



# Snowbell Machines

Complete Solution For Your Pharma Needs



## Sterile / Aseptic Filling Lines for . . .



Vials



Ampoules



PFS



Eye/Ear  
Drop



Nasal/Topical  
Spray



Cartridges



Isolator



[www.snowbellmachines.com](http://www.snowbellmachines.com)



## ABOUT US

For over a decade, Snowbell Machines has been a pioneering force in the pharmaceutical machinery industry. Since our inception in 2005, we have relentlessly pursued innovation, shaping the landscape of aseptic filling and sealing equipment for injectables, containment systems, and cutting-edge filling and packaging machinery for ophthalmic, nasal, and topical sprays. Our journey is marked by unwavering dedication to excellence and a commitment to delivering superior solutions to our valued customers.

Since our inception, Snowbell Machines has embodied the spirit of innovation. Our passion for excellence has driven us to develop cutting-edge solutions for the pharmaceutical industry. We specialize in manufacturing aseptic filling and sealing machines for vials, cartridges, pre-filled syringes, and ampoules. Our commitment to safety is unwavering, as we produce containment systems like isolators up to OEB level 5, ensuring the highest degree of protection for both operators and products.

Diversity is our strength, and our product range is a testament to this belief. Snowbell Machines boasts a portfolio of over 50+ products, including medical device assembly machines for meter dose injections and diabetes delivery devices.

Our machines are a fusion of engineering marvels, meticulously designed and crafted to ensure precision, accuracy, and efficiency at every stage. Snowbell Machines prides itself on delivering superior results with unwavering consistency. We understand the critical nature of pharmaceutical manufacturing, and our machines rise to the occasion, every time.

At Snowbell Machines, our customers are at the heart of everything we do. We are dedicated to providing high-quality solutions that cater to your unique needs and specifications. Our team of experienced professionals works diligently to understand your requirements and exceed your expectations. From consultation and installation to comprehensive training and ongoing maintenance, we are committed to ensuring your success.

Embark on a journey of top-notch pharmaceutical machinery solutions with Snowbell Machines. Whether you are seeking state-of-the-art filling and sealing equipment, innovative containment systems, or cutting-edge filling and packaging machines, we have you covered. Trust in our legacy of excellence, and let us be your partner in progress. Elevate your pharmaceutical manufacturing to new heights with Snowbell Machines.

Snowbell Machines Pvt. Ltd.

## PRODUCT LIST

- Vial Liquid Filling Line.
- Vial Powder Filling Line.
- Ampoule Liquid Filling Line.
- Vial Liquid Powder Filling Line.
- Bottle Filling Line (100ml to 500ml – LVP Line)
- Eyedrop Filling Line.
- Cartridge Filling Line
- PFS Filling & Stoppering
- PFS Plunger Rod Insertion and Labelling Machine.
- Combi Ampoule / Vial Line
- Combi PFS / Cartridge Filling Line
- Combi Vial / Eye Drop Filling Machine
- Triple Combi Vials / PFS / Cartridge Filling Machine
- Triple Combi Ampoule / Vial / PFS Filling Machine
- Nasal Spray Filling Line
- Topical Spray Line
- Dry Syrup Filling Line
- Gel Filling Line
- Onion Skin Ampoule Filling & Sealing Machine
- Vacutainer Filling Machine (For Pre-Stoppered Vacutainer).
- NIR Inspection Machine.
- ONCOLOGY Line
- Compounding Isolator with Compounding Vessel
- Filtration Isolator with Filtration Skid
- Isolator for Sampling
- Isolator for Dispensing
- Isolator for OSD (Oral Solid Dosage)
- Ointment Filling Line

## PRODUCT LIST

- Jar Filling Line
- Isolator for Capsule Filling Machine
- Isolator for Tablet Pressing Machine
- Isolator for Ball Mill
- Isolator for Sterile Milling Process With Half Suit
- Globe Box for API Charging In Reactors (Acrylic)
- Glove Box for Weighing (For Laboratory Use)
- Glove Leak Tester Wifi Type
- Glove Leak Tester Wired Type
- IV Bag Filling & Plugging Machine
- Lyophilizer Tray Loading System
- PFS Denester
- Pass Boxes (Static & Dynamic)
- Laminar Flow (Horizontal, Vertical, Ceiling Suspended & Stand Mounted)
- Air Shower
- Mist Shower
- De-dusting booth
- Sampling & Dispensing Booth
- Mobile Trolley
- Garment Storage Cabinet
- Bio Safety Cabinet
- Sterility Test Isolator
- ALUS
- External Washing Machine
- Leak Testing Machine for Vials
- Labelling Machine
- Cosmetic Inspection Machine.

## PRODUCT RANGE



### R&D Machines

- Vial
- Ampoule
- PFS
- Cartridge

- Vial / Ampoule Rotary Washing Machine
- Sterilizing & Depyrogenating Tunnel / Dry Heat Sterilizer
- Ampoule / Vial Combi Filling, Stoppering & Sealing Machine
- Powder Filling Machine
- External Vial / Ampoule Washing Machine
- Pre-Filled Syringes Filling and Stoppering Machine
- Cartridge Filling and Stoppering Machine



### Vial Compact Line

- Vial-Liquid
- Vial Powder

- Rotary Washing Machine
- Sterilizing & Depyrogenating Tunnel / Dry Heat Sterilizer
- Liquid, Powder-Rotary and Linear Type Filling Machine
- Lyo Intergration with Automatic Lyo Loading & Unloading System
- Liquid Filling with Syringes/Peristaltic Pumps/Time Pressure Filling
- Powder Filling with Microdosing System
- ORABS/CRABS/Isolator/LAF with Contamination Control Cabinet
- Output Range 25 to 400 Vials Per Min
- Fill Volume 0.25 ml to 500 ml (For Liquid)
- Fill Volume 50 mg to 1200 mg (For Powder)
- Servo Based Filling/Check Weighing System
- Supervisory Control & Data Acquisition System (SCADA)



### Ampoule Compact Line

- Rotary Washing Machine
- Sterilizing & Depyrogenating Tunnel / Dry Heat Sterilizer
- Liquid Filling with Syringes/Peristaltic Pumps/Time Pressure Filling System
- With ORABS/CRABS and Contamination Control Cabinet
- Output Range 25 to 400 Ampoules Per Min
- Fill Volume 0.25 ml to 20 ml

## PRODUCT RANGE



### Pre-Filled Syringes

- Output Range 25 to 200 Pre-Filled Syringes Per Min
- Fill Volume 0.08ml to 10ml with Syringes / Peristaltic Pumps / Time Pressure Filling Systems with oRABS / CRABS / Isolator
- PFS Plunger Rod Insertion and Labelling Machines



### Robofill

- Robofill Triple Combi ( Ampoule, Vial and Cartridges Compact Line )



### Combi Machines

- Triple Combi ( Ampoule, Vial and PFS Compact Line )
- Ampoule & Vial Compact Line
- Vial and (Liquid and Powder) Compact Line
- Vial & PFS/Dental Cartridge (Liquid Filling)
- Output 25 to 400 Containers Per Min



### Non Injectable Machines

- Nasal Spray Line
- Topical Spray Line
- 3 Piece Eye/Ear Drop Filling Machine
- Powder for Suspension Line



### Complex Injectable

- Complex Injectable Solution from Feasibility / R&D Studies to Commercial Scale Up

## PRODUCT RANGE



### Containment Solutions

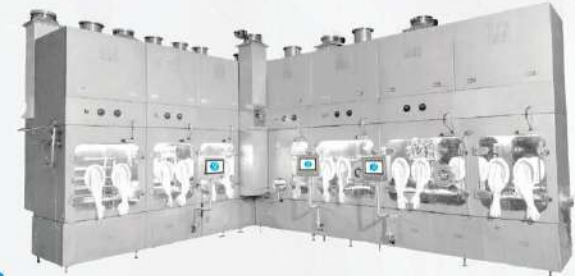
- Complex API
- Isolator For Injectable
- Isolator For Tablet/Capsule
- Sterility Test Isolator
- Isolator For Sampling & Dispensing



### Clean Room Solutions

- LAF Unit, Passthrough, Sampling-Dispensing Booths
- Air Shower, Mist Shower Dedusting Booth
- Bio-Safety Cabinet

## VIAL AND PFS COMBI LIQUID LINE WITH ISOLATOR



### Features

- Full Vial Line Integrated with Isolator for Presterilized Vials and PFS
- Inline Check Weighing
- Integrated with VHP Sterilization System and Validation Process
- Inline Leak Test and External Washing Inside Isolator
- SCADA Integration 21 CFR Part 11 Compliance

## AUTOMATIC IV BAG FILLING MACHINE



### Features

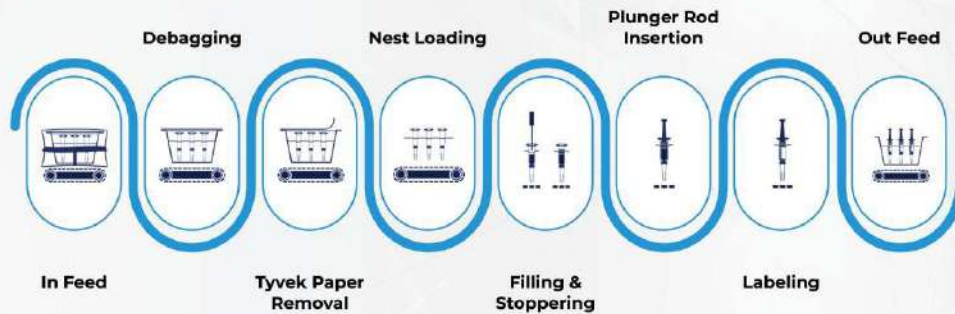
- Printing and OCR/OCV inspection of data
- Bag pick and place using Robotic arm
- Bag filling using peristaltic pumps
- Nitrogen purging during filling operation
- Ultrasonic plug sealing
- LAF with contamination control cabinet with oRABS/cRABS/Isolator
- SCADA integration 21 CFR part 11 compliance

### Product Details

Machine Speed	16-20 Bags per Minute
Fill Volume Range	50 ml to 2000 ml

## PRE-FILLED SYRINGES FILLING SYSTEM

### Process Flow



### Features

- A Monoblock Machine to Perform Filling & Stoppering Functions
- Manual/Automatic Loading System for PFS Tubes
- Volumetric Rotary Syringe or Peristaltic Pump or Time Pressure Filling System
- Pipe In Pipe Out/Vacuum Stoppering
- Pre-gassing & Post-gassing with Nitrogen
- Servo Drive for Label Dispensing
- Transfer Chute
- Batch Coding Printers
- Rejection of PFS Without Labels
- Safety Cabinet with Door Interlock
- Touch Screen with User Friendly HMI
- OCR/OCV of Label Printed Data

## ROBOfill TRIPLE COMBI FILLING & STOPPERING MACHINE

### Features

- Rated Output - 50 to 200 Containers/Min
- Fully Automated Servo Controlled Operations
- Fill Volume Range : 0.08ml to 50ml
- Buffer Tank with Load Cell for Automatic Product Level Controlling
- High Precision Load Cell for PFS and Cartridge
- Provision of Placement for Isokinetic Probe
- Conveyor Integration for Tub Transfer From oRABS
- Light Curtains for Glove Ports
- SCADA



### Suitable For



### Operations by Robotic Arm

- Tyvek Sheet Removal
- Tyvek Paper Removal From Tub
- Lifting and Placing of Tub
- Statistical/100% Check Weighing
- Lifting of Nest From Nest Holder and Placing on Conveyor/Denesting Station
- Automatic Vial Denesting Operation
- Handling Vial PFS and Cartridges



## ONCOLOGY FILLING LINE



### Features

#### Complete Intergrated Line Consisting of Following Machine

- Vertical Rotary Vial Washing Machine
- Sterilizing & Depyrogenating Tunnel
- Liquid Vial Filling & Stoppering Machine with Statistical / 100% Check Weighing Inside Isolator
- Transfer Conveyors Integrated In Isolator
- Automatic Lyophilizer Loading & Unloading System with Isolator
- Vial Cap Sealing Machine Inside Isolator
- External Vial Washing Machine with Isolator

## ONCOLOGY FILLING LINE

#### Salient Features of Isolator

- Vertical Positive Pressure Isolator for Aseptic Processing of OEB Level 5 Product
- Rigid Wall Construction In SS316I
- Integrated with RTP & LTP
- Monitoring & Controlling of Pressure, Temperature & RH
- AHU for Supply & Exhaust Air with Recirculation System
- Air Exhaust Through Bag In Bag out (BIBO) Unit-Safe Change Double Hepa Filters
- WIP Gun & Spray Balls For CIP
- Automatic Leak Testing
- Integrated VHP System for Sterilization
- SCADA Integration 21 CFR Part 11 Compliance

## POWDER FILLING MACHINE



### Features

- ▶ Full Complete Integrated Line of Machine Consisting of Washer, Sterilizing & Depyrogenating Tunnel, Liquid / Micro Powder Dosing Filling, Stoppering & Cap Sealing Machine
- ▶ 21 CFR Part 11 Compliance
- ▶ Containment System InFrom of oRABS/cRABS/Isolator
- ▶ Powder Filling By Measures of Cams/Servo Motor
- ▶ Powder Filling Using Vacuum & Compressed Air Measure System Servo Based Indexing Movement of Dosing Disc

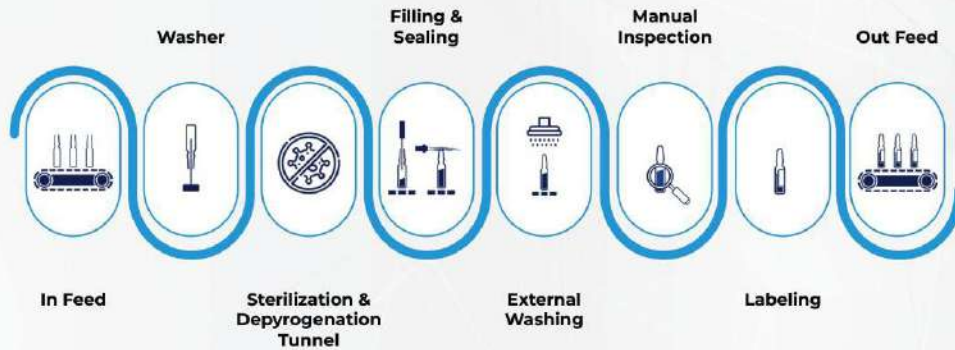
## POWDER FILLING MACHINE



- ▶ Provision for Media Filling Through Peristaltic Pump
- ▶ Multiple Dosing System
- ▶ Servo Based Statistical Check Weighing System On Filling Machines
- ▶ Fully Automatic Machines with State of The Art Human Machine Interface
- ▶ Customised Equipment Layout Design As Per Floor Plan of Customer

## AMPOULE FILLING LINE

### Process Flow



### Features

- Rotary Washing Machine
- Sterilizing & Depyrogenating Tunnel/Dry Heat Sterilizer
- Liquid Filling with Syringes/Peristaltic Pumps / Time Pressure Filling Systems
- With oRABS/cRABS & Contamination Control Cabinet
- Output Range 25 to 400 Ampoules Per Min
- Fill Volume Range 0.25 ml to 20 ml

## STERILIZATION AND DEPYROGENATION TUNNEL



### Features

- Snowbell machine's Depyrogenation tunnels are dimensioned to perform an endotoxin reduction of greater than 3log.
- They tunnel is divided in three zones which are drying zone, hot zone and cooling zone.
- The hot zone is equipped with HEPA (H-13 grade) filter for resisting high temperatures up to 350°C
- It is equipped with automatic excess air control in cooling section to balance the air pressure between the aseptic and non-aseptic space.
- CIP/SIP for cooling zone.
- Strip chart or paperless recorder



## VIAL CAP SEALING MACHINE



### Features

- Filled and stoppered vials are continuously fed from the up-line machine to Snowbell's Vial Cap Sealing Machine.
- Sealing station made of rotating vial base rests, caps sealing rollers and seal holding star-wheels.
- Vibratory orienteers for aluminium flip off seals.
- AC variable drive for the machine.
- Sealing height adjustable-Manual/Automatic.
- Sensor based rejection station.
- Torque measurement system for cap sealing.
- Available in oRABS, cRABS and Isolators.

## OPHTHALMIC LIQUID LINE WITH ISOLATOR



### Product Details

Handling Diameter	-	21 mm - 25 mm
Handling Height	-	42 mm - 47.5 mm
Filling Range	-	0.08 ml to 10 ml
Output	-	20 to 200 Bottles/Min

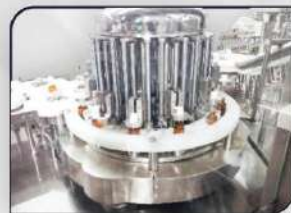
### Features

- A Monoblock Automatic Machine for Filling, Nozzle Placing & Capping
- Unscrambler for Feeding Bottles
- Interlock for Low Nitrogen Pressure
- Filling By Reciprocating Pumps
- Vibrator Hopper for Nozzle & Cap Feeding
- Nozzle Assembly & Cap Assembly By Pick & Place Machinery
- Torque Controlled Capping Unit
- Rejection System for Bottles
- oRABS /cRABS/Isolators
- PLC Controlled Operations SCADA

## NASAL SPRAY FILLING LINE

### Features

- Main Current Transfers The Vial Through Filling & Nebulizer
- Volumetric Filling Syringes
- Feeding Bowl & Chute Mechanism for Spray Heads
- Servo Based Fill Volume Control
- Statistical or 100% Check Weighing System
- CIP/SIP System for Filling Syringes
- Option for Filling by Peristaltic Pumps
- Rejection System
- SCADA System with 21 CFR Part 11 Compliance
- ORABS/CRABS/Isolators
- Butter Tank with Load



## CONTAINMENT SOLUTION

Snowbell provides & supports pharmaceutical containment process used for protection of product, Personal & environment for customized requirement up to OEB Level 5

### Application

- High Potent API Process
- Solid Oral Dosage Formulation
- Injectables
- Sterility Testing
- Customized Applications

### Api

- Rigid Wall Enclosure
- Negative Pressure Regime
- Static/Inflatable Gasket for Doors
- Material Transfer and Solid Waste Disposal
- Safe Change Filters
- Integrated Weighing Scale
- Provision for Monitoring Pressure, Temp, RH & Control
- 21 CFR Compliant PLC
- Material Transfer and Solid Waste Disposal
- Safe Change Filters



Sampling and Dispensing Isolator

### Solid Oral Dosage (Formulation Customized Process)

- Rigid Wall Enclosure
- Negative Pressure Regime
- Static/Inflatable Gasket
- Material Transfer and Solid Waste Disposal
- Liquid Waste Disposal
- Integrated Equipments
- Safe Change Filters
- 21 CFR Compliant PLC Control System with Audit Trail



Sifting & Blending Isolator

## CONTAINMENT SOLUTION

### Injectable ( Sterile Process)



### Compounding Isolator

- Rigid Wall Enclosure (SS 316/316L)
- Positive Pressure and Unidirectional Air Flow Regime
- Static/Inflatable Gasket
- Integrated with VHP System
- Material Transfer & Solid Waste Disposal
- Customized Integration with Any Process
- Liquid Transfer Port/Liquid Waste Disposal
- Dedicated AHU system with Safe Change Filters
- 21 CFR Compliant PLC Control System with Audit Trail Auto Leak Test

## CLEAN ROOM EQUIPMENTS

We manufacture to support aseptic condition of environment in pharmaceutical area. Provide full process solutions required to maintain product and personal safety in biotech, Life science and also in food processing and semiconductor industry.

### Pass Box

- Static Pass Box
- Dynamic Pass Box



### Laminar Flow

- Horizontal Laminar Flow
- Vertical Laminar Flow
- Ceiling Suspended
- Stand Mounted



### Shower

- Air Shower
- Mist Shower



### Sampling & Dispensing Booth

- De-Dusting Booth

## CONTAINMENT SOLUTION

### Mobile Trolley

- ▶ Horizontal Air Flow
- ▶ Vertical Air Flow

### Garment Storage Cabinet

- ▶ Horizontal Air Flow
- ▶ Vertical Air Flow



### Biosafety Cabinet

### Sterility Test Isolator



# Snowbell Machines

## Global Reach



## Follow Us



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