

Innovations in Post-Harvest Oilseed Preservation, Storage and Processing

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Effective post-harvest storage and preparation are critical for preserving oilseed quality and maximizing oil extraction yields. Challenges such as moisture ingress, microbial activity, and enzymatic reactions can degrade sensitive seeds like cottonseed and rice bran, elevating Free Fatty Acid (FFA) levels and diminishing oil quality.

This presentation showcases the pioneering solutions in aerated storage systems for cottonseed, ensuring precise temperature and humidity control, and stabilization techniques for rice bran, such as enzymatic lipase inactivation through thermal or microwave methods. These innovations effectively mitigate deterioration risks during storage and ensure long-term seed quality preservation.

By integrating advanced storage systems, stabilization techniques, and optimized preparation processes, the oilseed industry can achieve superior oil quality, higher extraction yields, and sustainable processing outcomes. These innovative, tailor-made solutions not only enhance production efficiency but also contribute significantly to a more sustainable oilseed value chain.

This presentation provides comprehensive oilseed preparation solutions to enhance production efficiency. Advanced cleaning and destoning processes eliminate impurities like broken seeds, stones, and dust, while robust dehulling and hull separation systems ensure optimal kernel recovery. Precision-engineered flaking mills, a core element in the preparation process, deliver smooth and efficient flaking operations to maximize downstream oil extraction yields.