

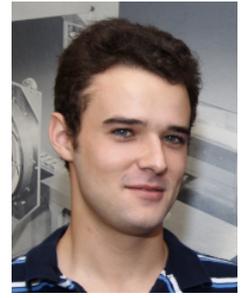


BUCKET ELEVATORS



FRAZIER & SON
WE CONVEY QUALITY™

OUR HISTORY



Frazier & Son was officially founded by M.R. Frazier Sr. in 1930 in Alexandria, VA. Frazier & Son got it's start developing and patenting a four pocket volumetric filler, called the WHIZ-PACKER. The WHIZ-PACKER was developed to measure and package nuts. In 1939, the family and business moved to Belleville, NJ and operated out of a few small shops in the area. In 1945, M.R. Frazier Sr. passed away and his son, M.R. "Bob" Frazier Jr. took over operations. In 1952, Frazier & Son built a new 5,000 sq. ft. manufacturing facility and production moved to Clifton, NJ.

Due to demand for higher production rates in the 1950's, high speed 18 and 24 pocket volumetric fillers capable of 140 containers per minute were developed. After building a few of the larger fillers, Bob Frazier saw a need to elevate and convey product to the high speed volumetric fillers. The WHIZ-LIFTER bucket elevator was developed soon after, meeting the need of conveying product to the large fillers.

In 1960, a 5,000 sq. ft. addition was completed to increase overall manufacturing facility size to 10,000 sq. ft. The success of the WHIZ-LIFTER continued to grow, and by 1976, Frazier & Son had leased an additional 11,000 sq. ft. manufacturing facility dedicated to painting and assembly of elevators. In 1978, Bob Frazier's son, Mark Frazier, started working part time while attending school and in 1980, began working full-time for Frazier & Son. By 1986, Mark had assumed the role of General Manager and in 1990 took over operations.

In 2004, Frazier & Son relocated to Conroe, TX in a 52,000 sq. ft. facility to better suit the needs of East and West coast customers and to better serve our international customer base. In 2005, Mark Frazier's oldest son, Greg Frazier, began working full time, specializing in Sales and Application Engineering. Also in 2005, Mark's youngest son, Kyle Frazier, starting working full time generating drawings in computer-aided software (CAD) and 3D Modeling, control development and wiring, and operating CNC Equipment.

Providing quality bucket elevators and conveyors is what we at Frazier & Son have been perfecting throughout four generations.

Let us show you how We Convey Quality™.



CONVEYORS



ADVANTAGES OF *WHIZ-LIFTER*™ CONVEYORS

- Gentle Handling – Fragile products can be handled without product degradation
- Sanitary design – careful attention to details allow us to meet or exceed the customer's sanitation requirements
- Safe – Exceeds basic OSHA safety requirements offering several different guarding options
- Interlocking bucket design – rounded bucket lip sheds product and prevents product spillage
- Over 10 different configurations to fit any application and/or layout needs
- Single and Multiple discharge designs available
- Capability to integrate with a variety of upstream and downstream equipment
- Versatile – Serves a variety of industries and products – foods, chemicals, plastics, and more!
- Right the First Time – Utilize computer-aided drafting (CAD) software to provide preliminary drawings with all quotations to ensure correct installations the first time.
- Customization of Infeed and Discharge available to meet customer specific requirements, reduce product free-fall drop, and system integration
- Energy Efficient – Most elevators run on fractional horse power motors
- Long Life Cycle – Life span is measured in decades rather than years!
- Ideal for Indexing Applications such as kit assemblies, food product assemblies, and more!

FEATURES

WHIZ-LIFTER™ Standard Features

- All bucket elevators are designed and manufactured to meet all customer's requirements including sanitation and safety.
- Type 304 stainless steel frames with 2B Finish and smooth interior surfaces
- Type 304 stainless steel tubular legs and drive frames
- Framework and components are mounted on standoffs to reduce or eliminate film of water points
- Product contact points, other than buckets, are all stainless steel
- All welds in product contact are ground smooth
- Stainless steel shafts
- Carbon steel sprockets
- Premium carbon steel conveyor chain
- Continuous TIG welds throughout
- Smooth body TEFC-AC motor
- Right Angle gear box provides reliable power transmission. Minimum service factor is 1.5
- Stainless steel take-up units with spring loading for simple, accurate chain tensioning
- Stainless steel non-adjustable cams and guides for maintenance free bucket tracking
- Sanitary UHMW Chain Guides captivate the chain to provide excellent stability and wear resistance
- Standard LEXAN® Buckets - durable, tough, and sanitary
- All stainless steel hardware, no split lock washers are used and aircraft lock nuts are used throughout
- All controls carry the cUL_{US} label

WHIZ-LIFTER™ Optional Features

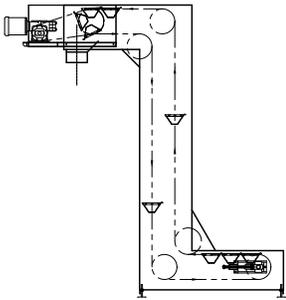
- A variety of Washdown/Corrosion Resistant configurations/designs are available to suit our customer's unique requirements
- Motor construction options include TENV, Washdown Duty and Explosion Proof
- Motors are suited to meet customer power requirements such as 380V/50Hz or 575V/60Hz
- Optional Bucket materials include polypropylene, metal-impregnated polypropylene, XYLEX®, XENOY® and stainless steel.
- Dimpled buckets as well as textured sheet metal are available when product release issues exist
- Tamping discharges available to aid in product release for frozen foods or sticky products
- Indexing drives available for kit assemblies, food product assemblies, etc.
- Custom controls are available to suit non-standard applications
- Customized equipment to feed the elevators are available
- Downstream devices, such as cross-feeders, are available

CONFIGURATIONS

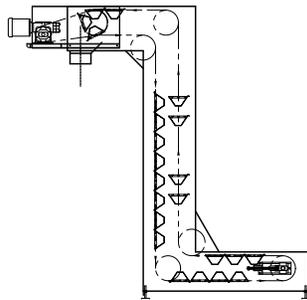
Choose the configuration that best suits your needs—Single versus Multiple Discharges and/or Intakes, Z-Shaped Buckets versus U-Shaped, etc. Product lowering models available, although not shown.

Please note that these are “common” configurations and custom configurations are available.

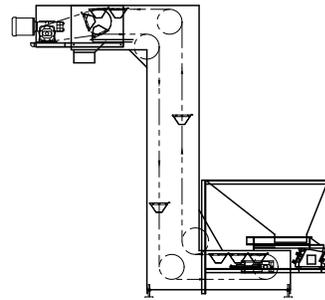
SINGLE DISCHARGE



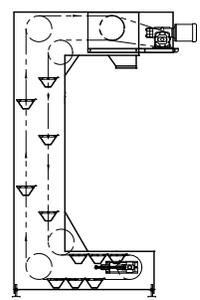
MODEL C - SANITARY CHANNEL FRAME



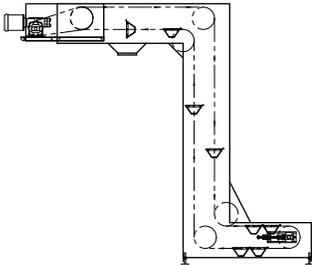
MODEL C WASHDOWN - SANITARY CHANNEL FRAME



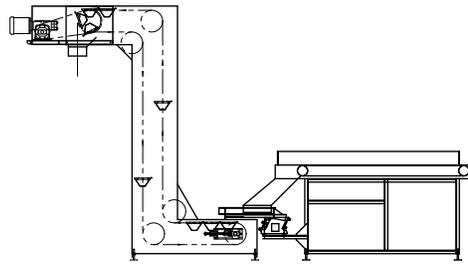
MODEL C - SANITARY CHANNEL FRAME WITH HOPPER AND VIB. FEEDER



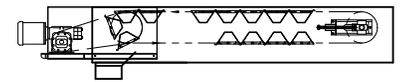
MODEL CU - SANITARY CHANNEL FRAME



MODEL CBT SINGLE DISCHARGE

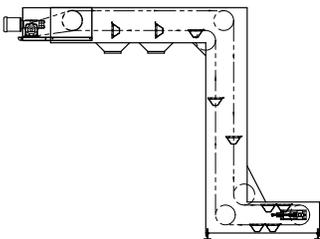


MODEL CU - SANITARY CHANNEL FRAME WITH STORAGE BELT AND VIBRATORY FEEDER

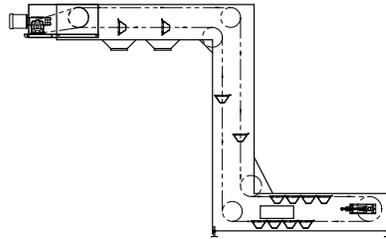


MODEL TC - CHANNEL FRAME

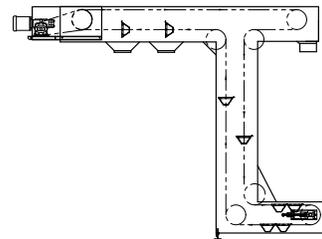
MULTIPLE DISCHARGE



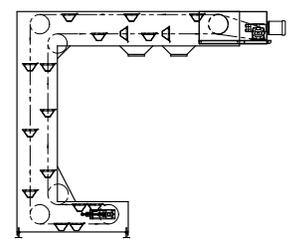
MODEL CBT - MULTIPLE DISCHARGE SANITARY CHANNEL FRAME



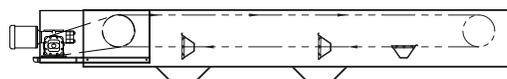
MODEL CB - MULTIPLE DISCHARGE SANITARY CHANNEL FRAME



MODEL CBT-RE - MULTIPLE DISCHARGE WITH RETURN SANITARY CHANNEL FRAME



MODEL CBT-U - MULTIPLE DISCHARGE SANITARY CHANNEL FRAME



MODEL TC-CBT - CHANNEL FRAME

CAPACITY CHARTS

CONVEYOR BUCKET CAPACITIES

BUCKET SIZE	4" X 8"	6" X 10"	7.5" X 15"	9" X 20"	12" X 30"
STRUCK VOLUME (IN ³)	34	110	275	500	1125
USABLE VOLUME (75%)	25.5	82.5	206	375	843

STANDARD CONVEYOR CAPACITIES "C" & "CB" MODELS AT 45 FPM

BUCKET SIZE	4" X 8"	6" X 10"	7.5" X 15"	9" X 20"	12" X 30"
BUCKET SPEED	135	90	72	60	45
CAPACITY Cubic Feet/Min.	2	4	8.3	13	22
Cubic Feet/Hour	120	240	500	780	1320

STANDARD CONVEYOR CAPACITIES "CBT" MODELS AT 45 FPM

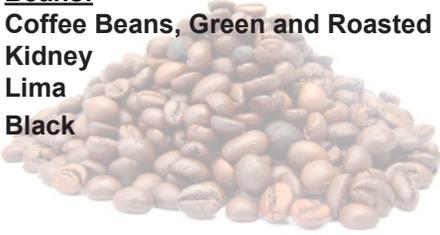
BUCKET SIZE	4" X 8"	6" X 10"	7.5" X 15"	9" X 20"	12" X 30"
BUCKET SPEED	135	90	72	60	45
CAPACITY Cubic Feet/Min.	1.5	3	6.3	9.3	16.5
Cubic Feet/Hour	90	180	382	585	990

All volumes and capacities are based on a controlled, uniform feed of product to the conveyor and properly loaded buckets. Uneven loading, surges and voids, and non free flowing products can severely affect production rates. We cannot guarantee bucket sizing in relationship to production rate without receiving representative samples of the product(s) to be conveyed and all details pertaining to the intended feed system to the elevator and details of the intended operation. Consult the factory for assistance in determining bucket size. Frazier & Son cannot be responsible for improper size selection by others.

INDUSTRIES SERVED

Beans:

Coffee Beans, Green and Roasted
Kidney
Lima
Black



Cereals:

Flaked Cereals
Toasted Oats
Rolled Oats
Oatmeal
Extruded Cereals
Puffed Rice



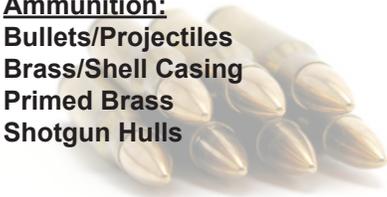
Confections:

Gummy Candies
Hard Candies
Soft Candies (Sanded or Unsanded)
Jelly Beans
Lollipops
Taffy
Candy Corn



Ammunition:

Bullets/Projectiles
Brass/Shell Casing
Primed Brass
Shotgun Hulls



Kit Assembly:

Game Pieces
Household Hardware Kits
Syringe Components
Soup Mix



IQF Fruits & Veggies:

Strawberries/Blueberries/
Cranberries
Peas
Corn
Broccoli
Carrot



Chocolates:

Hard Coated Chocolates
Melting Chocolates
Chocolate Chips
Chocolate Chunks
Chocolate Flakes
Chocolate Covered Raisins/Nuts
Malted Milk Balls



Seeds:

Bird Seed
Sunflower Seed
Pumpkin Seed
Seeds for Agriculture



Dried and Fresh Fruit:

Apricots Slices
Pineapple Slices
Apple Slices
Cranberries
Raisins
Shredded Coconut
Dates



Nuts:

Peanuts
Cashews
Pistachios
Macadamias
Almonds (Whole, Sliced, And Slivered)
Walnuts
Pecans



Snack Foods:

Tortilla Chips
Potato Chips
Pretzels
Cookies
Crackers
Bagel Chips
Fortune Cookies
Flavored/Unflavored Popcorn
Popcorn Kernels
Trail Mixes



Tea/Spices:

Sugar
Salt
Cinnamon
Loose Tea
Tea Bags



Pet Products:

Dog And Cat Food Kibble (Large And Small)
Horse Treats
Litter
Animal Feed
Rat Food/Poison
Dog Biscuits



Pasta:

Short Goods
Chinese Fried Noodles



Industrial Products:

Extruded Rubber Pellets
Catalysts For Petro-Chemical Industry
Plastic Pellets & Parts
Plastic Bottles
Sand
Coins
Bulk Hardware



FRAZIER & SON

PO Box 2847, Conroe, TX 77305
101 Longview , Conroe, TX 77301
Toll Free: 800.365.5438
Tel: 936.494.4040
Fax: 936.494.4045
www.frazierandson.com