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Kliklok ITC

The Latest Integrated Topload Cartoning Innovation From Bosch

The compact Kliklok ITC neatly combines three packaging processes into one: carton forming, product loading, and carton closing, complementing the Bosch packaging portfolio.

The ITC is designed to pack flow wraps, roll wraps, and tablets. It offers the perfect solution for the bakery and confectionery industry and is particularly suited to products like cereal bars, chocolate bars, biscuits, muffins and cupcakes.

Single integrated machine

The Kliklok ITC takes complete control of the carton – from forming to finished package – by combining three separate machines and connecting conveyors into one unit. The ergonomic design of the ITC features the HMI, carton hopper, and glue tank on one side of the machine for easy operator access. Finished cartons leave the ITC in the same direction as incoming product, reducing space needed for product conveying.

Compact footprint

The ITC boasts one of the highest speeds available for a solution with such a small footprint, and has a large carton size range. This allows manufacturers to save production space and increase production output without compromising on quality.

Robotic loading

The proven Bosch Delta robot provides automatic loading of products. The Delta robot is able to track the carton transport system and load products ‘on the move’ – an advantage over 2-axis robots which can only load stationary cartons.

Production line flexibility

The ITC’s carton and robotic tooling changeover can be accomplished in less than 15 minutes with change part numbering system and the use of toolless jigs. Product lines can be switched from one size carton to another with minimal downtime.

Lock or glue form cartons

The ITC offers the option of either lock or hot melt glue carton forming, in a variety of different carton styles, giving you the flexibility to adapt to changeable marketing demands.

Key Features

- ▶ Single integrated unit – 3 machines in 1
- ▶ Small footprint
- ▶ Quick size change
- ▶ Large carton size and style range

Packaging System Structure

Primary Packaging

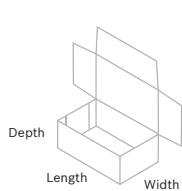
Product Handling

Secondary Packaging

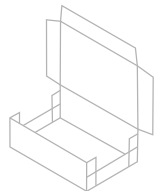
Kliklok ITC – Integrated Topload Cartoner

Technical Specifications

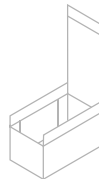
Performance		Carton Size Range	Minimum	Maximum
Production Speed	Variable up to 80 cpm	Length	86 mm (3.38")	345 mm (13.58")
Actual speed depends on machine configuration, product and carton size and carton style. Ask Kliklok about meeting higher speed requirements.		Width	68 mm (2.67")	220 mm (8.66")
		Depth	23 mm (.90")	150 mm (5.90")
Operating Requirements		Product Size Range	Minimum	Maximum
Power Consumption	55 kVA	Length	40 mm (1.57")	200 mm (7.87")
Air	708 liters/min (25 cfm)	Width	15 mm (.59")	120 mm (4.72")
	5.5 bar (80 psi)	Depth	6 mm (.23")	50 mm (1.96")
Construction		An individual carton combining multiple minimum or maximum dimensions may not be compatible with the standard system.		
Shipping Weight	2800 kg (6173 lb)			



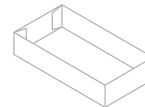
3 Flap – Full Flap



3 Flap – Economy Flap

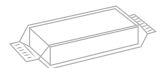


Single Flap (with dust flaps)

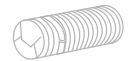


Tray

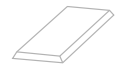
Flow-wraps



Roll-wraps



Tablets

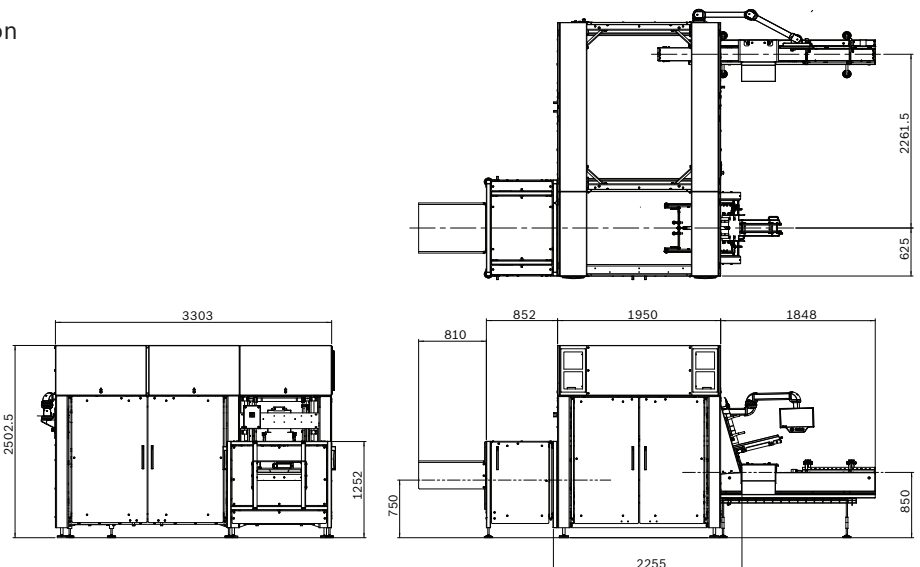


Standard Features

- ▶ Integrated forming, loading, closing
- ▶ Infeed product collation chain accepting up to 550 ppm input
- ▶ Pick and Place Delta robot
- ▶ Carton forming and closing up to 80 cpm
- ▶ Product infeed conveyor with reject function
- ▶ Product collating unit
- ▶ Carton outfeed discharge belt
- ▶ Control system (Beckhoff) and HMI4.0
- ▶ Linear servo technology (XTS)
- ▶ Integrated hot melt glue system
- ▶ Hygienic Design Level 1 – Wipe down
- ▶ CE compliant

Optional Features

- ▶ Dual infeed configuration
- ▶ Alternative carton styles
- ▶ Active carton squaring device
- ▶ R.F.I.D. tagging of format parts



Bosch Packaging Technology

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