



CHAIN-VEY®

TUBULAR DRAG CONVEYING SYSTEMS

**THE BETTER
WAY TO CONVEY**



WWW.MPECHICAGO.COM

+1 773.254.3929 | SOLUTION@CHAINVEY.COM



THE MOST GENTLE & EFFICIENT TRANSPORT AVAILABLE FOR VIRTUALLY ANY PRODUCT

180° TURNAROUND



**OCTAGON
BRUSH BOX**

Inline chain and disc cleaning



ROTARY DISCH

Pneumatically actuated r
for unobstructed product

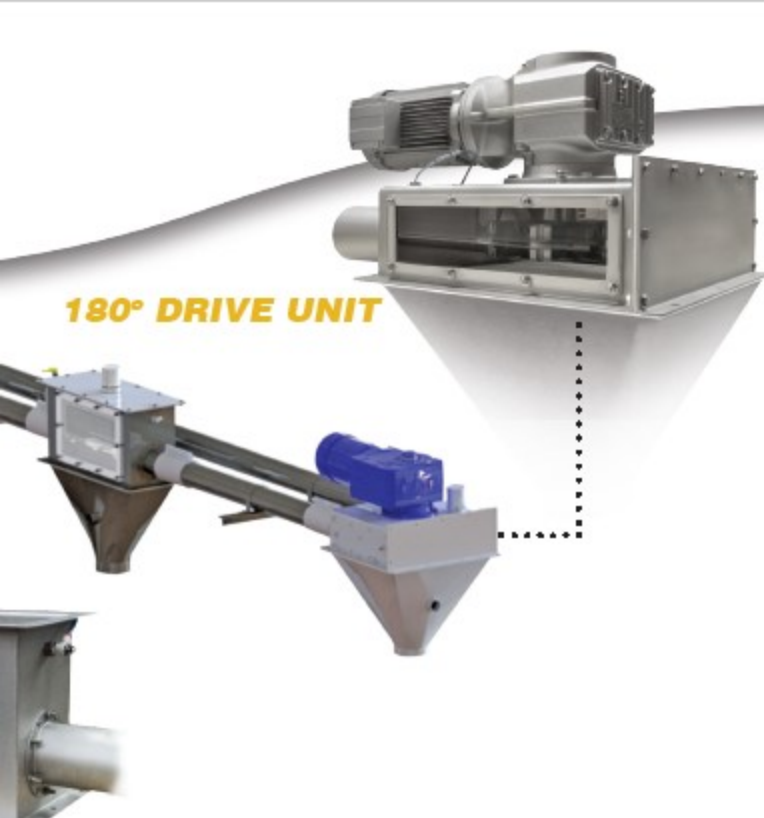


**REMOVEABLE
U-TRACK**



PRODUCT INLET
With optional flow baffle





180° DRIVE UNIT

CHARGE VALVE

Rotary valve allows
discharge

DISC MATERIALS AND PERFORMANCE

- FDA approved UHMW discs
- Disc design options include direct over-molded onto stainless steel chain or split design with sanitary stainless steel compression rivet fastener
- Chain available in 301 stainless steel or ultra high strength hardened carbon alloy steel
- All chain has ultimate tensile strength of over 16,000 lb.

CHOOSE YOUR CONVEYING

CAPACITY

8 IN. 6 IN. 5 IN. 4 IN. 3 IN.

2,000 ft³/hr (56 cu³/hr)

1,400 ft³/hr (40 cu³/hr)

1,000 ft³/hr (28 cu³/hr)

650 ft³/hr (18 cu³/hr)

175 ft³/hr (5 cu³/hr)

RELIABLE

SUPERMAX

CONNECTOR LINK SYSTEM

CHAIN-VEY®

A DIVISION OF MODERN PROCESS EQUIPMENT CORPORATION

2125 SOUTH KOLIN AVENUE • CHICAGO, ILLINOIS 60623 U.S.A.

TOTAL SYSTEM SOLUTIONS



AVAILABLE SYSTEM DESIGNS



CHAIN-VEY® DESIGN TYPE	CLEANING CAPABILITIES	DESIGN FEATURES & OPTIONS	AUXILIARY CLEANING EQUIPMENT & SERVICES
STANDARD	• Ideal for Dry Products and Ingredients • <1% Crossover Between Batches and/or Product Changeovers • Eliminates Product Accumulation on Chain/Puck and Internal Components	• Polyurethane Wiper Disc • Magnethane Wiper Disc • Adjustable Air Knives	• Brush Box (Dynamic) • Brush box (Static) • Drive Unit Puck Knocker
HYBRID CLEAN-IN-PLACE	• Facilitates the introduction of Water, Foam and/or Dry Ice into System • Permits Change in Flavor Profiles and Product Colors • Changeover Between Product Varieties (i.e. gluten /non-gluten) • Eliminates Allergens	• Modifications to Turnaround, Drive and Discharge Valves to Include Spray Nozzles, Drying Port and Drain Pan • Cleanout Access Doors on Transitions, Turnaround and Drive Unit • Drop-in Sponge Link • Flange Pipe Connections • Full CIP Turnaround and Drive Unit Design	• Standalone Foaming Unit and Dry Ice Blasting Unit • Integration of Existing Plant CIP System/Practices • Manifold Design to Facilitate Quick Connection Points • Automated Drain and Drying Valves for Automated Cleaning Cycles • Fully Automatic Mobile Cleaning Cart Facilitating Four Stage CIP Cycle: Rinse, Wash, Sanitize and Dry
CLEAN-IN-PLACE	• Facilitates the introduction of Water, Foam and/or Dry Ice into System • Permits Change in Strong Flavor Profiles and Product Colors • Changeover Between Product Varieties (i.e. gluten /non-gluten) • Passes All Swab Tests: ATP, Aerobic Plate Count, Coliform, Bi-Luminous	• Flanged Pipe Connections Allowing System to be Flooded • Full CIP Turnaround & Drive Unit Design Including Elimination of Harborage Points, Spray Nozzles, Drying Ports and Drains • Nitric Acid Passivation • Pipe and Component Polish	• Integration of Existing Customer CIP System/Practices • Manifold Design to Facilitate Quick Connection Points • Automated Drain and Drying Valves for Automated Cleaning Cycles • Fully Automated Mobile Cleaning Cart Facilitating Four Stage CIP Cycle: Rinse, Wash, Sanitize, Dry

COMPARE OUR SYSTEM ➡

LET US HELP

Ask about our free product testing
and system design capabilities.

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THE MPE
CHAIN-VEY®
TUBULAR DRAG CONVEYOR

**CONVEYS PRODUCTS GENTLY,
EFFICIENTLY, HORIZONTALLY AND
VERTICALLY IN A DUST-TIGHT
ENVIRONMENT WITHOUT PRODUCT
DEGRADATION OR DECLASSIFICATION**

CHAIN-VEY® BENEFITS:

- **MINIMIZES PRODUCT BREAKAGE,
DEGRADATION AND DECLASSIFICATION
(SEGREGATION)**
- **FLEXIBLE: COMBINES HORIZONTAL AND
VERTICAL TRANSPORT IN ONE SYSTEM**
- **CIP (CLEAN-IN-PLACE) CAPABILITIES
FOR OPTIMUM SANITARY CONDITIONS**
- **ENERGY EFFICIENT**

SUPERIOR
CONVEYING



THE IDEAL CONVEYOR FOR FOODS AND BULK SOLIDS

CHAIN-VEY® vs. OTHER CONVEYOR 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	Cocoa	Cookie	Fruit: Dried	Jelly Beans	Oats: Steel Cut	Soluble Corn Fiber	Vitamins: Powdered
Bread Crumbs	Coffee: Green	Crumbs	Fruit: Frozen	Krill Oil	Pepper	Soup Mix	Wheat
Brown Sugar	Coffee: Ground	Crackers	Hard Candy	Malt / Meal	Rice: Dried	Spices	
Cereal	Coffee: Roasted	Flour: Corn	Hops	Oats: Rolled	Rice: Puffed	Tea	
Cheese Powders	Coffee: Whole Bean	Flour: Wheat	Ingredients	Oats: Instant	Snack Foods	Vegetables: Frozen	

BEANS / NUTS / SEEDS

Almonds	Grains / Seeds	Lentils	Oil Seeds	Peanuts: Roasted	Walnuts
Black Beans	Great Northern Beans	Lima Beans	Pecans	Pinto Beans	
Cocoa Beans	Kidney Beans	Navy Beans	Peanuts: Blanched	Soy Beans	

PET FOOD

Chicken Meal	Fish Food	Raw Ingredients
Dry Food	Fish Meal	Treats
Fines / Add backs	Horse Feed	Whole Kibble

CHEMICAL

Biomass (Torrefied)	Coke	Fertilizer	Sodium Bicarbonate
Calcium Carbonate	Detergent	Flake Resin	
Calcium Hydrate	Feed Phosphate	Pesticide	

MINERAL

Activated Carbon	Ash	Clay	Coal: Dry	Sintered Dust
Activated Coal Ash	Bentonite Clay	Coal	Graphite	Talcum Powder
Alumina Hydrate	Carbonate	Coal: Brown	Limestone	

OTHER

Latex	Pigments	Shredded Waste	Wood Chips
Litter	Plastics	Tobacco	
Pellets	Sawdust	Wax Flakes	

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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