ANB
ABOVE & BEYOND

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Find us on:

THE SMART NEXT
EDGE PHARMACEUTICAL
PROCESSING &
PACKAGING SYSTEMS...

ANB
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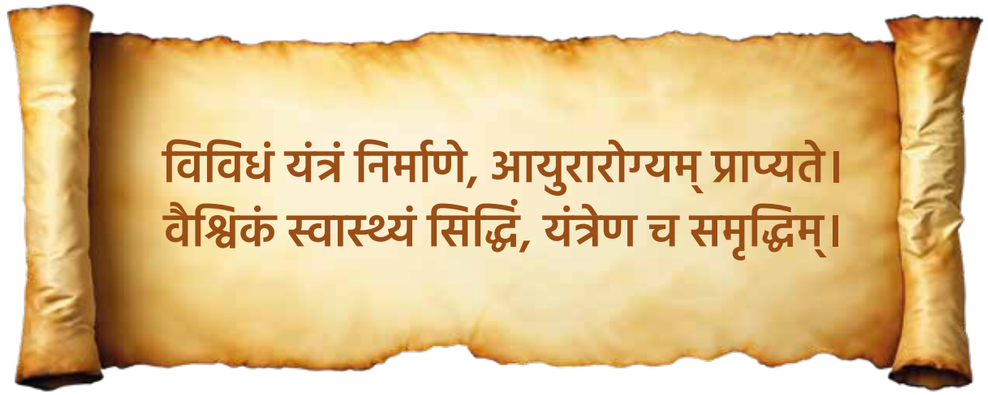


Vividhaṃ yantraṃ nirmāṇē, āyurārogyam prāpyatē.
Vaiśvikaṃ svāsthyaṃ siddhiṃ, yantrēṇa ca samṛddhim.

"Through the Manufacturing of diverse machines, health and longevity are achieved. Global health success and prosperity are attained through Machines manufactured Using advanced technology."

ABOUT US

ANB Pharma Machines LLP, (Above & Beyond) Proudly introduces itself as a leading provider of Next Edge liquid and injectable processing and packaging systems.

With its headquarters and manufacturing unit located in Ahmedabad, one of India's most preferred commercial hubs, ANB is committed to offer innovative processing and packaging systems for the benefit of health care segment.

ANB Pharma Machines LLP (Above & Beyond) is poised to deliver state-of-the-art packaging machine solutions that meet the highest standards of quality and efficiency in liquid and injectable pharmaceutical processing and packaging segment.

With over two decades of technical and professional expertise, ANB Pharma Machines LLP (Above & Beyond) aims to emerge as a game changer in the pharmaceutical packaging systems industry.
The company’s deep-rooted experience and innovative approach ensures enhancing healthcare through dependable and efficient pharma packaging solutions.

ANB Pharma is dedicated to offer next-edge liquid and injectable processing and packaging systems that ensure the highest levels of safety, precision, and reliability, ultimately contributing to the improvement of healthcare standards worldwide.

Bharat Mistry
Director

"At ANB Pharma Machines LLP, we believe that innovation begins with understanding. As the promoter of this company, my vision has always been rooted in identifying and addressing the unique challenges faced by pharmaceutical manufacturers.

The pharmaceutical industry demands precision, efficiency, and reliability. However, as someone deeply connected to this field, I have observed the pain points customers often face—be it operational inefficiencies, downtime, or lack of customized solutions. My mission is to bridge these gaps with cutting-edge technology, robust engineering, and unwavering support."

90810 88444

Our Approach

ANB(Above & Beyond) believes that the future of pharmaceutical processing & packaging lies in innovation and continuous improvement.ANB has a proactive approach to offer processing & packaging which are user freindly yet complient to all global regulatory requirements. ANB's fresh take on sterile processing & filling technology is powered by advanced engineering and in-depth expertise in aseptic fill-finish systems, ensuring that each system we manufacturer is at the forefront of technology and reliability.

Why Choose Us?

Choosing Above & Beyond means choosing a partner committed to excellence. Our systems are meticulously designed to minimize risk, maximize output, and streamline processes for our clients. Whether you're launching a new line or enhancing an existing one, our team collaborates closely with your experts to provide customized solutions that align perfectly with your unique needs.

INDEX

Injectable Processing Plants

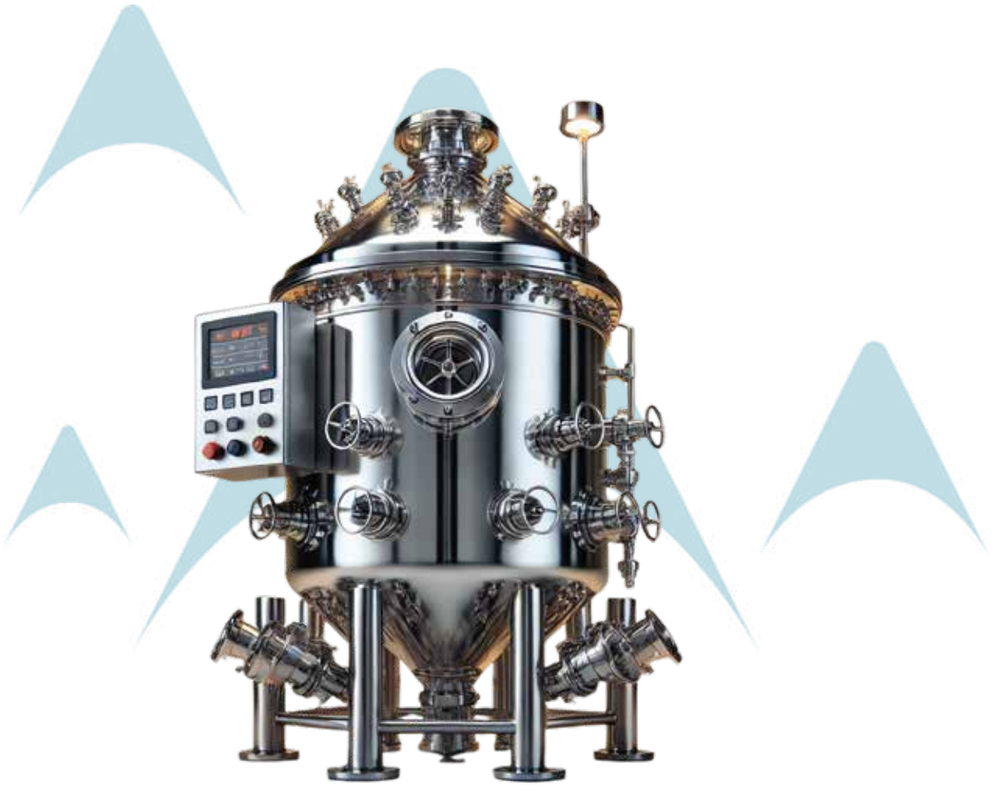
Injectable Processing Plant are meticulously designed to meet the stringent requirements of sterile injectable production. Built with advanced engineering and high-quality materials, these tanks ensure optimal performance, reliability, and compliance with global pharmaceutical standards.

Key Features:

- **Material of Construction:** High-grade **SS 316L** stainless steel for product contact surfaces, ensuring resistance to corrosion and contamination.
- **Finish:** Mirror-polished interior surfaces **(Ra ≤ 0.4 µm)** to minimize microbial adherence and ensure easy cleaning.
- **Capacity Range:** Available from **50L to 10,000L** to meet diverse production requirements.
- **Design Standards:** ASME, BPE, and cGMP-compliant designs for pharmaceutical-grade processing.
  Mixing Technology: Integrated magnetic stirrers or agitators for uniform product mixing.
- **Temperature Control:** Options for jacketed tanks with heating and cooling capabilities to maintain precise temperature conditions.
- **Sealing:** Fully sealed systems with mechanical seals or magnetic drives to maintain sterility.
- **Connectivity:** Tri-clamp connections for easy integration with CIP/SIP systems and other equipment.

Advanced Features:

- **Automation Options:** Equipped with **PLC-based** control systems for temperature, mixing speed, and process monitoring.
- **Sampling Ports:** **Hygienic sampling valves** for aseptic sampling during the process.
- **Pressure Handling:** Designed for **vacuum and pressurized** operations as required.
- **Inspection Ports:** Sight glass with **integrated LED lighting** for visual inspection.



Applications:

- Mixing and preparation of injectable solutions.
- Buffer and media preparation for biopharmaceuticals.
- Storage of sterile liquids.

Benefits:

- Ensures contamination-free processing with minimal manual intervention.
- Optimized for easy cleaning and sterilization (CIP/SIP compatible).
- Durable construction for long-term, reliable operation.
- Customizable configurations to suit specific process requirements.

Applications:

- Liquid oral formulations such as syrups and suspensions.
- Nutraceutical and dietary supplements.
- Cosmetic products like lotions and tonics

Benefits:

- High-quality engineering for long-term performance.
- Customizable designs to suit specific production needs.
- Comprehensive after-sales support and maintenance services.
- Commitment to delivering efficient, cost-effective, and reliable solutions.

Liquid Oral Processing Plants

ANB provides cutting-edge solutions for liquid processing in pharmaceutical and allied industries. Our liquid processing plants are engineered to deliver exceptional performance, precision, and compliance with international standards, ensuring seamless production of high-quality liquid formulations.

Features of Our Liquid Processing Plant:

- **Advanced Design for Versatility:**
  Ideal for the production of liquid syrups, suspensions, solutions, and oral formulations.
  Tailored solutions to meet varying batch sizes and production requirements.
- **High-Quality Materials:**
  Constructed with **SS 316L** stainless steel for all product contact parts, ensuring durability and hygiene.
  Polished interiors with an **Ra ≤ 0.4 µm** finish to prevent contamination and enable easy cleaning.
- **Precision Mixing and Homogenization:**
  High-shear mixers and agitators for uniform mixing and consistency.
  Suitable for handling both water-based and viscous formulations.
- **Temperature Control:**
  Double-jacketed tanks for precise heating and cooling during formulation processing.
  Integrated with **PT100 sensors** for real-time temperature monitoring.
- **Automation and Control:**
  PLC-based control system with an intuitive touch screen interface for monitoring and automation.
  Precise control of agitation speed, temperature, and process parameters.
- **CIP/SIP Systems:**
  Clean-in-Place (CIP) and **Sterilize-in-Place** (SIP) systems for hassle-free cleaning and sterilization.
  Ensures minimal downtime and operational efficiency.
- **Safety and Compliance:**
  Designed to meet **GMP, USFDA, and WHO** standards.
  Equipped with safety interlocks and alarms for process reliability.

Core Components:

- **Manufacturing Tank:** For mixing and homogenizing liquid formulations.
- **Storage Tank:** For holding finished products with precise temperature control.
- **Filtration Unit:** Ensures removal of impurities and particulate matter.
- **Transfer Pumps:** Hygienic and efficient product transfer to storage or filling lines.

Ointment / Cream / Lotion Processing Plants

ANB Provides state-of-the-art solutions for ointment and cream manufacturing, tailored to meet the precise needs of the pharmaceutical, cosmetic, and healthcare industries. Our ointment processing plants are designed with advanced technology to ensure seamless production, maintaining the highest standards of hygiene and efficiency.

Features of Our Ointment Processing Plant:

High-Performance Mixing Systems:

- Equipped with high-shear homogenizers and slow-speed anchor agitators for optimal mixing, emulsification, and consistency.
- Ensures uniform product quality and eliminates lumps.

Double-Jacketed Tanks:

- Designed for precise heating and cooling, allowing controlled processing temperatures for sensitive formulations.

Sterile and Hygienic Design:

- Manufactured with SS 316L stainless steel for all contact parts, with a polished surface finish to meet cGMP standards.
- Fully sealed systems to ensure contamination-free production.

Automation and Control:

- Integrated with a PLC-based control panel for easy monitoring and control of temperature, mixing speed, and process parameters.

CIP/SIP Compatibility:

- Clean-in-Place (CIP) and Sterilize-in-Place (SIP) systems ensure easy cleaning and sterilization, reducing downtime and maintaining hygiene.

Compact and Modular Design:

- Space-efficient layout to fit seamlessly into production facilities.
- Scalable capacity ranging from small-scale to large-scale manufacturing.

Key Components:

- **Manufacturing Vessel:** For heating, cooling, mixing, and homogenizing ointments and creams.
- **Wax and Water Phase Tanks:** For melting and pre-mixing raw materials.
- **Vacuum System:** Ensures bubble-free emulsions and smooth textures.
- **Transfer Pumps:** Hygienic transfer of products to storage or filling systems.
- **Storage and Transfer Tanks:** Maintain product integrity before packaging.

Applications:

- Pharmaceutical ointments and creams.
- Cosmetic creams, gels, and lotions.
- Ayurvedic and herbal formulations.

Benefits:

- Customized solutions to meet specific product requirements.
- Focus on operational efficiency and reduced production costs.
- Comprehensive after-sales support and maintenance services.
- Compliance with international quality standards, including GMP, USFDA, and WHO.

ADVANTAGE:

ANB is aware that at R & D there are scientist & lab technician not the machine experts & operators hence our system is users friendly even for the scientises & lab technicians.

- Filling spectrum 0.2ml to 10 ml
- Suitable for PFS pre crimped cartridge/vials
- Application filling & rubber stoppering
- Filling & closing station -1 no
- Vacuum based /PIPO rubber stoppering process
- Throughput 10-15 devices per min*
- Synchronized LAF can be offered
- Compact footprint can be set up in smaller R & d set ups
- Silent performing system

Filling Systems for R&D/ F&D for all Injectable Devices

(PFS/ CARTRIDGE/ VIAL/ AMPOULE)

STERIONE – R&D

Research and Development (R&D)/(F&D) plays a very pivotal role in the pharmaceutical industry, particularly for injectable products.

R & D/F & D felicitates development of various new drugs, drugs combination ,dose forms & drug delivery systems.

The unique filling & closing system by Above & beyond offers ease & convivence of using one system for all injectable devices like PFS/cartridge/vials up to exhibit batches.

The switchover from one device to other is minimal with changeable parts.

Filling & Closing Systems for R&D/F&D Applications: Tailored solutions for research and development, offering precision and flexibility for early-stage drug formulation.

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Basic Automated PFS Filling Systems

STERIONE-BASICS SERIES

Filling & Closing for PFS /cartridge device in aseptic environment (class 1) without ancillary automation like debagging /Tyvek lid & layer removal /de nesting & re nesting.

An unique filling system where the basic regulatory compliance related to filling & closing the PFS/cartridge has been ensured.

Related operations like debagging (class 3) Tyvek lid /layer removal/renesting & renesting is operator assisted through glove port.

- Filling spectrum 0.2ml to 10 ml
- Suitable for PFS/ pre crimped cartridge
- Application filling & rubber stoppering
- Filling & closing station -2/5/10 nos
- Vacuum based /PIPO rubber stoppering process
- Throughput 30-100 devices per min*
- Synchronized LAF can be offered
- Compact footprint for apt utilization of utilities.
- Silent performing system
- Suitable for nested syringes & nested cartridge with bagged rubber stoppers

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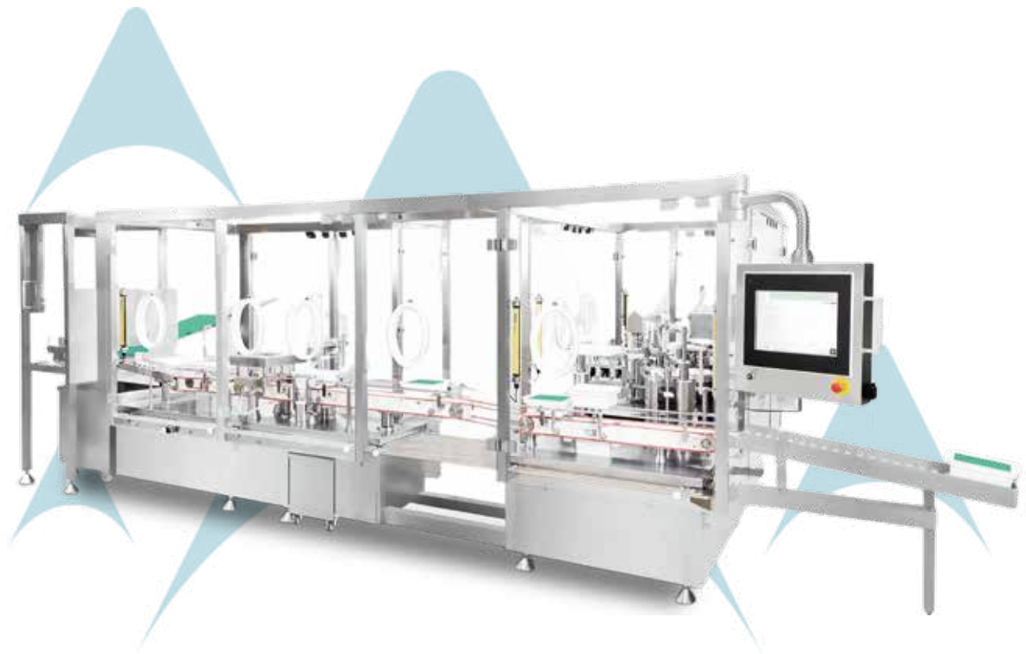
Advantages:

- Sterility and Contamination Control: ensures that during the key operations of filling & closing ,injectable formulations are sterile and free from contaminants.
- Regulatory Requirements: cGMP COMPLIANCE (ROW MARKET)
- Cost Efficiency:helps reduce system costs by optimizing on the basic automation in the filling process and improving the scalability of production.
- Synchronized LAF station with suitable glove ports & gloves*
- 2/5/10 stations system
- 30/50/100 devices per min on 1ml fill
- Accuracy 0.5%*
- Suitable for aqueous/oily/viscous filling substance*



Fully Automated PFS Filling Systems

(Auto De-bagging / Tyvek lid & layer removal/ De-nesting/ re-nesting) - RTF Devices

FILL FINISH PACKAGING SYSTEMS: PRE-FILL SYRINGE /CARTRIDGE

STERIONE RTU SERIES

Advanced Filling & Closing Systems

- **Automated Filling & Closing for ROW Market:** Equipped with a synchronized LAF (Laminar Air Flow) station, ideal for regional markets requiring semi-automated processes with controlled environments.
- **Automated Filling & Closing for EU/PICS Markets with O RABS:** Cost-effective automated systems that meet EU/PICS regulations, featuring open RABS (Restricted Access Barrier Systems) for improved containment.
- **Fully Automated Filling & Closing Systems:** High-end systems with automated debagging, Tyvek lid and sheet removal, ensuring maximum efficiency and minimum manual intervention.

Suitable for:

- **Aqueous, Semi-Viscous & Viscous Drugs:** Versatile system handling a range of drug viscosities, from liquids to thick formulations.
- **Filling Volume Spectrum:** Handles a wide range of volumes, from **0.1 ml to 20 ml,** catering to a variety of pharmaceutical applications.

Output: 50 - 150 syringes* per min. on **1ml** fill volume.
*depends on viscosity of drugs

Advantages:

- Minimal Oxygen Trapping: Unique technology to minimize oxygen exposure, preserving drug stability and effectiveness.
- Vent-In/Vent-Out Stoppering or Vacuum Stopping Option: Customizable stoppering solutions to reduce contamination risks and maintain product integrity.
- In-Process Weight Check (IPC): Provides real-time weight verification, available in partial or full checks, using advanced robotics for enhanced accuracy and process control.
- Designed to Meet International Regulatory Standards: Conforms to current international regulatory guidelines, ensuring compliance and quality for global markets.
- 21 CFR/SCADA compliance

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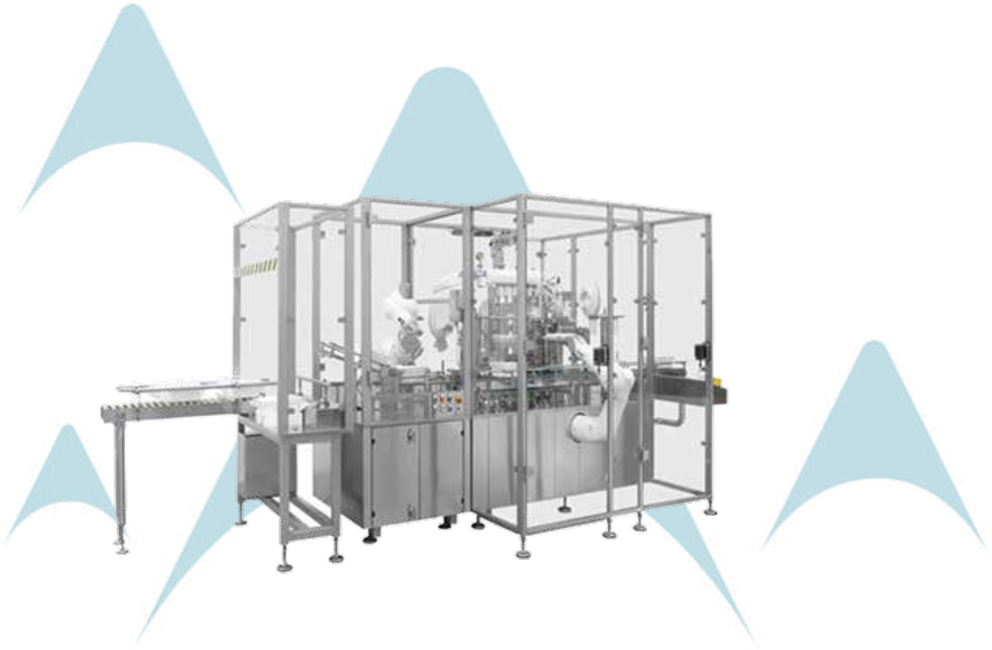
Robotized PFS/ Cartridge Filling Systems with IPC

STERIONE-ROFI SERIES

Robotic pre-fill syringe filling machines offer numerous advantages, including enhanced precision, efficiency, flexibility, and compliance. By automating critical processes, this system ensures high product quality while reducing human error and contamination risks. They also improve operational efficiency, help manufacturers meet regulatory standards, and reduce overall production costs, making them an essential technology biotech & oncology products packaging.



Key features - Robotized PFS/ Cartridge Filling System with IPC

- **Robotic Arm Integration:**
  The core of the machine is a clean room robots that performs all key key tasks.Automation and precision reduce human error, increase speed, and provide consistent, reproducible processes across production runs.

- **Aseptic Filling and Handling:**
  The system operates in a sterile or controlled environment (C RABS/ISOLATORS) with the use of cleanroom standards, maintaining aseptic conditions during the filling process.

  Prevents contamination and ensures sterility, which is crucial for injectable formulations, safeguarding patient safety and product integrity.

- **In-Line weighing Systems:**
  The machine integrates sophisticated load cell systems to weigh the gross & tare weight of the syringe & reject the faulty syringes

End-to-End Automation:

- The system provides an end-to-end automated process, including debagging, Tyvek lid & layer removal, de nesting filling, stopper insertion, re nesting

- Minimizes manual intervention, streamlines operations, reduces labour costs, and ensures that the entire process adheres to cGMP (current Good Manufacturing Practices

Suitable for:

- **Aqueous, Semi-Viscous & Viscous Drugs:** Versatile system handling a range of drug viscosities, from liquids to thick formulations.

- **Filling Volume Spectrum:** Handles a wide range of volumes, from **0.1 ml to 20 ml,** catering to a variety of pharmaceutical applications.

  Output: **50 - 150 syringes*** per min. on **1ml** fill volume.
  *depends on viscosity of drugs

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Advanced Data Logging and Traceability:

- This system is equipped with data logging capabilities that document every stage of the filling process, from syringe loading to filling and inspection.

- Provides full traceability, which is crucial for regulatory compliance, ensuring that manufacturers can track every batch and process step for quality assurance and audit purposes.

- **Smart Controls and User Interface :through Industrial PC**

  Robotic systems typically come with an intuitive touchscreen interface and advanced control systems that allow operators to adjust settings, monitor performance, and troubleshoot.

SYSTEM OFFERS:

- Automatic De-nesting of PFS from tub/tray.
- Automatic plunger rod insertion.
- Automatic plunger rod fitting/ Screwing.
- Automatic PFS labeling along with batch overprinting and verification.
- Rated through put up to 120 syringes per minute

Rotary Plunger Rod Insertion & Labeling Machine for PFS

SERVO DRIVEN ROTARY PLUNGER ROD INSERTION & LABELLING MACHINE FOR PRE-FILLED SYRINGES

STERIONE-ROLA SERIES

- **Improved Efficiency and Speed**
  The machine automates the process of inserting the plunger rod into pre-filled syringes and applying labels, significantly reducing the time required for manual operations.

- **Consistent Quality and Precision**
  Automated systems ensure that the plunger rods are inserted consistently and precisely, reducing human error and variation.

  The labelling process is accurate, minimizing mistakes in labelling (e.g., misplacement or incorrect information), which is critical for regulatory compliance.

- **Cost Reduction**
  By reducing the need for manual labour, companies can save on labour costs.

  Automation also minimizes waste caused by incorrect plunger rod insertions or labelling errors, further contributing to cost savings.

- **Enhanced Safety and Compliance**
  These machines are designed to operate within the safety guidelines of pharmaceutical production, reducing the risks associated with manual handling of syringes and components.

- **Increased Production Capacity**
  These machines are capable of handling large batches of pre-filled syringes in a shorter time compared to manual processes, thereby increasing production capacity.

- **Versatility**
  System is designed to handle different syringe sizes and types with minimal change part support

- **Improved Traceability**
  The labeling machine may based on need includes features like barcode printing or serial number generation, enhancing the traceability of each syringe.

- **Enhanced Aesthetic Appeal**
  Automated labelling ensures that labels are applied smoothly and uniformly, resulting in a more professional and aesthetically pleasing appearance of the final product.

- **Integration with Other Systems**
  Plunger rod insertion and labelling machines can often be integrated into larger production lines, including filling, capping, and packaging systems, creating a streamlined and fully automated production process.

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Both Ends Open Cartridge Filling Systems

STERIONE-CART 40/100 SERIES

CARTRIDGE PACKAGING SYSTEM

STERIONE CART: MINI/ADVANCE 40/100:

An advanced and efficient packaging system designed for the filling and sealing of end-open pre-sterile cartridges, with key capabilities including rubber stoppering, filling with glass bead insertion, and sealing. The system is divided into three main stations and is designed to be highly precise and reliable for pharmaceutical and other sterile liquid applications

Key Features and Advantages:

- **Output:**
  The system is designed to handle 40/100cartridges per minute, with cartridges of size 1.8ml.

- **Infeed System:**
  The machine uses an SS304 infeed slant tray with a feed worm, which transports the cartridges onto a wire mesh conveyor for smooth operation and consistent feeding.

- **Compatibility:**
  The machine is suitable for 1.8ml /3ml cartridges with change parts support

- **Filling Mechanism:**
  Two-head /five -head servo-based filling mechanism is used for 90% of the filling with precise rotary seamless SS316L syringes.

  The remaining 10% of the filling is handled by an individual servo motor-based mechanism, using high-precision syringes.

- **Rubber Stoppering & Sealing:**
  Precise inner rubber bunging is done using a pneumatic or servo-based system, ensuring proper closure and containment.

  Outer cap placement & sealing is handled by a servo-based system, ensuring accurate placement and leak-proof seal

- **Dosing Station:**
  Features servo-driven dosing pumps for accurate liquid dispensing.

  The needle movement is synchronized with the transport system, and a "No Cartridge No Fill" feature ensures no product is dispensed without a cartridge.

- **Gas Flushing Station (Optional):**
  Gas flushing before filling: This system is equipped with a flow meter, needle holder, and specific needles to flush gas into the cartridges before filling, helping to maintain product integrity.

  Gas flushing after filling: Similarly, gas is flushed after filling to prevent contamination and maintain the sterility of the product.

- **Sealing Station:**
  This station uses rotating cartridge base rests, cap sealing rollers, and seal holding turrets to ensure leak-proof sealing.

  Vibratory orienteers are used to position aluminium seals.

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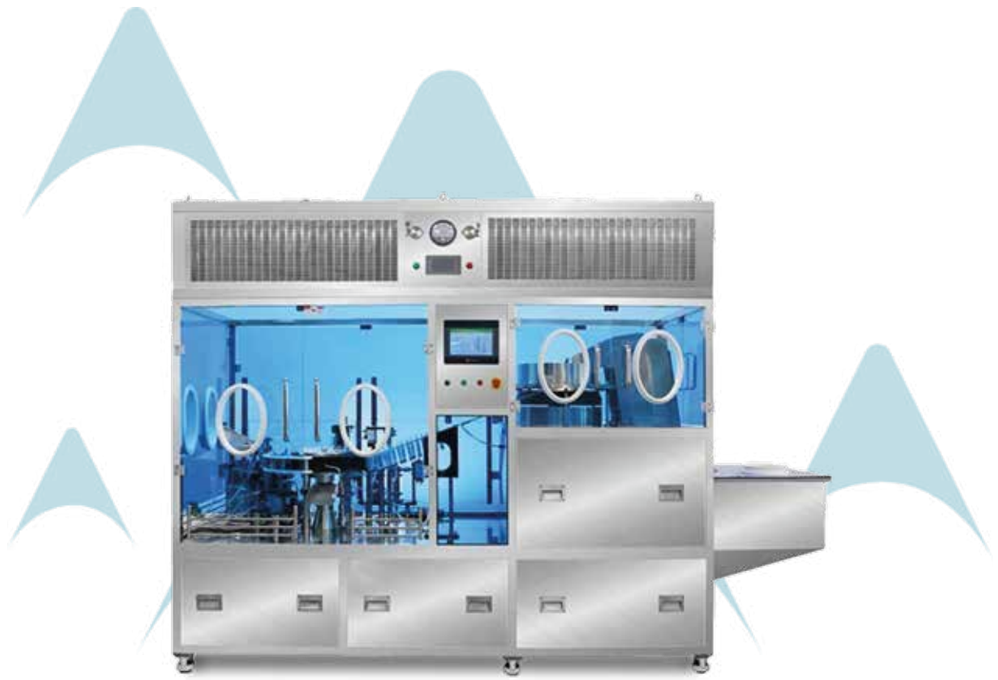
Key Benefits:

- **High Precision:** The machine provides highly accurate filling, stoppering, and sealing processes, ensuring leak-proof and contamination-free cartridges.
- **Automation & Efficiency:** With advanced servo-driven systems and an integrated transport mechanism, the system achieves high throughput of 40/100 cartridges per minute, significantly improving production efficiency.
- **Flexibility:** The system supports cartridges ranging from 1.8ml and can accommodate sizes between 0.1ml and 3ml with the appropriate change parts.
- **Clean & Safe Operations:** The optional gas flushing stations and precise rubber bunging and sealing ensure the cartridges remain sterile and sealed, ideal for pharmaceutical and medical products.
- **Ease of Use & Maintenance:** The PLC control panel and touch screen make it easy to operate and adjust machine settings, while the change parts design ensures simple maintenance and size changes.



Key Benefits of the STERIONE FLS Series Machine:

- **High Precision:** The system ensures accurate filling, capping, stoppering, and labelling, which is essential for maintaining product integrity, especially in pharmaceutical applications.
- **Automation:** The machine offers a high level of automation for all stages of the process, reducing labour costs and improving efficiency.
- **Sterility Assurance:** With ionized washing and precision sealing systems, the machine ensures that the syringes remain sterile throughout the packaging process.
- **Compliance and Traceability:** Integrated labeling with printing, scanning, and rejection capabilities ensures compliance with industry standards and regulations, as well as providing traceability for each product.
- **Fault Detection:** The visual inspection system ensures that only high-quality, defect-free syringes make it through the packaging line.

Flush Syringe Tip Filling & Luer Cap sealing Machines

STERIONE – FLS 100 SERIES

A specialized system designed for the filling and sealing of pre-engaged/ Four parts syringes with luer tip caps, offering comprehensive solutions for syringe packaging. Below is an overview of its components and features:

- **Filling & Sealing System**

  The machine is designed to perform the filling and sealing of pre-engaged syringes equipped with luer tip caps.

  It includes an integrated filling system that precisely fills the syringes with the desired product, followed by an automatic luer cap placement and sealing system.

  Four part syringe packaging system can be offered (barral/ Rubber stopper/ tip cap/ Plunger Rod)

- **Composite Packaging Line Features**

  Ionized Washing System: This system uses ionized air or wash solutions to ensure the syringes are thoroughly cleaned before the filling and sealing processes. It helps maintain sterility and removes any potential contaminants or particles from the syringe surface.

  Luer Cap Placement: A fully automated system places the luer tip cap onto the syringe, ensuring precise alignment and secure sealing.

  Rubber Stoppering: The rubber stopper is placed and sealed within the syringe, creating a reliable barrier for the product inside. This is achieved using a pneumatic or servo-driven system to ensure accurate positioning.

- **Offline Labelling Machine with Print Facility**

  The offline labelling machine applies labels to syringes or their packaging after the filling and sealing processes.

- **Online Labelling Machine with Print, Scan, & Reject Facility**

  This online labelling machine is designed for integration with the filling and sealing process, enabling real-time labelling of syringes or their packaging.

- **Visual Inspection System for Faulty Syringes**

  The machine is equipped with a visual inspection system that checks each syringe for faults or defects, such as leaks, cracks, or misalignments.

  This system uses high-resolution cameras or sensors to detect any deviations from the expected product quality.

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Nasal Spray/ Eye- Ear Drop Filling Lines

STERIONE – NOSY 100 SERIES

ANB Provides state-of-the-art Nasal Spray Filling Lines designed to meet the rigorous demands of pharmaceutical manufacturing. Our solutions ensure precision, sterility, and compliance with global standards like cGMP, USFDA, and WHO for safe and efficient nasal spray production.

Key Features and Advantages:

- **Accurate Filling Technology:**
  Peristaltic or piston-based filling systems for high-precision dosing.

  Suitable for a wide range of fill volumes, from 0.5 ml to 100 ml.
  Anti-drip filling nozzles for clean and consistent operation.

- **Integrated Line Components:**
  Bottle Unscrambler: Automatic feeding and alignment of spray bottles.

  Filling Unit: High-speed filling with multiple heads for increased efficiency.

  Pump Placement Unit: Automated placement of nasal spray pumps for secure sealing.

  Capping and Crimping Station: Ensures proper sealing for tamper-proof and leak-proof bottles.

  Labeling Machine: High-speed application of labels with position accuracy and serialization options.

- **Sterile and Hygienic Design:**
  Fully enclosed filling area with laminar airflow or isolator for contamination-free operations.

  All product contact parts are made from SS 316L stainless steel for sterility and durability.

- **Automation and Control:**
  PLC-based control system with an intuitive touchscreen HMI.

  Sensors to ensure bottle presence, pump placement, and synchronization.

  Fault detection and rejection systems for improperly filled or capped bottles.

- **Compact and Flexible Layo**ut:
  Adaptable to handle a variety of bottle and pump sizes.

  Scalable configurations for small-scale to high-volume production.

- **High-Speed Performance:**
  Output capacity of up to 200 bottles per minute, depending on bottle size and fill volume.

Safety and Compliance:

Designed in accordance with cGMP, WHO, and USFDA standards.

Safety interlocks to protect operators and products.

Minimal human intervention to reduce contamination risks.

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Technical Specifications:

- **Filling Accuracy:** ±0.5%.
- **Electrical Supply**: 220V/380V, 50/60 Hz.
- **Compressed Air:** 6 bar clean air supply.
- **Material of Construction:** SS 316L for contact parts and SS 304 for non-contact structural parts.

Optional Features:

- Integration with inline sterilization and filtration systems.
- Batch coding and serialization for regulatory compliance.
- Automatic tray loading and unloading for streamlined operations.

Why Choose STERIONE Nasal Spray Filling Line?

- Advanced automation and precision engineering.
- Customizable solutions for diverse production requirements.
- Comprehensive after-sales support, including training and maintenance.

Technical Specifications:

- Filling Accuracy: ±0.5%.
- Electrical Supply: 220V/380V, 50/60 Hz.
- Compressed Air: 6 bar clean air supply.
- Material of Construction: SS 316L for product contact parts and SS 304 for structural components.

Why Choose Our Injectable Liquid Filling Line?

- Precision engineering for sterile and high-volume production.
- Customizable solutions tailored to specific production needs.
- Reliable after-sales support, including maintenance and training.

Optional Features:

- Integration with lyophilizers for freeze-drying applications.
- Online labeling and serialization for track-and-trace compliance.
- Automatic tray loading systems for post-filling operations.

Liquid Injectable/ Dry Powder Injectable Vial Packaging Systems

STERIONE – VIAL SERIES

- **High-Precision Filling:**
  Advanced filling systems (peristaltic or piston-based) for accurate dosing For liquid injectable.
  servo driven wheel based filling system for drypower injectables.
  Suitable for small and large fill volumes, ranging from 0.5 ml to 100 ml for liquid injectable.
  Suitable for 40 mg - 1500 mg for dry powder injectable
  No-drip filling nozzles to maintain sterility and prevent contamination.

- **Integrated Line Components:**
  Vial Washing Machine: Ensures thorough cleaning of vials before filling.
  Filling and Stoppering Unit: Precise filling and automated placement of rubber stoppers.
  Capping Machine: Secure and accurate sealing of vials with aluminum caps.
  Inspection System: Automatic rejection of improperly filled or sealed vials.

- **Aseptic Design:**
  Isolator and laminar flow integration for sterile environments.
  Fully sealed system to eliminate contamination risks.

"STERIONE: PRECISION, CONVENIENCE, AND EFFICIENCY IN EACH DOSE, EVERY TIME."

- **Automation and Control:**
  PLC-based control system with HMI for real-time monitoring.
  Integrated sensors for vial presence, cap placement, and process synchronization.

- **Flexible and Scalable:**
  Handles a wide range of vial sizes (2 ml to 100 ml).
  Modular design for easy upgrades and integration with existing lines.

- **High-Speed Performance:**
  Production capacity of up to 400 vials per minute, depending on vial size and volume.

Safety and Compliance

- All contact parts are made from SS 316L for sterility and durability.
  Compliance with cGMP, USFDA, and ISO standards.
- Safety interlocks and alarms for fault detection and operator protection.

Liquid Syrup/ Dry Syrup Filling Lines

our Liquid Oral Filling Line is designed to provide precision, efficiency, and compliance with global pharmaceutical standards. This fully automated solution caters to liquid oral formulations, ensuring high-quality production with minimal manual intervention.

Key Features:

- **Versatile Filling Options**
  Suitable for bottles of various shapes and sizes.
  Adjustable filling volumes ranging from 10 ml to 1000 ml.

- **High-Precision Filling System:**
  Equipped with servo-driven piston fillers or peristaltic pumps for precise liquid dosing.

  Anti-drip nozzles to prevent spillage and maintain cleanliness.

- **Integrated Line Components:**
  Bottle Unscrambler: Aligns bottles automatically onto the conveyor.

  Filling Station: Accurate liquid dosing with multiple filling heads for high throughput.

- **Automation and Control:**
  Fully automated operation with a PLC-based control system.

  Touchscreen HMI for easy monitoring and parameter adjustment.

- **Hygienic and GMP-Compliant Design:**
  Constructed with SS 316L for all contact parts to maintain hygiene.

- **Safety and Reliability:**
  Safety interlocks to prevent operation in case of bottle misalignment or cap absence.

  Overload protection and fault detection systems to ensure uninterrupted performance.

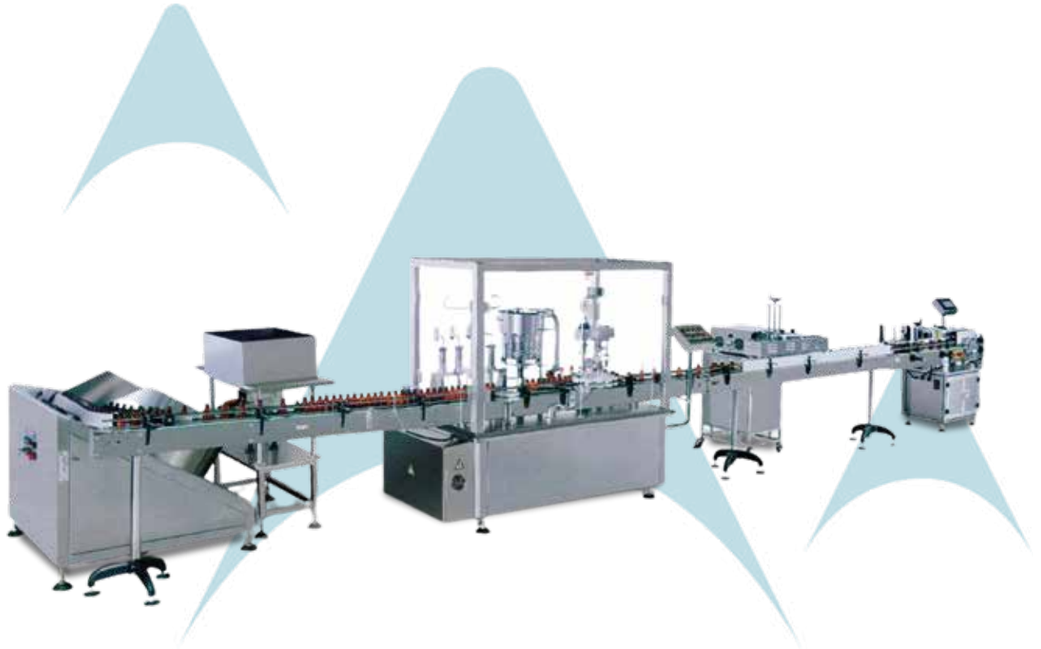
Technical Specifications:

Production Capacity: Up to 120 bottles per minute, depending on bottle size and fill volume.

Filling Accuracy: ±0.5% (depending on product viscosity).

Power Supply: 220/380V, 50/60 Hz.

Air Requirement: 6 bar clean compressed air.



Applications:

- Liquid syrups and suspensions.
- Nutraceutical products and dietary supplements.
- Ayurvedic and herbal tonics.

Why Choose Our Liquid Oral Filling Line?

- Tailor-made solutions to meet specific production needs.
- High efficiency and reduced downtime with advanced automation.
- Reliable after-sales support and training.
- Designed for cost-effectiveness and long-term performance.

ANB Pharma Machinery and Consultant

ANB Pharma Machinery and Consultant, a specialized unit of ANB Pharma Machines LLP, is a leading provider of turnkey solutions tailored for the pharmaceutical industry. With a proven track record, we deliver end-to-end services to set up pharmaceutical manufacturing facilities that meet global regulatory standards such as GMP, WHO, USFDA, and EU Guidelines.

- **Facility Planning & Design**
  Custom facility layout and workflow optimization.
  Focus on cGMP-compliant designs for enhanced efficiency.
  Utility planning for seamless integration of machinery and infrastructure.

- **Equipment Selection & Supply**
  Supply of state-of-the-art pharmaceutical machinery for:
  Injectable products
  Liquid oral products
  Dry powder injectables
  Ampoule filling
  Nasal sprays and eye-ear drops
  Machines are designed for high performance, reliability, and scalability.

- **Installation & Commissioning**
  On-site installation of equipment and infrastructure.
  Calibration and validation services to ensure regulatory compliance.
  Execution of Factory Acceptance Tests (FAT) and Site Acceptance Tests (SAT).

- **Project Management**
  Single-point accountability for the entire project lifecycle.
  Coordination with contractors, vendors, and engineers.
  Strict adherence to project timelines and budgets.

- **Training & Documentation**
  Operator and maintenance training to ensure efficient machine operation.
  Comprehensive user manuals and technical documentation.

Industries We Serve

Our turnkey solutions cater to a range of pharmaceutical manufacturing needs:

- **Injectable drugs (Liquid & Powder)**
- **Syrups (Liquid Oral)**
- **Nasal Sprays, Eye & Ear Drops**
- **Ampoules and Vials**

Why Choose Us?

Expertise in Turnkey Execution: From design to commissioning, we handle every aspect with precision and professionalism.

Cutting-edge Technology: Access to the latest pharmaceutical machinery.

Regulatory Compliance: All solutions align with international standards.

Cost-Effective Solutions: Optimized for efficiency without compromising quality.

After-Sales Support: Dedicated technical team for ongoing maintenance and troubleshooting.

ANB Pharma Machinery and Consultant

Online Conveying System with Robotic Arms for Secondary Packaging

The Online Conveying System with Robotic Arms is a state-of-the-art solution designed for high-speed and precision-driven secondary packaging in the pharmaceutical industry. It integrates advanced robotics with an efficient conveying mechanism to handle complex packaging tasks, ensuring seamless operation, precision, and compliance with cGMP and international standards.

Key Features:

- **Integrated Robotic Arms:**
  High-speed robotic arms for product picking, placing, stacking, and sorting.
  Equipped with vision systems for accurate product placement and orientation.
  Fully programmable for handling various packaging formats (cartons, trays, bundles).

- **Advanced Conveyor System:**
  Modular belt conveyors with synchronized movement for smooth product flow.
  Adjustable speed and width to accommodate different product sizes.

- **Automation and Intelligence:**
  PLC and HMI-based control for easy operation and monitoring.
  Real-time product tracking with integrated sensors and barcode readers.
  AI-powered robotic motion control for adaptive placement and handling.

- **Precision and Quality Control:**
  Vision-guided robotics for defect detection and rejection of non-compliant products. Accurate placement ensures zero product damage during handling.

- **Technical Specifications:**
  Construction Material: SS 304 / SS 316 (pharma grade)
  Belt Material: Food-grade PU / PVC / Modular belts
  Conveyor Width: 100 mm – 600 mm (customizable)
  Conveyor Length : As per client requirement (modular design)
  Robotic Arm Type: SCARA / Delta / Articulated Arms
  Payload Capacity: Up to 10 kg (customizable for product type)
  Placement Accuracy: ±0.1 mm
  Speed: 50 – 120 cycles/min per robotic arm
  Power Supply: 220V/380V, 50/60 Hz, Single/Three Phase
  Control System: PLC with HMI touchscreen interface
  Sensors Vision systems, photoelectric, barcode scanners
  Noise Level: ≤70 dB
  Compliance: cGMP, FDA, CE

- **Applications:**
  Product Loading: Picking and placing bottles, blisters, ampoules, and vials into cartons or trays.
  Sorting and Orientation: Precise alignment of products for downstream packaging processes.
  Batch Coding: Integration of printing and verification systems for batch details.
  Quality Control: Automated rejection of defective products.

  Optional Add-Ons:
  Collaborative robots (Cobots) for safe human-machine interaction.
  Advanced AI for predictive maintenance and performance optimization.

Trust ANB (Above & Beyond)

Purpose

ANB stands as a trusted partner, dedicated to delivering reliable and secure services. With a strong focus on transparency, quality, and client satisfaction, we ensure that every interaction builds trust and credibility.

Scope

Our services span multiple industries, offering tailored solutions to meet diverse client needs. From technology to logistics and finance, we provide adaptive and innovative approaches to solve real-world challenges.

Procedures

We follow stringent quality control measures and conduct regular audits to uphold global standards. With clear communication protocols in place, we ensure seamless collaboration at every step, providing a hassle-free experience.

Responsibilities

At ANB, client confidentiality and data security are at the core of our operations. We are committed to delivering results on time, with precision and professionalism, supported by expert guidance and ongoing support.

References

Our track record speaks for itself. With glowing testimonials, successful project case studies, and collaborations with industry leaders, ANB is consistently recognized for its excellence and holds certifications that further validate our expertise.

OUR STRATEGIC PARTNERS*

MITSUBISHI ELECTRIC — Changes for the Better
AUTOMATIONS & ROBOTICS

Bonfiglioli — power, control and green solutions
GEAR BOX & ANCELLERIES

CG Power and Industrial Solutions Ltd.
ELECTRIC MOTORS & ANCILLARIES

HIWIN
BALL SCREW & ANNCELLERIES

SKF
BEARINGS & ANCILLARIES

RR KĀBEL
ELECTRIC WIRES

SICK — Sensor Intelligence.
SENSORS

FESTO
PNEUMATICS

JSL — JINDAL STAINLESS
STAINLESS STEEL

COGNEX
THE SMART VISION SYSTEMS

noxVIEW
THE SMART SCADA APPLICATION SYSTEMS

Next Level Ideas
INTEGRATED CAMPAIGN

*PARTNERS FOR OUTSOURCED COMPONENTS

*-All images shown are for reference only.-