

## **Enhancing Efficiency, Reliability and Safety in Edible Oil Production with Variable Speed Drive Technology**

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The edible oil industry faces increasing pressure to optimize processes while addressing sustainability, energy efficiency, and operational reliability. With rising raw material and energy costs, global supply chain disruptions, and evolving consumer expectations, producers must optimize operations while maintaining profitability and adhering to stringent safety and environmental standards. Advanced technologies like energy-efficient motors and drives play a pivotal role in enhancing process efficiency while reducing energy consumption.

Edible oil production operations require precise control over equipment to ensure safety, quality and efficiency. From crop cultivation and pre-treatment to refining and bottling and packaging, drives enable accurate control over processes and provide smooth start and stop. Our solutions are engineered for reliable operation in harsh environments, and designed to offer dependable performance, precision control and integrated safety features, ideal for demanding applications including irrigation, fanning and blowing, sieving, destoning, hammer milling, pressing, solvent extraction, boiling and separating.

Additionally, improved power quality solutions, including ultra-low harmonic (ULH) technologies, contribute to stable and efficient operations, minimizing energy losses and equipment wear. By integrating these innovations across pre-treatment, extraction, and refining stages, edible oil producers can achieve greater process efficiency, maintain high product quality, and reduce their overall environmental footprint. The adoption of these cutting-edge technologies is essential for ensuring a sustainable, cost-effective, and resilient edible oil value chain from farm to fork.