

TR2000 Series Cartoners

Features:

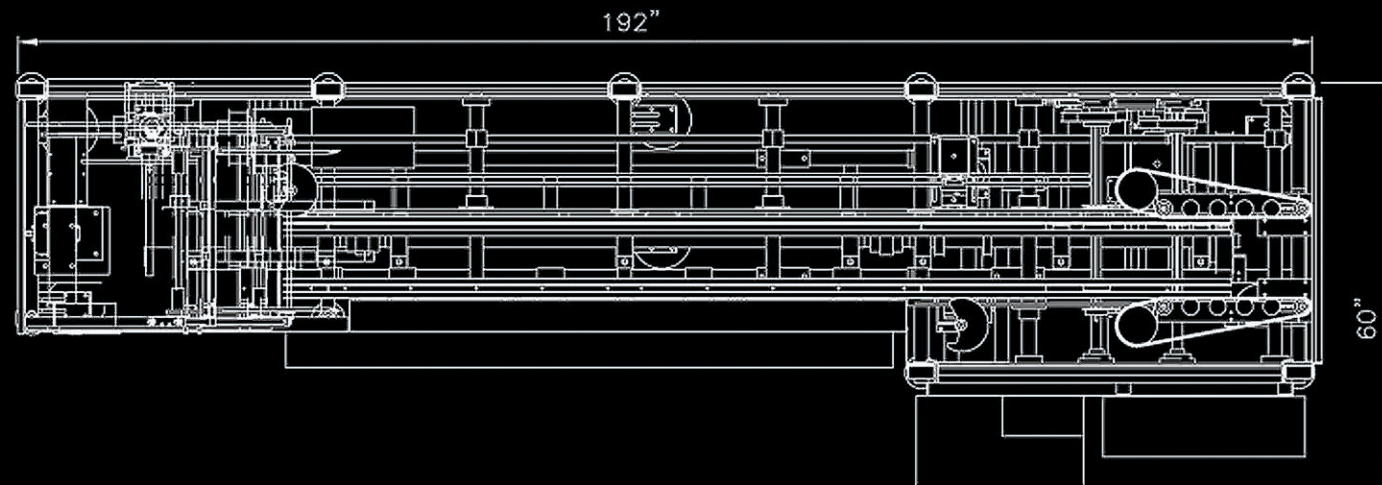
- Clean, efficient design
- Precision machining throughout
- 1,000 - 1,200 preglued carton capacity magazine
- Rotary carton feeder (speeds from 5 to 240 CPM)
- Variable speed servo main drive motor and gear reducer
- Retrofit upgrade with Autoload module available
- Stainless steel manual loading platform accommodates two operators
- Nordson® hot melt adhesive applicator
- Self-centering belt and roller compression for glued cartons
- Synchronous leading flight adjuster
- Vertically elevating operator access doors
- Stainless steel lower guarding
- Heavy duty fabricated stainless steel frame
- Panelview 600 HMI with color display

Benefits:

- Premium quality assures long service life
- Easy to upgrade to an Autoload
- Customers work directly with Trinamics
- Smooth acceleration provides easier loading
- Operator comfort assures productivity
- High quality, low maintenance, saves labour
- Easy to troubleshoot and service, saves time
- Fast changeover provides greater uptime
- Maximized productivity and profit

Options:

- Extended powered carton magazine
- Deboss coding
- Central or cluster lubrication
- Upgradable touch-screen interface
- Stainless steel washdown
- Recommended spare parts



Cartoning machines can be used for a wide range of applications in most industries including:

- Food and Beverage
- Confections
- Pharmaceutical
- Household and Industrial
- Manufacturing
- Automotive
- Dairy
- Meat and Poultry



50 Centennial Road, Orangeville, Ontario L9W 3T4
Telephone: 519-942-2442 Fax: 519-942-0886
www.trinamics.com

TR2000 Series Cartoners



TR2000ML, TR2000AL & TR2000ALX

Trinamics TR2000ML Manual Load, TR2000AL Autoload and TR2000ALX Fully Automatic Autoload Cartoners are designed to erect a variety of end load style cartons within a fully automatic, continuous duty environment.

The inherent design flexibility of Trinamics Manual and Autoload Cartoners provides an opportunity for future upgrades to accommodate higher speeds or greater product range.

TR2000 Series Cartoners are designed to provide food, beverage, and light industrial product manufacturers with improvements in overall packaging efficiency, productivity, competitiveness, and profitability.



TR2000 Series Cartoners

Discharge Belts

Strong, textured discharge belts positively remove cartons. Unique drive design centers carton during discharge to prevent carton jamming.



Operator Safety Doors

Vertically operating, category three interlocked operator access doors with clear Lexan® inserts provide full accessibility to the product stream. Secured panels below the product run provide full access for service and maintenance personnel.

Overload Protection

In case of a product or carton jam, overload detection hardware shuts the machine down to avoid mechanical damage.

Polymer Chain Slides

Carton apron chains run in enclosed polymer chain slides on the load and non-load side to ensure minimal wear and friction, reduced noise and increased service life.

Clean and Accessible Design

The user friendly design of the cartoner enhances operator confidence and equipment accessibility.



Frame

A heavy duty fabricated base frame of polished stainless steel provides an attractive and highly durable food plant finish. Fabrication welds throughout are continuous and pit free. Integrated machine casters provide portability, while large diameter adjustable footpads permit leveling for operation after installation.

Servo Drives

Highly flexible multi-axis servo drives provide precise speed and positional control in addition to reliability and repeatability. The inherent flexibility of servos leaves many options open for future considerations.

Manual Load Platform

The 9" wide stainless steel loading platform is 6' long to provide a clean and safe working surface for operators. Major flaps are guided out the way to create a fully opened carton to facilitate easy handling.



Programmable Logic Controller

A PLC provides programmed control for all timing and automated functions. Optional PLC platforms are available to meet a variety of standardization requirements.

User Friendly HMI Control Station

The operator control panel features a touch-screen with full color alphanumeric display (see options). System diagnostics and operational status are instantly available to operational/maintenance personnel.

Carton Blank Magazine

An integrated powered carton magazine holds a generous supply of cartons. The powered apron chains of the magazine advance the cartons on demand to provide consistency of carton extraction from the magazine. Optional magazine extensions are available.



Autoload and Fully Automatic Autoload

A variety of product infeed control systems are available to automatically index product from upstream into the cartoner bucket conveyor. Product is then conveyed forward to the barrel cam for automatic loading into the carton.

Rotary Carton Feeder

Trinamics patented rotary carton feeder is unique. Special drive arrangements require only one vertical adjustment when performing a carton width change. The feeder is capable of speeds from 10 to 240 cartons per minute or more.

Coding

Optional coding devices can be supplied to provide deboss, emboss or digital coding.

Quick Change Carton Length Adjustment

All leading flights are synchronously adjusted to facilitate carton length changes with a single, no-tool adjustment.



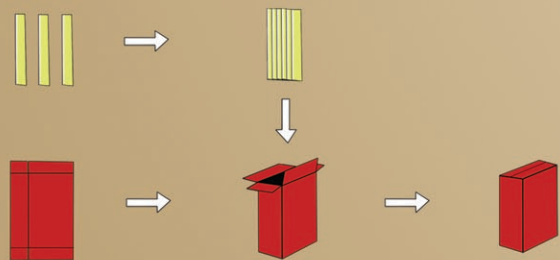
High Precision Timing Belts and Pulleys

Reinforced polyurethane timing belts used to transfer drive forces to mechanical components ensure reliability, repeatability, and care free operation over the long term. Belt stretch after installation is virtually eliminated.

Electrical Panel and Enclosures

The standard panel is a NEMA 12 enclosure and all wiring is contained in rigid electrical conduit to provide safe operation. NEMA 4 and NEMA 4X enclosures are available with stainless steel cartoners in a wash-down configuration.

TR2000ALX Fully Automatic Autoload Cartoner Sequence of Operation



Reliable Vacuum

Localized venturi style vacuum generators provide a consistent vacuum for reliable feeding of cartons. Other vacuum options are available to suit individualized specifications.

With the addition of a case erector

With the addition of a case packer

