

ROTARY TRAY ACCUMULATOR



DESIGN

The Rotary Tray Accumulator is a custom designed system available in 3, 4 or 5 tiers. Any tray size is accommodated with the flexible and space efficient design. The possibility of storing and carrying up to 5 times more trays than a traditional tray return conveyor.

This flexible system design allows the accumulator to be ordered with optional features that are custom tailored.

STANDARD EQUIPMENT

- 14 gauge type 304 stainless steel construction
- 1-5/8" stainless steel tubular legs with cross brace and adjustable feet
- Open type tray carriers for ease of cleaning
- Can rotate in either direction
- Variable Frequency Drive (VFD)
- Stainless steel water tight electrical control panel
- Start/stop switch
- Automatic shut-down for improper loading or improper unloading. One switch placed at the end of the load section which will shut the accumulator down if a tray is not loaded properly. A second switch is placed at the unload end to guarantee all trays have been properly removed.

OPTIONAL EQUIPMENT

- Roller conveyors
- Plastic slat belt conveyors
- Powered roller conveyors
- Waste troughs
- Stainless steel fabricated tabling
- NEMA control panel



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CONSTRUCTION

The Rotary Tray Accumulator has an all stainless steel frame with bracing as required to make a rigid structural unit. It comes with or without custom tabling as an integral part which is specified when ordered by the customer. The accumulator can be a stand alone piece of equipment supported by tubular stainless steel legs and cross-bracing with either bullet feet or flanged feet, both are height adjustable. Flange feet allow the unit to be bolted to the floor. The size of unit is specified by the customer.

TRAY CARRIERS

The tray carriers are constructed of stainless steel rods and are an open type design to be lightweight and easy to clean. The tray size determines the size of the tray carrier, and the quantity of carriers depends on the overall length available for the accumulator, and the quantity of trays to be carried.

The tray carriers are connected to the drive mechanism by hanging from connecting brackets, thus making a continuous strand of columns of tray carriers which can rotate around in either direction.

DRIVE

The Rotary Tray Accumulator is driven by a conveyor chain which is driven by a gear type motor which is controlled by a variable speed AC inverter. All controls required such as AC inverter, start/stop switches, etc., are enclosed in a stainless steel watertight control panel. The drive assembly is supported by stainless steel bracing as required and access to it is provided through stainless steel panels.

IMPROPER LOADING SWITCH

The Rotary Tray Accumulator is provided with a sensor switch to detect trays that have not been fully loaded into the tray carriers. When the switch senses improper loading of trays the conveyor is shut off.

MAIN CONTROL PANEL

A main control panel is provided of stainless steel construction to neatly contain all electrical components such as AC inverter, start/stop switches, etc., in a watertight enclosure. 24 volt control panel.

APPROVALS

The Rotary Tray Accumulator is manufactured to conform to the highest applicable CSA and NSF standards.