Automatic Liquid Filling Machine for Bottles

The Automatic Filling System used for Filling Liquid in Bottles

- Bottle Loading
- Air Conveyor
- Carbonated/flowing liquid filling
- Bottle Rinsing and Filling
- Capping
- Bottle Warming
- Packing
**MECHANICAL SYSTEMS**

**AUTO BOTTLE RINSING, FILLING AND CAPPING MACHINE**

**THREE IN ONE (UNIBLOCK)**

Application: For filling Milk, Water, Fruit Juice, Liquor (any free flowing liquid) in bottles.

We manufacture machine production ranged from 24 BPM to 240 BPM with rinsing, filling and capping all in one Platform.

This Machine is fitted with Air-Conveyor for infeed & slat conveyor for out feed.

Filling System: Gravity

Capacity: 24 BPM to 240 BPM

**AUTOMATIC ROTARY FILLING/CAPPING MACHINE (L-Type)**

Application:
- For water, milk, juice etc.

Number of filling stations: 3

Approximate Output: 30 Bottle/min

Power requirement: 2HP

Filling System:
- Solenoid Valve

**SEMI AUTOMATIC ROTARY COUNTER PRESSURE FILLING WITH AUTOMATIC LOADING AND UNLOADING ATTACHMENT**

We manufacture machine production ranged from 24 BPM to 240 BPM with rinsing, filling capping all in one Platform. This Machine is fitted with Airconveyor for infeed & slat conveyor for out feed.

Application:
- Used for filling Carbonated water in

**Automatic Bottle Rinsing, Filling, Aluminium Foil Cutting, Forming & Sealing Machine**

This machine is widely use for filling Juices in small bottles from 100ml to 250ml, and the output of this machine is from 24 BPM to 48 BPM.

Application: Rinsing, Filling & Aluminium Foil Cutting, Forming & Sealing

Power Requirement: 3 KVA

Filling System: Gravity

Special Purpose Machines as per customer requirements are also made.
**5 Ltr., 20 Ltr. Bottling Line**

This machine is suitable for 5-litre to 25-Litre water jar production, with capacity from 120b/h to 1000b/h. It can be provided with facilities like automatic cap puller, external barrel scrubber, cap elevator and heatshrinker, etc.

**MSBF-60**

**MSBM-21**

**AUTOMATIC BEVERAGE MIXER (Pre-Mix)**

Mix CO₂ water

This machine is suitable to mix chilled water with carbon dioxide gas & syrup in a pre determined quantity and transfer the mixture to the filling machine. Machine can be made of different outputs. Material of construction Stainless Steel 304/316

**RO-10001 Water Purified**

We make RO water plants available from 500 litres to 25000 litres per hours depends on customers requirements.

**MSRO-1000**

**MSLVF-30**

For filling liquid in bottles mainly used in liquid.

**SEMIAUTOMATIC LINEAR VACUUM FILLER**

**MSSF-10**

For filling CO₂ water in pet or glass bottle. 300ml to 2500ml.

**SEMIAUTOMATIC LINEAR COUNTER PRESSURE FILLER**

**MSVL-20**

For filling liquid in bottles or jar from 50ml to 1000ml.

**SEMIAUTOMATIC LINEAR VOLUMETRIC FILLER**

**AUTOMATIC LIQUID (POUCH) FILLING & PACKING MACHINE**

Application: Suitable for packing of Milk, Water, Soyabean Milk, Fruit Juice, Beverage, Ice Drink, Soya Sauce, Vinegar and Wine etc. in pouches

**MSPF-70**

**TECHNICAL SPECIFICATIONS :-**

Output: 200-2000bags/hour
Capacity: 200ml-500ml can be adjust
Power: 220v/380v 1.6kw
Width: 320mm/240mm approx.
Weight: 400kgs approx.
Size: 970x870x1970mm approx.

**AUTOMATIC LINEAR GRAVITY FILLER**

**MSGA-53**

Application:

Widely used for filling Mineral Water Milk, Juice, Liquor, Drinks in glass/ HDPE/LDPE/PET/PVC

No. of Filling nozzles:

2, 4, 6

Output: 4-12 Bpm both in foot and Pneumatic Operated.

Special Purpose Machines as per customer requirements are also made.
**MECHANICAL SYSTEMS**

Automatic Rotary Type Cup/Glass Filling and Sealing Machine

**SPECIFICATIONS**
- **MSCF-96**
  - Source: 220V, 50Hz 2.5 KW
  - Output: 1200-2400 cup/hr
  - Temp: 0-300°C
  - Seal Material: PE, PP, PET/PE/AL
  - Dimension: 900 x 900 x 1400 mm approx
  - Weight: 300 KG approx
  - Mainly used for Curd, Lemon Water, & Juices etc.

**AUTOMATIC CUP/GLASS, RINSING FILLING AND SEALING MACHINE**

**SPECIFICATIONS**
- **MSCRF-95**
  - Source: 220V, 50Hz 2.5 KW
  - Output: 1500-1800 cup/hr
  - Temp: 0-300°C
  - Seal Material: PE, PP, PET/PE/AL
  - Dimension: 1700 x 540 x 1400 mm
  - Approx Weight: 300 KG approx

For water milk in cups

---

**AUTOMATIC JELLY FILLING AND ALUMINIUM FOIL SEALING MACHINE**

**SPECIFICATIONS**
- **MSJFS-1000**
  - This machine can fill from 5 to 25 gm. of liquid or semi-liquid material, like jelly, jam, butter, honey, pickle etc.
  - Output: 5000 cups upto 25000 cups per hour.
  - This machine can fill, seal & cut & print batch no. in one strok. All contact parts of the machine are made of stainless steel 304.

---

**SELF SPOUT POUCH TYPE AUTOMATIC FILLING & CAPPING MACHINE**

**SPECIFICATIONS**
- **MSVFC-75**
  - This machine is specially designed to fill and cap self spouting pouches.
  - It can fill Jelly, Milk, Juices etc. in pouches.
  - Loading is manual whereas unloading of pouches can be given automatic.
  - Technical Specifications:
    - Filling Capacity: 100 ml - 350 ml
    - Output: 2000 Pouches/hour
    - Motor: 2 H.P.
    - No. of filling head: 2, 4, 6
    - No. of capping head: 2, 4, 6
  - All contact parts of the machine are made of stainless steel 304.

---

**AUTOMATIC SIX HEAD VOLUMETRIC FILLING & CAPPING MACHINE**

**Application**
- Suitable for filling milk, juices, shampoo, Jelly, Edible & Industrial oils in bottles.
- No bottle no filling device can be provided in this machine.
- Machine is provided with diving nozzles.
- All contact parts of the machine are made of stainless steel 304.

**Technical Specifications**
- Output: 12 - 48 bottles per minute of 1 liters.
- Capacity: 100 ml - 1000 ml.
- Power: 440 VAC, 3 HP Motor
- Weight: 600 kgs. approx.

---

Special Purpose Machines as per customer requirements are also made.
**SEMI AUTOMATIC SCREW CAPPER**

**MSCM-52**

- **Application:** Used for applying caps on glass, Pet, HDPE, LDPE, PVC bottles
- **Approximate Output:** 15 to 20 output bottles/min
- **Power Requirement:** 1/2 HP

**AUTOMATIC SCREW CAPPER WITH CONVEYOR**

**MSGA-55**

- **Applications:** For Capping on line with any machine
- **No. of Heads:** 1, 3, 6, 9
- **Power:** 1HP
- **Requirements**

**AUTOMATIC GRAIN PACKING MACHINE**

**MSGP-35**

- **Specification:**
  - **Application:** To pack Powder, Granules, Tablets, Tobacco and products like Tea, Coffee, Detergents etc. in pouches.
  - Generally used for filling and packing of Powder, Spices, Tea, Khaini and other granules in small range.
  - Overall size of the machine is 762 x 610 x 1800 mm (LxWxH)
  - **Special Features:** Photocell control system. Screw jack type adjustable disc.
- **Technical Specifications:**
  - **Capacity:** 5gm to 1 kg.
  - **Speed:** 15 to 30 pouches per minute depends upon volume
  - **Power required:** 1/2HP or 1 HP single phase A.C.
  - **Weight:** Approximate Net Weight is 350 kg. & Gross weight is 450 kg.

**HORIZONTAL PILLOW PACKING MACHINE**

**MODEL NO. - 100**

- **Application:** To pack various kind of solid products such as Bread, Biscuits, Cakes, Candy, Chocolate, Ice-Disposable Syringes, Machine Parts etc.
- **Features:** This strong & neat seam can be obtained by the use of heat pipe type and sealer, the transfer brush, discharge brush, date printer, gas setting etc. are optionally available to fit your packing needs.
- **Technical Specifications:**
  - **Packing Size:** Length 100mm to 300 mm.
  - **Operating Speed:** Any heat sealable laminated, material
  - **Film Width:** 80mm to 360 mm
  - **Max. Film Width:** 400 mm
  - **Dimensions:** 1000 x 1360 x 3000 (L x W x H)
  - **Drive:** DC 1 HP
  - **Net weight:** 700 Kg. (approx.)
  - **Gross weight:** 900 Kg. (approx.)
  - **Power Required:** Motor Load: 1 HP DC 220 V Single Phase
  - **Heater Load:** 150W x 8pcs., 300 x 2 pcs.
  - **Oscillator:** 500 W
- **Special Features:** For size changing, variators are provided. Photocell control system provided. Coding device attachable.
- **Options:** Conveyor length as per customer requirement. Automatic counter attachment for Biscuits. Automatic size & toffee cutter attachment for Toffee Bars.

**AUTOMATIC SHRINK WRAPPING MACHINE**

**MSSW-40**

- **Specifications:**
  - **Model:** MSSW-40 (wrapper)
  - **Power Source:** 220V, 50Hz
  - **Power:** 18KW
  - **Air Pressure:** 4-6kg/cm²
  - **Capacity:** 5-10 packs/minute
  - **Max packing size:** 500mmx400mm approx
  (can be changed)

Special Purpose Machines as per customer requirements are also made.
**CARTOON TAPING & SEALING MACHINE**

**MSCS-49**

This machine is used for fast production for cartoon sealing & pressing on line with filling machine.

**SHRINK TUNNEL**

**MSST-45**

This machine is a Semi Automatic for heat shrinking machine for cartoon of different sizes as by customer requirement.

**Semi Automatic PET Bottle Blow Moulding Machine**

**Features**

- Built-in standard make automatic microprocessor.
- High quality cylinders and valves are standard equipment of the machine.
- Pressure adjustable value controls fast/slow mould platen opening and closing.
- The valves controls the pressure of the compressed air, excessive air is vent out through a silencer.
- Machine maintenance, testing and production have manual and semi auto mode.
- Genuine parts are used to enhance machine life.
- Specialized Heaters with directional counting for better heat transfer.
- In built cooling system for neck cooling.
- In built pipe line to control the temperature of mould by just attaching mould temper.

**FULLY AUTO THERMO FORMING MACHINE**

With 4-columns structure, the machine has a big forming square area. It is suitable for making containers as bowl, flower pot & cup. It is a thermoforming machine by pressing the heat-sheet (PP, PS, PVC). If you want to use this machine to make ordinary cups, 3-lines mold will be fit for the machine.

Controlled by PLC, servo motors used in the sheet-feeding & pulling device, the machine has a fast speed.

**AUTOMATIC LOADER (BUCKET/SCREW ELEVATOR)**

**MSAL-62**

**Application:** To carry the product to Machine Hopper. Speed of Elevator is synchronized with the basic/main Machine. Motor is 1/2HP, 220 V, AC.

**Special Features:**
- Hopper capacity: 100 to 500 kg.
- Elevator is controlled by automatic level control system.
- Available with fully covered frame in case of powder.
- Easy to clean the bottom truff by bottom opening.
- All material contact parts are made of stainless steel.

**Optional:**
- * Screw type Elevator also available.
- * Fully stainless steel coverings can be provided.
- * Any particulars elevator can also be made.

**STRAPPING MACHINE**

**MSSM-63**

Packing Speed: 1.6 Sec./Strap
Strip Width: 6-15 mm

Special Purpose Machines as per customer requirements are also made.
AUTOMATIC BOTTLE WASHING, FILLING & CAPPING MACHINE

The line applies for washing, filling and sealing all kinds of PVC, PET bottles. It also applies for producing all kinds of non-air soft drinks, such as fruit juice, fruit wine, mineral water and pure water, traditional Chinese medicine and other liquid.

AUTOMATIC MULTI PURPOSE SELF ADHESIVE LABELLING MACHINE

**Specification:**
- Output: 60 to 80 containers/minute
- Characteristics: 230 volts A.C. 50 Hz.
- Dimensions: 1850mm (L) x 1370mm (W) x 1170mm (H)
- Case Dimension: 2130 mm (L) x 1675 mm (W) x 1390 mm (H)
- Container Size: 25 mm to 90 mm width, 75 mm to 250 mm height, 20 mm to 90 mm

**Automatic Visual Vial Inspection Machine**

**Specification:**
- Output: 60 to 80 containers/minute
- No. of Operator: 4
- Power Characteristics: 415 Volts, 3 Phase (4 wire system) 50 Hz.
- Machine Dimensions: 4498 mm (L) x 1230 mm (W) x 1265 mm (H)
- Case Dimension: For Machine - 1 No. - 2500 mm (L) x 1524 mm (W) x 1500 mm (H)
- For Turn Table - 2 Nos. - 1524 mm (L) x 1524 mm (W) x 1400 mm (H)
- Input Specification: 5 ml to 30 ml

**Manual Vial Inspection Belt with Black and White Border**

**Specification:**
- Output: 80 to 250 Approximate vials/minute.
- No. of Operators: 6
- Power Characteristics: 440 Volts, 3 Phase (4 wire system) 50 Hz.
- Machine Dimensions: 2440 mm (L) x 760 mm (W) x 1325 mm (H)
- Case Dimension: 2616 mm (L) x 915 mm (W) x 1420 mm (H)

**Automatic Airjet Cleaning Machine Inbuilt Unscrambler of 30" Dia**

**Specification:**
- Output: 60 to 80 Containers / min.
- Power Characteristics: 415 Volts, 3 Phase (4 wire system) 50 Hz.
- Machine Dimensions: 1778 mm (L) x 762 mm (W) x 970 mm (H)
- Case Dimension: 2130 mm (L) x 1060 mm (W) x 1060 mm (H)
- Input Specification: Container Diameter: 25 mm to 55 mm.
- Container Height: 45 mm to 130 mm

**SEMI-AUTOMATIC LABELLING MACHINE**

**Salient Features:** It can work without any change of machine parts for different size of bottles. For metal, glass, plastic and composite containers. Work with cold glue. For face and wrap-around labelling. Especially developed to suit small productions of round-cans, bottles, composite containers & cylindrical products. Cleaning of glue pan requires no time & skill.

**Technical Specifications:**
- Diameter of Container: 27 mm to 150 mm
- Height of Container: 35 mm to 270 mm
- Label Width: 25 mm to 160 mm
- Label Length: 75 mm to 325 mm
- Power Supply: 220 V A.C.
- Motor: 0.25 H.P.
- Speed: 30 to 35 contl./per min.
- Overall Dimensions: 800 mm (W) x 600 mm (L) x 450 (H)

**INDUCTION SEALING MACHINE**

This machine is suitable for sealing aluminium foil (vat) on glass or pet bottles. This is very fast and efficient. It can be provided with detectors device in case the foil in the cap is missing the machine will reject the bottle automatically.

**Technical Specifications:**
- Belt speed is maximum 80m/minute
- Capacity: 16 ml - 60 ml mm. diameter
- Power: 2.5 KW
- Conveyor: 8 ft. long
- Source: 220/440 volts

Special Purpose Machines as per customer requirements are also made.
CONVEYING SYSTEM

This conveying system is mainly used in bottled production line to transfer bottles to following positions: bottle washer, filler and labeler. All parts are made of stainless steel or harmless plastic material. The whole machine has performances of no toxin. No noise and pollution.

COLLOID MILL

This type of colloid mill is new type of wet ultra-micron particle processing machine. It is suitable for all milky liquids to homogenization, emulsification and comminution. It is widely used in foodstuff, fruit catsup, fruit juice, soymilk, milk and beverage industry, as well as used in daily chemical industry, such as medicine, syrup, Sino-medicine and paste medicine. All parts touching with medium are made of stainless steel. It is an ideal emachine for these industries.

SYRUP FILTER PRESS

This kind of filter mainly use to filter syrup to remove sundries and smell.

INK CODING MACHINE

This Coding machine is a kind of special label printing equipment, and suitable for printing labels on the surface of paper, nonferrous plastic film and aluminum foil. It adopts cantilever type mechanism, light and precise. Its lengthways-printing position is controlled by electronic device, and can be adjusted discretionarily. moreover, it uses advice and solid ink roller for printing, which has six colors for choice, such as black, red, yellow, blue, white and green, and make the printed words clearly and uneasy to erase nd change.

Better Technology Keeps us Ahead of others

Mechanical Systems

Unit No. - 1 at Ambala Cantt
Plot No.-61, HSIIDC, Industrial Estate,
Ambala Cantt - 133006 (Haryana)
MOBILE : +91-92154 77900, 01, 02, 03, 04, 05, 06, 93151 00278, 93156 35732
Ph.: +91-171-3291528, 2699261, Fax.: +91-171-2699261
E-mail : mechsyst2004@yahoo.com, mechsyst1980@gmail.com, mechsyst@rediffmail.com
Web.: www.mechanicalsystemsindia.com, mechanicalsystems.co.in

Special Purpose Machines as per customer requirements are also made.