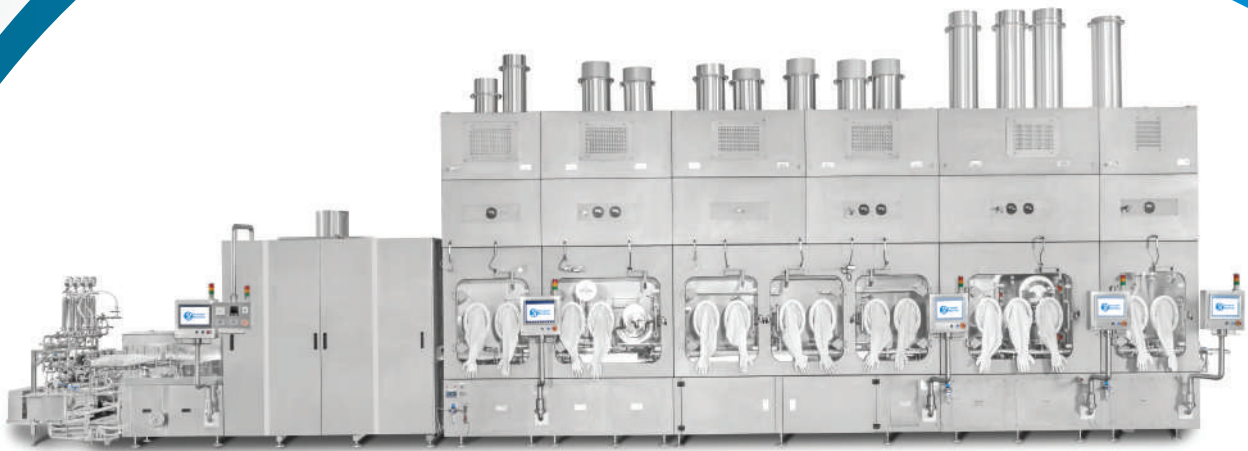




Snowbell Machines

Complete Solution For Your Pharma Needs



Manufacturing Processing Line For...



Vials



Ampoules



PFS



Eye/Ear
Drop



Nasal/Topical
Spray



Cartridges



Isolator



www.snowbellmachines.com

ABOUT US

Snowbell is diversified amalgamation of professionals having decades of industrial exposure in STERILE domain althroughout PAN INDIA and global market.

Snowbell machines is an innovative & technological driven process engineering co. in lifecare & lifesaving industrial domain, specifically in STERILE and POTENT therapeutic segment in multiple dosage forms VIZ, LVP & SVP in the area of general injectable comprises CHEPA-BETA, Cytotoxic, Harmones, Immunoglobulin, ASVS and high-end Biotechnological Infusions.

Besides the regular operations, Snowbell encourages customized and turkey solutions to the fraternity in the area of OSD, Injectables, Ophthalmic, APIs as well allied life saving industries with containment solutions.

Snowbell provides solutions rights from :

Infeed from decartoning with Inspection-Washing-Sterilizing & depyrogenating tunnel-filling machines-Auto Lyo-Loading Unloading System-Capping-External Washing-Inspection-Labeling with Integrated features of oRABS-CRABS-Isolators, Servo Control, Check Weighing, with production rate from 20 to 400 Containers/Min



Installations and Validations are the vital areas where Snowbell conform and strive to meet their machine standard considering International Regulations of current good manufacturing practices (cGMP), USFDA, MHRA, ANVISA, MCC, TGA, GOST, EU etc.

Our Turnkey project includes from concept to validation and handover

- Plant Desihn-Basic and Detailed Engineering
- HVAC
- Cleanroom
- Process Equipments
- Water : Purified Water, WFI grade water and loop piping
- Utility Equipments
- Sterile Process Vessels and Piping
- CIP/SIP skids
- Cleanroom Equipment-Dispensing and Sampling Booths. Pass Boxes-Static & Dynamic
- Building Management System

All our plant design and engineering meet the latest FDA and and Engineer standards VIZ. USFDA, EU,WHO, TGA, MCC, UKMHRA etc. and ASTM, ASME etc.

Snowbell employs highly skilled technocrats on turnkey project, resulting faster delivery and quality in documentation and in process.

PRODUCT LIST

- Vial Liquid Line.
- Vial Powder Line.
- Ampoule Liquid Line.
- Vial Liquid Powder Line.
- Bottle Filling Line (100ml to 500ml – LVP Line)
- Eyedrop Filling Line.
- Cartridge Filling Line
- PFS Filling & Stopping
- 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)

PRODUCT LIST

- Isolator for Capsule Filling Machine
- Isolator for Tablet Filling 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

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.



R&D Machines

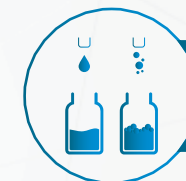
• Vial

• 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 & Stoppering Machine
- Cartridge Filling & Stoppering Machine



Vial Compact Line

• Vial-Liquid

• Vial Powder

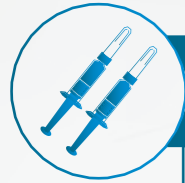
- Rotary Washing Machine
- Sterilizing & Depyrogenating Tunnel / Dry Heat Sterilizer
- Liquid, Powder-Rotary & Linear Type Filling Machine
- Lyo Intergration with Automatic Lyo Loading & Unloading System
- Liquid Filling with Syringes/Peristaltic Pumps/Time Pressure Filling
- Powder Filling with Microdosing 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 & Labelling Machines



Robofill

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



Combi Machines

- Triple Combi (Ampoule, Vial & PFS Compact Line)
- Ampoule & Vial Compact Line
- Vial & (Liquid & 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

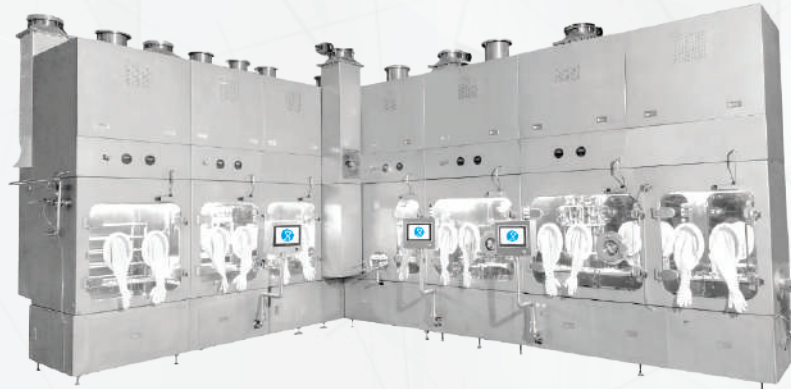
- Complex API
- Injectable
- Tablet/Capsule
- Sterility Test Isolator



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
- SCADA integration 21 CFR part 11 compliance

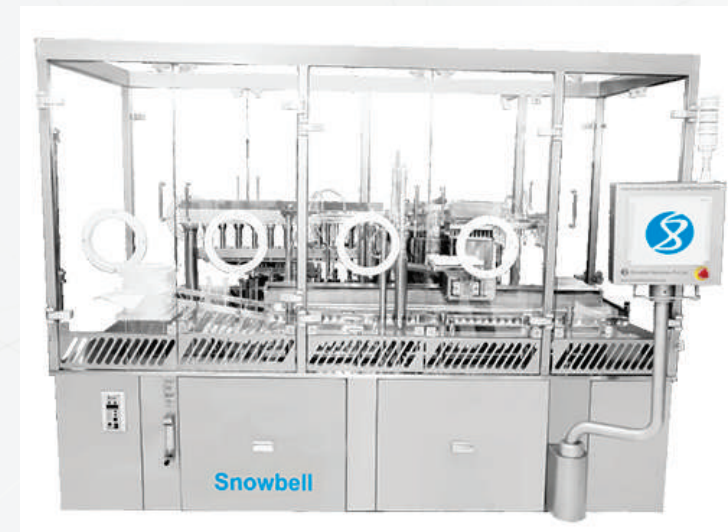
Product Details

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

PFS-200 WITH PLUNGER ROD INSERTION & LABELLING MACHIN

Features

- A Monoblock Machine to Perform Filling & Stoppering Functions
- Manual/Automatic Loading System for PFS Tube
- Volumetric Rotary Syringe or Peristaltic Pump or Time Pressure Filling System
- Pipe In Pipe/Vacuum Stoppering
- Pre-gassing & Post-gassing with Nitrogen



Features

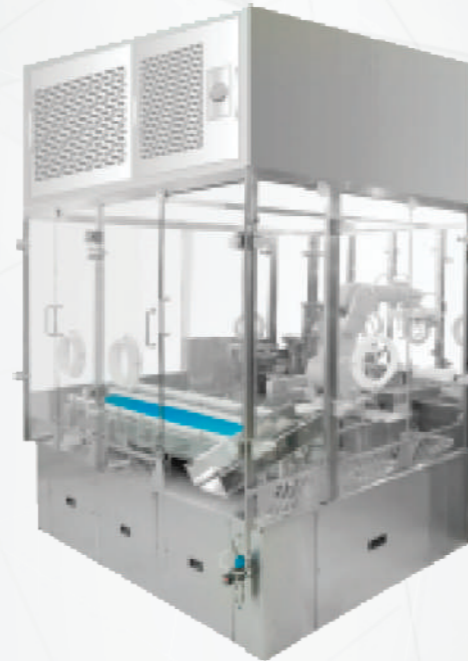
- Servo Drive for Label Dispensing
- Transfer Chute
- Batch Coding Printers
- Rejection of PFS Without Labels
- Safety Cabinet with Door Interlock
- Touch Screen with User Friendly HMI
- OCR/OCV of Label Printed Data



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



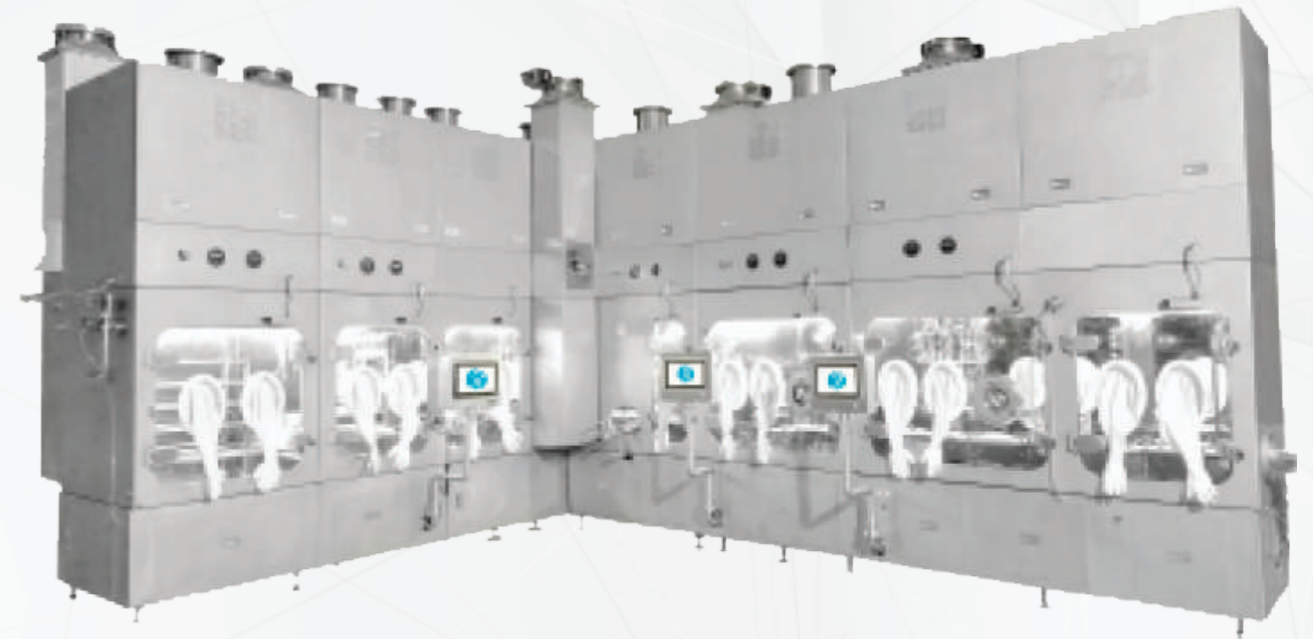
Operations by Robotic Arm

- 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 Fenesting Operation
- Handling Vial PFS and Cartridges



VIAL LIQUID LINE FOR ASEPTIC PROCESSING

Snowbell Machines Pvt. Ltd.



Salient Features of Isolator

- Vertical Positive Pressure Isolator for Aseptic Processing of OEB5 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

COMPACT LINE FOR VIALS LIQUID



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

COMPACT LINE FOR VIALS LIQUID



- Automatic Lyophilizer Loading & Unloading System with Isolator
- Vial Cap Sealing Machine Inside Isolator
- External Vial Washing Machine with Isolator

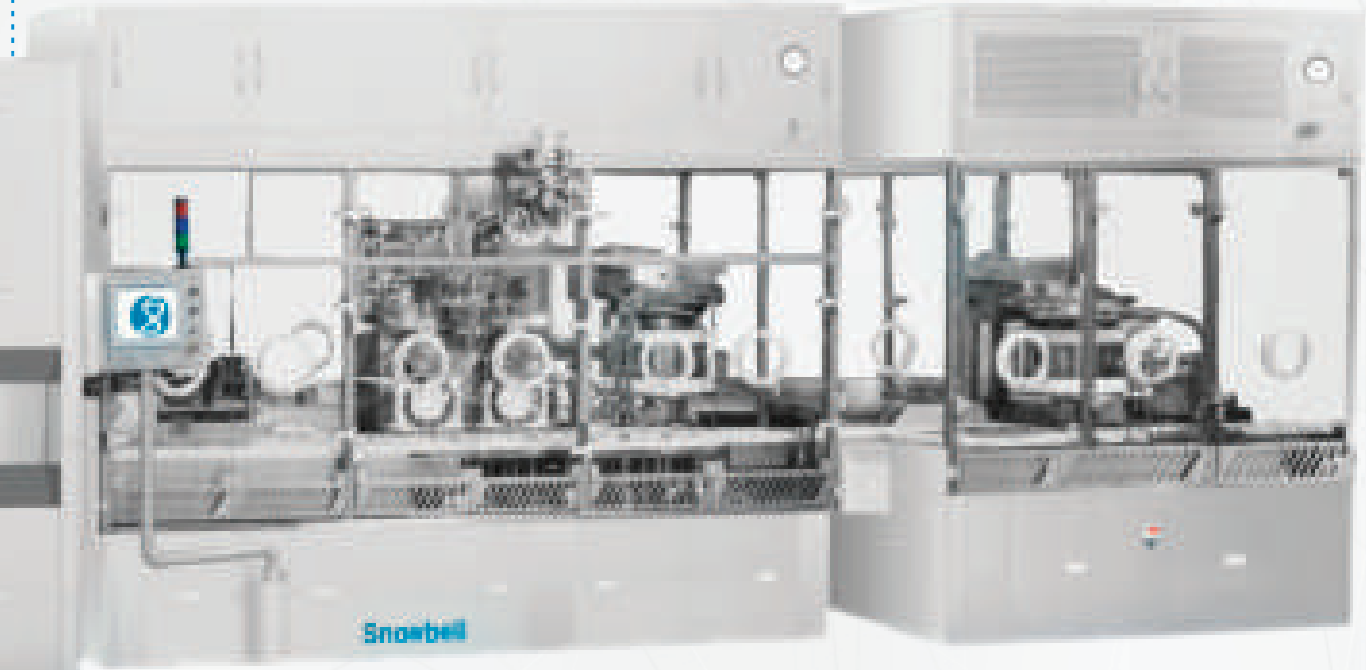
COMPACT LINE FOR VIALS POWDER



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
- Liquid Filling By Measures of Cams/Servo Motor
- Powder Filling Using Vacuum & Compressed Air Measure System Servo Based Indexing Movement of Dosing Disc

COMPACT LINE FOR VIALS POWDER



- 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

COMPACT LINE FOR AMPOULES

Snowbell Machines Pvt. Ltd.



Features

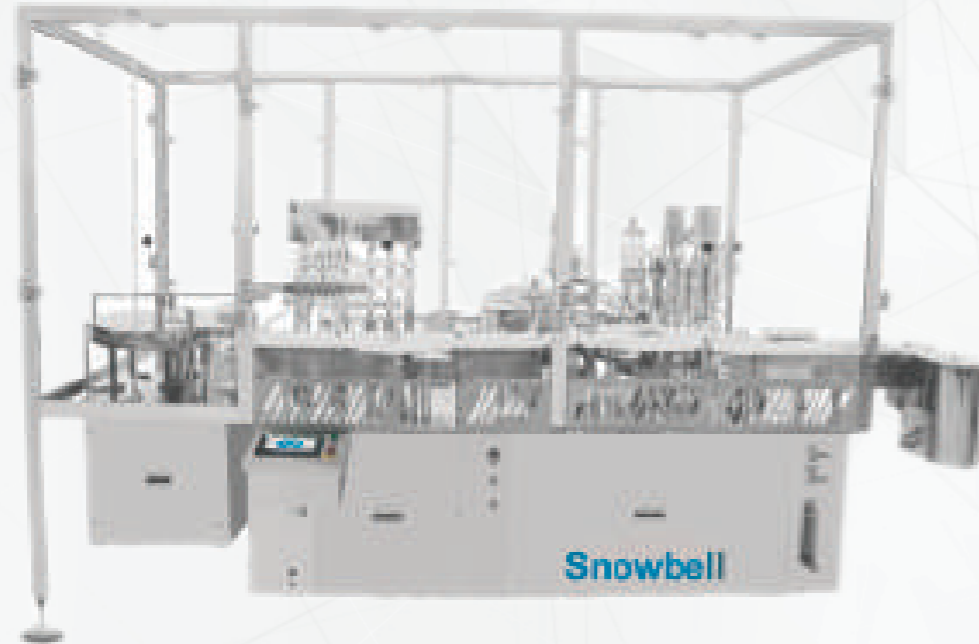
- Rotary Washing Machine
- Sterilizing & Depyrogenating Tunnel/Dry Heat Sterilizer
- Liquid Filling with Synges / Peristaltic Pumps / Time Pressure Filling Systems

COMPACT LINE FOR AMPOULES



- With oRABS/cRABS & Contamination Control Cabinet
- Output Range 25 to 400 Ampoules Per Min
- Fill Volume Range 0.25 ml to 20 ml

EYE/EAR DROP FILLING MACHINE



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 |

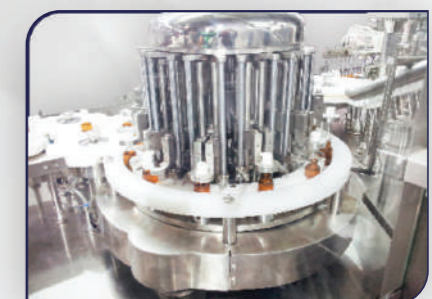
Features

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

EYE/EAR DROP FILLING MACHINE

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
- Buffer Tank with Load



OPHTHALMIC LIQUID LINE WITH ISOLATOR



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 Machinsm
- Torque Controlled Capping Unit
- Rejection System for Bottles
- oRABS /cRABS/Isolators
- PLC Controlled Operations SCADA

PFS-200 WITH PLUNGER ROD INSERTION & LABELLING MACHIN



Features

- Loading & Unloading of Filled & Partially Stoppered
- Online Continuous Operation
- Pushing Mechanism to Transfer Vials From Transfer Conveyor Into Lyophilizer
- Servo Controlled Operation
- The Pusher Mechanism is Moved to The Rear End of The Chamber for Unloading The Lyophilized Vials
- The Vials are Transferred from Each Shelf On to The Conveyor Through The Docking Plate
- Conveyor to transfer The Lyophilized Vials to The Cap Sealing Machine
- Guided Track to Move LYO Loader to and Fro From Lyo Station I to Lyo Station II
- Complete System Integration with ORABA CRABS or Isolator (Optional)

CONTAINMENT SOLUTION

Snowbell provides & supports pharmaceutical containment process used for protection of product, Personal & environment for customized requirement up to Oeb5

Application

- Hpapi 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

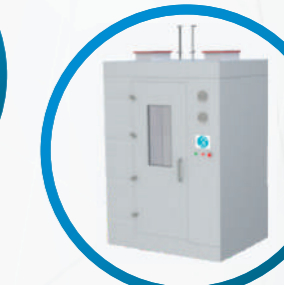
CONTAINMENT SOLUTION

Mobile Trolley

- Horizontal Air Flow
- Vertical Air Flow

Garment Storage Cabinet

- Horizontal Air Flow
- Vertical Air Flow



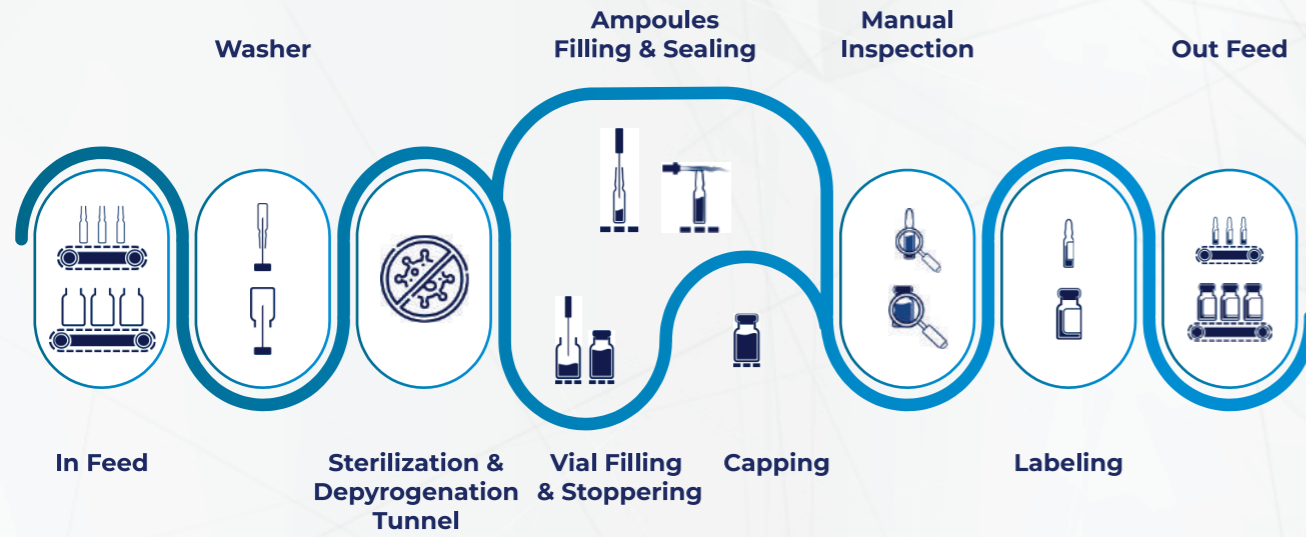
Biosafety Cabinet

Sterility Test Isolator



PROCESS FLOW FOR

COMBI VIAL LIQUID & AMPOULE

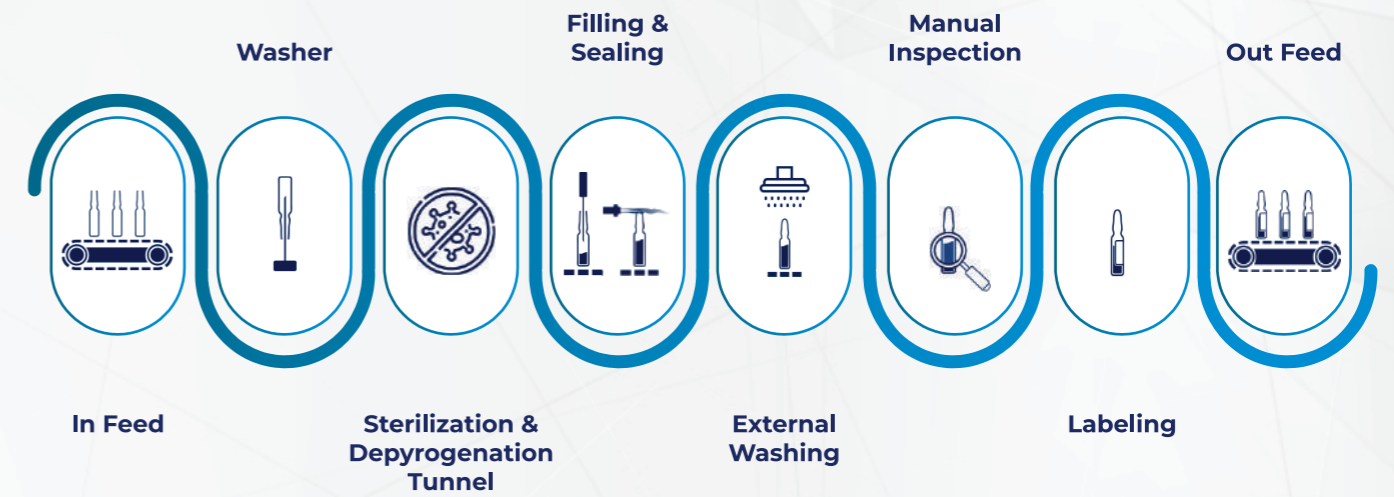


VIAL POWDER

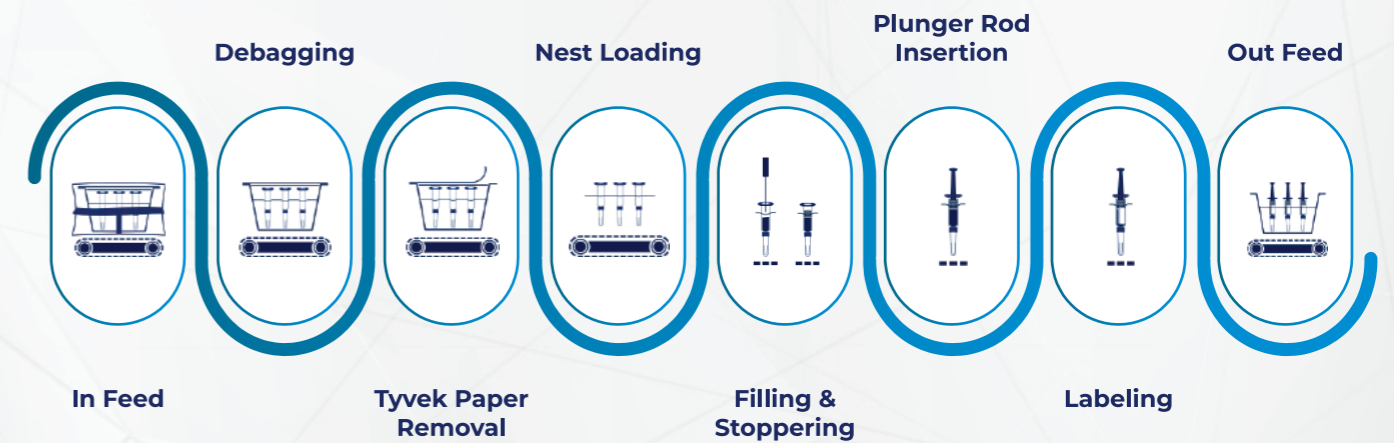


PROCESS FLOW FOR

AMPOULE



PRE-FILLED SYRINGES



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Global Reach



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