



Final Layout May Vary

Model	Speed packs/min	Servo Side Belt	Servo Star Wheel	Servo Flight Bar	Top Pin Grouper	Side Blank Feed
TS-2100	Up to 35				•	•
TS-2200	Up to 45		•	•		•
TS-2300	Up to 60	•				•

**SPECIFICATIONS**

**Speed**

- Up to 60 trays per minute (see chart)

**Power Requirements**

- Electrical**
- 240 or 480V, 3Ph, 60Hz, 200A, 83kW or 166kW
  - Nema 12 electrical cabinet
  - Allen Bradley® controls

**Pneumatic**

- 80 psi, 20 CFM

**Product Range**

- 9" to 23" length across machine (AM)
- 7" to 18" width down machine (DM)
- 2" to 10" product height
- 1.5" to 4" tray wall height

**Product Configurations (W x L)**

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

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**TRAY★STAR™**  
**TS-2000 SERIES**  
CONTINUOUS MOTION WRAPAROUND TRAY LOADER

# TRAY★STAR™ TS-2000 SERIES



## MACHINE FEATURES

- Continuous motion wraparound tray former/loader
- Simple machine adjustments and quick change capabilities for fast product changeovers
- Speeds up to 60 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 finish 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® PanelView Plus 1000 operator interface with color touchscreen, message display and self-diagnostics
- NEMA 12 electrical cabinet
- Allen-Bradley® controls
- Low blank alert
- Gentle product handling
- Central point lubrication simplifies preventive maintenance

## 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 and sealed.

# PRODUCT GROUPERS

ARPAC's high-speed, continuous motion TrayStar™ Series makes tray loading a variety of products, such as bottles, cans, cartons, jars, fast and easy. The Traystar™ TS-2000 tray loader automatically loads product into a wraparound tray at speeds ranging from 1 to 60 trays per minute.

Wraparound trays ensure that the product is enclosed in a tightly fit tray, preventing scuffing and product damage. The machine features gentle product handling and loading to keep your product looking newly packaged.

ARPAC's rapid changeover design with color-coded lane spacing guides, user-friendly touchscreen controls, and servo controlled collators, allows line operators to switch to a different product size in less than 30 minutes.

The TS-2000 Traystar™ Tray Loader 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.

## MACHINE OPTIONS

- Extended quantity blank feeds
- Wash-down construction stainless steel frame
- Roller product hold-down
- NEMA 4X electrical cabinet



## Integrated Line

TRAY★STAR™ with Extended Blank Feed, Tray Stacker and Shrink Wrapper

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.

## STANDARD PRODUCT GROUPERS



### Top Pin Grouper

- 30 minute tool-less changeover of grouper
- Accommodates round products only



### Servo Driven Starwheel

- 15 minute changeover (servo)
- Accommodates round products only



### Servo Driven Side Belt

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

Custom Groupers Available Upon Request.