# Product Specification

| Description | | Model | |
|---|---|---|---|
| | | SF-80N | SF-100N |
| Number of Hole (Hole) | | 10 | 14 |
| Max. Output capsule (Caps/Hour) : Powder | | 80,000 | 100,000 |
| Revolution of unit (unit/min) | | 135 | |
| Range of capsule size | | #00~#4 / #000, #5 (Option) | |
| Main motor power (kW) | | 2.2 | |
| Dimension (mm) | | D 1,710 (2,810) X W 1,480 (2,870) X H 2,220 (2,340) | |
| Hopper Volume ( ℓ ) | Capsule Hopper | 44 | |
| | Powder Hopper | 30 | |
| Weight (kg) | | 2,000 | |
| Power Supply Data | | 220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Phase | |
| Compressed air | | 6kg / $cm^2$ , 800L / min | |

# Quality Assurance

Sejong Pharmatech is confident in its own best quality.
Sejong Pharmatech is the enterprise that certificated ISO 9001, QMS (Quality Management System), and ISO 14001, EMS(Environment Management System) from International Organization for Standardization.
Sejong Pharmatech provides the products which are appropriate for GMP principle of each country. All production equipment of Sejong Pharmatech obtained CE mark and realized safety of products.
Also, Sejong Pharmatech supplies the best products by various test and performance examination at the own Tech-Centre before all manufactured products are delivered to the customers.
The aims of this quality assurance system are cost reduction and improvement of productivity by providing the highest quality equipment for our customers to manufacture the best products at the same time.
In addition, all manufacturing devices of Sejong Pharmatech are made by considering the most necessary part in pharmaceutical industry and engineering experts of Sejong Pharmatech satisfy customers' needs with impeccable technical service.
Sejong Pharmatech has advanced technology for the development and production of a broad range of pharmaceutical machines to enable Sejong Pharmatech to serve the global pharmaceutical market.

# STRUCTURE

## Design

The newly designed body is round in shape to enhance visibility.
Also, we maximized the field of vision inside the machine; secured space for optimum internal maintenance ; and improved convenience in check-up by installing lighting inside it.

## HMI System - Option

All capsule-filling machines in Sejong Pharmatech are operated and controlled via a 15-inch large touch screen mounted on the operation panel. Also, it is designed to ensure all data on product manufacturing are stored, saved and printed. With an alarm function, you can promptly handle any malfunction or problem. As it is designed to fit to the eye level of the user, it makes it easier to operate the equipment.
An alarm lamp on the front of the machine keeps users informed of any problems in key components and helps users to promptly respond to any machinery failure or problems.

## Turntable with Mechanical Cam Drive System

By adopting an index and cam-drive method, it significantly reduces noise and vibration with excellent abrasion resistance. Through rotary motion delivered from a cam shaft, it transfers capsules to maintain each part's function.

# STRUCTURE

## Reduced Weight Variation in Powder Wiper

This device is designed to reduce weight variation of powder that is actually provided to capsules by blocking any powder leakage from a gap as the powder wiper is completely sealed with a dosing disk.

## Pellets and Tablet Device

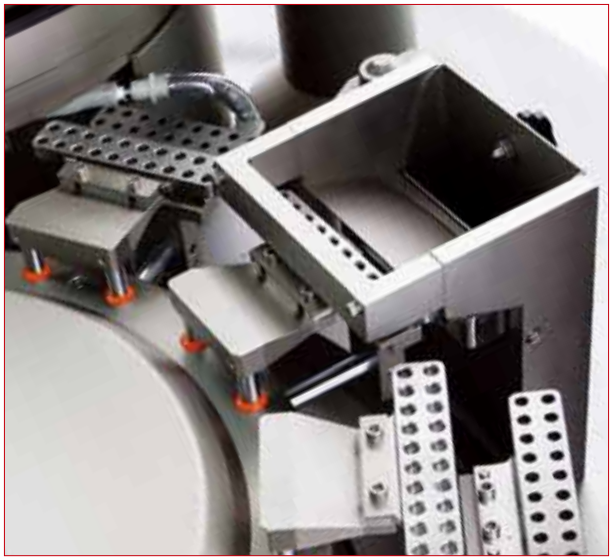
Able to adjust the thickness of pellet blocks so that it allows accurate measuring of drug weight that is inserted into the capsule.
Also, as it is designed in a simple structure for easy disassembly and assembly of the pellet blocks, it will significantly reduce the setting time.

## Powder Supply and Tamping

The powder hopper will automatically move up and down, which can be controlled on the touch screen.
It is designed in a structure that allows operators to stop at any location necessary.
In addition, as it adopts a multi-level compression method, it can carry out compression molding on filling powder in five stages before inserting them into a capsule.
Thus, it can accurately control drug weight in the capsule.
Reinforced dust-collecting function of the tamping part minimizes the likelihood of powder scattering in the machine.

## Strengthened Filling Efficiency of Powder Duct

As it minimizes the gap with a dosing disk, by prolonging the length of powder duct, it raises filling efficiency to significantly improve the collection rate of scattered powder.
Also, with improved filling efficiency, it minimizes powder leaking into the machine during dosing disk rotation.



## Faulty Capsule Ejection

We have strengthened a function to accurately discharge, filter and separately store any capsules with a cap and body that are not divided though the up and down movement of ejection pin and air block.

## Capsule Orientation and Separation

Designed to allow easy disassembly and assembly of change parts. You can easily check the remaining capsules with the naked eye. Also it is designed and developed to ensure easy collection.
If there is a problem in capsules provided to the feeder, i.e. stuck capsules, overlapping, etc., it is designed to solve the problem automatically by disassembled device (Option).

# STRUCTURE

## Maximum Dosing Disk Thickness

| Maximum Dosing Disk Thickness | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Capsule Size | #000 | #00 | #0el | #0 | #1 | #2 | #3 | #4 | #5 |
| Maximum Dosing Disk Thickness (mm) | 25.3 | 23.8 | 23.8 | 21.8 | 20 | 17.5 | 16.5 | 14.5 | 10.6 |

## Use of Low Pressure Vacuum Pump

Using a low pressure vacuum pump, it is designed to have a comparatively small air consumption rather than a large intake volume and is able to assure the reliability of vacuum level in low and inconsistent pressure over 4 kilo.
Also, as it is designed to ensure easy filter cleaning and replacement, it is excellent in maintenance.

## Capsule Closing, Discharge, Cleaning

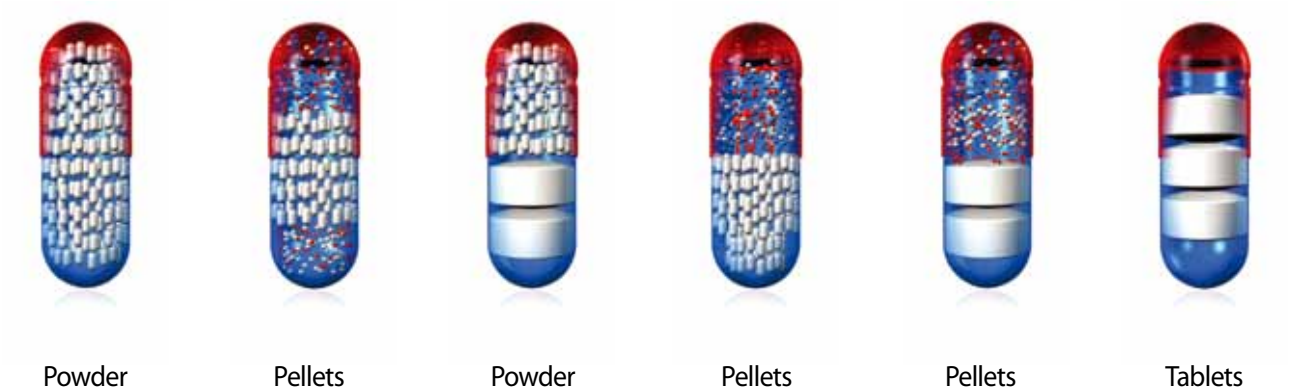
We have reinforced the dust-collecting function on the capsule closing, discharge, and cleaning part to minimize the powder scattering in the machine.

## Various Filling & Combination in Capsules

This machine can fill various powder, pellet, tablets into capsules while filling various capsules such as pellet powder capsules, and tablet powder capsules. (Excluding SF-150N)

※ In case of tablet filling, reflected difference result in supply method by raw materials shape and filling quantity.
※ Please discuss with Sejong Pharmatech for before the tablet filling production.

Production capacity and accuracy would be slightly different depending on the material and specification of powder, pellet and tablet.



Powder

Pellets + Powder + Pellets

Powder + Tablets

Pellets + Powder

Pellets + Tablets

Tablets + Tablets + Tablets

# Touch Screen

Safety Message Function

Reporting Function

## Operation

Operation screen enables you to configure all information on machine operation including RPM, production amount, the running of other option items, etc.

## Dejamming

This screen serves to automatically solve the problem of failing to provide capsules to the feeder.

## Production Management Function

This screen displays all necessary parameters and system environments for production and allows you to set up the name, manufacturer's serial number and mode for products and to input, save and print out a manufacturing recipe for a product.

## Safety Message Function

This screen allows users to check a particular part if the alarm rang when a problem occurred during filling process. It also gives solutions for the problems.

## Reporting Function

Function to enable users to check various production data by different products, manufacture's serial numbers, users, etc.

※ The above contents are subject to change without prior notice for the technical development.

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