

MODERN PROCESS EQUIPMENT CORPORATION



CHAIN-VEY®



**THE ADVANTAGES TO
CHAIN-VEY**

IN THE PET FOOD & ANIMAL FEED INDUSTRIES



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CHAIN-VEY APPLICATIONS

WHAT PART OF THE PET FOOD PROCESS MAKES SENSE FOR CHAIN-VEY?

1

DRY INGREDIENT UNLOADING*

*FULL LIST OF PRODUCTS TO BE EVALUATED

2

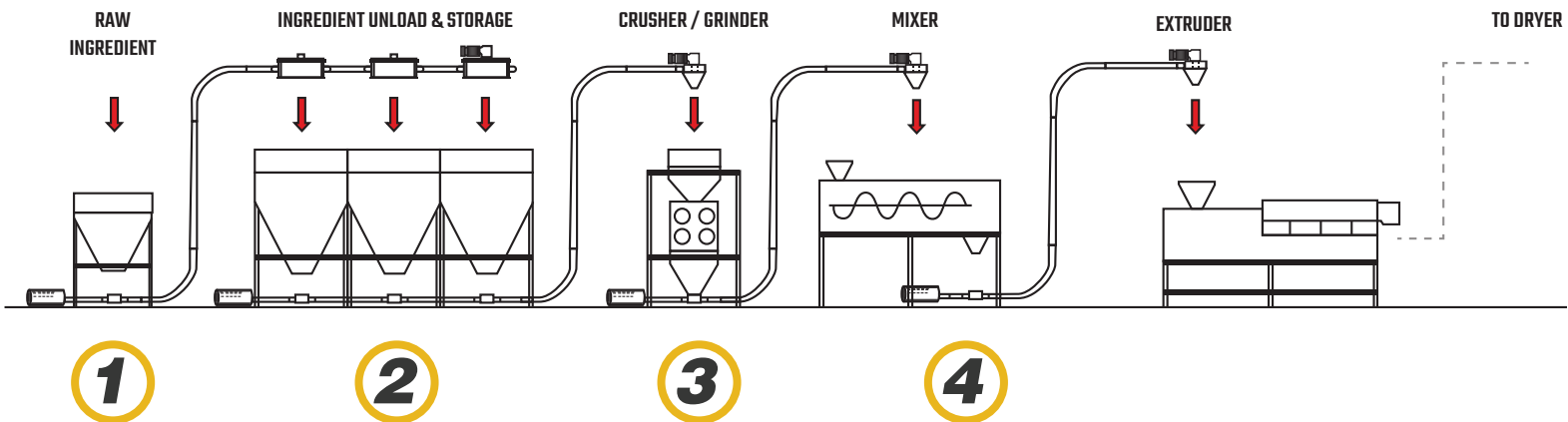
STORAGE TO CRUSHER / GRINDER

3

CRUSHER / GRINDER TO MIX / BLENDER

4

MIXER / BLENDER TO EXTRUDER



LET US HELP

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5

FINES TO REWORK OPERATION

ELIMINATE COMPLEX SERIES OF SCREWS CONVEYORS / AUGERS / DRAG

6

FINISHED KIBBLE TO COATER OR SCREENER

ELONGATED INLET TO MATCH WIDTH OF DRYER DISCHARGE BED
MINIMUM PRODUCT DEGRADATION

7

COOLER TO FINISHED GOODS STORAGE*

EVALUATE FAT & MOISTURE CONTENT

8

FINISHED GOODS TO PACKAGING

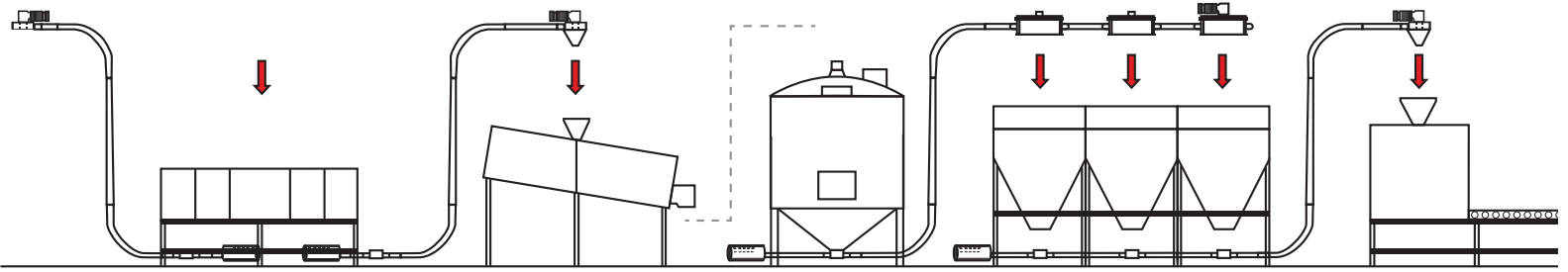
FINISHED KIBBLE & FINE RECLAIM

COATER

COOLER

FINISHED GOODS STORAGE

PACKAGING



5

6

7

8

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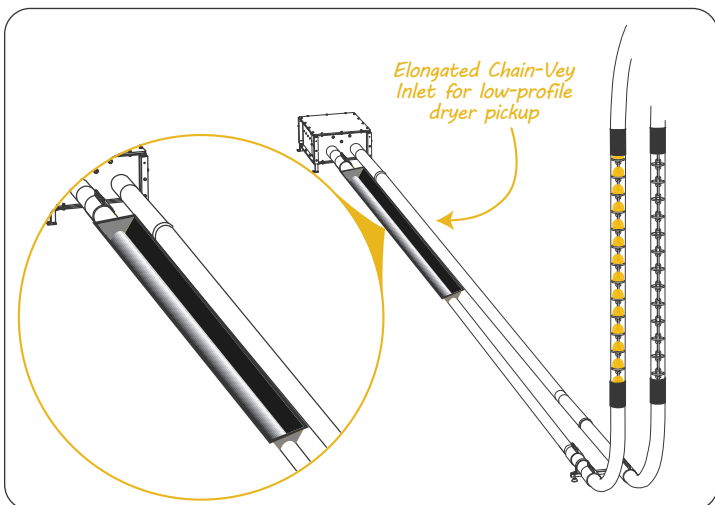
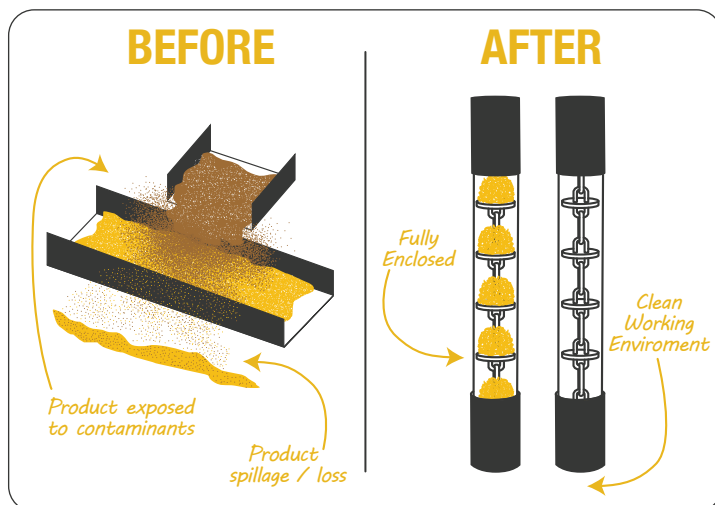
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CHAIN-VEY ADVANTAGES

EXAMPLE #1: INCREASED YIELD

- Minimize Product Breakage, Degradation, and Declassification
- Flexible Design Options
 - Combines Horizontal & Vertical Transport in one System
- Fully Enclosed - Air & Dust Tight
- Energy Efficient
 - 5x more efficient than pneumatic dense phase
- Robust & Reliable
- 100% positive cleanout
- Clean-In-Place (CIP) Capabilities (Non-water)

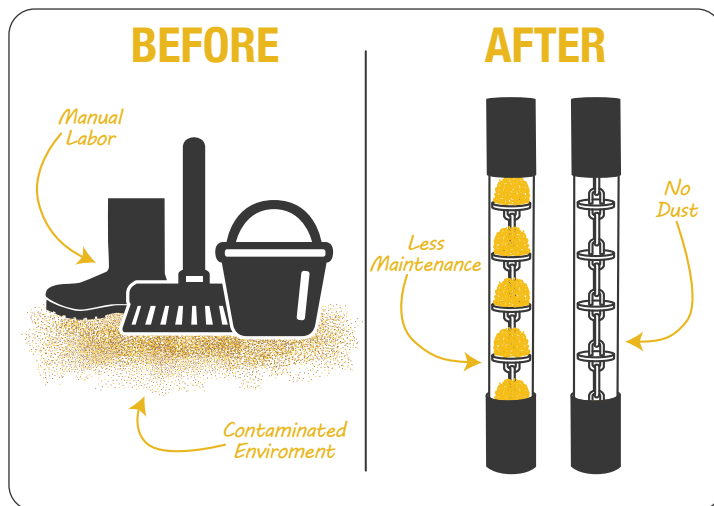


EXAMPLE #2: LESS BREAKAGE

- Eliminate Kibble Breakage
- Fully Enclosed - Air & Dust Tight
- Low Profile Pickup from Dryer - 1.5 ft. height required. Chain-Vey inlet spans the entire length of the dryer belt
- 100% positive cleanout
- Capacity up to 28 ton/hr.

EXAMPLE #3: LESS DRYER FINES

- Simplify Conveyance Equipment
 - One Chain-Vey replaces a complete array of screw augers, bucket elevators and drag conveyors
- Clean-Up Dryer Area
 - Fully enclosed system with no transfers for material spillage and dust-tight
- Reduce labor for emptying dryer fine spill points and sweeping floors
- Decrease maintenance costs with fewer conveyors to maintain



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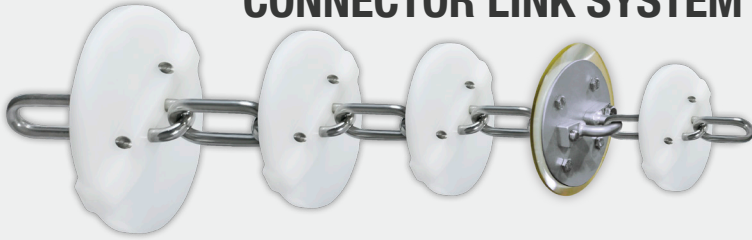
CHAIN-VEY SIZES & CAPACITIES

CHOOSE YOUR CONVEYING CAPACITY THAT BEST FITS YOUR APPLICATION

RELIABLE

SUPERMAX

CONNECTOR LINK SYSTEM



DISC MATERIALS PERFORMANCE

- FDA APPROVED UHMW DISCS
- DISC DESIGN OPTIONS INCLUDE DIRECT OVER-MOLDED ONTO STEEL CHAIN OR SPLIT DESIGN WITH SANITARY STEEL COMPRESSION RIVET FASTENER
- CHAIN AVAILABLE IN STAINLESS STEEL OR ULTRA HIGH STRENGTH HARDENED CARBON STEEL
- ALL CHAIN HAS ULTIMATE TENSILE STRENGTH OF OVER 16,000 LBS.

8 IN.

2,000 ft³/hr (56 m³/hr)

6 IN.

1,400 ft³/hr (40 m³/hr)

5 IN.

1,000 ft³/hr (28 m³/hr)

4 IN.

650 ft³/hr (18 m³/hr)

3 IN.

175 ft³/hr (8 m³/hr)

CONVEYS UP TO 28 TONS/HR ON KIBBLE

CHAIN-VEY CLEAN-IN-PLACE (CIP)

CLEANING SOLUTIONS TAILORED TO SPECIFIC SANITATION REQUIREMENTS

TIER 1 - DRY CLEANOUT / STANDARD DESIGN

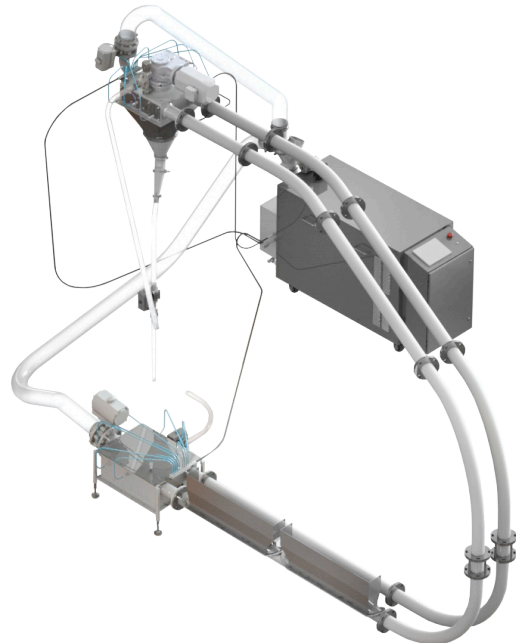
- Eliminates Carryover / Residual Material Cross Contamination

TIER 2 - HYBRID CIP (NON-WATER CIP CAPABLE)

- Integration with Existing Plant CIP Process / Skid or MPE Supplied Standalone Cleaning Units

TIER 3 - FULL CIP WITH MOBILE CLEANING CART

- Fully Automated CIP System & Mobile Cart
- Flanged Pipe Connections
- Passes All Swab Tests: ATP, Aerobic Plate Count, Coliform, Bio-Luminescent










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CHAIN-VEY® VS. OTHER CONVEYING METHODS

CONVEYOR DESIGN FEATURES							
CONVEYOR METHODS	MAINTAINS PARTICLE DISTRIBUTION (INTEGRITY)	AIR / DUST TIGHT	CLEAN-IN-PLACE (CIP)	ENERGY EFFICIENT	EXTENDED LENGTH CAPABILITY	LOW / NO MAINTENANCE	MULTIPLE INLETS / DISCHARGES
CHAIN-VEY®	✓	✓	✓	✓	✓	✓	✓
AUGER/ELEVATOR						✓	
BUCKET ELEVATOR	✓			✓			✓
DENSE PNEUMATIC		✓			✓		✓
DILUTE PNEUMATIC		✓			✓		✓

TYPICAL CHAIN-VEY® APPLICATIONS

FOOD

Barley
Bread Crumbs
Brown Sugar
Cereal
Cheese Powders

Cocoa
Coffee: Green
Coffee: Ground
Coffee: Roasted
Coffee: Whole Bean

Cookie Crumbs
Crackers
Flour: Corn
Flour: Wheat

Fruit: Dried
Fruit: Frozen
Hard Candy
Hops
Ingredients

Jelly Beans
Krill Oil
Malt / Meal
Oats: Rolled
Oats: Instant

Oats: Steel Cut
Pepper
Rice: Dried
Rice: Puffed
Snack Foods

Soluble Corn Fiber
Soup Mix
Spices
Tea
Vegetables: Frozen

Vitamins: Powdered
Wheat

BEANS / NUTS / SEEDS

Almonds
Black Beans
Cocoa Beans

Grains / Seeds
Great Northern Beans
Kidney Beans

Lentils
Lima Beans
Navy Beans

Oil Seeds
Pecans
Peanuts: Blanched

Peanuts: Roasted
Pinto Beans
Soy Beans

Walnuts

PET FOOD

Chicken Meal
Dry Food
Fines / Add backs

Fish Food
Fish Meal
Horse Feed

Raw Ingredients
Treats
Whole Kibble

CHEMICAL

Biomass (Torrefied)
Calcium Carbonate
Calcium Hydrate

Coke
Detergent
Feed Phosphate

Fertilizer
Flake Resin
Pesticide

Sodium Bicarbonate

MINERAL

Activated Carbon
Activated Coal Ash
Alumina Hydrate

Ash
Bentonite Clay
Carbonate

Clay
Coal
Coal: Brown

Coal: Dry
Graphite
Limestone

Sintered Dust
Talcum Powder

OTHER

Latex
Litter
Pellets

Pigments
Plastics
Sawdust

Shredded Waste
Tobacco
Wax Flakes

Wood Chips

DON'T SEE YOUR SPECIFIC APPLICATION?

Contact a MPE Sales Engineer in order to set up product feasibility testing at our Full Scale Chain-Vey Lab located in Chicago, IL, U.S.A.

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