-Remote access for supervision and support
- Various setting of parameters to achieve the determined target fraction
- Sound insulating housing / recirculated water management
- In conformity with major industrial standards
- Various classification procedures applicable
- Customized mechanical interface for feed-in and -out

INDUSTRY EXAMPLES

SILICON

- Precise distribution of target fraction with a round and uniform shape leading to a more efficient feed stream
- Higher density in the crucible, creating a better melting behavior which improves overall process efficiency.
- Fragmentation without touching material creates almost no surface contamination which lowers the post process cost.
- 1 ton per hour/module (depending on material and fraction size)

GLASS

- low contamination level (up to IOTA 6 equivalent)
- Low degree of overgrinding (less fines)
- Improved flow properties of sized glass fraction due to round and uniform shape
- 1 ton per hour/module (depending on material and fraction size)

KEY ACCOUNT MANAGER

In December 2011, Mark Mühlethaler joined the **SEFRAG Team** as Key Account Manager for the SELFRAG Continuous Systems Product Range. Mark is your first point of contact for inquiries related to SELFRAG's productive installations for high purity in the quartz (-glass) or silicon business and for comminution application in the mining business. He brings along many years of experience in selling and marketing of high-value capital equipment. We are glad to have a strong sales team in place to keep up with the growing demand for our products.

SUMMER SPECIAL

See how the Selfrag equipment can improve your process! Send us your Glass/Quartz/Silicon samples for a free test run on one of the Selfrag machines! Contact us as soon as possible, the offer is only valid during July 2012!