

Semi Automatic Capsule/Tablet Counting & Filling

MODEL PCI 1500

Semi Automatic capsules/tablets counting and filling machine Model PCI 1500 is ideal for small/large scale pharmaceutical units. The machine is compact, occupies minimum space, simple to operate and easy to maintain.

OPERATION

Filled capsules/tablets are fed into the hopper. The amplitude of vibration can be controlled to synchronize and achieve the required counting speed. The capsules / tablets move along the periphery and are aligned to enter the adjustable guide channel in single line along the track to pass through the beam of Photoelectric Fiber Optical Sensor/Scanner at the filling station. The photoelectric scanner counts the pre-determined quantity of the capsules/tablets and stops automatically until the next container is placed underneath the Filling nozzle. The machine is incorporated with two filling nozzles for continuous counting and filling. One bottle is always in place for filling. The operator simply picks up a filled bottle and replaces it with an empty bottle. A No-Bottle-No-fill sensor is provided at the bottle holding station. Once the bottle is filled, the machine stops automatically.

SALIENT FEATURES

- ⇨ Product contact parts SS 304 / SS316 / SS 316L quality (except rotary table).
- ⇨ Photoelectric Fiber Optical Sensor/Scanner for sensing capsules/tablets.
- ⇨ Counting speed is adjustable through Variable Frequency Drive.
- ⇨ Amplitude of vibrator is adjustable to meet counting speed.
- ⇨ Programmable Logic Control (PLC) system with HMI enables visual display of the operating parameters besides ensuring accuracy, reliability and reduced operator fatigue.
- ⇨ No change parts required.
- ⇨ Glass Rotary table.
- ⇨ No-bottle-no-fill arrangement.

OUTPUT (Approx)

Tablets - 1000 to 1800 per minute
Capsules - 1200 to 1500 per minute

TECHNICAL SPECIFICATIONS:

Main Drive:
0.25 HP, 220volt, 3 Phase, 50 Cycles, 1400 RPM

Overall Dimension:
1150mm (L) x 950mm(W) x 1600mm (H)

Net Weight (Approx):
1050 kg.



Capsule Inspection-Cum-Polishing Machine



OPERATION

The capsule inspection and polishing machine is designed basically to inspect and polish capsules after powder filling operation prior to final packing. The rotary spiral principle of polishing ensures a high gloss finish even with Hygroscopic powder.

Filled capsules travel from the hopper to the vibrating tray and passes through the Inspection belt, which is provided with Light arrangement for visual inspection of damaged or rejected capsules prior to polishing.

The capsules travel in a zigzag way on the inspection belt. While traveling on the Inspection belt S.S. Strips provided on the inspection belt rotate the capsules. This helps the operator to inspect and sort out the rejected capsules from the inspection belt.

After passing through the inspection belt, the filled capsules are fed to the spiral brush through a funnel. Filled capsules pass through spiral brush. The powder is sucked by the suction blower attached to the polishing brush.

INTERCHANGEABILITY

It is recommended to use separate polishing brushes for different products to avoid contamination. Separate polishing brushes can be supplied for different types of powder. Polishing brushes can be interchanged easily.

OUTPUT

35,000 - 40,000 capsules per hour

TECHNICAL SPECIFICATIONS:

Conveyor belt drive:
0.25 HP, 440 Volts, 3 Phase, 50 Cycles, 1400 RPM

Polishing Brush Drive:
1.0 HP DC Motor, 220/180 Volts, 50 Cycles, 1500/1800 RPM

Vacuum blower:
2.0 HP, 440 Volts, 3 Phase, 50 Cycles, 2800 RPM Vacuum - 150 mm Hg, Pressure-2.5 PSI, Capacity-100 CFM

Motor for empty capsule attachment:

1.0 HP, 440 Volts, 3 Phase, 50 Cycles, 2800 RPM

Overall Dimensions:
2250 mm (L) x 1220 mm (W) x 1850 mm (H)

Net Weight (Approx):
495 kgs

SPECIAL FEATURES

- ⇨ Simple to operate. Can be handled by semi-skilled operator.
- ⇨ Easily removable parts.
- ⇨ Sturdy Fabrication for durability and long life.
- ⇨ Designed to polish all sizes of capsules

MACHINES CAN BE SUPPLIED FOR 380 VOLTS 3PHASE 50 Hz OR 220 VOLTS 3PHASE 60 Hz AS PER CLIENT'S REQUIREMENTS

Pharma Chem Industries offers comprehensive technical consultancy and advisory assistance if required. Necessary personnel training and assistance are provided as after-sales support.

As the design and manufacture of Pharma Chem Industries machines are subject to continual improvement, the product supplied may differ in some details from the specifications and illustrations given herein.



M/s. PHARMA CHEM INDUSTRIES, Unit No.25, 'A' Building, Ground Floor, Virwani Industrial Estate, Western Express Highway, Goregaon (East), Mumbai - 400 063. Tel: 00-91-22-29275873/74. Email: phamachem@mtnl.net.in/phamachem@vsnl.net



Capsule Filling, Loading, Polishing & Counting Machines

DEPENDABLE AND COST EFFECTIVE



MODEL PCL V28 (VERTICAL)

OUTPUT

Fills a 300-hole plate in 28 seconds. The vertical loader can feed 2 or 3 manual capsule filling machine trays depending on the quality of the capsule and the skill of the operator.

Drive:
0.25 HP, 3-Phase, 50 Cycles

Dimensions:
490 mm (L) x 630 mm (W) x 985 mm (H)

Net Weight (Approx):
100 kg.

The base and covering of the machine are fabricated in stainless steel 304 and duly polished. The machine confirms to cGMP norms.



Automatic Capsule Loaders

GENERAL

This equipment has been rated as ideal for small/medium scale Pharmaceutical units. The design is user friendly. The equipment is simple to operate and it is time and labour saving.

The Automatic Capsule Loader is compact, occupies very little space and easily movable. It gives higher production at a lower cost and with much better standards of accuracy than the earlier semi-automatic machines which are being phased out gradually in most units.

Pharma Chem's AUTOMATIC CAPSULE LOADER can make a significant difference in your production department.

OPERATION

- ⇒ Fill hopper with empty capsules.
- ⇒ Place hand-filler loading tray with guide on the sliding base plate.
- ⇒ When the machine is switched on, the capsules automatically get nested in the tray with the cap up and body down.

INTERCHANGEABILITY

Interchangeable parts can be supplied for all size: 00, 0, 1, 2, 3, 4 & 5 capsules.

UNIQUE FEATURES

- ⇒ Low investment, high-output.
- ⇒ Simple to operate. Can be handled by semi-skilled personnel.
- ⇒ Designed to fill all standard sized capsules.
- ⇒ Easily removable parts. Spares readily available.
- ⇒ Sturdy Fabrication assures durability and long service.
- ⇒ Excellent cost benefit ratio.

MODEL PCL H14 (HORIZONTAL)

OUTPUT

Fills a 300-hole plate in 14 seconds. The horizontal loader can feed 4 to 5 manual capsule filling machine trays depending on the quality of the capsule and the skill of the operator.

Drive:
0.25 HP, 3-Phase, 50 Cycles

Dimensions:
600 mm (L) x 685 mm (W) x 1015 mm (H)

Net Weight (Approx):
120 kg.

The base and covering of the machine are fabricated in stainless steel 304 and duly polished. The machine confirms to cGMP norms.



Manual Capsule Filling Machine

GENERAL

This is the simplest capsule filling machine, suitable for all classes of Pharmaceutical Manufacturers. Additionally, it has also established its value in the R&D section of large scale Pharmaceutical Companies where it may be used for smaller batches, trial runs and as a standby. The equipment is simple to operate, and gives negligible rejections, with no weight variations.



OPERATION

- ⇒ Fill loading tray with empty capsules.
- ⇒ Place tray in bed.
- ⇒ Operate cam handle to separate capsules cap from body.
- ⇒ Place powder tray in position, fill with accurate quantity of powder and spread with scraper.
- ⇒ Operate pin plate to compress and fill.
- ⇒ Operate lever to lock capsules cap and body.
- ⇒ Remove tray and empty filled capsules.

MODEL

PCF - 300SS / PCF - 300 STD (300 holes).

PCF - 100SS / PCF - 100 STD (100 holes).

Stainless Steel model: The machine is fabricated in Stainless Steel 304 material.

Standard Model: All contact parts are made out of Stainless Steel 304 material and non-contact parts are made out of non-corrosive metal duly plated or painted.

Machine with SS 316 / SS 316L contact parts are also available as option.

INTERCHANGEABILITY

Interchangeable parts can be supplied for all standard size capsules.

Recommended interchangeability for optimum output:

0/00; 0/1/2; 3/4/5.

SPECIAL FEATURES

- ⇒ Simple design for ease in operation.
- ⇒ Sturdy, easily movable.
- ⇒ Can be easily dismantled and reassembled even by unskilled operator.
- ⇒ Excellent cost-benefit ratio.

TECHNICAL SPECIFICATIONS:

Description	Model: 100 Holes	Model: 300 Holes
Output	17000-20000 Capsules per 8 hour shift	55000-60000 Capsules per 8 hour shift
Overall Dimensions (Approx)	325 x 350 x 425 (mm)	485 x 480 x 500 (mm)
Net Weight (Approx)	20 kg	45 kg

Decapsulation Machine



Salient features

- ⇒ No Crushing of capsules.
- ⇒ Perforated Drum with Spirals for POWDER and SHELL separation.
- ⇒ Compatible for all size of capsules, by using appropriate change parts.
- ⇒ Single Phase Power Supply.
- ⇒ Enclosed design preventing fine dust pollution.
- ⇒ Speed variation using AC Variable Frequency Drive.
- ⇒ Ease in cleaning.
- ⇒ Wheel mounted for easy movement.

Electricals

Main Drive Motor -
BONFIGLIOLI Gear motor

Specifications -
0.25 HP, 220V, 1440 RPM, 1 Phase, 50Hz

Floor Space (Approx.)
600 mm (L) x 460 mm (W) x 1450 mm (H)

Weight (Approx.)
100 kg