

Sugar Cane Elevator

Next-Generation Efficiency in Sugar Cane Harvesting

Advanced
Harvesting
Technology



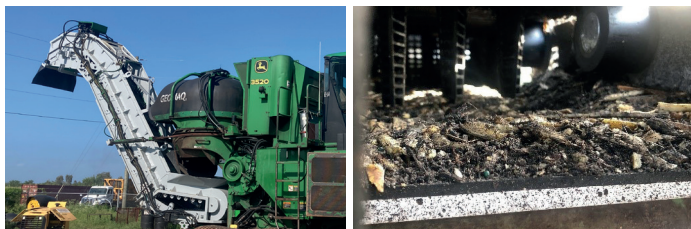
For years, traditional sugar cane elevators have required high maintenance. Broekema introduces a game-changing design: a low-maintenance elevator with improved cleaning functionalities. Broekema's innovative system uses a sieving web, carrying the cane up the incline, instead of scraping cane across the elevator floor. This patented design, with its larger sieving area, also removes more debris, leading to a cleaner harvest and a reduced cost of ownership per acre.



When it comes to sugar cane harvesting, the elevator system has always been a critical yet challenging component. For many years, these systems were burdened with high maintenance demands resulting in high cost and reduced availability of the machine during harvest. Broekema has stepped in to revolutionize this aspect of the harvesting process, introducing a low-maintenance, highly efficient elevator system that redefines industry standards.

The design of traditional elevators, based on pushing cane with steel flights across a perforated steel floor, inherently created a high-friction environment. This not only leads to rapid wear and tear of the equipment but also resulted in significant downtime due to constant maintenance needs. High friction also causes higher fuel consumption and elevated oil temperatures in the hydraulic system. Recognizing these inefficiencies, Broekema has innovatively engineered a solution that seamlessly fits into existing harvesters and substantially reduces the need for maintenance, thereby enhancing the longevity and reliability of the harvesting process.

The core innovation lies in Broekema's unique sieving web, which replaces the traditional method. This web, supported by rollers, transports the sugar cane more efficiently and with significantly reduced friction. It offers a broader sieving area, crucial for removing soil and debris, and delivering a much cleaner product to sugar mills. The benefits extend beyond the harvesters to the entire supply chain.



The advantages of Broekema's Sugar Cane Elevator include a substantial reduction in maintenance requirements. The elimination of friction reduces the need for wearing parts, allowing for maintenance (replacement of web and rollers) to be done in the field, instead of having to bring the harvester into the workshop. The Broekema design eliminates the periodic renovation of the elevator, as there is no more floor to be replaced. Additionally, the elevator's enhanced sieving capacity and higher belt speeds increase overall harvesting quality and capacity.



In summary, Broekema's Sugar Cane Elevator is a reflection of our commitment to continuous improvement and innovation in agricultural technology. It represents a significant step forward in addressing the real-world challenges of sugar cane harvesting. Our dedication to providing optimal solutions is evident in every aspect of this product, from its design to its impact on operational efficiency and sustainability.

For more detailed information and inquiries, contact Broekema Conveyor Belts today.