

FILLTUBE



Automatic Tube Filling & Sealing Machine



Simple and sturdy machine for filling of pharmaceutical / cosmetic / food pastes in tubes. The machine is suitable for filling cream, paste, ointment, balm, grease, jam, sauce, paint etc. in laminated or plastic or aluminium tubes. The empty tubes are loaded in the machine's 'Tube Hopper' and then the rest of the operations are automatic. Tube Loading, Tube Orientation, Filling, Sealing or Crimping, Batch Coding, Trimming and Tube Ejection is done in sequential operation on an intermittent motion rotary table. The machines are made in versions – one for plastic / laminated tubes and other for aluminium tubes. Plastic / laminated tubes are heat sealed whereas aluminium tubes are crimped.

Tubes are filled by stainless steel syringe pump. Fill volume can be accurately set as required. Different sizes of syringes are available for different ranges of fill volume.

Plastic / laminated tubes are sealed using latest technology of hot air jet that eliminates direct contact of heated jaws with tubes, thus giving cleaner seal and faster output. The heated and softened edges are then pressed by pneumatically operated jaws for sealing and batch code embossing.

FEATURES :

- Main machine frame with stainless steel covers
- Acrylic doors on all four sides above main frame
- Adjustable anti-vibration legs
- AC inverter for main drive for step-less speed variation
- Automatic tube hopper with pneumatic system of tube insertion into rotary index table
- Rotary index table for transferring tubes to cleaning, filling, sealing and ejection stations.
- Tube orientation controlled by photocell for accurate positioning of printed matter on tubes
- 30 litres capacity stainless steel hopper (S.S. 316)
- Stainless steel volumetric dosing syringe and Teflon piston seals for accurate dosage with step-less adjustment of volume
- Fill accuracy up to $\pm 1\%$
- Tube lifting at filling station – so that filling nozzle gets inserted inside tube during filling
- No-Tube-No-Fill system
- Tail cutting by 'suck back' method to prevent dripping of product after filling
- Double folding and crimping for sealing of aluminium tubes
- Batch code embossing facility within Crimping jaws for aluminium tubes (by using positively etched character type font)
- Hot air tool for plastic / laminated tubes (Leister make heater)
- PID temperature controller for accurate control of hot air temperature
- Air supply to air heater through independent blower
- Batch code embossing facility within sealing jaws for lami / plastic tubes (by using negatively etched character type font)
- Automatic tube ejection
- Tubes Counter

OPTIONAL :

- Jacketed hopper with electrical heater for water heating and hot water circulation pump
- Slow speed agitator (all contact parts S.S. 304)
- Additional folding station for 'Third Fold' for aluminium tubes
- Tube cleaning by air suction from inside of tube
- Diving type filling nozzle for filling of product from bottom up
- Water chiller (1 ton)
- Hopper Low Level Alarm
- Nitrogen Flushing Arrangement
- Empty Tube Elevating-Loading Device



Semi Automatic Tube Filling Machine



Tube Orientation Station



Hot Air Tool for Tube Heating from Inside



Filling Station with Suck Back for Tail Cutting

Model	Tube Loading	Tube Orientation	Tube Ejection	Max. Tube Dia	Output (Tubes / min)
ATF-I (Automatic Model)	Automatic	Automatic	Automatic	50 mm	30 to 60
TF-I (Semi-Auto Model)	Manual	Manual	Automatic	50 mm	20 to 30



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