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## Kliklok CLS120

### Cascade Loading System For Collating and Stacking of Bags and Sachets

This independent product handling unit features fully adjustable 3-stage vertical rotors vanes that provide collation, stacking and transfer of bags, sachets, and other products. Multiple units can be integrated to meet high speed line requirements.

The product timing system consists of three stage rotary drop stations, which align the incoming product timing to the position of the output device, most commonly a moving cartoner PIC pocket. Using multiple drop timing stations allows variations between incoming product spacing and the required outfeed timing to be equalized and avoids excessive product aborting due to mistimed products.

#### Low-friction random infeed

Products arriving at random are delivered onto a two-stage smartbelt, which gauges the speed and spacing of product for accurate delivery into the cascade rotors.

#### Easy operation with touchscreen HMI

The 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.

#### Cantilevered design for easy access

The unique open design of the CLS provides high visibility, easy access and superior sanitation. Simply lifting the hinged safety doors provides total access to the upper conveyor units, while a single side hinged door allows easy and unobstructed rotor access.

#### Product check and abort system

The abort systems on the CLS120 ensure that only correctly positioned and properly-timed products are loaded, increasing overall line efficiency.

#### Small footprint

The compact design of the CLS120 is ideal for those with limited floor space. The CLS is constructed of stainless steel for tough environments.

#### Key Features

- ▶ Speeds up to 120 products/min
- ▶ Collates, stacks and transfers products
- ▶ Low-friction random infeed with product check
- ▶ Easy-to-use touchscreen HMI
- ▶ Available duplex and triplex systems

## Packaging System Structure

Primary Packaging

Product Handling

Secondary Packaging

# Kliklok CLS120 Cascade Loading System

## Technical Specifications

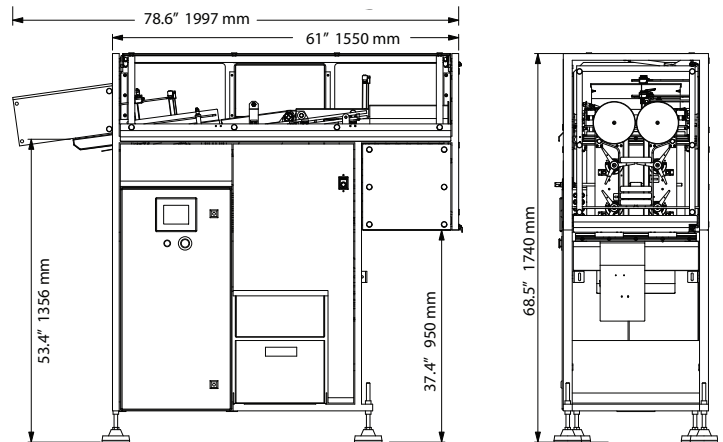
Performance		Product Size Range	Minimum	Maximum
Speed ( products/minute )	Variable to 120	Length	100 mm ( 3.94" )	350 mm ( 13.77" )
Actual speed depends upon product characteristics and loading arrangement.		Width	100 mm ( 3.94" )	260 mm ( 10.23" )
		Height	5 mm ( .19" )	90 mm ( 3.54" )
Operating Requirements		Weight	20 gm ( 0.04 lb )	1 kg ( 2.2 lb )
Power Consumption	1.8 kVA	An individual product combining multiple minimum or maximum dimensions may not be compatible with the standard system.		
Air	100 liters/min ( 3.5 cfm ) 5.5 bar ( 80 psi )			
Construction				
Fully-welded stainless steel frame. Stainless steel shafts. Nickel-plated chains, pulleys and sprockets. Polycarbonate overhead guards.				
Shipping Weight	1000 kg ( 2200 lb )			

## Standard Features

- ▶ Touchscreen control based on Insight® design
- ▶ Recipe-style saving of different products to enable quick changeover
- ▶ Fully adjustable drop timing
- ▶ Selectable multi-collations from touch screen
- ▶ Built-in aborted product collection bin
- ▶ 3-stage drop rotor set with 3-position rotors
- ▶ Adjustable metering conveyor slope (0 degrees and 8 degrees)
- ▶ Tracked conveyor belts
- ▶ Infeed product side guides
- ▶ Rotor width adjustment using lead-screw and digital indicator
- ▶ Product sensors for over-feed and over-length
- ▶ Single upper conveyor access door and hinged rotor access door
- ▶ Cartoner PIC infeed / outfeed safety “catflaps”

## Optional Features

- ▶ Air eject or lift-up conveyor abort options (air eject up to 0.25 kg product)
- ▶ Different product timing options from external machinery
- ▶ Choice of conveyor options including rumble belt for product settling
- ▶ XL version available
- ▶ Duplex and Triplex systems available



## Bosch Packaging Technology

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