

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®	✓	✓	✓	✓	✓	✓	✓
CABLE	✓	✓	✓	✓			✓
AUGER / ELEVATOR						✓	
BUCKET ELEVATOR	✓			✓			✓
DENSE PNEUMATIC		✓			✓		✓
DILUTE PNEUMATIC		✓			✓		✓

TYPICAL CHAIN-VEY® APPLICATIONS

<b>FOOD</b>							
Barley	Cocoa	Cookie Crumbs	Fruit: Dried	Jelly Beans	Oats: Steel Cut	Soluble Corn Fiber	Vitamins: Powdered Wheat
Bread Crumbs	Coffee: Green	Crackers	Fruit: Frozen	Krill Oil	Pepper	Soup Mix	
Cereal	Coffee: Ground	Flour: Corn	Hard Candy	Malt / Meal	Rice: Dried	Spices	
Cheese Powders	Coffee: Roasted	Flour: Wheat	Hops	Oats: Rolled	Rice: Puffed	Tea	
	Coffee: Whole Bean		Ingredients	Oats: Instant	Snack Foods	Vegetables: Frozen	
<b>BEANS / NUTS / SEEDS</b>							
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			
<b>PET FOOD</b>							
Chicken Meal	Fish Food	Raw Ingredients					
Dry Food	Fish Meal	Treats					
Fines / Add backs	Horse Feed	Whole Kibble					
<b>CHEMICAL</b>							
Biomass (Torrefied)	Coke	Fertilizer	Sodium Bicarbonate				
Calcium Carbonate	Detergent	Flake Resin					
Calcium Hydrate	Feed Phosphate	Pesticide					
<b>MINERAL</b>							
Activated Carbon	Ash	Clay	Coal: Dry	Sintered Dust			
Activated Coal Ash	Bentonite Clay	Coal	Graphite	Talcum Powder			
Alumina Hydrate	Carbonate	Coal: Brown	Limestone				
<b>OTHER</b>							
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.



TUBULAR DRAG  
CONVEYING  
SYSTEMS

THE BETTER  
WAY TO CONVEY



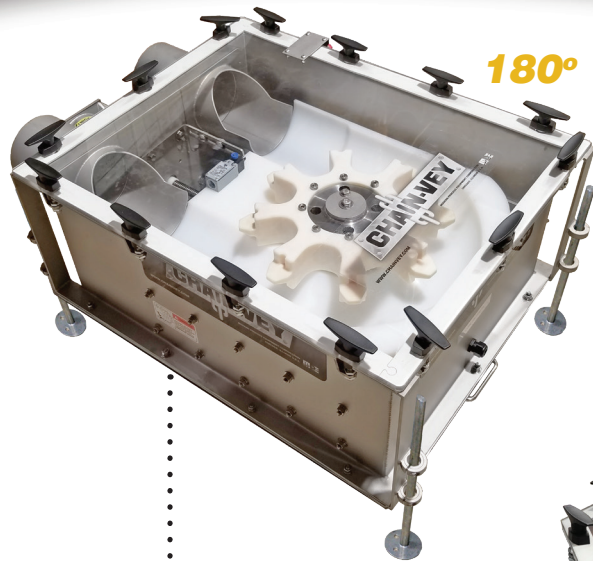
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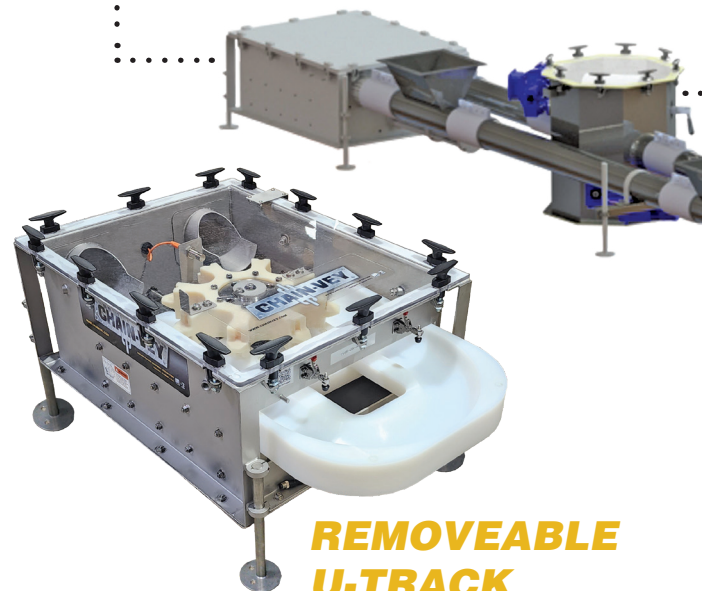
**THE MOST GENTLE & EFFICIENT**  
TRANSPORT AVAILABLE FOR VIRTUALLY ANY PRODUCT



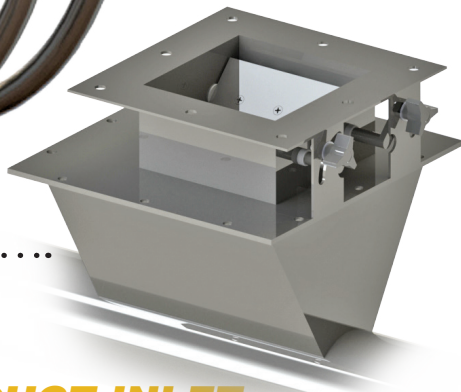
**180° TURNAROUND**



**OCTAGON  
BRUSH BOX**  
Inline chain and disc cleaning



**REMOVEABLE  
U-TRACK**

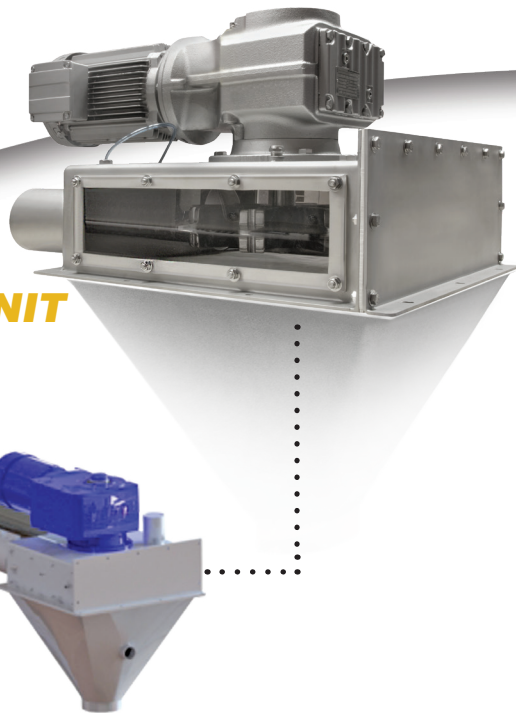


**PRODUCT INLET**  
With optional flow baffle



**180° DRIVE UNIT**

**ROTARY DISCHARGE VALVE**  
Pneumatically actuated rotary valve allows  
for unobstructed product 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 m³/hr) 1,400 ft³/hr (40 m³/hr) 1,000 ft³/hr (28 m³/hr) 650 ft³/hr (18 m³/hr) 175 ft³/hr (5 m³/hr)



**CONNECTOR LINK SYSTEM**

**TOTAL SYSTEM  
SOLUTIONS**



**AVAILABLE SYSTEM DESIGNS**

CHAIN-VEY® DESIGN TYPE	CLEANING CAPABILITIES	DESIGN FEATURES & OPTIONS	AUXILIARY CLEANING EQUIPMENT & SERVICES
<b>STANDARD</b>	<ul style="list-style-type: none"><li>• Ideal for Dry Products and Ingredients</li><li>• &lt;1% Crossover Between Batches and/or Product Changeovers</li><li>• Eliminate Product Accumulation on Chain/Puck and Internal Components</li></ul>	<ul style="list-style-type: none"><li>• Polyurethane Wiper Disc</li><li>• Magnathane Wiper Disc</li><li>• Adjustable Air Knives</li></ul>	<ul style="list-style-type: none"><li>• Brush Box (Dynamic)</li><li>• Brush box (Static)</li><li>• Drive Unit Puck Knocker</li></ul>
<b>HYBRID CLEAN-IN-PLACE</b>	<ul style="list-style-type: none"><li>• Facilitates the introduction of Water, Foam and/or Dry Ice into System</li><li>• Permits Change in Flavor Profiles and Product Colors</li><li>• Changeover Between Product Varieties (i.e. gluten /non-gluten)</li><li>• Eliminate Allergens</li></ul>	<ul style="list-style-type: none"><li>• Modifications to Turnaround, Drive and Discharge Valves to Include Spray Nozzles, Drying Port and Drain Pan</li><li>• Cleanout Access Doors on Transitions, Turnaround and Drive Unit</li><li>• Drop-in Sponge Link</li><li>• Flange Pipe Connections</li><li>• Full CIP Turnaround and Drive Unit Design</li></ul>	<ul style="list-style-type: none"><li>• Standalone Foaming Unit and Dry Ice Blasting Unit</li><li>• Integration of Existing Plant CIP System/Practices</li><li>• Manifold Design to Facilitate Quick Connection Points</li><li>• Automated Drain and Drying Valves for Automated Cleaning Cycles</li><li>• Fully Automatic Mobile Cleaning Cart Facilitating Four Stage CIP Cycle: Rinse, Wash, Sanitize and Dry</li></ul>
<b>CLEAN-IN-PLACE</b>	<ul style="list-style-type: none"><li>• Facilitates the introduction of Water, Foam and/or Dry Ice into System</li><li>• Permits Change in Strong Flavor Profiles and Product Colors</li><li>• Changeover Between Product Varieties (i.e. gluten /non-gluten)</li><li>• Passes All Swab Tests: ATP, Aerobic Plate Count, Coliform, Bi-Luminous</li></ul>	<ul style="list-style-type: none"><li>• Flanged Pipe Connections Allowing System to be Flooded</li><li>• Full CIP Turnaround &amp; Drive Unit Design Including Elimination of Harborage Points, Spray Nozzles, Drying Ports and Drains</li><li>• Nitric Acid Passivation</li><li>• Pipe and Component Polish</li></ul>	<ul style="list-style-type: none"><li>• Integration of Existing Customer CIP System/ Practices</li><li>• Manifold Design to Facilitate Quick Connection Points</li><li>• Automated Drain and Drying Valves for Automated Cleaning Cycles</li><li>• Fully Automated Mobile Cleaning Cart Facilitating Four Stage CIP Cycle: Rinse, Wash, Sanitize, Dry</li></ul>

**COMPARE OUR SYSTEM ➡**