

# Kliklok Vari-Straight Topload Carton Closer.

## TURNING CARTONS IN A STRAIGHT LINE.

The Vari-Straight is a straight-line closer for tri-seal topload cartons. It features Kliklok's patented variable pitch technology, which uses pop-up lugs to create infinitely variable flight centers. This combines the benefits of lugged carton control and random infeed timing in a full servo motor platform. The constant carton control eliminates the inherent slip and timing issues of lugless carton closers.

### POP-UP LUG TECHNOLOGY FOR CONSTANT CARTON CONTROL

Kliklok's patented variable pitch technology activates lugs only when a carton is present, providing the flexibility of random infeed timing and the carton control of a lugged transport system.

### REVOLUTIONARY INLINE CARTON TURNING BED

The patented turning bed relies on an offset variable pitch lug transport and a revolutionary "pop-up flight bar" to effortlessly and accurately turn the cartons without releasing control, providing a superior final carton appearance.

### EASY OPERATION WITH INSIGHT® TOUCHSCREEN HMI

The industry-leading Insight® color graphic touchscreen HMI is intuitive and features recipe-based programming that reduces operator error and ensures consistent performance regardless of shift or operator skill. Enhanced diagnostics are standard.

### ABSOLUTE COVER REGISTRATION WITH PREFOLD WHEEL

Flawless registration is achieved by first folding the trailing charlotte flap. This ensures consistent alignment of the front tuck and charlotte flaps, reduces carton waste, and offers ideal presentation of the final package.

### OPTIONAL OPEN FLAP DETECT AND REJECT SYSTEM

Our optional open flap detect and reject system is stationed at the end of the outfeed and uses overhead sensors to detect open and partially open flaps. A pneumatic piston arm pushes nonadhering cartons off the production line.

## Your benefits

- ❑ Speeds up to 200 cpm
- ❑ Infinitely variable flight centers
- ❑ Lugged carton control with random infeed
- ❑ Easy-to-use Insight® touchscreen HMI
- ❑ Sanitary stainless steel design (IP65)
- ❑ Quick and repeatable changeovers



# Packaging Line Structure.

## Primary Packaging

Vertical Bagmaker

Horizontal Wrapper

Cup Filler

## Product Handling

Pick and Place Robotics

Product Timing / Loading

## Secondary Packaging

Topload

Endload

Wraparound

Case Packers

Kliklok Vari-Straight Tri-Seal Carton Closer

## Standard Features

- Heavy-duty fully-welded tubular stainless steel frame
- Allen-Bradley servos, drives and machine controls
- Speed and glue adjustment through touchscreen
- User-friendly Insight® icon-based color touchscreen operator interface for easy setup and operation
- Driven infeed to accept random carton flow
- Cantilevered overhead carton transport assemblies with automatic lift-away on machine stop
- Digital indicators for easily-repeatable size changes
- Independent servo and VFD metering for each machine section
- Angled-surface frame and electrical components comply with IP65 standards
- Sealed-for-life bearings eliminate lubrication needs
- Machine software follows PackML state map
- Hot-melt totally enclosed nozzle-type glue applicator
- Start delay horn
- Multi-color light stack

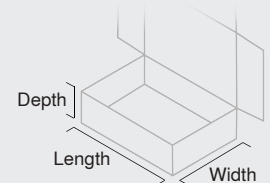
## Optional Features

- Open flap detect and reject system
- Hood-cover closure (cover left infeed only)
- Cover-left carton orientation
- Alternative electrical controls
- Size range and over-square carton modifications
- Network connectivity and data acquisition
- Casters for portability
- Laser/inkjet date/coding systems
- Bar code reader
- Heavy carton requirements (3+ lbs)

## Technical Specifications

Performance	min.	max.
Speed (cartons per minute) <small>Actual speed depends upon machine configuration and carton size and style.</small>	30	200
Carton Size Range	min.	max.
Length	102 mm (4.00")	305 mm (12.00")
Width	89 mm (3.50")	305 mm (12.00")
Depth	38 mm (1.50")	127 mm ( 5.00")

An individual carton combining multiple minimum or maximum dimensions may not be compatible with the standard system.



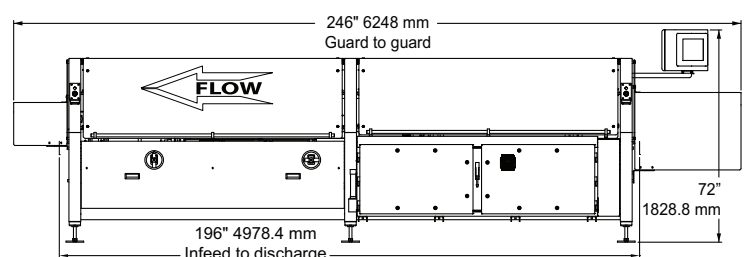
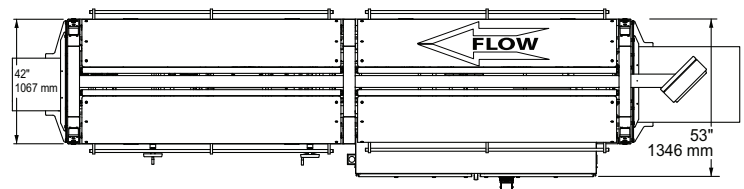
## Operating Requirements

Power Supply	400 VAC / 480 VAC, 50/60 Hz
Air	658 L/min (23.5 cfm) 5.5 bar (80 psi)

## Construction

Fully-welded stainless steel frame. Stainless steel shafts. Nickel-plated chains, pulleys and sprockets. Clear polycarbonate guards.

Shipping Weight, Skidded	1915 kg (4222 lb)
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# Kliklok Vari-Right Topload Carton Closer.

CLOSING WITH RIGHT-ANGLE DISCHARGE.

The Vari-Right is a right-angle closer for tri-seal topload cartons. It features Kliklok's patented variable pitch technology, which uses pop-up lugs to create infinitely variable flight centers. This combines the benefits of lugged carton control and random infeed timing in a full servo motor platform. The constant carton control eliminates the inherent slip and timing issues of lugless carton closers.

## **PATENTED POP-UP LUG TECHNOLOGY FOR CONSTANT CARTON CONTROL**

Kliklok's patented variable pitch technology activates lugs only when a carton is present, providing the flexibility of random infeed timing and the carton control of a lugged transport system.

## **EASY OPERATION WITH INSIGHT® COLOR TOUCHSCREEN HMI**

The industry-leading Insight® color graphic touch screen HMI is intuitive and features recipe-based programming that reduces operator error and ensures consistent performance regardless of shift or operator skill. Enhanced diagnostics are standard.

## **ABSOLUTE COVER REGISTRATION WITH PREFOLD WHEEL**

Flawless registration is achieved by first folding the trailing charlotte flap. This ensures consistent alignment of the front tuck and charlotte flaps, reduces carton waste, and offers ideal presentation of the final package.

## **SANITARY IP65 STAINLESS STEEL CONSTRUCTION**

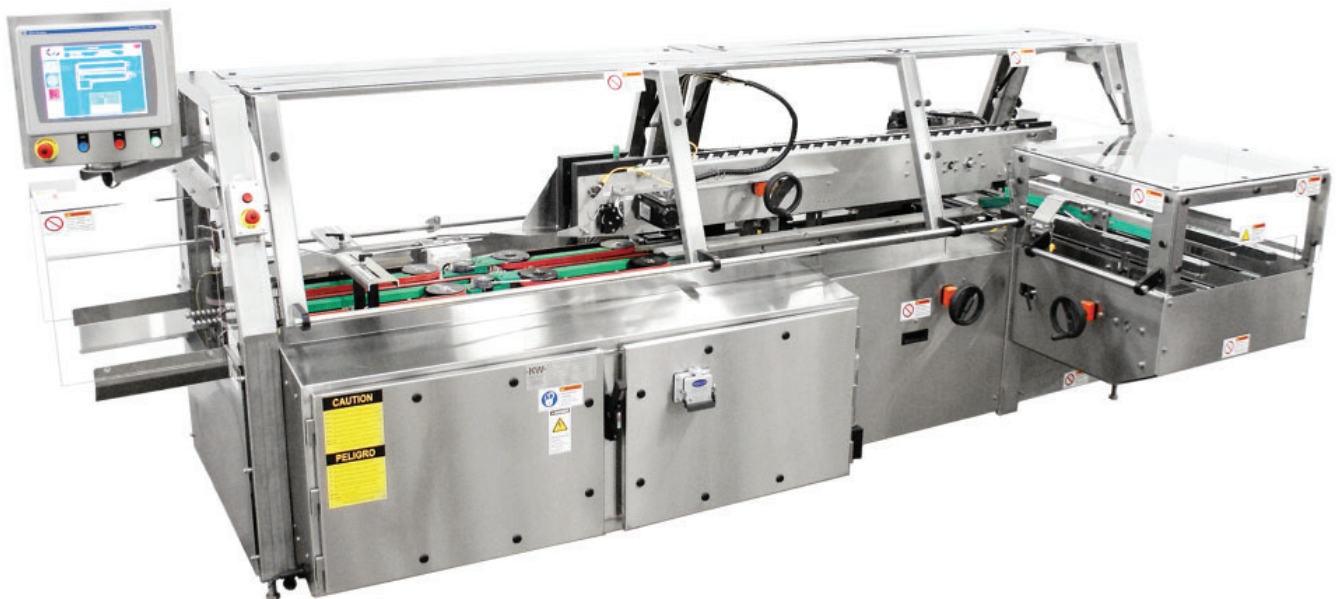
The Vari-Right is built on a welded tubular stainless steel frame with rotated beams and angled surfaces that shed water and prevent debris accumulation. The Vari-Right is rated IP65 for water washdown environments.

## **OPTIONAL OPEN FLAP DETECT AND REJECT SYSTEM**

Our optional open flap detect and reject system is stationed at the end of the outfeed and uses overhead sensors to detect open and partially open flaps. A pneumatic piston arm pushes nonadhering cartons off the production line.

### **Your benefits**

- ❑ Speeds up to 120 cpm
- ❑ Infinitely variable flight centers
- ❑ Lugged carton control with random infeed
- ❑ Easy-to-use Insight® touchscreen HMI
- ❑ Sanitary stainless steel design (IP65)
- ❑ Quick and repeatable changeovers



# Packaging Line Structure.

## Primary Packaging

Vertical Bagmaker

Horizontal Wrapper

Cup Filler

## Product Handling

Pick and Place Robotics

Product Timing / Loading

## Secondary Packaging

Topload

Endload

Wraparound

Case Packers

Kliklok Vari-Right Tri-Seal Carton Closer

## Standard Features

- Heavy-duty fully-welded tubular stainless steel frame \*
- Allen-Bradley servos, drives and machine controls
- Speed and glue adjustment through touchscreen
- User-friendly Insight® icon-based color touchscreen operator interface for easy setup and operation
- Driven infeed to accept random carton flow
- Cantilevered overhead carton transport assemblies with automatic lift-away on machine stop
- Digital indicators for easily-repeatable size changes
- Independent servo and VFD metering for each machine section
- Angled-surface frame and electrical components comply with IP65 standards \*
- Hot-melt totally enclosed nozzle-type glue applicator
- Sealed-for-life bearings eliminate need for lubrication
- Start delay horn \*
- Multi-color light stack \*

\* Regional differences to specifications may apply.

## Optional Features

- Open flap detect and reject system
- Hood-cover closure
- Cover-left carton orientation
- Opposite-hand machine orientation (discharge)
- Size range and over-square carton modifications
- Network connectivity and data acquisition
- Casters for portability
- Laser/inkjet date/coding systems
- Heavy carton requirements (3+ lbs)

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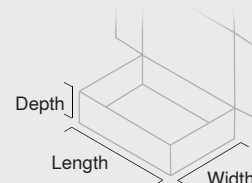
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## Technical Specifications

Performance	min.	max.
Speed (cartons per minute)	30	120
<small>Actual speed depends upon machine configuration and carton size and style.</small>		
Carton Size Range	min.	max.
Length	127 mm (5.00")	305 mm (12.00")
Width	89 mm (3.50")	305 mm (12.00")
Depth	38 mm (1.50")	127 mm ( 5.00")

An individual carton combining multiple minimum or maximum dimensions may not be compatible with the standard system.



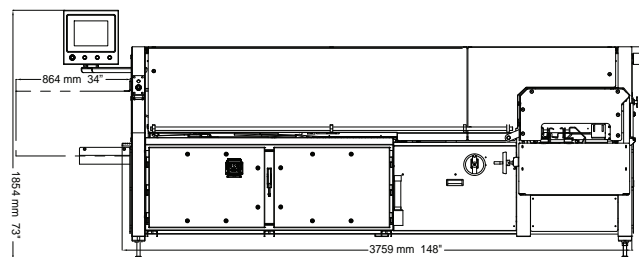
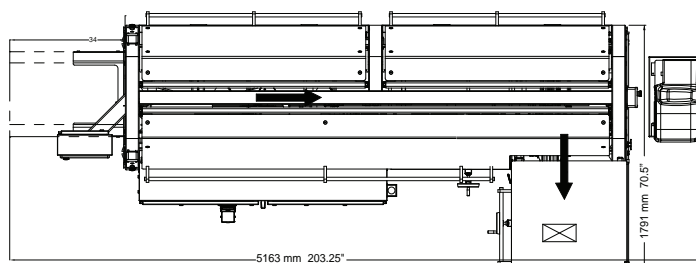
## Operating Requirements

Power Supply	400 VAC / 480 VAC, 50/60 Hz
Air	658 L/min (23.5 cfm) 5.5 bar (80 psi)

## Construction

Fully-welded stainless steel frame. Stainless steel shafts. Nickel-plated chains, pulleys and sprockets. Clear polycarbonate guards.

Shipping Weight, Skidded	1499 kg (3304 lb)
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# Kliklok Vari-Pitch Topload Carton Closer.

FOR COVER-TO-FLANGE SEAL, SEAL-TUCK, AND DUST FLAP CARTONS.

The Vari-Pitch CFS, ST and DF are straight-line carton closers for Cover to Flange Seal (CFS) cartons, Seal Tuck (ST) cartons, and Dust Flap (DF) cartons. They feature Kliklok's patented variable pitch technology, which uses pop-up lugs to create infinitely variable flight centers. This combines the benefits of lugged carton control and random infeed timing in a full servo motor platform. The constant carton control eliminates the inherent slip and timing issues of lugless carton closers.

## POP-UP LUG TECHNOLOGY FOR CONSTANT CARTON CONTROL

Kliklok's patented variable pitch technology activates lugs only when a carton is present, providing the flexibility of random infeed timing and the carton control of a lugged transport system.

## EASY OPERATION WITH INSIGHT® TOUCHSCREEN HMI

The industry-leading Insight® color graphic touchscreen HMI is intuitive and features recipe-based programming that reduces operator error and ensures consistent performance regardless of shift or operator skill. Enhanced diagnostics are standard.

## ECONOMICAL AND CONSUMER-CONVENIENT CARTON STYLES

Carton costs can be significantly reduced by eliminating charlotte flaps and front tuck flaps. ST and DF cartons (tea cartons) offer reclosability as a consumer convenience. CFS cartons (sandwich bags) often have "zippered" opening features for product dispensing.

## REPEATABLE CHANGEOVERS IN LESS THAN 10 MINUTES

Recipe-based programming and simple mechanical handwheels with digital counters make 3D size changes easy, repeatable, and achievable in less than ten minutes.

## SANITARY IP65 STAINLESS STEEL CONSTRUCTION

The Vari-Pitch machines are built on a welded tubular stainless steel frame with rotated beams and angled surfaces that shed water and prevent debris accumulation. The Vari-Pitch machines are rated IP65 for water washdown environments.

### Your benefits

- ▣ Speeds up to 120 cpm
- ▣ Infinitely variable flight centers
- ▣ Lugged carton control with random infeed
- ▣ Easy-to-use Insight® touchscreen HMI
- ▣ Sanitary stainless steel design (IP65)
- ▣ Quick and repeatable changeovers



# Packaging Line Structure.

Primary Packaging			Product Handling			Secondary Packaging		
Vertical Bagmaker	Horizontal Wrapper	Cup Filler	Pick and Place Robotics	Product Timing / Loading	<b>Topload</b>	Endload	Wraparound	Case Packers
Kliklok Vari-Pitch ST / CFS								

## Standard Features

- Heavy-duty fully-welded tubular stainless steel frame
- Allen-Bradley servos, drives and machine controls
- Speed and glue adjustment through touchscreen
- User-friendly Insight® icon-based color touchscreen operator interface for easy setup and operation
- Driven infeed to accept random carton flow
- Digital indicators and upgraded scales for easily-repeatable size changes
- Independent servo and VFD metering for each machine section
- Angled-surface frame and electrical components comply with IP65 standards
- Hot-melt totally enclosed nozzle-type glue applicator
- Start delay horn
- Multi-color light stack

## Optional Features

- Cover-left carton orientation
- Size range modifications
- Network connectivity and data acquisition
- Casters for portability

## Technical Specifications

Performance	min.	max.
Speed (cartons per minute) <small>Actual speed depends upon machine configuration and carton size and style.</small>	30	120
Carton Size Range	min.	max.
Length	102 mm (4.00")	305 mm (12.00")
Width	77 mm (3.03")	305 mm (12.00")
Depth	38 mm (1.50")	127 mm ( 5.00")
<p>An individual carton combining multiple minimum or maximum dimensions may not be compatible with the standard system.</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Single flap / Seal-Tuck Carton</p> </div> </div>		

## Operating Requirements

Power Supply	400 VAC / 480 VAC, 50/60 Hz
Air	658 L/min (23.5 cfm) 5.5 bar (80 psi)

## Construction

Fully-welded stainless steel frame. Stainless steel shafts. Nickel-plated chains, pulleys and sprockets. Clear polycarbonate guards.

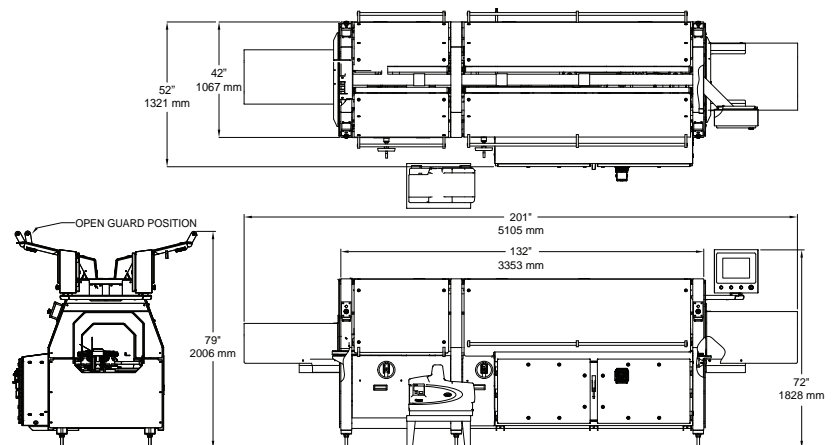
Shipping Weight, Estimated	1043 kg (2300 lb)
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# Kliklok Smart-3 Lugless Carton Closer.

## SEALING OF 3-FLAP CARTONS AT 120 CPM

The Kliklok Smart-3 lugless carton closer is ideal for the hot-melt glue sealing of hinge cover, 3-flap topload cartons. With speeds up to 120 cartons per minute, this compact closer offers an economical space-saving solution. The innovative in-line carton pivot turning bed ensures simple and reliable carton handling in minimum length.

### STAINLESS STEEL CONSTRUCTION

The Smart-3 closer has a rigid, robust, corrosion-resistant stainless steel construction, to comply with the most demanding dry or wet production environments. Where washdown is required, the Smart-3's electrical cabinet is rated NEMA 4X, whereas the machine is IP54.

### HOT-MELT GLUE SYSTEM

The Smart-3 closer is fitted with a hot-melt glue system, with nozzle type application for accurate and consistent closure.

### EASY OPERATION WITH INSIGHT® TOUCHSCREEN HMI

The Insight® color graphic touchscreen HMI is intuitive and features recipe-based programming that reduces operator error and ensures consistent performance regardless of shift or operator skill. Enhanced diagnostics are standard.

### RANDOM CARTON INFEEED

Independently driven infeed metering wheels allow the Smart-3 to accept a random flow of cartons from upstream product loading equipment, improving efficiency and simplifying line integration.

### LUGLESS DESIGN

A simplified lugless design eliminates carton carrying lugs, driven chains, mechanical transfers and timing flaps. Instead, reliable VFD motors directly drive durable, easy replaceable, high-friction belts to quietly convey cartons through the machine to effectively reduce any carton marking and product damage.

### EASY, THREE-DIMENSIONAL SIZE CHANGE

Automatic program set-up and a simple mechanical hand-wheel with digital indicators make size change achievable in less than ten minutes – a quick and easy changeover, with minimal downtime.

## Your benefits

- ❑ Lugless design for efficient carton carrying
- ❑ Easy size change
- ❑ Generous carton size range



# Packaging Line Structure.

Primary Packaging			Product Handling		Secondary Packaging			
Vertical Bagmaker	Horizontal Wrapper	Cup Filler	Pick and Place Robotics	Product Timing/ Loading	<b>Topload Cartoner</b>	Endload Cartoner	Wrap-around Cartoner	Case Packer
Kliklok Smart-3 Topload Carton Closer								

## Standard Features

- ❑ Predominantly stainless steel construction
- ❑ IP54 rating
- ❑ Lugless design
- ❑ Small machine footprint
- ❑ Color touch screen operator interface
- ❑ Cantilevered overhead assembly
- ❑ Digital indicators for easy size change
- ❑ Roller compression
- ❑ Carton transport via durable twin urethane belts
- ❑ Straight line, 90 degree carton turner
- ❑ Hot-melt glue system
- ❑ Fast and simple size change
- ❑ Minimal maintenance
- ❑ Multi-color light stack
- ❑ Start delay horn
- ❑ CE compliant
- ❑ Cover left or cover right carton orientation

## Optional Features

- ❑ Hood cover closure
- ❑ Modifications for special carton shapes
- ❑ Casters for portability
- ❑ Alternative electrical packages
- ❑ Automatic lubrication
- ❑ VPN connection

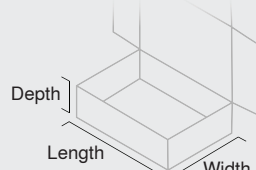
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 Photos may show non-standard equipment. Regional differences in components may apply.

## Technical Specifications

Performance	min.	max.
Speed (cartons per minute)	30	120
<small>Actual speed depends upon machine configuration and carton size and style. Ask Kliklok about meeting higher speed requirements.</small>		
Carton Size Range	min.	max.
Length	95 mm (3.75")	380 mm (15.00")
Width	95 mm (3.75")	305 mm (12.00")
Depth	25 mm (1.00")	127 mm (5.00")
An individual carton combining multiple minimum or maximum dimensions may not be compatible with the standard system. 		

## Operating Requirements

Power Rating	400 VAC / 480 VAC, 50/60 Hz
Air	80 liters/min (2.8 cfm) 5.5 bar (80 psi)

## Construction

Stainless steel frame and shafts. Clear polycarbonate guards. Nickel-plated chains, pulleys and sprockets. Anodized aluminum.

Shipping Weight, Estimated	1134 kg (2500 lb)
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