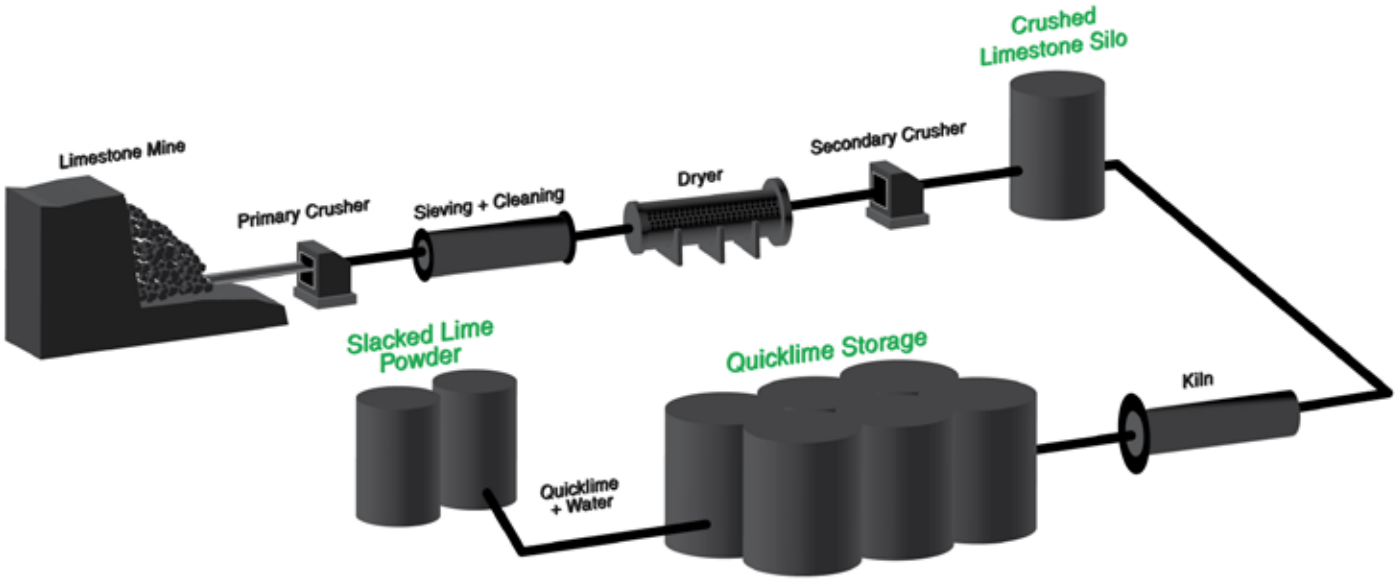
Mining

Lime Production Process



Crushed Limestone Silo

Application: After mining, the limestone is crushed and then stored in silos before entering the kiln.

Challenges: Lime generates a great deal of dust during the filling and emptying process. The material tends to become sticky and create buildup on the silo walls. Since it is a raw material, operators need to continuously monitor inventory levels to assure an ongoing supply in the limestone production process. BinMaster's 3DLevelScanner system generates accurate volume measurement even in such harsh environments due to its unique dust-penetrating technology and 3D surface mapping capabilities. Its 3D visualization tool provides a real-time 3D display showing the actual distribution of the silo contents, allowing for the early detection of buildup as it occurs. This permits for the scheduling of timely maintenance inside the silos to avoid unexpected process stoppages and associated losses of time and money.

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Quicklime Storage

Application: The quicklime, both in powder and granular form, is stored in silos before being shipped for various applications.

Challenges: Both quicklime powder and quicklime granules generate a great deal of dust during the filling and emptying process and tend to become sticky, creating rat holes and buildup. Operators need to monitor and control the volume of the material remaining in the silo in order to prevent disruptions of delivery schedules or the production process. The BinMaster 3DLevelScanner's sophisticated surface mapping technology delivers accurate real-time volume measurement of the quicklime inventory, taking into account irregular buildup of material even under such harsh conditions. The scanner's 3D visualization tool displays the allocation of material inside the storage bin, allowing for early detection as buildup occurs. This facilitates the scheduling of timely maintenance to avoid unexpected and costly interruptions of the production process.

Slacked Lime Powder

Application: Slacked lime is stored in silos prior to being packed and shipped.

Challenges: Slacked lime is a very fine powder that generates a great deal of dust during filling and emptying. It also tends to become sticky, creating rat holes and buildup. Operators need to monitor and control the volume of the slacked lime remaining in the silo in order to prevent disruptions of delivery schedules or the production process. The BinMaster 3DLevelScanner's sophisticated surface mapping technology delivers accurate real-time volume measurement of the slacked lime inventory, taking into account irregular buildup of material, even under such harsh conditions. The scanner's 3D visualization tool displays the allocation of material inside the silo, allowing early detection of buildup as it occurs. This facilitates the scheduling of timely maintenance to avoid unexpected and costly interruptions of the process.

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