



Kentex Kentex Packing Machinery Co., Ltd.

Kentex Group



K800-FC/3

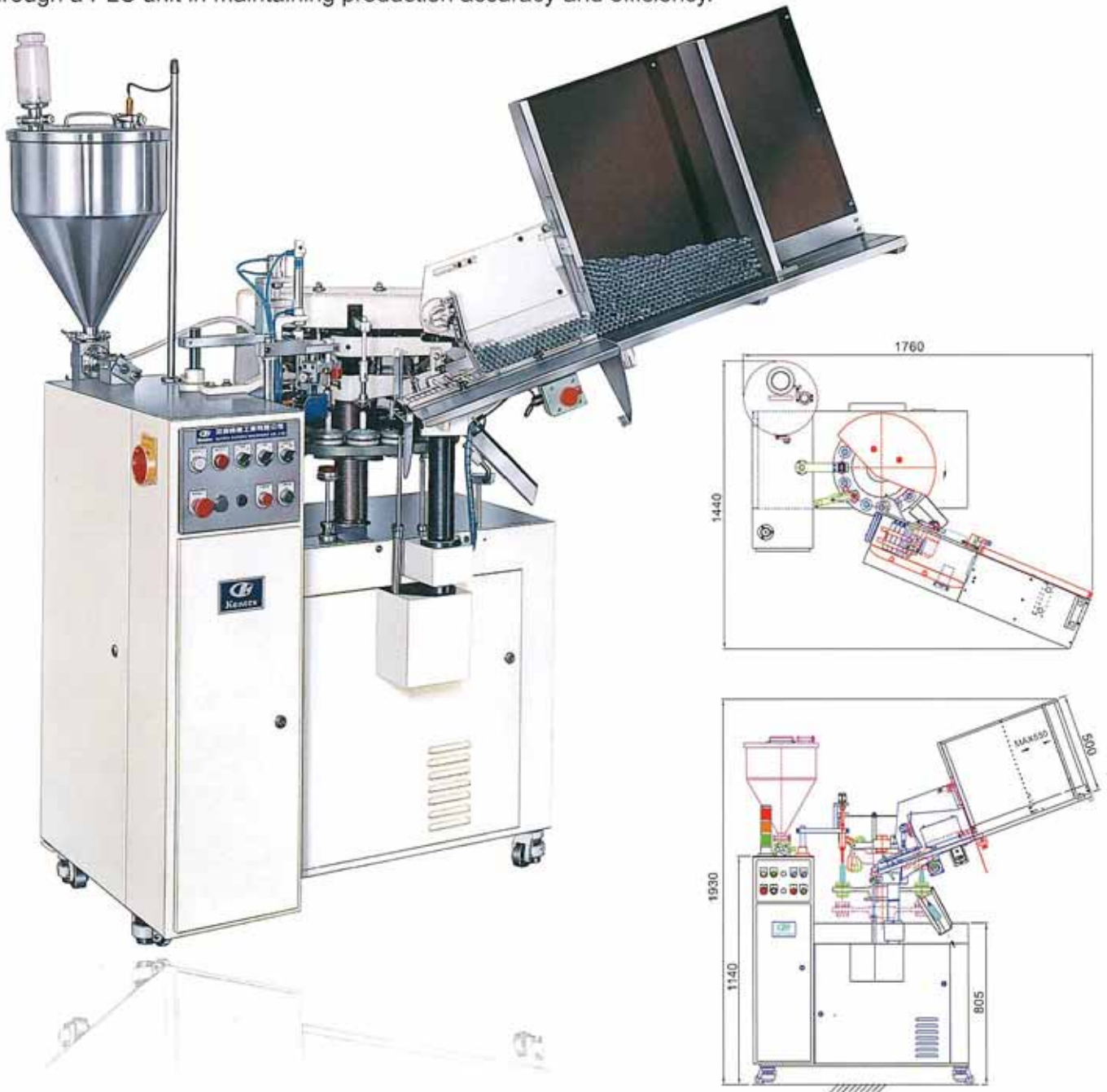
**Bottle Filling and
Capping Machine**

Company Introduction

Kentex was established in 1984 as a specialized manufacturer of tube filling machines. We have captured a majority of the super glue tube filler in the international market. Our accumulated expertise combined with continuing research and development has contributed to our sales volume to over 1,000 units worldwide. We provide our customers with an utmost satisfaction coming from efficient production combined with quality finished products.

MSG series machine units were developed for higher viscosity glue products (max. 100,000 CPS). MS series machine units were developed mainly to cater to low viscosity glue products (max. 150CPS). P.S. There is still many options for other viscosity glue.

Each of these series has semi-automatic(K500) and fully automatic(K800) models for varying production requirements. GMP standards have all been upheld in each and every of our machine units. Machine operation has been made easy for workers to handle any required manual support. Varying tube materials have different model units catering to each of the respective specific needs. Electrical circuits are controlled through a PLC unit in maintaining production accuracy and efficiency.



Operational procedures

1 K800 tube feeding type: (optional cassette feeder accessory)

The operator places whole box of empty tubes onto the cassette feeder as illustrated in diagram and withdraws empty box at a tilted position. Cassette is tilted back to normal position afterwards. Tubes are fed and discharged into each individual tube holders, as in diagram.



2 Tube orientation and counter

Adapting orientation shaft, adjust proper tube centering position at the same enabling sensor to pick up tube eye mark and setting the braking position. When tube ascends to maximum height, sensor detects tube presence and filling memory is logged in counter device.

3 Tube cleaning equipment (optional)

Before each filling step, empty tubes are cleaned by a blow and suction to rid out dust in maintaining GMP standards.



4 Descending filling

Super glue gel filling nozzle descends to tube bottom. Nozzle ascends while filling when filling pump is in action to prevent air bubbles from being trapped within super glue gel. When filling ends. Nozzle valve is shut for a leak-free condition. A machinery jagged clutch system for a safety device. (No tube-No filling)

5 Folding and coding

Strong tube sealing assures a leak-free tube with various sealing types available for selection. Single or double coding effects may be selected.



6 Tube ejection

When tube is at last stage of entire process, ejection rod ascends to push tube out of tube holders. (reversed ejection available as optional)



MS #1 ▶ Super glue filling mechanism

Preset dosing volume by plastic container suction, accuracy for a 3g tube at ±0.05g. Injection type filling enable production costs to be kept a minimum level.



MSG #2 ▶ Super glue gel filling mechanism

Super glue gel use descending filling types. Filling pump withdraws material from the 25 liters hopper at a preset dosing volume, filling nozzle descends into tube bottom, progressive bottom up filling to prevent leaking within glue product. Filling nozzle may be changed in diameter according to the cps range of the glue material to avoid air bubbles trapped within the product, thus maintaining a longer shelf life.

Functions & Specifications	Type	K800-MS	K800-MSG
Capacity		75tubes/min (MAX.)	60tubes/min (MAX.)
Tube diameter		φ10~25mm	φ10~25mm
Tube length		50mm~135mm	50mm~135mm
Volume		1.0g~8g	1.0g~8g
Main motor		2HP(1.5KW)	2HP(1.5KW)
Weight		Net.450kgs/Gr.650kgs	Net.500kgs/Gr.700kgs
Dimension		1.4(L)x1.2(W)x1.7(H)	1.6(L)x1.2(W)x1.7(H)

Pump specifications

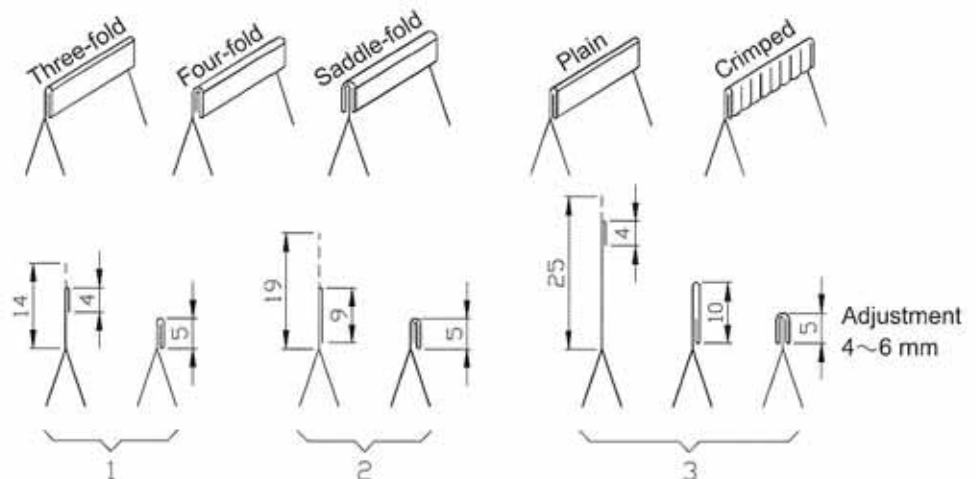
MS

PUMPφ	Volume(ml)	
	Min	Max
17.5	1.0	5
22	5.0	20

MSG

PUMPφ	Volume(ml)	
	Min	Max
15	1.0	8
25	6.0	25

Sealing technical data



Model highlights

K800-FC/3 model adapts mechanical aspects for a strengthened assembly, more efficient operations and fast production speed while maintaining accuracy. Operations handling is made easy with filling adhering to GMP standards. All models are designed according to specific customer requirements and level of automation. Varying pumps are available for varying viscosities of filling mass. Preset dosing volume by way of specially designed no-leak filling nozzles and according to bottle designs to ensure utmost efficiency. P.S. Bottles are designed from different customer's sample.



Operations process

- 1 **Cap Sorting**
Caps are sorted sequentially fed into the same direction or automatically push by cylinder to the holders.
- 2 **Bottle Sorting**
Bottle fed from bottle storage tank into the holder sequentially in the same direction.
- 3 **Directional Check**
Whenever a bottle is fed in the wrong direction, the machine will stop automatically.
- 4 **Safe Filling**
A safety feature of No bottle - No filling is available on all models. Filling mass may be positioned on the floor using a pump to suck required dosing volume for a more efficient production loss control.
- 5 **End-Plug Sorting**
End plug after runs through the sorting machine and it will sequentially fed in.
- 6 **End-plug device**
Before fed into the sorting machine, the end plug will go through the pre-lock, and tighten up the cap. The torque is adjustable.



7 End-plug protection device

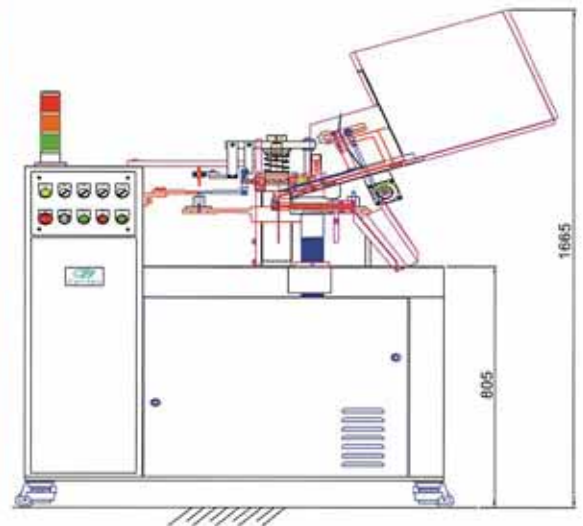
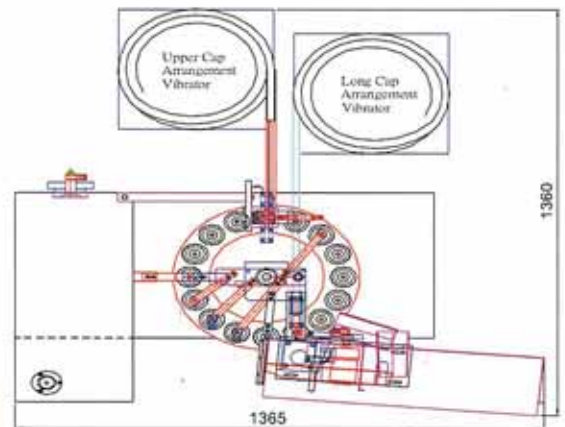
Make sure the end plug have locked after plug, if not, it will automatically shut down.

8 Ejection

Base on the different model to use pushing or ejecting for bottle ejected. An extending conveyer (optional) could be connect to the ejection station.



Production Speed	50Bottles/min. (according to filling volume and mass specification)
Bottle Diameter	9-40mm
Filling Volume	1.5-50ml
Electrical Requirements	Single phase 220V AC50/60Hz Main Motor 1HP
Machine Weight	Net. 1,000Kg/Gr.1,200Kg (according optional accessories)
Crated Dimensions	1.5M(L)x1.5(W)x1.7M(H)
Air Pressure	5 bar
Air Consumption	200L/min
Operator	1 Person



※We reserve the right to change the above specifications.

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