



TRAY★STAR™ TS-2000 SERIES



PACKAGING SOLUTIONS THAT MEAN BUSINESS

TRAY★STAR™ TS-2000 SERIES

CONTINUOUS MOTION WRAP-AROUND TRAY LOADERS



ARPAC'S high-speed continuous motion TRAY★STAR™ TS-2000 SERIES makes tray loading a variety of products fast and easy. Wrap-around trays ensure that the product is enclosed in a tightly fit tray preventing scuffing and product damage.

TS-2000 systems collate a variety of product shapes and sizes, such as: bottles, cans, bundles, cartons or jars, and load them onto a wrap-around tray at speeds ranging from 35 to 120 trays a minute. The machine features gentle product handling and loading to keep your product looking newly packaged.

A rapid changeover option enables line operators to prepare the TS-2000 for a different product size in less than 30 minutes with ARPAC's color-coded lane spacing guides, user-friendly touchscreen controls and servo-controlled groupers.

The TS-2000 SERIES handles a wide range of products with its many infeed options and can be easily integrated with other equipment, including tray wrappers, turners and stackers.



TRAY★STAR™ TS-2000 SERIES

The TS-2000 SERIES is ideal for a variety of products:

- Cans
- Glass jars
- Plastic bottles
- Folding cartons
- Shrink wrapped bundles



Infeed Section with Color Coded Spacers for Fast Changeovers



Blank Feed



Flight Bar Section



Folding section



Compression Section

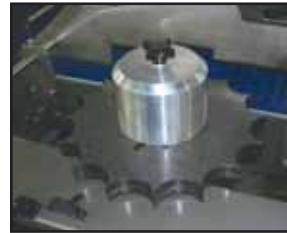
GROUPERS

ARPAC designs different groupers to accommodate a variety of product shapes. This assembly is used to separate products into pack groups and control the flow of product into the pacing flight bar assembly.



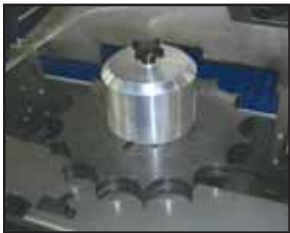
Servo Adjusted Side Belt

- 10 minute rapid changeover
- Accommodates round products only
- Tool-less servo adjustment



Mechanical Adjustable Star-wheel

- 45 minute changeover
- Accommodates round products only



Servo Adjustable Star-wheel

- 15 minute changeover
- Accommodates round products only
- Change parts



Bottom Pin Grouper

- 1 hour changeover
- Handles a wide variety of product configurations
- Groups products from below
- Available in fixed or rapid changeover configurations



Shuttle Grouper

- 30 minute changeover
- Allows for square products at slower speeds
- Pins or shifting lane guides group products on the infeed conveyor
- Change parts



Custom groupers available

Our primary focus is finding engineered solutions to your packaging needs. Many of our groupers are custom designed to our customer's exact specifications.

THE PROCESS FOR TRAY LOADING



The product is loaded onto a tray blank.



The cam closing tray lugs tightly fold the trailing side of the tray.



Small tabs located on the leading and trailing sides (minor flaps) of the tray are then folded in.



Hot melt glue is applied and the tray's (major) flaps are folded up, compressed & sealed.



Flight Bar Section



Product Grouper



Folding Section

TRAY★STAR™ TS-2000 SERIES

- enhanced blank feed system
- variety of infeed options
- easy integration in your packaging line
- gentle product handling
- quick product changeovers



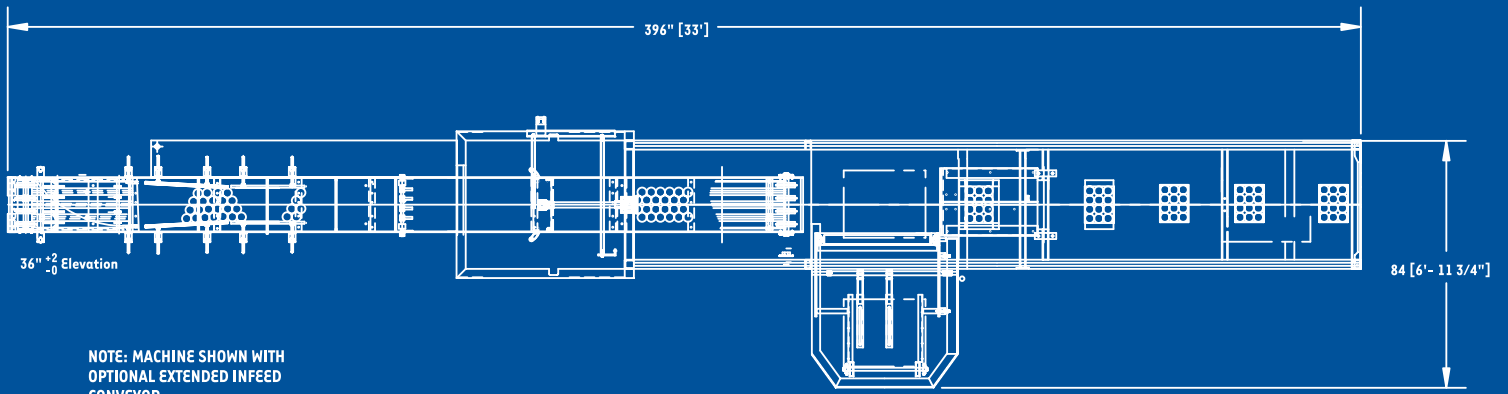
User-Friendly Operator Interfaces



Rapid Changeover with Color Coded Spacers

FEATURES

- Continuous motion wrap-around tray former/loader
- Simple machine adjustments and quick change capabilities for fast product changeovers
- Speeds up to 120 trays per minute (see chart)
- Heavy-duty rugged construction designed for durability and around-the-clock operation
- Laser cut and CNC machined components for maximum precision
- Baked on powder coat paint provides a durable scratch resistant surface and prevents corrosion
- Nordson ProBlue® hot melt glue unit for superior application flexibility and adhesion
- Rolling canopy guarding provides safe, easy access to the machines interior
- Allen-Bradley® programmable logic controller with ARPAC standard operator interface
- User-friendly ARPAC operator interface with message display and self diagnostics
- NEMA 12 electrical cabinet and controls
- Low blank alert
- Gentle product handling
- Central point lubrication simplifies preventive maintenance



*Note: Length of Machine Relates to Model

Model Shown: TS-2312

MODEL	SPEED UP TO	SERVO SIDE BELT	MECHANICAL SIDE BELT	SERVO STAR WHEEL	MECHANICAL STAR WHEEL	SHUTTLE GROUPEE	BOTTOM PIN GROUPEE	SIDE BLANK FEED	INLINE BLANK FEED
TS-2100	35 packs/min.					•		•	
TS-2200	45 packs/min.	•	•	•	•			•	
TS-2300	70 packs/min.	•	•					•	
TS-2400	90 packs/min.						•		•

SPECIFICATIONS

Power Requirements

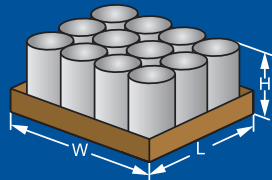
- Electrical: 240 or 480V, 3 Ø 60Hz, 200A
- Pneumatic: 80 psi, 20 SCFM
- NEMA 12 electrical cabinet and controls

Product Configurations (W x L)

- 2x3, 3x2, 3x4, 4x3 or 4x6 (side or star wheel grouper)
- 3x3 (side grouper and horizontal star wheel infeeds only)
- 5x5, 6x4, 7x5x1 (pin grouper and shuttle infeeds only)

Product Range (TS-2300)

- Width (across machine): 9"-20"
- Length (flow direction): 8"-19"
- Height: 3"-9"
- Tray wall height: 1.5" to 4"



OPTIONS

- Extended quantity blank feeds
- 1000 blank feed hopper
- Rapid changeover times in less than 15 minutes
- Wash-down construction stainless-steel frame
- NEMA 4X electrical cabinet and controls

* Other sizes available on request



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