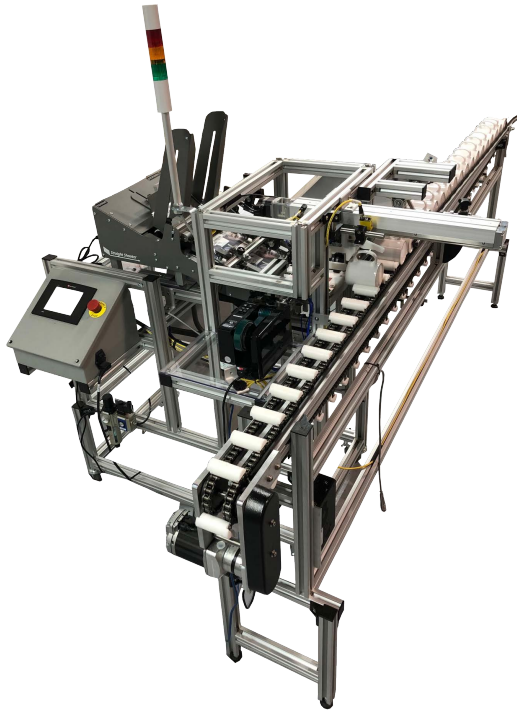




DARTRONICS, INC.
PACKAGING AUTOMATION SPECIALISTS

SMW-AUTO

Sublimation Mug Wrap System



The SMW-AUTO Mug Wrap System was designed to wrap cut sublimation sheets around 11 & 15 oz. mugs.

15+ mugs can be wrapped at each wrap station.

Having multiple wrap stations can double and triple the output of the wrapped mugs. Finished mugs can be placed into the Mug Slings and then into the oven.

1 PRODUCT

The SMW-AUTO Mug Wrapping System has been designed to speed up the process and improve the accuracy of wrapping sublimation sheets around 11 & 15 oz. mugs.

- Estimated to wrap 15+ mugs per minute.
- Operators are needed for placing mugs on and off of the indexing conveyor.
- Robotic options are available for loading and unloading.
- Mug Handle Straightening Mechanism
- Demand Friction Feeder for Feeding Sublimation Sheets
- Industrial Tape Dispenser x 2
- Sublimation Sheet 1D Barcode Reader with Inline Sheet Reject
- Sheet Tape Application & Mug Wrapping Mechanism
- Sublimation Sheet and P&A Label 1D Barcode Match Verification System with In-Line Mug Reject

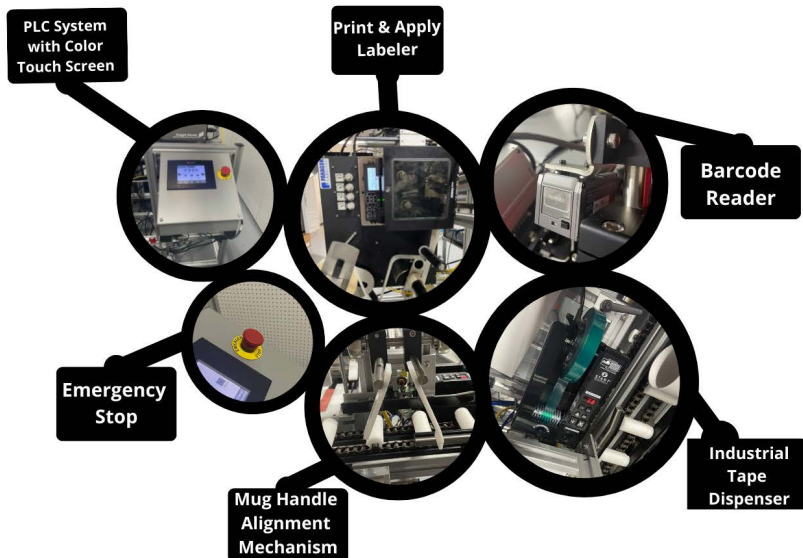
2 TECHNICAL DESCRIPTION

- Mugs are placed into the pockets of the indexing conveyor with handles up.
- The handle alignment system rotates all handles to the 12 o'clock position.
- Sublimation sheets are single-fed from a friction feeder and the barcode on the sublimation sheet is read with a barcode scanner

SMW - AUTO

4 COMPONENT DETAILS

- Patent Pending wrapping system
- PLC smart system with color touch screen HMI. Emergency Stop Equipped.
- Servo driven indexing conveyor: 4"W x 10'L for one wrap station, 16' L for two wrap stations and 22'L for three wrap stations.
- Mug handle alignment mechanism and orientation inspection
- Demand Friction Feeder with a hopper capacity of 10"
- Barcode reader for the fed sublimation sheet prior to wrapping
- Print and apply labeling system for labeling the bottom of the mugs
- Reject station to remove unwanted sublimation sheets
- Stepper driven linear actuators for transporting a mug from the flighted indexing conveyor into the wrap station. Digital tuning of mug placement
- Sublimation sheet pneumatic alignment mechanism
- Industrial tape dispensers
- Pneumatic rotary tape applicators with conical piercing tape grippers
- Tape press applicators providing positive adhesion to sublimation sheet
- Dual wrap arm assemblies with one-way rollers for maximum wrapping tension
- Barcode reader for the inspection and verifying a match after wrapping
- Extruded Aluminum Machine Frame on locking casters. Polycarbonate covers where necessary. Docking station for wrapper for quick change.
- Air release safety valve in the event of an E-STOP.



5 ELECTRICAL AND AIR REQUIREMENTS

- Electrical requirements: 110 VAC, 60 Hz, 5 Amps.
- Air requirements: 80 PSI at 2 CFM.



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