



MODULAR INTELLIGENT INGREDIENT SYSTEM





YOUR LINK TO COMPLEX INGREDIENT MATRIX SOLUTIONS

Horizon Systems' innovative Modular Intelligent Ingredient System is designed to deliver your micro and minor ingredients consistently, accurately and securely. Our engineers developed the system to provide total dust containment by integrating our modular storage bin and Kleen Volumetric Feeder with an inflatable seal. To assure product integrity, safety and traceability it can be outfitted with bar coding, QR scanning or RF ID tags. The sanitary and flexible design of the Modular Intelligent Ingredient System offers:

- Easy-to-implement lot tracking and ingredient segregation
- Containment of major dust generation/collection to the loading area
- Specific product and plant environment protection from cross contamination
- Quick and simple feed point ingredient changeovers
- Reduced capital cost from fewer feed points
- Fully sealed container for ingredient and lot integrity
- Flexible and secure recipe management

MULTIPLE FEED TYPES

Our Modular Intelligent Ingredient System offers the flexibility to be used with your preferred feed type:

LOSS OF WEIGHT BATCHING

- Tote, frame and feeder are fully supported by load cells
- Simultaneous feeding of multiple ingredients
- Direct feed to vacuum conveying system
- Inventory check of every newly docked tote

GAIN IN WEIGHT BATCHING

- Tote, frame and feeder are supported by a single structure or common structure for multiple units
- Ingredients are sequentially fed into a batch scale and then transferred after batch is completed
- Increased flexibility on staging weighments prior to conveying

MODULAR INGREDIENT MANAGEMENT

Horizon's Modular Ingredient Management consists of an integrated system to deposit a lot of ingredient into a modular/portable bin (IBC/Tote) for accurate tracking. The tote is then stored until it is docked to a feeding module/station. Our feeding module is built to allow for easy cleanout and is adaptable to different feed rates/amounts. Horizon's Modular Ingredient Management includes:

TOTE LOADING AND LOT LOGGING

Lot tracking is initiated at this stage with:

- Telescoping fill head with inflatable seal and integral dust collection
- Platform scales at fill point for inventory verification

TRACEABILITY

Complete tracking is provided through:

- Limited operator interface after filling the tote
- Flexible information such as tote ID, material, lot codes, expiration dates, or supplier information
- Bar code, QR code or RF ID tag fixed to tote base
- Information from fixed readers at the fill point and feed points sent to the control system automatically
- Portable readers available for warehouse and inventory options

STORAGE AND STAGING

Lot integrity is preserved by:

- Minimizing the possibility of outside contamination
- Sealed container reduces the exposure to humidity and other adverse environmental conditions
- Lowering the opportunity for dust to be released into the plant environment
- Eliminating the handling of empty pallets in the process area
- Using rugged polyethylene or metal containers that are stackable two high without racking
- Utilizing a docking station with robust support and loading guides, zero leakage, and easy cleaning





THE LINK TO YOUR SUCCESS



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