



KALIX KX903

90 tubes/minute filling machine

YOU'RE IN FOR A GREAT EXPERIENCE

MAIN FEATURES:

User-friendly

- Easy disassembly without tools
- Superfast changeovers
- Record of different set up on control panel

Reliable

- Robust materials with protective glass casing
- Easy maintenance
- Stable set-up over production

Flexible

- Easily interchangeable closure heads (Hot Air/Metal)
- Suitable for all materials (plastic, laminated, aluminium)
- Dosing precision ($\pm 0,5\%$) compatible with most fluids

The KX903 is the most flexible tube filling machine on the market. Designed to ensure the best user experience even for small runs with frequent product changes, the KX903 is perfect for the pharma and beauty industry. It is easy to disassemble without tools, which makes cleaning very simple. Changeovers are superfast and very ergonomic, just 5 minutes for a new bulk and less than 10 minutes for a new format. It also offers the set up registration of each recipe for quick and repeatable adjustments.

In fact, the KX903 filling machine is so easy to set up that pretty much anyone can run it after a short introductory training.

Sturdy, compact and with unpainted stainless steel finish, this machine is particularly suited for production in controlled environments.

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

OUR RANGE OF FILLING MACHINES

Tube fillers ESSENTIAL



KX603



KX803

Tube fillers AGILITY



KX903



KX1103 EVO

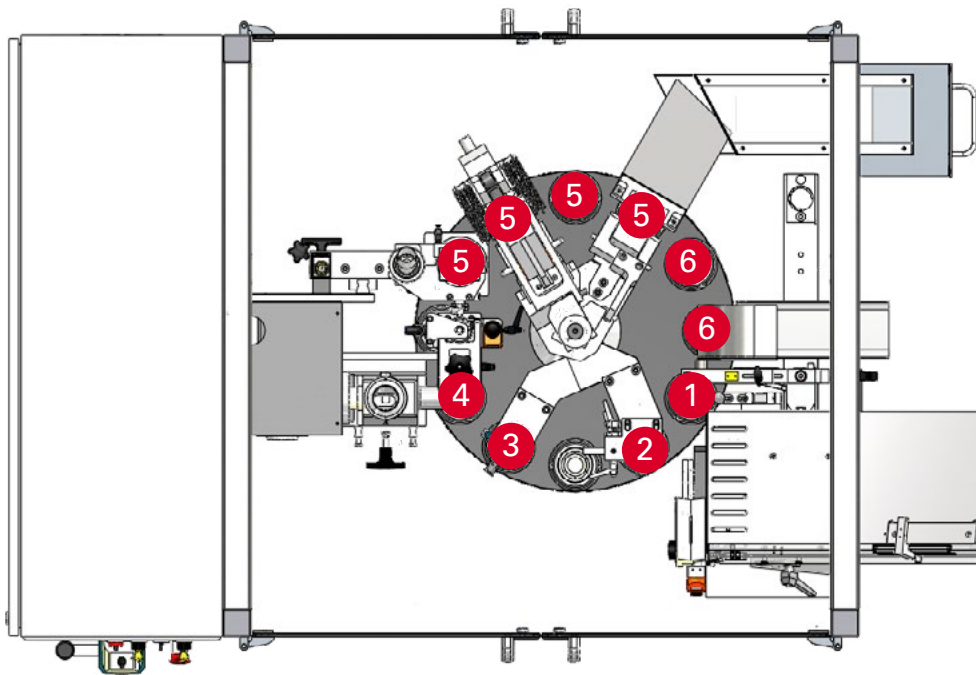
Jar and mascara fillers



KJ503 (jar)



KM503 (mascara)



1. Tube feeding

The KX903 is a single operator machine with an automatic tube loading system including a tube separator and vacuum pick-up as standard.

It can be fitted with an optional tube feeder module (three boxes autonomy).

2. Orientation

A stepper motor provides very precise automatic orientation of the tubes. Motor position under the work table. Tube orientation adjustment from the console.

3. Dust Remover

4. Filling

For cleaning, assembly parts can be removed without tooling. Manufactured in 316 l stainless steel, it has been designed to be the most ergonomic on the market in terms of weight. We propose two valves and the associated range of pumps:

- A valve for volumes up to 140 ml, with weight less than 5 kg with the following pumps

Pump Ø	Min dosage ml	Max dosage ml
Ø 14	1	16
Ø 22	4	38
Ø 42	15	140

- A valve for volumes up to 400 ml, with weight less than 8 kg with the following pumps

Pump Ø	Min dosage ml	Max dosage ml
Ø 16	2	20
Ø 25	4	50
Ø 35	10	100
Ø 52	30	220
Ø 70	50	400

- A new generation of cutting shut-off nozzles allows considerable improvement in filling

5. Closure

Plastic tubes

KALIX HOT AIR welding technology is the simplest and best on the market. It allows straight welds to be made with repeatable quality.

Changing the hot air nozzle (the only format part) is done very quickly and easily, and requires only one setting parameter (the temperature). In addition, this format change is done without any disconnection of the fluids.

Metal tubes

The latest range of entirely mechanical heads for metal tubes provides metal tube folding. Our metal heads are available in three versions:



2 Folds



4 Folds



Saddle fold

Guaranteed reliability

All closure heads are mechanically controlled, this provides better performance over time compared to pneumatic devices.

6. Ejection

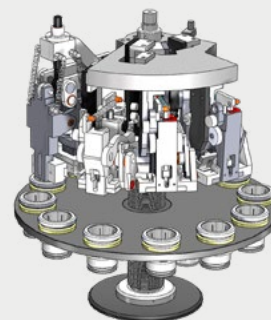
Tail first, with option for cap first.

Tube feeding

Automatic tube feeder for 1 to 3 boxes (option)



Closure unit METAL

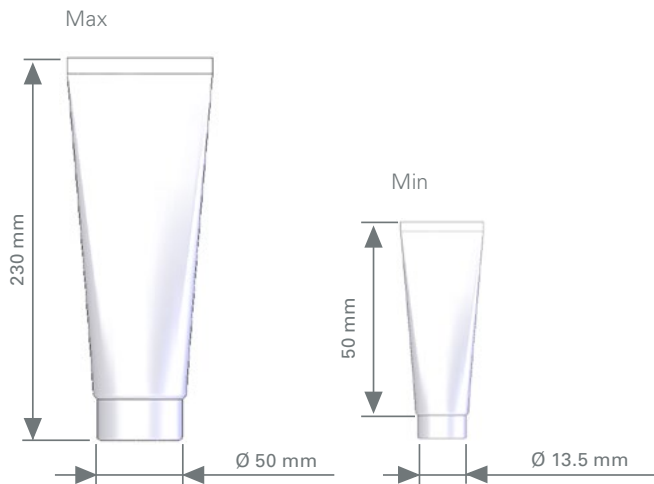


Closure unit HOT-AIR

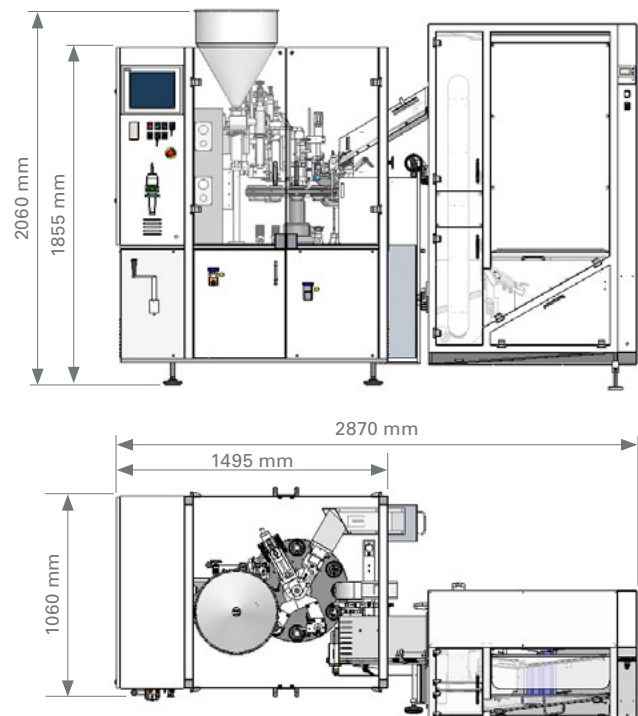
For plastic & metallised plastic tube



TECHNICAL CHARACTERISTICS



Installation drawing:



Net weight of filler: 2200 Kg

1. Change over time:

- Changing the filling assembly for a second filling assembly in 2 minutes
- Format change in 10 minutes, without tooling

2. Technical features:

- Automatic tube loading by inclined plane and loading vee with vacuum holding system
- Automatic tube orientation, cell parameter adjustment on the display
- Electronic rise of the tube at filling by servomotor
- Adjustable precision volumetric dosage (+/- 0.5%)
- Filling from the bottom of the tube
- Shut-off cutting nozzle for stringy products
- Rejection of defective tubes
- Stainless steel guards and safety glass
- Electronic variable speed
- Sound level less than 80 dbA at 1 metre
- Colour touch screen
- SIEMENS PLC
- BPF – CGMP machine
- Safety: complies with CE standards

3. Energy table:

Energy sources	Metal	Plastic
Compressed air	20 Nm ³ /h	30 Nm ³ /h
Pressure	6 bar	6 bar
Water	/	200 l/h
Electrical	3 kW	5 kW

4. Tube dimensions:

- From Ø 13.5 mm to Ø 50 mm
- Length 50 mm to 230 mm (including cap)
- All cap types

Main options:

- Automatic tube feeder for 1 to 3 boxes
- Motorized dosing adjustment
- Oval tubes handling
- Dust extraction before filling
- Filling in controlled atmosphere
- Filling control
- Direct bulk connection
- Jacketed hopper
- Stirrer with fixed and variable speed
- Hopper level control
- Code reader
- Ink jet or laser coding
- Shape seals or round corners
- Tube reversal ejection, ejection cap first
- Colour touch screen COMFORT
- IQ/OQ documentation

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



Coesia's customers are leading players in a broad range of industries, including Consumer Goods, Tobacco, Healthcare, Aerospace, Racing & Automotive and Electronics.



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