

TECHNICAL DATA SHEET

T. ERNST MECHANICAL CONVEYING SYSTEMS



INDUSTRY:

Food, Agriculture, Chemicals, Cement, Mining

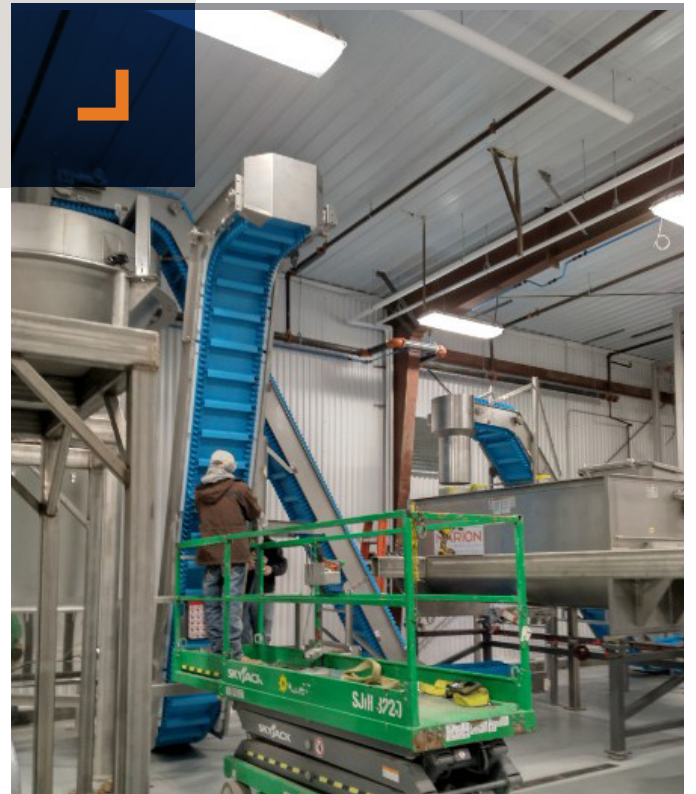
PRODUCT CATEGORY:

Mechanical Conveying Systems

PRODUCT OVERVIEW

BULKMATIC MECHANICAL CONVEYORS

Mechanical conveying systems are designed to move bulk materials efficiently and reliably through processing plants. They handle powders, grains, and aggregates by using belts, screws, chains, or buckets to transfer product horizontally, vertically, or at an incline. These systems reduce manual handling, minimize spillage, and integrate with storage, mixing, and packaging equipment. By providing consistent flow and controlled feeding, mechanical conveyors improve productivity, protect product quality, and create safer, cleaner work environments.



#1 BELT CONVEYOR

Continuous transport of bulk or packaged goods.

UNIQUE FEATURES:

- Sanitary belt materials
- Incline or decline options
- Modular design

BENEFITS:

- Efficient transfer
- Gentle on product
- Easy maintenance

TYPES OF CONVEYORS

SHARED FEATURES

01 Robust, Enclosed, or Semi-Enclosed Frames



02 Continuous Material Flow



03 Dust & Containment Control and Easy to Clean



#2 BUCKET ELEVATOR

Sanitary stainless fabrication & installation.

UNIQUE FEATURES:

- Rugged belt or chain design
- Controlled discharge system
- Enclosed construction for safety

BENEFITS:

- Efficient vertical lift
- Protects product integrity
- Reduces spillage and dust



#3 SCREW CONVEYOR

Isolate explosion propagation.

UNIQUE FEATURES:

- Variable pitch flights
- Food-grade stainless
- Dust-tight enclosures

BENEFITS:

- Reliable transfer
- Easy cleaning
- Low maintenance



#4 TUBULAR DRAG CONVEYOR

Blend liquids or melt solids into liquid form for downstream use.

UNIQUE FEATURES:

- Twin-strand chains
- Wear-resistant liners
- Low-speed operation
- Enclosed tubular design

BENEFITS:

- Dust-tight handling
- Long wear life
- Preserve product quality
- Maintain clean workspaces



ACCESSORIES

- Conveyor Belting
- Drive Assemblies
- Inlet Hoppers
- Discharge Spouts
- Bearing Sets
- Tensioning Units
- Monitoring Sensors
- Idler Rollers
- Pulley Assemblies
- Skirt Boards & Seals
- Impact Beds
- Belt Cleaners/Scrapers
- Chutes & Diverters
- Dust Suppression Systems
- Safety Guards & Gates
- Belt Covers & Enclosures

APPLICATIONS

Food, Chemical, Agriculture, Mining, Plastics

[Food] Grain, flour, sugar, starch, dairy powders

[Chemical] Fertilizers, detergents, resins, pigments

[Agriculture] Corn, soybeans, feed, oilseeds

[Mining] Coal, cement, aggregates, limestone

[Plastics] Pellets, powders, recycled resin ils, syrups, dairy, sauces, juices, concentrates.



CONTACT US!

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