AUMUND raises the bar in materials handling

The tendency in recent years to replace multiple old fashioned wet or even old design dry kiln lines with a single "Mega" kiln with performances exceeding 10 000 tpd of clinker demands both increased performance and dependability to ensure the uninterrupted delivery of raw meal to the kiln and transport of hot clinker from the cooler to the clinker silos.

AUMUND has responded to this challenge and in most of the larger cement plants worldwide, including Ste. Genevieve in the USA, Tongling in China, Bhatapara in India, Rio Branco do Sul in Brazil, Cong Thanh in Vietnam and Kaluga in Russia, to name but a few recent examples, the BWG type belt bucket elevator is used to raise raw meal to the blending silo and the kiln preheater. Similarly, the AUMUND pan conveyor may be found handling the hot clinker. Based on laser cut precision conveyor chains with fabricated steel pans, this clinker transport system can handle temperatures up to 900 °C, making it impervious to emergency overload such as during a kiln flush where hot material from the kiln may flush at high flow rates, overloading the cooler and flowing directly through the clinker crusher and onto the pan conveyor.

For many years now, AUMUND has offered the BPM type range of heavy plate feeders suitable for feeding ROM rock from mining dump trucks or extraction from hoppers. For example, Mordovzement, Russia, has recently taken two units handling Gaize rock. One of these machines is 32 m in length rising to 10 m at the discharge, making it the largest unit of this type so far delivered anywhere in the world.

A very recent order for the BPM type feeders from Kaluga Cement, Russia, integrates the feeder with a SCHADE Pivot Frame wagon tippler for the import of bauxite, iron ore, gypsum and slag direct from the open topped flat bottom rail wagons. This project is an excellent example of the synergy that exists between the parent company, AUMUND, and the daughter manufacturing companies of SCHADE and SAMSON Materials Handling Ltd, where products may be integrated to offer a more comprehensive package with minimum external interfaces.

Along with its companies, the AUMUND Group continues to develop its products to fit the market, pushing the boundaries of equipment performance whilst retaining the highest level of reliability that is synonymous with the brand, thereby providing dependable solutions for the 21st century's cement industry.

Note: this text was authored by Jörg Hoffmann, Managing Director AUMUND Fördertechnik for the AUMUND Group.