Staying competitive in the alumina market requires a continual commitment to improving processes and technology to ensure a high level of efficiency. This means not only improving production processes, but also using the latest technologies to minimize downtime during a shutdown. Together with the Outotec® EasyBox for primary air headers, our fluidizing Outotec EasyNozzles provide benefits during the production process as well as during replacement.

**BENEFITS**
- Extended operation and lifetime
- Significantly less particle breakage
- Lower backflow during shutdown cycles
- Reduced maintenance demand
Making a good nozzle great

Optimizing the fluid dynamic properties of a nozzle significantly improves functionality by reducing particle breakage and the amount of backflow. Our solution removes the need for welding in the nozzle’s cap, which enhances thermal durability and increases the time between exchange intervals.

Our solution also reduces the amount of time needed for maintenance, especially when it comes to changing worn-out nozzles. The improvements made to the nozzle’s design enable extended operation and a longer lifetime, which in turn results in cost savings.

A versatile solution

Outotec EasyNozzles are designed for a variety of operating conditions and perform reliably under a wide range of primary air temperatures and flow rates without affecting CFB functionality.

Outotec can help you to maximize your resources, get the most from innovative solutions, and sustain your competitive edge throughout the lifecycle of your facility.

What makes Outotec EasyNozzles different?

- Optimized nozzle fluid dynamics
- Improved design allows quick and easy nozzle replacement
- Advanced materials and manufacturing processes
- One-piece nozzle cap to ensure a long service life