



# PHARMAPACK

SMART FACTORY  
TOMORROW MANUFACTURING

## FLEXIBLE PACKAGING SERIES

Pharmapack Technologies Corporation



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# ABOUT US



Lean Manufacturing



Digitalization



Automation

500+ Patents

3 Brands



## 2001

Company  
Establishment

Founded in 2001, Pharmapack has evolved into a leading provider of modern intelligent packaging equipment and solutions. Built on over 20 years of close collaboration with our partners, we have established ourselves as a well-recognized name in China's packaging equipment industry with over 500 patents and software copyrights. Our core products include smart bottle packaging lines, smart inspection packaging lines, smart flexible packing lines, smart secondary packaging lines, track and trace systems, and a wide range of supporting machines.

Pharmapack specializes in providing intelligent, automated, and integrated packaging line solutions for global pharmaceutical, health products, daily use chemicals, food, and other industries. We aim to build digital cloud platforms covering the full equipment lifecycle for customers, provide visualized smart factory solutions, and help corporate customers realize lean, automated, and digital production using the internet, IoT, 5G+, virtual reality, AI, and other technologies.

We own three major brands – PHARMAPACK, EC-JET, and Xingyang, and have established an R&D center and an engineering technology center in Bologna, Italy and at our headquarters, China, respectively. After more than 20 years of growth and development, Pharmapack Group has continued to introduce advanced production equipment and technologies and established a team of professionals across the entire process, from design and R&D to production and marketing. Our products are exported to Europe, the Americas (North and South), Asia, Oceania, and other countries and regions. Our marketing network covers major cities and regions, both at home and abroad.

Dreams of intelligence, hearts of innocence. Pharmapack adheres to the business philosophy of Change Originates from Innovation and upholds the core values of Honesty, Punctuality, Diligence, Innovation, Excellence, and Unity. We are committed to providing customers with high-quality products and attentive services, as we strive to achieve Pharmapack's illustrious dream to become a century-old enterprise.

# PHARMA PACK

## CHANGE BEGINS WITH INNOVATION

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# MULTI-STICK AUTOMATIC PACKING LINE

SMART FACTORY TOMORROW MANUFACTURING

Stick Automatic Arrange System consists of horizontal to vertical chute, counting and arranging system, lifting and rejection station, stick arranging belt, combining device, stick infeeding and cartoner, to realize stick packing, empty stick or weight detection, counting and arranging, cartoning. With optional devices, it can also provide SCADA system (Supervisory Control and Data Acquisition System), to improve the production automation and management. This Line fully complies with GMP standard.



Counting & Filling



Vertical Sealing



Horizontal Sealing



Round-Corner Cutting



Laser Printing



Stick Re-arrangement and Weighing



Re-arranging



Cartoning

## MACHINE FEATURES

01

## Control system

Pharmapack Technologies Corporation Menu-based interface for ease of use , capable of storing up to 50 sets of parameter information for quick setup, minimizing changeover time for multiple product types.

Fault display function to help operators troubleshoot efficiently.

PC panel with four-level access control. It can be optionally integrated with SCADA function, and all the alarm information and operation log are traceable.



## Reeling system

The reeling system is servo-driven, with automatic and manual modes.

Automatic mode: The reeling system receives signals from the running strainer to initiate unreeling. When the film is insufficient, the acousto-optic warning alerts for film replacement. When the film runs out, the machine stops running according to the position set by the color code sensor.

Manual mode: The reeling system is equipped with a button for manual control to reel in or out the film.



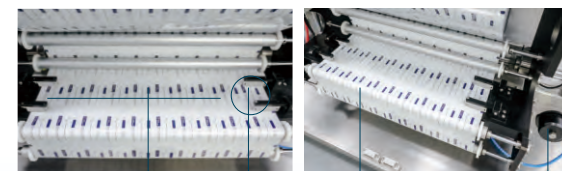
Color Code Sensor

02

## Film Receiving System

When applying the film, open the vacuum plate, buckle the magnetic system to clamp the film, cut the film along the red line, loose the upper row of clamps, and take down the used film reel.

Put the film roll on by trolley, press the operation button to pull the film to connect to the used film, then stick the two films with tapes to ensure the film connection perfectly.



Film Cutting Groove

Magnetic System

Vacuum Plate

Dark Color Tape

## Strainer

The film tension is controlled by the EtherCAT bus encoder, with the unreeling servo motor using PID control for speed adjustments. The strainer adjusts the reeling speed automatically based on the film size, ensuring a stable film release.

The strainer ensures consistent film tension, which is essential for stable stick length.



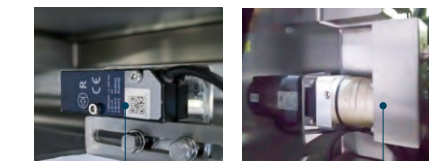
Servo Encoder

04

## Laser Detection and Rectification System

High-precision digital laser sensors are installed at both ends of the film roll to monitor the film's edge (adjustable distance). If the film shifts, a correction servo motor moves the film holder to correct its alignment.

The rectification system consists of a rectification motor and three support shafts holding the packaging film frame. It receives position data from the color mark detection system , and the servo motor adjusts the film frame via these three shafts in real-time. This ensures optimal bag forming quality, reduces the defect rate.



Laser detection sensor

Rectification servo motor

## Laser Coding System

The laser coding machine marks the packaging film within a protective hood, with coding-generated smoke extracted by a vacuum suction system. A camera system checks the quality of the coding. If the coding fails, the faulty stick will be rejected during the subsequent empty pack removal process.

This system integrates EC-PACK(subsidiary brand of Pharmapack) laser coding machine and the camera detection into a single control screen, enabling easy data collection and traceability.



06

# APPLICATION



## APPLICABLE INDUSTRIES

Pharmaceuticals, healthcare, food, dairy, personal care, etc.



## APPLICABLE PACKAGING MATERIALS

Composite films



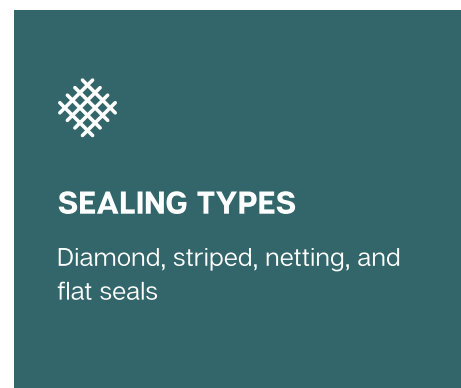
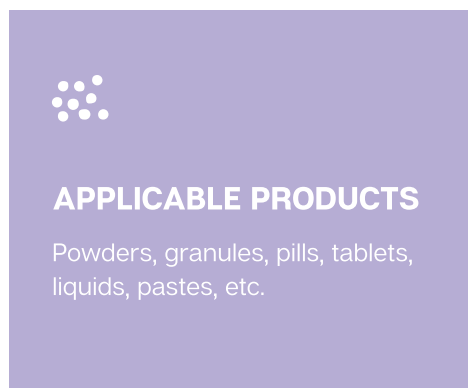
## APPLICABLE PRODUCTS

Powders, granules, pills, tablets, liquids, pastes, etc.



## SEALING TYPES

Diamond, striped, netting, and flat seals



# ADVANTAGE

## Stick Packing Advantages



# 5 Advantages

### Excellent Barrier Performance



Medications are prone to moisture and degradation in external environments, which can affect their efficacy. Materials used in pharmaceutical stick packs fully block moisture and oxygen, ensuring the effectiveness of the medication.

### Sealing Effectiveness



Many oral liquids of herbal medicines need to be heated for typically 30 minutes to 1 hour in 100°C water or 120°C water-vapor mixture. Stick pack packaging offer excellent sealing to withstand these heating process.

### Anti-Counterfeiting



Electronic identifiers embedded in pharmaceutical stick packs allow users to scan and access details such as manufacturer, production date, and batch number, enhancing anti-counterfeiting measures.

### Convenience Easy



Stick Packs are compact, resistant to compression, and easy to carry, making them especially suitable for travel. Certain medicines, such as pediatric drugs, can feature uniquely shaped designs to be more appealing.

### Significant Cost Saving

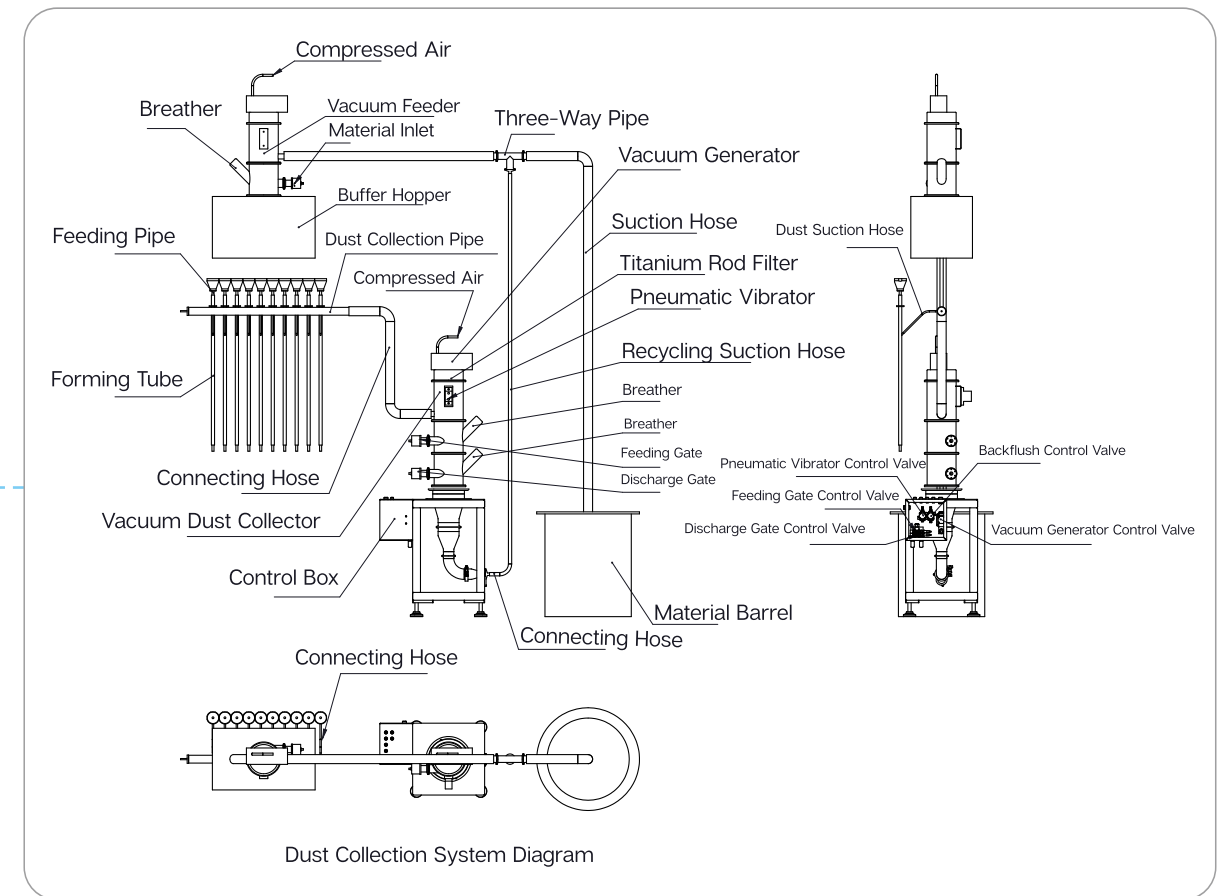


Transitioning from glass bottle packaging to stick packs reduces costs across materials, equipment, labor, logistics, storage, and environmental impact.

# PRODUCT ADVANTAGES

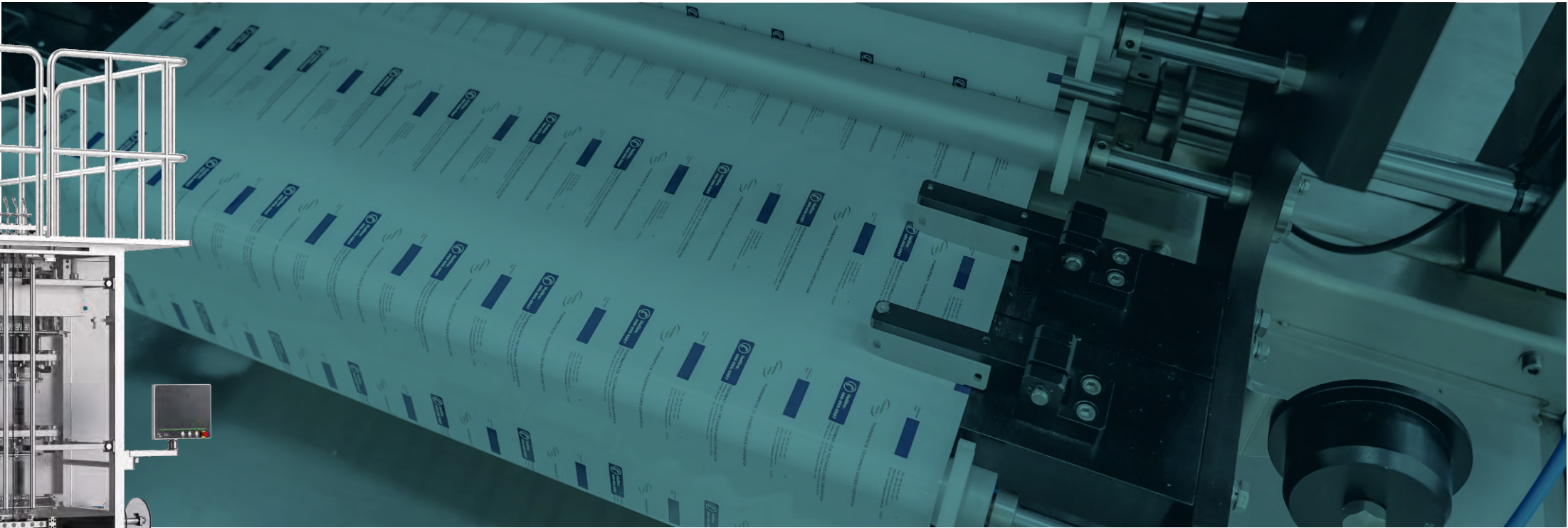
  
Automatic Dust Recovery System

  
Servo feeding



# » Lfvsc-12P

Automatic Stick Continuous Packing  
Machine 12 Row (Liquid)



MAX. SPEED  
**80**  
cuts/min  
(10ml)



## Higher Speed

Seamless integration of all functional modules through a full servo control system eliminates unnecessary delays, ensuring faster speed and stable operation.



## Quick Product Change

Upgraded servo control system enables rapid adaptation for stick pack lengths between 60-160mm.

# » LFVS-01S

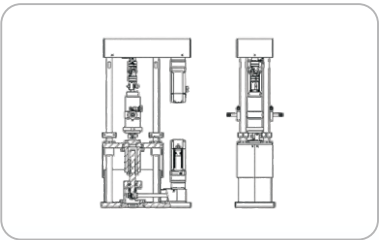
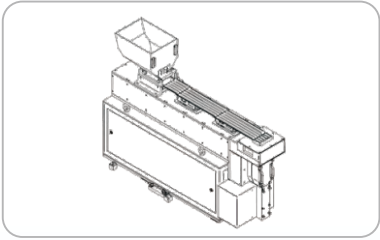
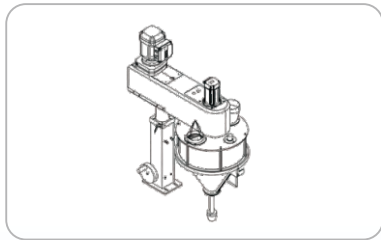
## Multi-Infeed Stick Packing Machine (3-in-1)



Servo Screw Measuring Mechanism

Counting Measuring Mechanism

Liquid Pump Measuring Mechanism



## 3-in-1 Stick Packing Machine

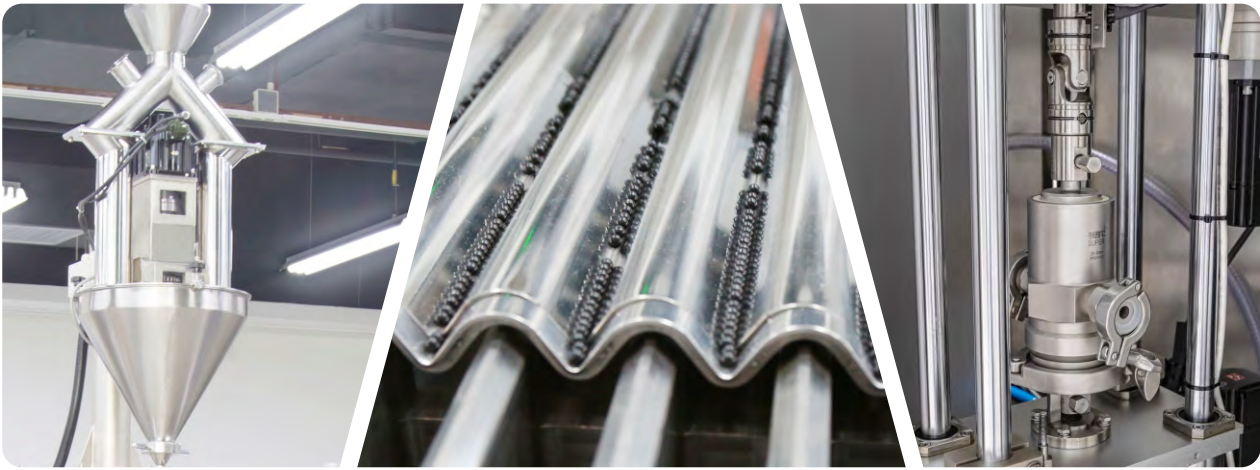
The 3-in-1 stick packing machine features a servo screw measuring mechanism, a counting measuring mechanism, and a liquid pump measuring mechanism, suitable for the precise packaging of granules, powders, tablets, and liquids.



Compact Design Occupies Only 7m³



Cost-Efficiency Multifunctional



Powder

Tablets/Granules/Capsules

Liquids

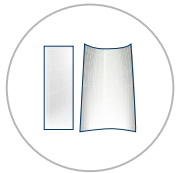


# » ALFVS-01D

## Twin-Stick Packing Machine



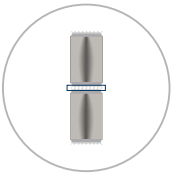
Twin-Stick Packing Machine features a horizontal dual-chamber design, capable of packaging two different materials, which can be two different components of powders, powders and granules, or powders and liquids. Replacing the corresponding measuring mechanisms allows for precise measurements of different materials. The horizontal dual-chamber design facilitates package opening and materials mixing, enhancing consumer convenience and experience.



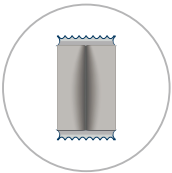
Vertical Sealing



Horizontal Sealing



Secondary Vertical Sealing



Round Corner Cutter

# EQUIPMENT INTRODUCTION

SMART FACTORY TOMORROW MANUFACTURING

□Note: Material feeding speed and production speed depend on material characteristics, with production speed determined by material flow rate. )

## » LFVS-01

Single Row Automatic Stick Packing Machine

Max. Speed 80 cuts/min



## » ALFVS-04S

Automatic Stick Packing Machine 4-Row

Max. Speed 70 cuts/min



## » ALFVS-06S

Automatic Stick Packing Machine 6-Row

Max. Speed 70 cuts/min



# EQUIPMENT INTRODUCTION

□Note: Material feeding speed and production speed depend on material characteristics, with production speed determined by material flow rate. )

SMART FACTORY TOMORROW MANUFACTURING



## » ALFVS-08S

Automatic Stick Packing Machine  
8-Row

Max. Speed 70 cuts/min



## » ALFVS-10S

Automatic Stick Packing Machine  
10-Row

Max. Speed 70 cuts/min



## » ALFVS-10SP

Automatic Stick packing machine  
10-Row (liquid)

Max. Speed 45 cuts/min(30ml)

# EQUIPMENT INTRODUCTION

SMART FACTORY TOMORROW MANUFACTURING

□Note: Material feeding speed and production speed depend on material characteristics, with production speed determined by material flow rate. )



## » ALFVS-12S

Automatic Stick Packing Machine  
12-Row

Max. Speed 70 cuts/min



## » LFSS-10

Re-arranging Device 10 Row

Max. Speed 80 cuts/min

## » LFSS-10WT

Weighing Machine 10-Row  
(2-12 Rows)

Max. Speed 70 cuts/min



Optional magnetic levitation conveyor for superior speed, lower noise, and higher efficiency

Magnetic Levitation Conveyor



MORE  
OPTIONS

## » Four-side Sealing Machine



Performs functions such as stick pack forming, filling, sealing, slitting, cutting easy-tear notches, horizontal and vertical cuts, printing information, and sub-packaging. The control system incorporates internationally renowned servo motors for precise operation.

# HORIZONTAL PACKAGING MACHINE

SMART FACTORY TOMORROW MANUFACTURING

## » PB-2400DL

Fully Automatic Horizontal Twin Packaging Machine



### Higher Speed

Horizontal film feeding accommodates diverse materials with various feeding modes.

### Enhanced Packaging Quality

Dust removal ports reduce the impact of powder dust on seal quality, ensuring improved packaging results, especially for power packaging.



### Less Part Replacement

Optimized design ensures continuous operation with minimal part replacements.

### Neat Packaging Appearance

Intermittent sealing ensures smooth packaging for enhanced product image.

### Easy to Adjust

Free of change-over parts, allowing for easy adjustments to accommodate different packing dimensions.



### Features

Suitable for a variety of products and compatible with measuring mechanisms



Screw



Measuring Cups



Liquid Pumps



### Functions

#### 10 Main Functions

- |                                                                                                                                                                         |                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 01 Suitable for packaging sugar, tablets, capsules, pills, pellets, and more.                                                                                           | 06 Can incorporate a diamond-shaped tear notch or a straight tear notch.      |
| 02 Can be used with feeding systems for powders, granules, liquids, and viscous materials, as well as with counting machines, multi-head weighers, and measuring trays. | 07 European-style holes (airplane holes) available.                           |
| 03 Compatible with embossing (side seals), hot-press printing, heat transfer printing, inkjet printers, and laser marking systems.                                      | 08 Custom designs can enable the production of stand-up packs.                |
| 04 Capable of producing both 3-side and 4-side sealed packaging.                                                                                                        | 09 Seal patterns can include lattice, stripes, or plain designs.              |
| 05 Custom machines can be equipped with a zipper at the bag opening.                                                                                                    | 10 Suitable for packaging powders, granules, liquids, and viscous substances. |

# TUBE FILLING AND SEALING MACHINE

SMART FACTORY TOMORROW' MANUFACTURING

## » RGZF-70

Fully Automatic Aluminum Tube Filling and Sealing Machine



01

The Pharmapack fully automatic aluminum tube filling and sealing machine is compact, user-friendly, and ideal for industries like pharmaceuticals, food, and daily chemicals.

02

The machine accurately fills aluminum tubes with pastes, creams, and viscous fluids, and performs tasks like tube flattening, edge folding, and coding.

03

It achieves a production capacity of up to 4,200 tubes per hour with a filling accuracy of  $\pm 1\%$ . Additionally, its touchscreen interface ensures easy operation.



### Applicable Products



# TUBE FILLING AND SEALING MACHINE

SMART FACTORY TOMORROW MANUFACTURING

## » RGNF-80B

Tube Filling and Sealing Machine



### Machine Details

- 01 This fully automatic machine handles the entire process from tube feeding, label recognition, filling, hot sealing, coding, trimming to product output.
- 02 The machine employs a mechanical-electrical control system for tube feeding and includes a reliable mechanism to stop operation if a tube is fed in the wrong orientation, ensuring accurate performance.
- 03 Material contact parts are made of 316L stainless steel, meeting GMP standards.
- 04 A servo motor controls tube positioning, with automatic alignment via photoelectric sensors.
- 05 Safety features include door-open stop, no-tube no-fill, and overload protection.



### Details

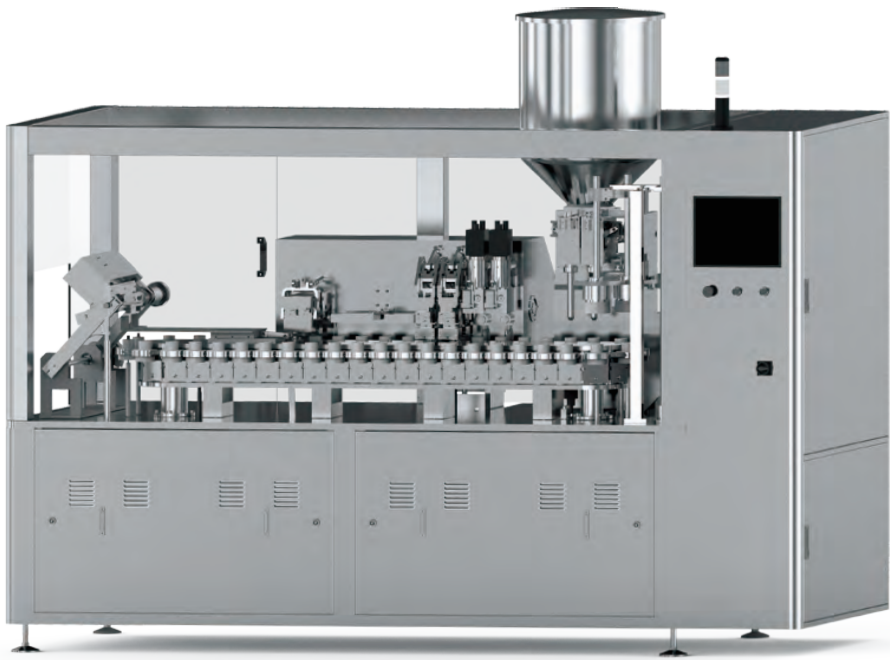


# TUBE FILLING AND SEALING MACHINE

SMART FACTORY TOMORROW MANUFACTURING

## » RGDF-120B

Intelligent Two-Heads Tube Filling and Sealing Machine



Efficient



Precise



Stable



Reliable



### Advantages

#### High Efficiency

Advanced filling and sealing technology enables continuous high-speed operation.

#### High-Quality Sealing

Secure, aesthetically pleasing seals with excellent leak prevention.

#### Strong Stability

Sturdy structure ensures consistent performance with minimal downtime.

#### Various Filling

Suitable for single color and multi-color filling.

#### Accurate Filling

Equipped with a high-precision measuring system to minimize errors.

#### Ease of Operation

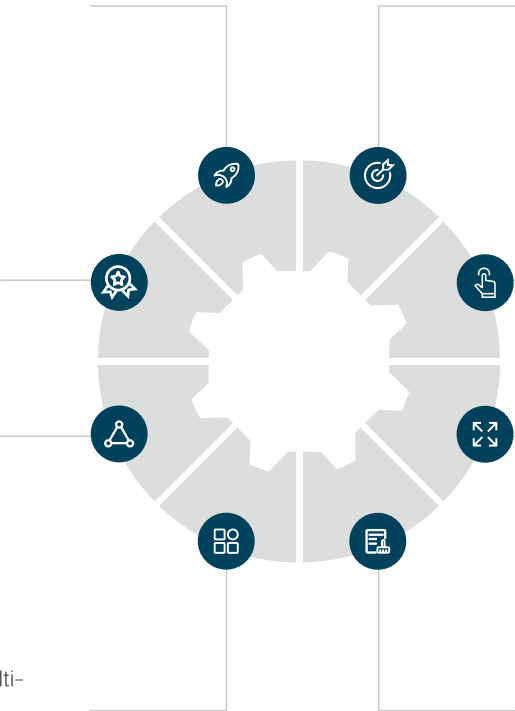
User-friendly interface for quick and simple operation.

#### Versatility

Suitable for various tube materials and product types

#### Hygienic Design

Complies with GMP standards for easy cleaning and maintenance.



# CUSTOMIZED PRODUCTS

1

Measuring and filling powder from 0.5-50g, liquids from 5-50ml, granules 1-20g with  $\pm 2\%$  accuracy.



2

A dedicated material testing lab to match products to customer needs, applicable in industries such as healthcare and pharmaceuticals.



# SMART FACTORY TOMORROW MANUFACTURING

BOTTLE PACKAGING SERIES

FLEXIBLE PACKAGING SERIES

INSPECTION SERIES

SMART FACTORY AND SYSTEMS

