

TECHNICAL DATA SHEET

# T. ERNST

## DURABLE STORAGE SILO SYSTEMS BULK MATERIAL HANDLING



### INDUSTRY:

Food Processing, Grain, Sugar, Flour, Chemical, Plastics

### PRODUCT CATEGORY:

Storage Silos

## PRODUCT OVERVIEW

### STORAGE SILO BULK MATERIAL

Storage silo handling systems are designed for the safe, efficient, and hygienic storage of bulk materials in a wide range of industries. Built for powders, granules, and bulk solids, these systems provide controlled filling, discharge, and inventory management. Silo handling ensures product integrity, reduces contamination risk, and supports smooth plant operations with integration into pneumatic or mechanical conveying systems. With durable construction and sanitary design, they optimize space utilization while maintaining compliance with industry standards.



## #1 WELDED SILOS

Welded silos provide durable, long-term bulk storage with seamless construction for powders, granules, and bulk solids.

### UNIQUE FEATURES:

- Seamless welded body
- Heavy-duty structural integrity
- Weather-resistant design
- Integrated discharge cone

### BENEFITS

- Ensures long service life
- Minimizes risk of leakage
- Indoor/outdoor use
- Provides reliable product flow

## SHARED FEATURES

### Storage Silos

**01** Capacity Flexibility



**02** Controlled Discharge



**03** Energy efficient



## #2 BOLTED SILOS

Bolted silos offer modular, on-site assembly for large-volume storage

### UNIQUE FEATURES:

- Modular bolted panels
- On-site assembly flexibility
- Large capacity design
- Corrosion-resistant coatings

### BENEFITS:

- Easier shipping and transport
- Flexible sizing options
- Cost-effective for large installations
- Long service life in varied climates



## #3 INDOOR FABRIC SILOS

Lightweight fabric silos for indoor bulk storage of powders, grains, or

### UNIQUE FEATURES:

- Breathable, durable fabric walls
- Steel support frame
- Easy indoor installation
- Flexible discharge options

### BENEFITS:

- Cost-effective storage solution
- Quick to install and relocate
- Prevents condensation build-up
- Suitable for food-grade applications



## #4 POLYRESIN SILOS

Polyresin silos provide chemical-resistant storage for corrosive or specialty materials.

### UNIQUE FEATURES:

- High-strength polyresin build
- UV and chemical resistance
- Lightweight modular design
- Smooth interior finish

### BENEFITS:

- Protects against corrosion
- Ideal for chemical and food uses
- Lightweight yet durable
- Easy to clean and maintain



## ACCESSORIES

- Aeration pads
- Pressure valves
- Level sensors
- Discharge gates
- Dust collectors
- Access hatches
- Bin activators
- Hopper cones
- Vibrators
- Bag filters
- Sight glasses
- Flow aids
- Safety ladders
- Platforms
- Handrails
- Manways
- Load cells
- Rotary valves
- Airlocks
- Conveying lines
- Vent filters
- Monitoring panels
- Temperature

## APPLICATIONS

Food, Agriculture, Chemical, Pharmaceutical, Industrial

[Food] Flour, sugar, starches, grains, powdered dairy, packaged sauces

[Agriculture] Seeds, feed, fertilizers, bulk grains

[Chemical] Detergents, resins, powdered additives, solvents

[Pharmaceutical] Active ingredients, powdered medicines, sterile packaging

[Industrial] Cement, minerals, building materials, specialty powders



## CONTACT US!

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