

KLIKLOK™ CLS Cascade Loader System



BOSCH
Invented for life



The Cascade Loader System (CLS120) is Kliklok's latest product handling innovation. This compact stand-alone unit is designed to complement our wide range of end load and top load cartoning equipment and can be retro-fitted to virtually any model and make of end load cartoner.

Innovative Design

By using a clever, fully adjustable 3-stage vertical rotor timing system, the CLS provides collation, stacking and transfer of bags, sachets, ready meals, even pizzas.

Compact Design

The CLS120 is a neat, compact unit, a great advantage for customers with limited floor space. With speeds of up to 120 products per minute, this cascade loader offers high productivity in a minimum amount of factory area.

Stainless steel construction

Built with robust stainless steel construction, the CLS120 meets the demands of wash-down & hygiene standards in a variety of plant environments.

Easy size change

With digital dials and quick-release handles, the CLS offers easy, repeatable size change in just a few minutes.



Intelligent brushless motors

The CLS120 uses intelligent brushless motors with positioning function to accurately control, time and place the product into the flights of a cartoner's infeed conveyor. Additionally, the motor design simplifies the machine mechanics, greatly reducing maintenance requirements.

Choice of conveyor options

The CLS is supplied complete with adjustable metering conveyor slope, however optional product settling conveyors are available, as well as lift-up or air-eject product abort systems.



Product Check

The abort system on the CLS120 ensure that only correctly positioned products are loaded. Photocells detect if a product is out of time, and the product is rejected through an abort chute into a collection tote, with no machine stop required.

Low friction, random infeed

Products arriving at random are delivered onto a two-stage belt conveyor, with gauges the speed and spacing of product, for accurate delivery into the cascade rotors. This system eliminates the need for manual loading, reducing operator requirements.

**Pioneering
Engineering**

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Carton Size Range (mm)

Standard rotor diameter cascade: (CLS120)

Product length mm: 100 to 300
(Depth of insertion)
Product width mm: 100 to 200
(60 to 160 with reduced width optional top rotors)
Product height mm: 70 maximum
(Singles or total height of multiples)

Large rotor diameter cascade: (CLS120-XL)

Product length mm: 100 to 350
(Depth of insertion)
Product width mm: 140 to 260
Product height mm: 100 maximum
(Singles or total height of multiples)

Operating Requirements

ELECTRICAL:

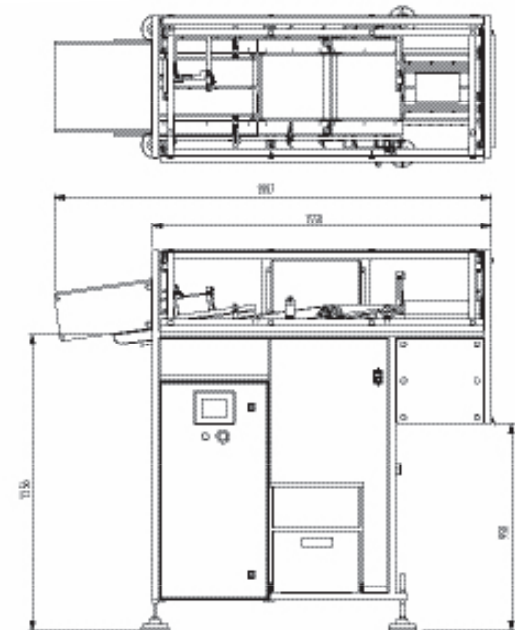
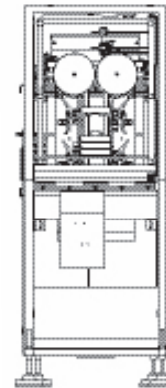
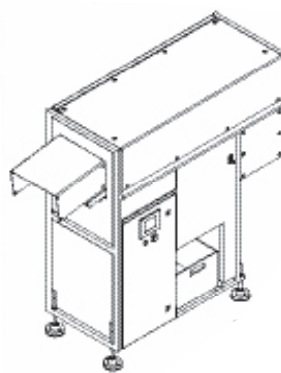
400V 3 Phase 50HZ plus neutral & earth
Electrical system conforms to HSWA/IEC 201 (EN60204-1)

POWER: 3-7kW

AIR CONSUPTION: 100 litres per minute @ 5.5 bar

Construction

Stainless steel frame and shafts. Chains, pulleys and sprockets are nickel-plated. Clear polycarbonate overhead guards. Other fabricated components are generally nickel-plated or anodized, or made of composite materials.



Standard Features

- Touch screen 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
- 'Rumble' infeed conveyor option for compacted slower speed product e.g. muesli
- Built in aborted product collection bin
- 3 stage drop rotor set with all rotors 3 position
- 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
- XL version available

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