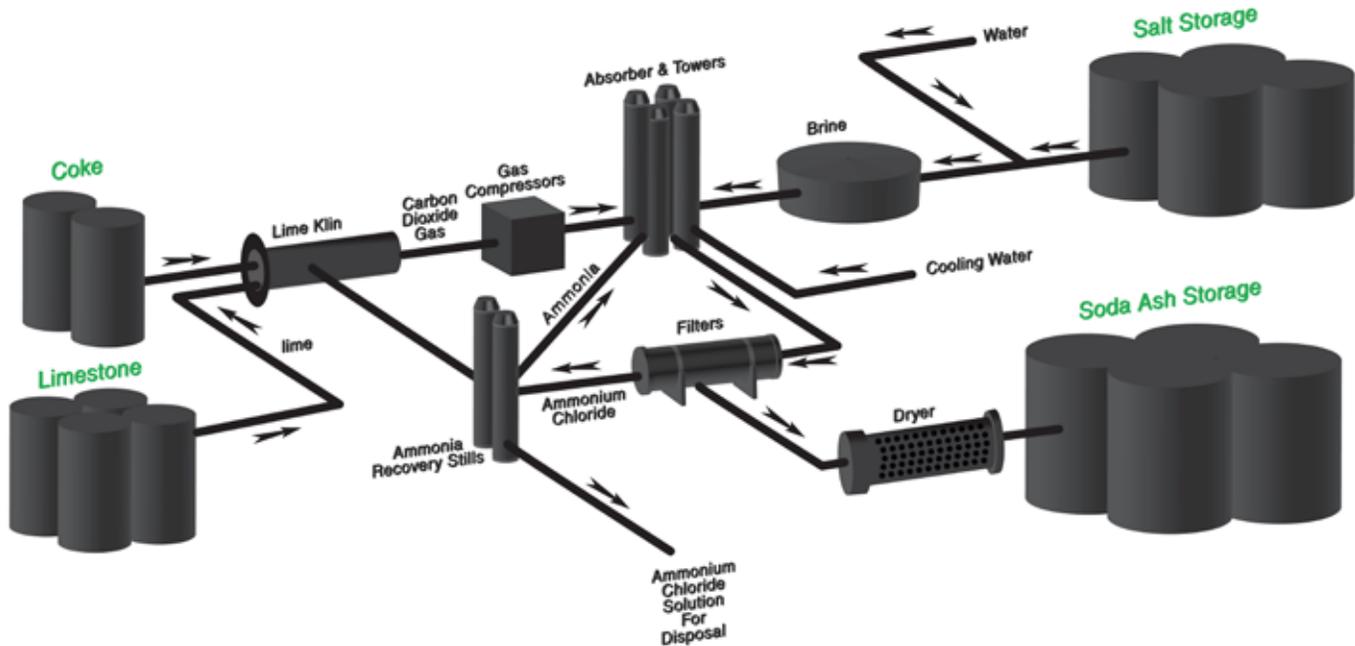




# Chemicals

## Soda Ash (Brine) Production



## Soda Ash Storage

**Application:** Soda ash is stored in silos before processing.

**Challenges:** Soda ash generates a great deal of dust during the filling and emptying processes, leading to harsh and dusty conditions in the silo. Coke also tends to adhere to the silo walls, creating buildup and rat holes. These attributes significantly challenge the operator's ability to accurately measure inventories. This is especially important since coke is essential to the soda ash production process. The BinMaster 3DLevelScanner's unique dust-penetrating technology delivers accurate and reliable real-time measurements of stored coke volume, even in harsh environments. The scanner also provides a 3D image of how the soda is distributed inside the silo, allowing for the early detection of buildup and rat holes. This facilitates the scheduling of timely maintenance and cleaning of silos in order to avoid unexpected interruptions of the process and associated losses in time and money.



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## Limestone Storage

**Application:** Limestone is stored in silos before being processed.

**Challenges:** Limestone generates a great deal of dust during the filling process and tends to stick to the walls of the silo, creating irregular buildup and rat holes. Since limestone is essential for the soda ash production process, quantifying the amount of limestone available in the silo is essential for assuring continuous production. The BinMaster 3DLevelScanner's unique surface mapping technology supports this by delivering real-time volume measurements of the stored material and by generating a 3D image of the stored content, allowing for early detection of buildup. This allows for timely scheduling of maintenance and cleaning in order to avoid unexpected interruptions of the process and associated losses in time and money.

## Salt Storage

**Application:** Rock salt is stored in big silos for the brine production process.

**Challenges:** Rock salt is stored in large silos under humid conditions which causes it to become sticky and to adhere to the silo walls causing material buildup. This makes it difficult to assess the true volume of rock salt remaining in the silo. Because of this, operators can't ensure continuous salt supply to the brine making process, which is essential for the production of soda ash. The BinMaster 3DLevelScanner reliably and accurately measures the volume of rock salt in the silo, taking into account any irregular surfaces caused by buildup. In addition, it generates a 3D image of the rock salt distribution inside the silo, allowing early detection of buildup and the timely scheduling of maintenance and cleaning work in order to avoid unexpected interruptions to the process and associated time and money losses.

## Soda Ash Storage

**Application:** The final product (usually in powder form) is stored in large silos, until it is shipped for industrial use.

**Challenges:** Soda ash is stored in large silos and generates a great deal of dust during the filling and emptying processes. The soda ash also tends to adhere to the silo walls creating buildup and rat holes, making it difficult for operators to continuously and accurately monitor the inventory levels in these silos. The BinMaster 3DLevelScanner, using multiple-point surface mapping technology, delivers accurate and continuous non-contact volume measurements, even in harsh environments. In addition, the scanner's visualization tool generates a 3D display of the distribution of soda ash inside the silo, allowing early detection of buildup as it occurs. It also allows for the scheduling of timely maintenance and cleaning to avoid unexpected interruptions to the process and losses associated with time and money.



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