

# Tabletop Compact Filling Line



- Volume range: 5-4000ml
- Filling speed: 150-200ml/sec
- Filling accuracy: +/-1%
- Capping speed: 10-20 bottles/min
- Labeling Speed: 10 -20 bottles/min

The Compact Filling Line combines bottle feeder, filler and capper into one tabletop production line. Ideal for flexible small-scale production of low viscosity liquid filling. Includes a Feeding Station with Rotary Table, Tabletop Gear Pump Filling Machine, Automatic Cap Torqueing Machine (with optional cap feeder), and an Advanced Tabletop Labeling Machine. Equipped with advanced and precise detecting system: No bottle, no filling; No cap, no capping. AC motor controls capper module to reach required torque value for proper tightening. Includes counting system for updating filling progress.

#### Control system:

- All stations are controlled by PLC
- PLC + HMI color touch screen control
- Multi-operation mode with switch:
  - Test/Manual/Intermittent
- Equipped with advanced detecting system:
  - No bottle, no filling; No cap, no capping
- Give alarm when error occurs
- Set emergency stop button for safety concern
- Green start button
- Counting system for updating filling progress

#### Construction material:

- Liquid contact parts are made of s/s SUS#316 to meet higher hygiene standard
- Frame and main component are made from s/s SUS#304 to meet cGMP standard

#### Power requirements:

- Power: 110V/60Hz
- Air Consumption: 6kgf/ cm



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# Tabletop Compact Filling Line

Operator required: 1

Capacity: 10 to 15 bottles per minute

(based on 15 ml bottles; water as testing sample)

Capacity per day: 3,600 to 5,400 bottles per day

(based on 15 ml bottles; water as testing sample)

## Feeding Station:

- Automatic rotating for feeding bottles
- 300mm Diameter Rotary Table
- Speed adjustable

## Filling Station:

- Filling parameters: volume set/start delay/span of intermittent filling
- Filling speed adjustment
- Non Drip Filling Nozzle
- Filling bracket
- Volume range: 5-4000ml
- Filling speed: 150-200ml/sec (water as test sample)
- Filling accuracy: +/-1% (depending on product)

## Capping Station:

- Customized star wheel for precise positioning
- Customized capping head for proper torquing  
Height of capping head is adjustable
- Capping speed adjustable
- Capping speed: 10-20 bottles/min

## Labeling Station:

- For general round bottle labeling
- Labeling Speed: 10 -35 bottles/min  
Labeling Accuracy: +/- 1 mm  
Applicable Bottle Size:  
(Dia.) 16-90 mm; (H) 30-160 mm  
Applicable Label Size:  
(Min.) 10 mm (L) \* 10 mm (H)  
(Max.) 300 mm (L) \* 100 mm (H)
- Label Roll: (ID) 75 mm; (OD) 300 mm
- Power: 110V/60 Hz

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OPTION **Additional Customized Star wheel(s)**

1 ☐ 1 star wheel for 1 bottle size

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OPTION **Additional Customized Capping Head(s)**

2 ☐ 1 capping head for 1 cap size

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OPTION **Automatic Cap Feeder**

3 ☐ 1 cap feeder for 1 cap size

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OPTION **Hot Stamp Coder for Label Applicator**

4 ☐ 1 Hot Stamp Code Printer

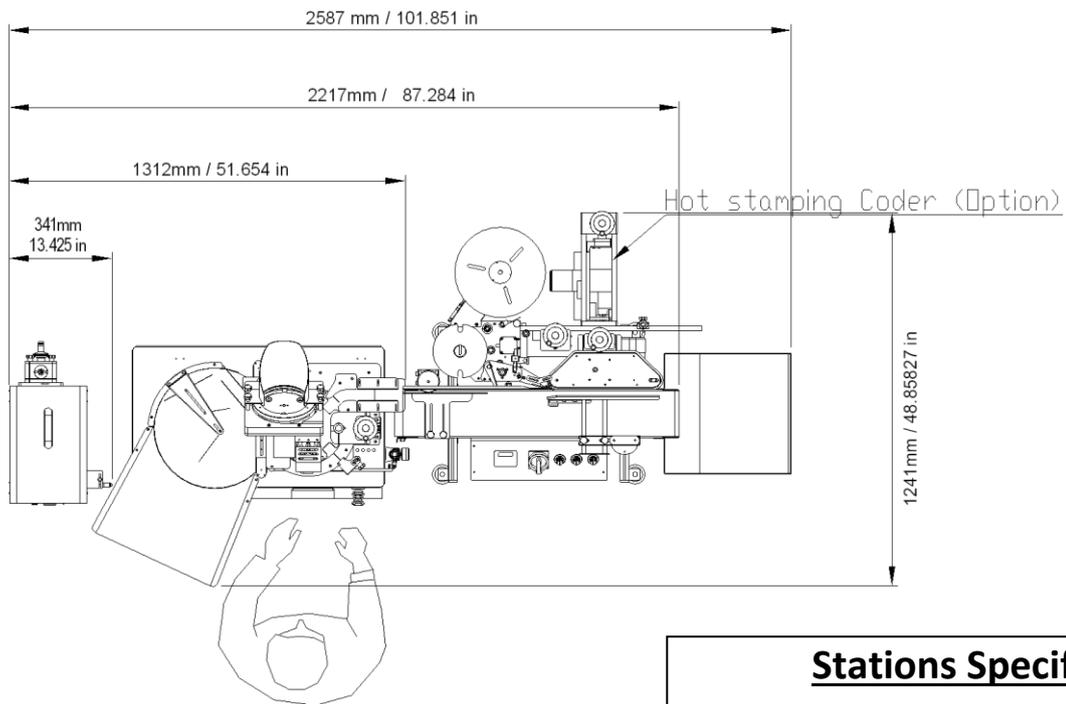
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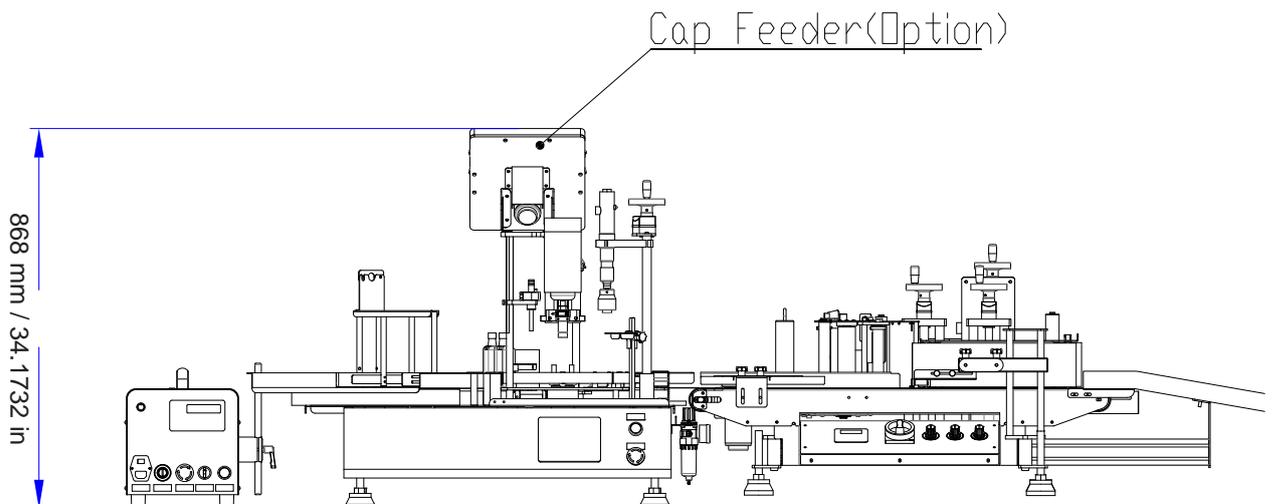
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# Tabletop Compact Filling Line



## Stations Specified

1. Tabletop gear pump filler
2. Tabletop infeed turntable (300 mm)
3. Filling ratchet
4. Manual cap placement
5. Tabletop screw cap capper
6. Tabletop round bottle labeler
7. Optional Collecting tray



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