TECHNICAL SPECIFICATIONS :

1. Indicative outputs (tubes per minute) with a same viscosity.
These outputs have to be confirmed according to the products to be handled.

Tube diameter	*Volume ml*	*Metal*	*Hot air*
∅ 19	5	80	80
∅ 35	50	70/75	70/75
∅ 50	200	60	60

2. Size changeover time :
- Exchange of the filling head in about 1 minute including change of coding plates.
- Size changeover : about 10 minutes depending on the different adjusting points.

3. technical specifications :
- Stainless steel and safety glass guards.
- Speed adjustable from control panel by frenquency variator.
- Lifetime-lubricated indexer and reduction drive.
- PLC as standard.
- Two-line natural language readout.
- GMP machine.
- Noise level below 75 dB A at 1 meter.
- Safety compliant with EU standards, APAVE, Veritas and AIF recommandations, etc.

4. Supply requirements :

Supply requirements	*Metal*	*Hot air*
Compressed air flow	5 Nm3/h	50 Nm3/h
Compressed air pressure	6 bars	6 bars
Water	/	200 l/h
Electricity	1,5 kW	5,3 kW

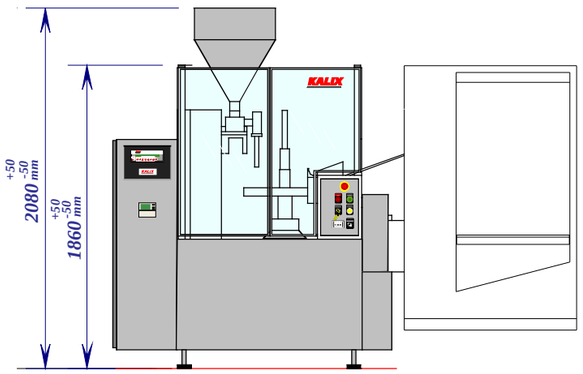
5. Dimensions of the tubes:
- From ∅ 10 mm to ∅ 50 mm (until ∅ 56 mm, as option).
- Length from 50 mm to 230 mm (cap included).
- All types of cap.

OPTIONS :

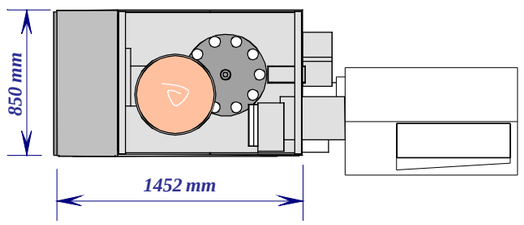
- Electronic tube filler lift
- Coloured tactile screen
- Anti-oxidant dropper
- Nitrogen blowing before, during & after the filling
- Tube cleaning before filling
- Declutching at the crimping
- Tube feeder : capacity 1, 2 or 3 boxes (elliptical tubes)
- Filling control
- Pressurized hopper
- Jacketed hopper
- Direct connection by clamps
- Worm type agitator with constant- or variable-speed
- Hopper level control
- Orientation control (spot detection)
- Defective tube ejection through a gate
- Reversal of the tube at the ejection
- Ink-jet / laser coding
- IQ / OQ documentation
- Explosionproof equipment
- Cleaning in place and sterilisation in place (CIP / SIP)
- Centralized lubricating
- Special sealing shapes

Technical specifications liable to change without notice.

LAYOUT DRAWING :



Poids net de la remplisseuse : 950 Kg



KALIX
SIRIUS MACHINERY GROUP
4, avenue du parana - ZA de Courtaboeuf N°4 - 91978 Courtaboeuf cedex - FRANCE
Tél.: (33-1) 69 18 05 00 - Fax: (33-1) 69 18 05 01 - E-mail: Commercial@kalix.fr - Site Web: www.Kalix.fr

KX801 TUBE FILLING & CLOSING MACHINE

Production 80 tubes/minute.

Productivity
Versatility
Precision
Reliability

KALIX
SIRIUS MACHINERY GROUP

MAIN FEATURES :

Reliability

-Issued from a long-running range of high-quality machines, the KX 801 confirm the reliability of the previous generations
-Fully mechanical drive
-All main drive subsystems are protected by overload systems
-The high-quality of the components ensures a long service life
-Few wear parts

Our filling ***Process*** excels in a broad range of applications.

Filling accuracy: from +/- 0,1 to +/- 0,5 %.

Versatile capacity to close all the tubes technologies for all kind of tube materials (Metal, PE, PP, laminate, coextruded with EVOH etc.).

Straightforward convenient operation :
-Straightforward operation and size changeover (6 mn. for a size changeover even if it is made by a non-qualified operator)
-Unrivalled ergonomics
-The removal of the filling unit and the closing head is very easy (optimization of the accessibility, ergonomics, weight, ...)
-Clear and easy-to-use instruction manuals.
-Straightforward maintenance and troubleshooting

Productivity:

For maximum productivity, even on short production runs, the KX 801 combines fast size changeover with built-in assurance of right-first-time operation after each change. This also means savings packaging units and product.

The ***Compact design*** (Floor surface = 1.3 m2) of the machine is an advantage for the optimization of your factory floor layout.

III. FILLING

The KX 801 filling system has been totally redesigned for fast uncomplicated tool-free removal and refitting. It is made in 316 L stainless steel, and is shaped and weighted to offer optimum ergonomic qualities.
Two filling units and their pump ranges are available :

- Small filling unit (weight less than 5 Kg) for tubes volumes up to 140 ml, with the following pumps :

Pump diameter	*Minimum volume (ml)*	*Maximum volume (ml)*
∅ 14	1	16
∅ 22	4	38
∅ 42	15	140

- Larger filling unit (weight less than 10 Kg) for tubes volumes up to 400 ml, with the following pumps :

Pump diameter	*Minimum volume (ml)*	*Maximum volume (ml)*
∅ 16	2	20
∅ 25	4	50
∅ 35	10	100
∅ 52	30	220
∅ 70	50	400

- A new cut-off nozzle technology allows the improvement of the filling operation. *(fluid product)*.

Perfect product cutting at the end of the filling operation.

IV. CLOSURE

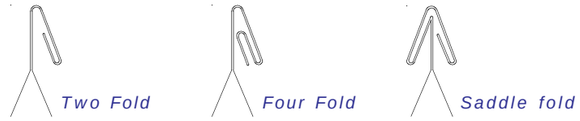
Plastic tubes:

The KALIX HOT AIR sealing technology is the simplest and best on the market. It can handle straight or complex seals - Euroslots, rounded corners, special shapes, ... - with excellent repeatability for consistent quality. The weld unit has a single setting (the temperature) and a single format part (the hot air nozzle), which can be changed fast and straightforwardly. Size changeover requires no disconnection of fluid lines.

EUROSLOT ROUNDED CORNERS ANTICOLLAPSING SPECIAL SHAPES

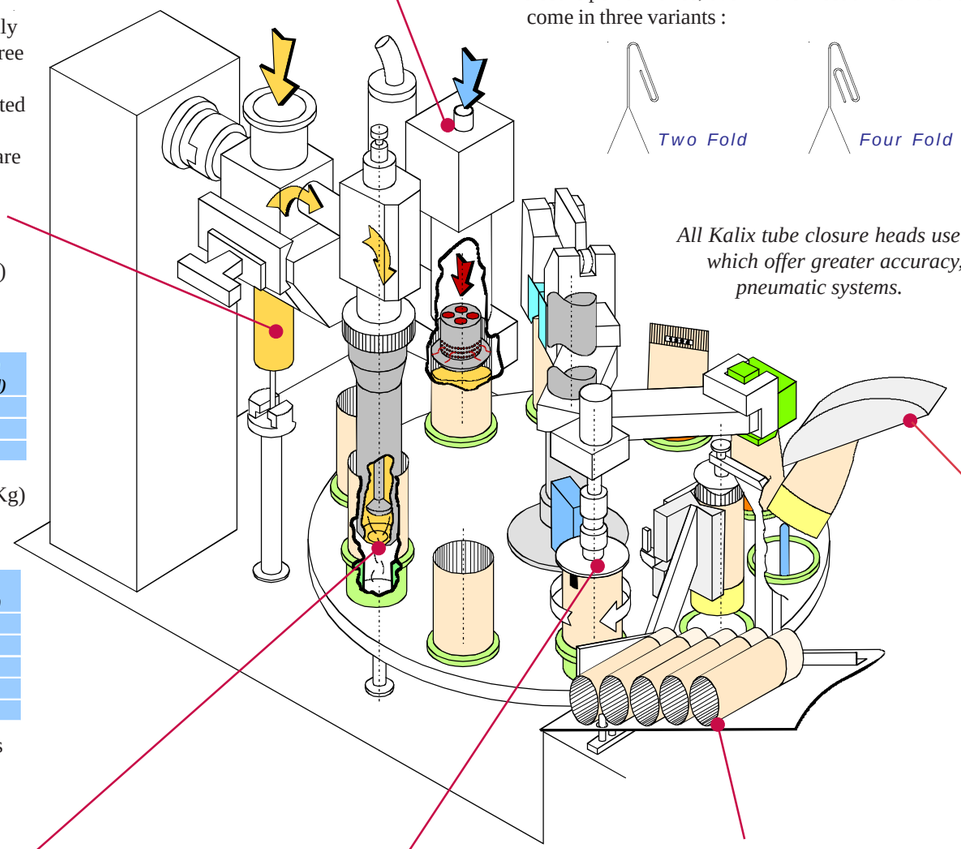
Metal tubes:

The latest fully-mechanical range of metal tube heads ensures excellent tube closure performance, even in the most difficult conditions. Kalix metal heads come in three variants :



Two Fold Four Fold Saddle fold

All Kalix tube closure heads use mechanical control systems, which offer greater accuracy, consistency and durability than pneumatic systems.



V. EJECTION

II. ORIENTATION

Tubes are oriented with great precision using an automatic stepping motor system. The motor is located under the table, for absolute GMP compliance. The orientation system can now be adjusted automatically from the control panel instead of manually on the cell.

I. TUBE FEED

The new Kalix tube feeder mechanism features a special tube separator and vacuum take-up system. The KX 801 can be fitted with a choice of automatic feed systems (see Options).

CLOSING HEAD HOT AIR

CLOSING HEAD METAL

EJECTION SEAL FIRST (CAP FIRST OPTIONAL)

FILLING UNIT