



ENGINEERING GROUP

Summit

Full Wrap Cut and Stack Labeling



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Summit

Cut & Stack Hot Melt Labeling System



Is the K2 Summit full wrap labeler the right machine for your packaging requirements?

The K2 Summit is a fully integrated full wrap labeling system that precisely controls and orientates the container, labels it and inspects it. The Summit is able to run multiple diameter containers and/or shaped containers at speeds up to 1500cpm.

Understanding Cut & Stack Full Wrap Labeling

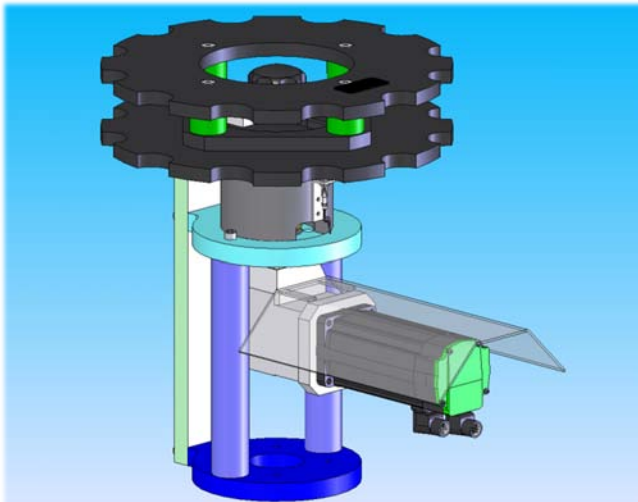
The K2 Summit machine eliminates the use of rotary wheel pots, related ventilation requirements and provides a contamination free and operator safe environment. We have integrated all package setups and adhesive release points as an automated function. There are no rollers or scrapers to change and no mechanical adjustments for speed changes.

Cut & Stack Label Application

K2 Engineering has developed the technology that allows for unprecedented container control, previously impossible to achieve with mechanical cam designs and fixed pulley drive systems.



Servo Driven Star Assembly



Servo Technologies

The K2 cut & stack labeling system utilizes the advancements in non-proprietary servo based electronics, which control both container handling and label delivery to insure accurate, repeatable label placement throughout a wide range of applications.

Non-Contact Adhesive System

The non-contact adhesive system eliminates the use of rotary wheel pots thus increases glue savings.

Adhesive Application

Pioneered by K2 Engineering Group in 2005, the non-contact design is now the standard by which all hot melt adhesive applications are measured.

Non – Contact Adhesive System

The application of the adhesive is so precise a non-contact wrap around label can effectively be applied without major machine modifications.



Adhesive Advantages

- Improves the precision of the adhesive application
- Eliminates adhesive carry-over onto vacuum drum
- Reduces adhesive consumption up to 50% based upon label size configuration

Overall Advantages

- Package setup and adhesive release points integrated into an automatic function
- No rollers and scrapers to change over
- No mechanical adjustments for speed changes
- Adhesive quantities and pattern controls are recipe based functions within the PLC

Non – Contact Control System



Engineering Technologies

By utilizing a single open ended ethernet communications system and the removal of all black box technologies, handling package changeovers is a simple product/recipe selection at the machine HMI.

RCO (Rapid Change Over)

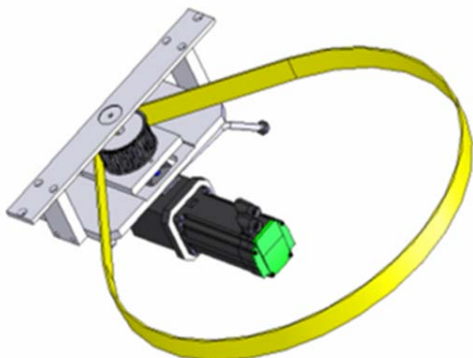
Change your recipes right on the HMI touch screen within seconds.



HMI Functions

- Cam Profiles
- Inspection Rejection
- Container Selection
- EOP (Every Other Pitch) Operations
- Peak Torque Limits
- Bar Codes – SKU's
- Vision Parameters
- Adhesive Parameters

Servo Belt Drive Assembly



3D Engineering Technologies

K2 utilizes only the latest in 3D engineering technologies that allow for reliable modeling prior to manufacturing. Focusing on the load bearing and high stress components during the engineering and design phase provides for maximum dependability and reliability.

Integration Options

K2 Engineering offers our customers the ability to utilize a multitude of integration options from a single sensor which detects the presence of a label to vision and OCR recognition combined with bar code scanning and verification.

Summit Featuring Integration Options

All inspection and coding options are ethernet capable of sending and receiving over an industrial ethernet network.



Inspection Systems

- Label Presence
- Skewed Label
- Label Height
- Bar Code Verification
- 2D Bar Code Verification
- OCR Recognition
- Date Code Verification
- Cap Color Inspection

Rejection Systems

- Pusher Rejection
- Lane Division
- Flex Rail Rejection

Coding Options

- Ink Jet Coding
- Laser Coding



Specifications, Features, Options and Support

At K2 Engineering Group our professionals have helped bring leading packaging companies to where they are today with our extensive knowledge in the industry since 1972.

At K2 Engineering Group we take pride in our ability to provide the latest, most innovative technology for our customers. We continue to develop labeling and packaging technology to meet the needs of the packaging industry for today and the future.

Technical Data

Machine Specifications

Speed Range: 100 – 1500 cpm

Container Sizes: 50 – 125mm Diameter

Larger Containers upon Request

Service and Engineering Support

- Complete Packaging Line Engineering/Design
- “Turn Key” System Supply
- Specification Packages
- On-Site Service and Support
- Line Installation

Machine Configurations

720mm Platform – 9, 12, 18, 21, 24 Station

960mm Platform – 16, 24, 28, 32 Station

1240mm Platform – 20, 30, 40 Station

Custom Pitches Possible upon Request

Optional Configurations

- Combination Labeling
Combination Labeling Types:
- Hot Glue Cut & Stack & Roll-fed
- Pressure Sensitive & Roll-fed
- Cold Glue Cut & Stack & Roll-fed

Features

- Maintenance Free Bottle Plates
- Maintenance Free Centering Head Assemblies
- Servo Driven Infeed Timing Screw with Integrated Over Torque Sensing
- Servo Driven Infeed and Discharge Star Wheels with Integrated Over Torque Sensing
- Tool-less Changeover
- Non-Contact Adhesive System
- 12” Color Industrial PC based HMI
- Polycarbonate Safety Doors
- Electrical Safety Interlocks
- Automatic Speed Control
- Servo Driven Container Rotation System
- Non-Proprietary Electronics

Options

- Missing/Flagging Label Detection and Rejection
- Bar Code Verification
- Integrated Vision Systems
- Lane Division
- Container Pressurization
- Container Orientation
- Custom Machine Design to meet Challenging Applications
- Nema 4X Control Panel
- Shaped Containers
- Shrink Materials
- Tamper Evident Sleeving
- Parallel Infeed/Discharge Capability

Take a look at our other labeling equipment which is sure to meet all of your packaging needs...

Apex – Pressure Sensitive



Everest – Roll-fed



Non-Contact Adhesive System



Change Parts



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