



## KALIX KV800

80 parts/minute vertical cartoning machine

# THE VERTICAL CARTONER FOR ULTIMATE COSMETIC CARE

## KV800 MAIN FEATURES:

### Perfect product care:

- Careful handling protects the most delicate cartons
- Pick-up and opening of the carton by suction cups
- Carton perfectly shaped at the 1st station
- Closure by gentle movements, without scuffing

### Designed for cosmetic:

- Bottles and Jars infeed, with or without puck
- Feeding systems available for different cosmetic accessories (spatulas, booklet)
- Liner option: automatic infeed, pick-up and insertion into the carton

### Ergonomic with fast changeovers:

- Fast format changeover
- Automatic settings with brushless motorization of the product infeed station
- Balcony design guarantees a good accessibility for maintenance and global vision of the functions
- Product conveyor with no mechanical transfer for noise reduction

Taking care of our customer's products has always been part of Citus Kalix' philosophy. Our new vertical cartoner extends our white glove approach over a new range of applications dedicated to the cosmetic industry.

The KV800, with a speed of 80 cartons per minute, delivers high-performance with top-level flexibility and extremely fast format changeovers. Almost every shape can run on the machine, from round jars or bottles to more sophisticated designs. Set-up worries can be left behind as the KV800 combines easy size part installation with tool-free adjustments. If you have been searching for Citus Kalix values in a vertical cartoner, then the KV800 is made for you.

The Citus Kalix machine range has been produced since 1928. Over 10,000 machines are running worldwide, some being more than 25 years old.

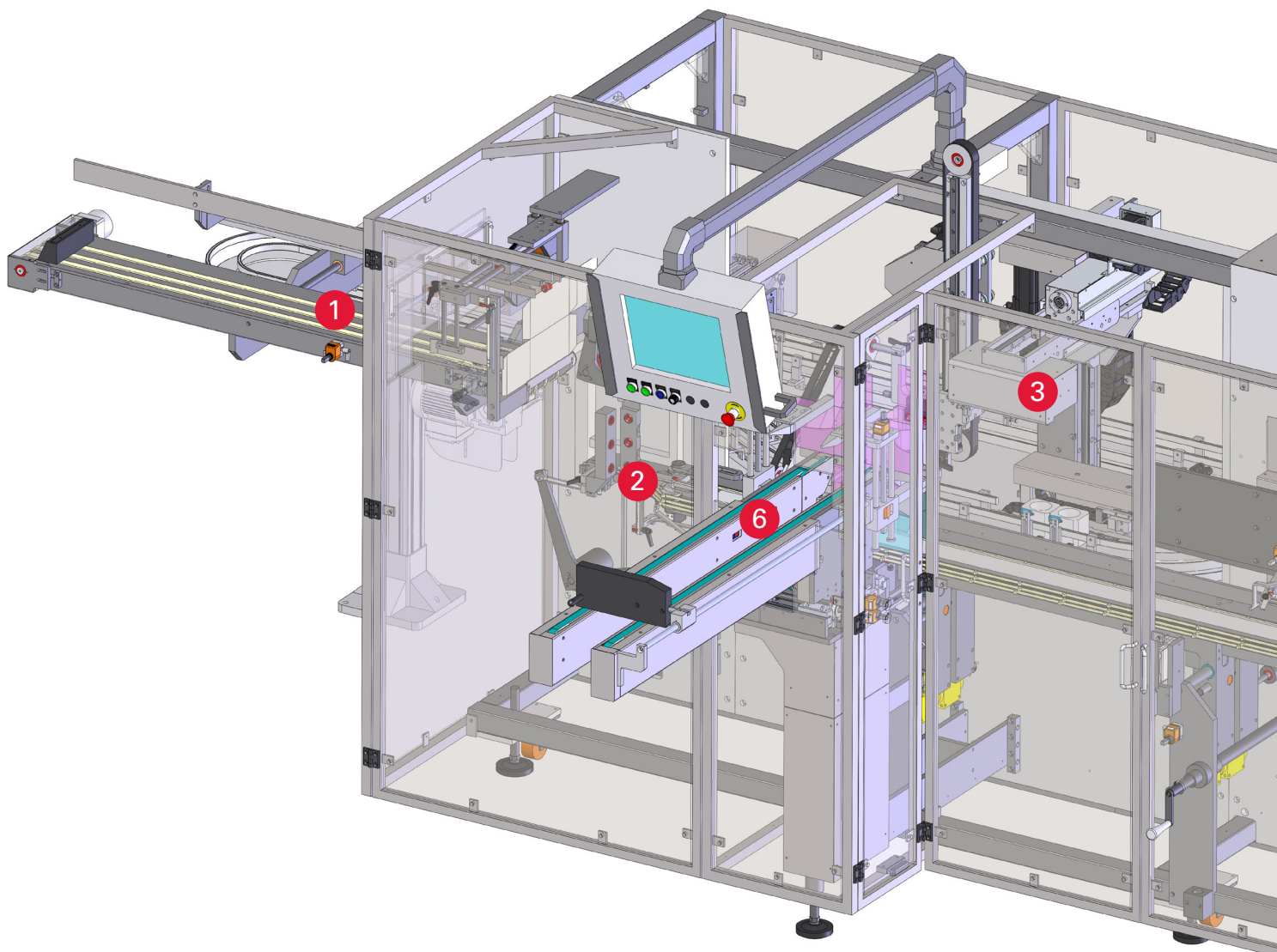
## THE EXTENSIVE AND INNOVATIVE FILLING & CARTONING PRODUCT RANGE

Machine	Mascara, jar and tube filling						Horizontal Cartoning			
	KM503	KJ503	KX603	KX803	KX903**	KX1103**	KP600***	KP800***	KP1200***	KP2000
Speed in parts per min	40	40	60	80	90	110	60	80	120	200
Citus Kalix Quality System	●	●	●	●	●	●	●	●	●	●
Changeover time only filling product in min *	5	5	5	5	5	5				
Changeover time complete format in min *	10	10	10	10	10	10	10	10	10	10
Change over without tooling	●	●	●	●	●	●	○	○	○	○
Options availability	○	○	○	○	●	●	●	●	●	○

\* Estimate based on average set-up, considering use of an extra set of size parts and wet parts

\*\* KX903 and KX1103 can be equipped with hot air and metal sealing stations on same set-up

\*\*\* KP600, KP800 and KP1200 can be equipped with liner modules



### 1- Horizontal belt feeding

Pre-folded cartons are placed horizontally on a motorized belt, granting improved access and minimum operator supervision.

### 2- Carton transfer

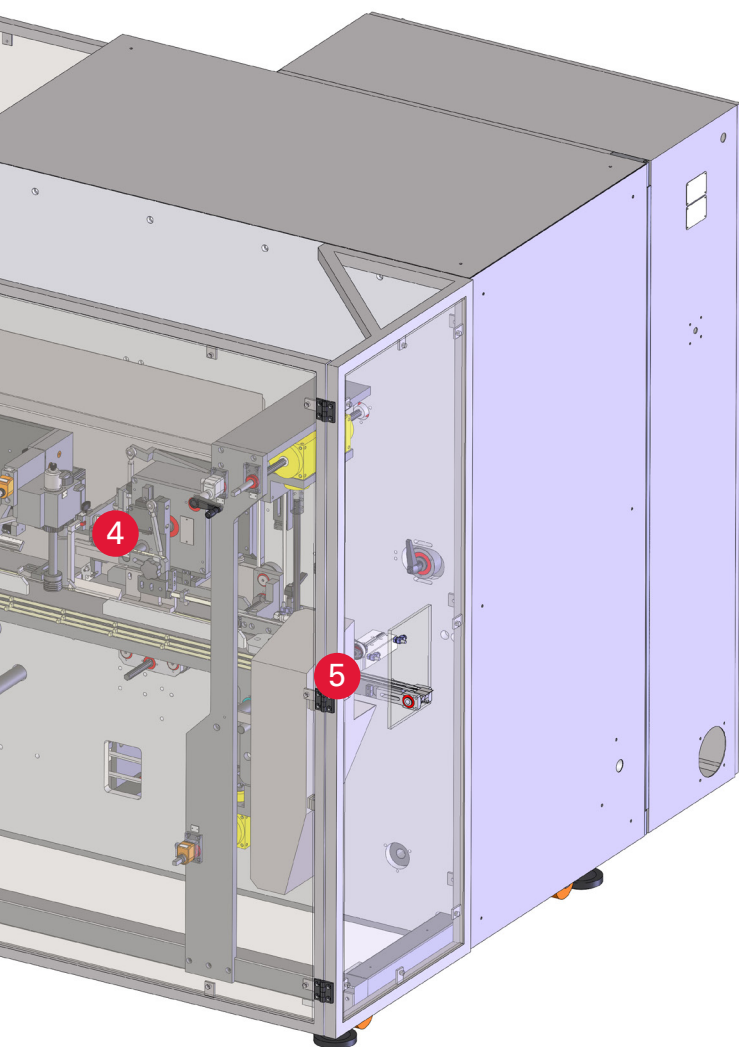
Carton picking-up and opening are performed by two suction cups arms using positive movements. The carton is transferred and held vertically by plastic cleats and synchronized belts.

### 3- Product insertion

- 2 pneumatic grippers take 2 products at the time from the conveyor and place them vertically into the cartons.
- The entire infeed system is equipped with brushless motors, whose settings are done automatically on the touchscreen through the format recipe.

### 4- Carton closures

The positive principles of closure ensure perfect closing of the carton flaps. Every movement is mechanical and linear. All the adjustments are centralized and simplified allowing absolute repeatability and short changeover times.



#### 5- Finished product outfeed

The finished products exit the machine on a horizontal belt. In case of a defective product, its rejection is performed sideward.

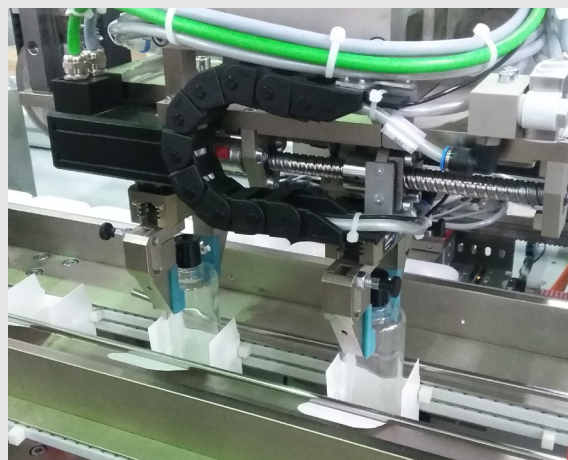
#### 6- Liner insertion (option)

Optionally, the KV800 can be equipped with a liner module, composed of a feeder, a suction arm and a pusher. Thanks to a guiding tunnel, the liner is introduced into the carton before the product insertion.

#### Carton feeding



#### Product insertion



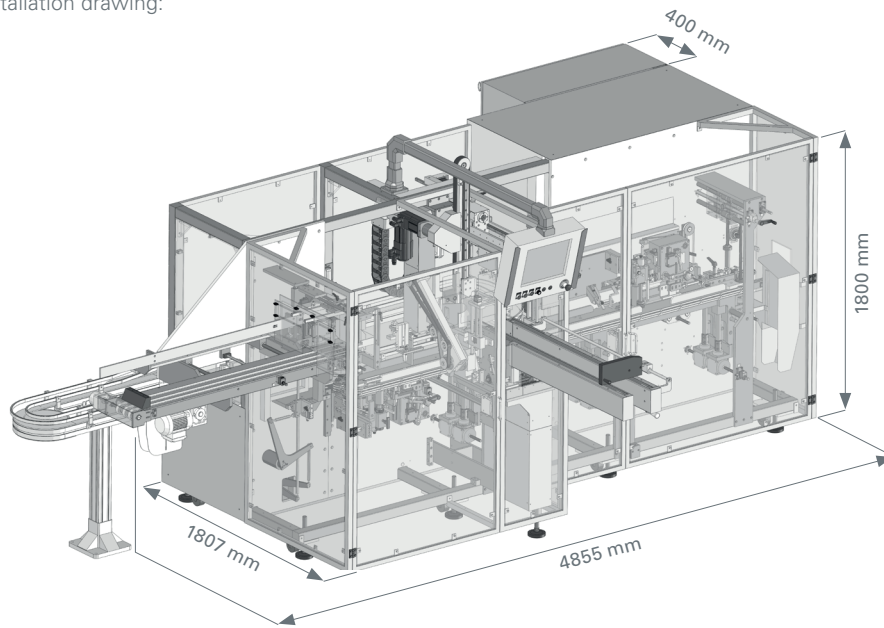
#### Carton closure





# TECHNICAL CHARACTERISTICS

Installation drawing:



## 1. Change over time:

- Format change in 15 minutes

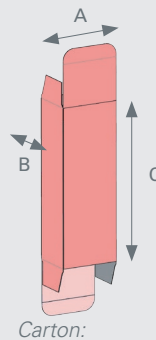
## 2. Technical features:

- Fully automatic, vertical, intermittent cartoner for pre-folded cartons with reverse or airplane flaps
- Integrated conveyor and product infeed for jars or bottles
- Carton transfer by plastic belts to avoid scratches
- Pick-up, opening and closure of carton with positive movements
- Adjustable speed on the display
- Display with color touch screen
- Swiveling electrical cabinet
- Guards in stainless steel and PMMA
- Noise level less than 80dba at 1 meter
- SIEMENS 12" color touch screen
- SIEMENS PLC
- CGMP machine
- Operator safety: Starting the machine is impossible without all guards closed
- Interlocking system to prevent the opening when machine is running
- Safety: Complies with CE standards

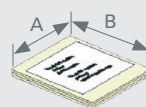
## 3. Energy table:

Energy sources	Values
Compressed air	50 Nm <sup>3</sup> /h
Pressure	6 bars
Electricity	2 kW

## 4. Cartons & booklets dimensions:



Carton	Min. (mm)	Max. (mm)
A	25	120
B	25	120
C	40	200



Booklet	Min. (mm)	Max. (mm)
A	30	70
B	30	110

## Main options:

- Liner module
- Booklet insertion
- Spatulas insertion
- Tracking solutions: rotary embossed, inkjet, laser coding
- Coding inspection camera
- Barcode reading
- Filled carton control
- Horizontal tilting exit module
- Light column
- IQ/OQ Documentation
- Pack Tags

*These data are indicative and can be subject to modification without prior notice.*



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