

Kliklok SmartScroll High-Speed Screw Infeed.

PRODUCT INFEED AND REORIENTATION.

Kliklok's SmartScroll provides product infeed timing and product turning for high-speed endload cartoning lines. The screws work with products that have enough rigidity and integrity to withstand accumulation in the upstream conveyors, such as frozen meal trays and bowls.

The SmartScroll accepts randomly delivered and accumulated products on a 10-foot conveyor with photosensors that control the screws' speed. Products are placed on-pitch (synced with the cartoner's PIC), or turned and placed on-pitch into the pockets of the cartoner's PIC.

POSITIVE TRAY PLACEMENT

The rotary screw device offers positive high-speed tray/bowl placement. The unique 1:1 indexing transfer ensures accurate placement and the highest overall efficiency compared to other transfer systems.

HIGH-SPEED SHORT-DISTANCE PRODUCT TURNING

The SmartScroll can also turn products at high speed in the smallest footprint possible. The integral turning capability allows trays to be presented narrow-edge-leading, which simplifies conveyor design and plant layout.

1:1 SPEED RATIO

The SmartScroll perfectly matches the endload cartoner's speed, allowing the cartoner to run at design speeds rather than the typical "10% faster" needed to accommodate sweep transfer and flighted transfer systems.

EASY OPERATION FROM CARTONER'S HMI

Control systems on the endload cartoner sync with the SmartScroll and adjust speed to match the flow of incoming product.

SIMPLE, FAST CHANGEOVERS

Quick-release levers allow easy replacement of the scrolls. Scrolls fit only one way for "operator level" changeovers. An optional parts cart is available for storage of all changeover parts.

Your benefits

- ❑ Speeds up to 325 products/min
- ❑ Timing and turning screws
- ❑ Stainless steel washdown design (IP65)



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

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Standard Features

- Heavy-duty, fully-welded tubular stainless steel construction (IP65)
- Servo-driven timing or turning screws
- Tabletop chain-style infeed conveyor with safety tunnel
- Quick-release levers for screw changeover
- Overhead jam detect mechanism
- Corrosion-resistant nickel-plated chains
- Sealed-for-life bearings
- Insight® color touch screen icon-based operator interface
- Allen-Bradley PLC
- Sanitary washdown wiring

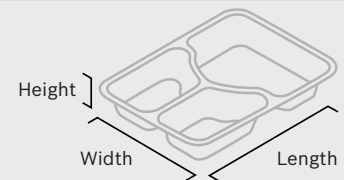
Optional Features

- Alternate elevations
- Special configuration infeed conveyors
- IP66 VPF food grade Rockwell servos
- Caustic washdown
- Laser-cut “mesh” guarding
- Changeover parts cart for screws and endload cartoner change parts

Technical Specifications

Performance	min.	max.
Speed (products per minute)	30	325
Product Size Range	min.	max.
Length	127 mm (5.00")	279 mm (11.00")
Width	102 mm (4.00")	203 mm (8.00")
Height	22 mm (0.87")	102 mm (4.00")
Diameter (round bowls)	127 mm (5.00")	279 mm (11.00")

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



Operating Requirements

Power Supply	N/A (Powered by cartoner)
Air	28 L/min (1 cfm) 5.5 bar (80 psi)

Construction

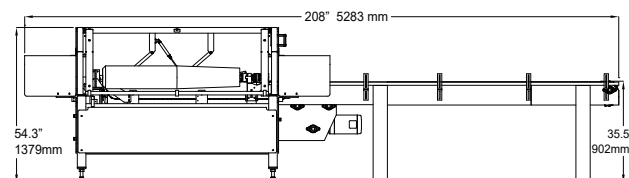
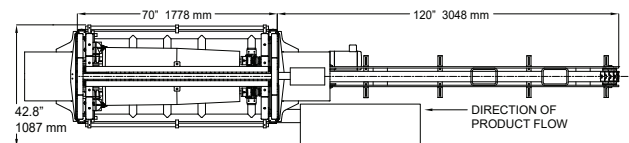
Stainless steel frame and shafts. Nickel-plated chains, pulleys and sprockets. Clear polycarbonate guards.

Shipping Weight, Estimated	680 kg (1500 lb)
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Compatible Products in Primary Packaging



Sealed trays and bowls



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Document PAUS-MKT-00076 Rev 6

Date 06.08.2020

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