



# 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

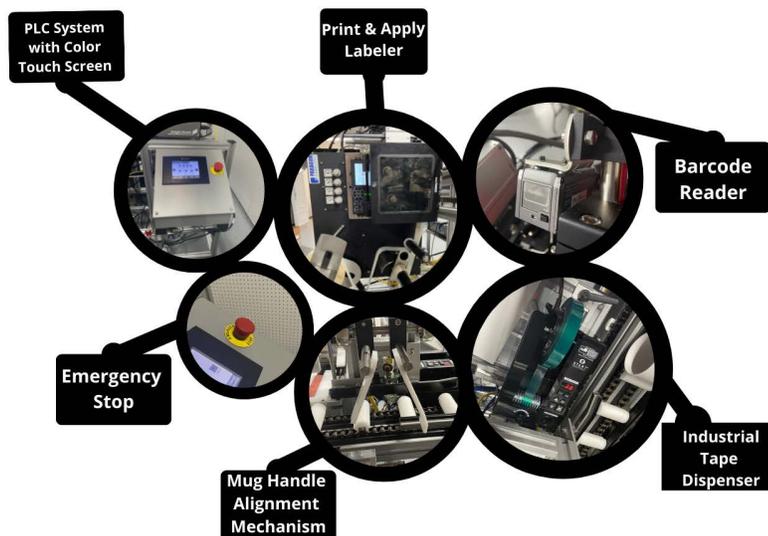
## 2 TECHNICAL DESCRIPTION

- 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

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## 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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