



VANTIX

CAPSULE FILLING F Series



USA DISTRIBUTOR:

Key International, Inc.
4 Corporate Drive, Cranbury, NJ 08512
P: 609-619-3685 F: 609-619-3686
Email: sales@keyinternational.com
Web: www.keyinternational.com

CAT No. : 23146-01-201302-CF-F-E

I Headquarters

#63, AnNam 402 Road, Bupyeong-Gu,
Incheon City, Korea. 403-858
T. +82 32 508 1284 / F. +82 32 508 1289
www.sjpmt.com / sales@sjpmt.com

I Sejong Europe

C/ Ponent 78 Nave C6 Pol. Ind. Can Mascar
08756 La Palma de Cervell Barcelona. Spain
T. +93 470 09 10 / F. +93 480 90 18
E.coyma@coyma.com

I Sejong America INC

4 Corporate Dr., Unit G Cranbury, NJ 08512
T. +609 619 3685 / F. +609 619 3686
E.sales@keyinternational.com



VANTIX

CAPSULE FILLING F Series

The biggest advantage of VANTIX F Series Capsule Filling is that the amount of pharmaceuticals being filled in a capsule is absolutely precise.

All of VANTIX Capsule Filling Line compresses the powder after going through 5 compression stages before inserting it into the capsule, and pellets and tablets can be filled by the optional device.

Also, by applying an index and cam drive method, we were able to reduce noise & vibration and achieve strong durability, by enhancing the dust-collecting functionality from the part where the powder is discharged, we were able to minimize the powder scattering inside the machine.

In addition, the various technologies that have been specially developed and applied enhance the customer's productivity, adding another competitiveness of Sejong Pharmatech.

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■ New 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

All Capsule Filling in Sejong Pharmatech are operated and controlled via a 15 inch large touch screen mounted on the operation panel. It has newly additional sampling checker and A.W.C function makes it easier to control and manage the equipment.

Also, it is designed to ensure all data on product manufacturing stored, saved and printed. With an alarm function, you can promptly handle any malfunction or problem.



■ Sampling Checker

Newly designed sampling machine is the device where capsule weight is checked on a regular basis for requested time & capsule quantity. It can be easily controlled from main touch screen, capsule's weight, individual deviation, average points are all displayed in the touch screen at a real time base. Also all the data and parameter can be printed from the optional printer. Furthermore, by adopting more compact size in exterior, it enables easy movement and usage of space. (Maximum measuring Speed is up to 40 RPM)



■ Powder Supply

By deleting up & down motor which is required to be dismantled, and with the use of simple structure, it can independently dismantle and assemble powder hopper, maintaining easy cleaning and stable maintenance.

■ Faulty Capsule Ejection

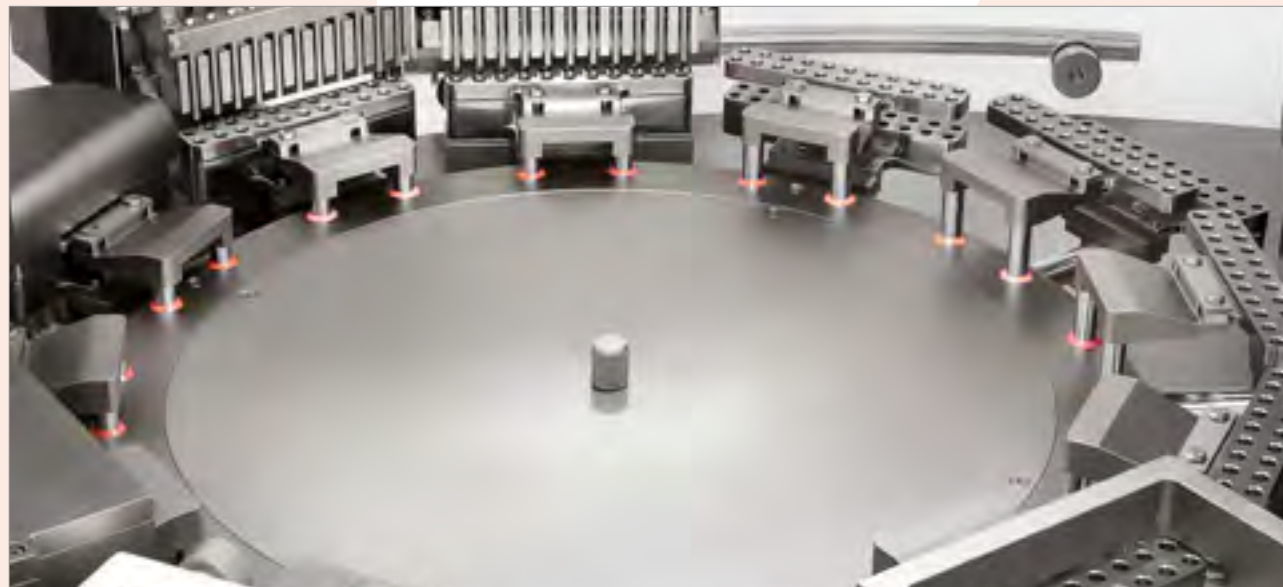
Defective capsule in the capsule of the cap and the body should not be separated for poor discharge pin. Through the pin up & down motion & air block can eject faulty capsules (not separated by cap & body) more enhanced.



■ Capsule Separation

From the previous method of using pin, now we removed the pin to simplify the structure and make the structure to be simpler for easy cleaning, assembly & disassembly. Vacuum line has been manufactured with shaft type. Capsule separation improved efficiently and structure has been more simplified than previous one.





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.

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.



Motor Speed control for powder supply

Depending on the disk speed & powder properties, powder supply amount will be controlled through the motor speed and it can reduce the weight deviation as well.



Reinforced Efficiency of Dust Collection

Optimized design of powder suction reinforces the efficiency of dust collection.

The enhanced duct located in the position of powder scattering can minimize the amount of powder scattering.



Tamping Part

Newly designed tamping part with moving wiper minimizes the powder leakage to the outside of disk.

The wiper blades on the disk improve the powder flow ability and enable more exact powder filling amount into the capsule.



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.



Use of Low Pressure Vacuum Pump

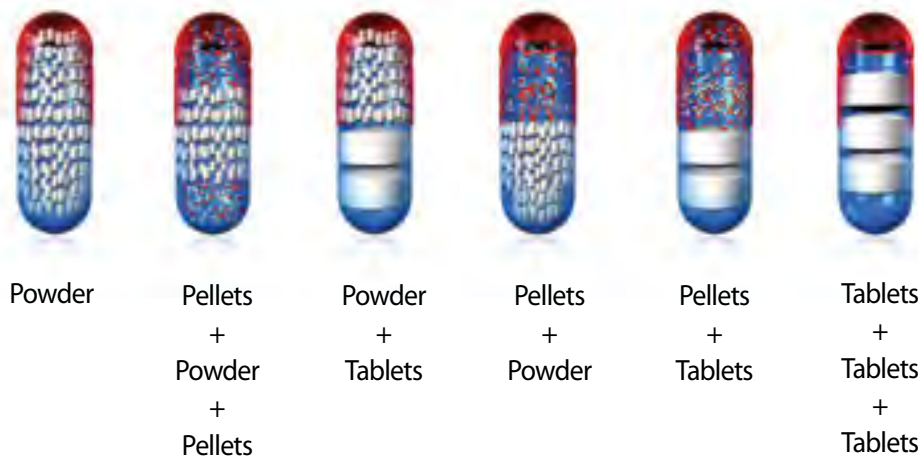
Using a low pressure vacuum pump, it is designed to have a comparatively small air consumption rather than a large intake volume and is able to assure the reliability of vacuum level in low and inconsistent pressure over 4 kilo. Also, as it is designed to ensure easy filter cleaning and replacement,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

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.



Operation

Operation screen enables you to configure all information on machine operation including RPM, production amount and 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.

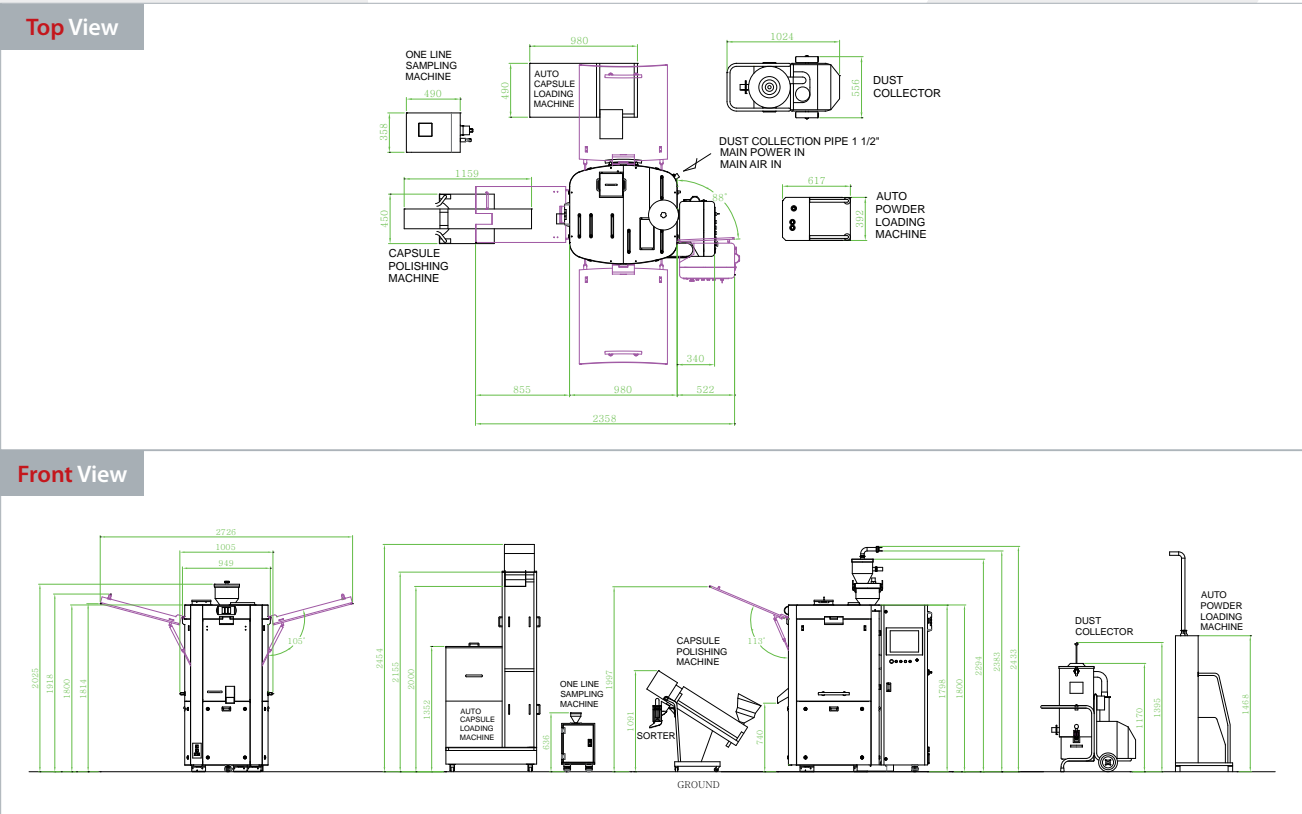
Reporting Function

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

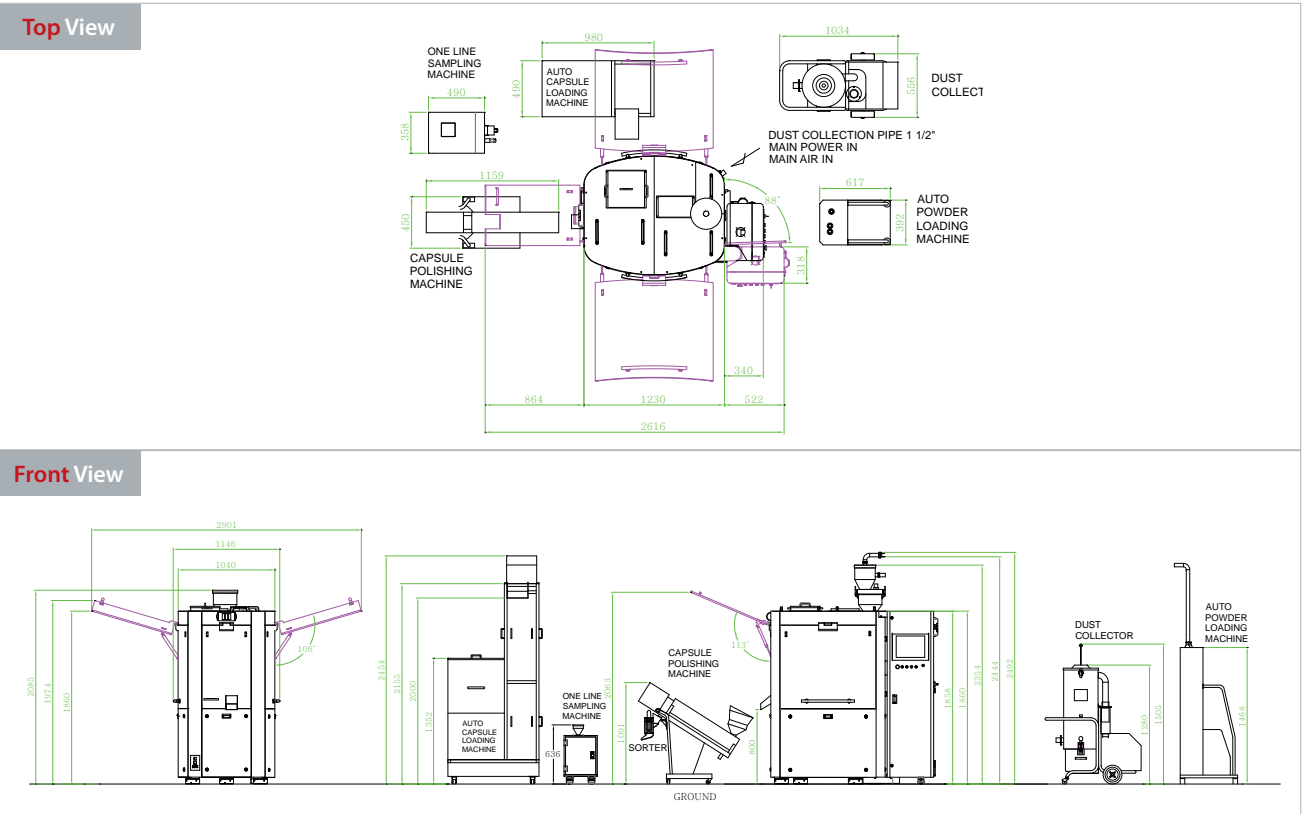
※ The above contents are subject to change without prior notice for the technical development.

Dimensions with Layout

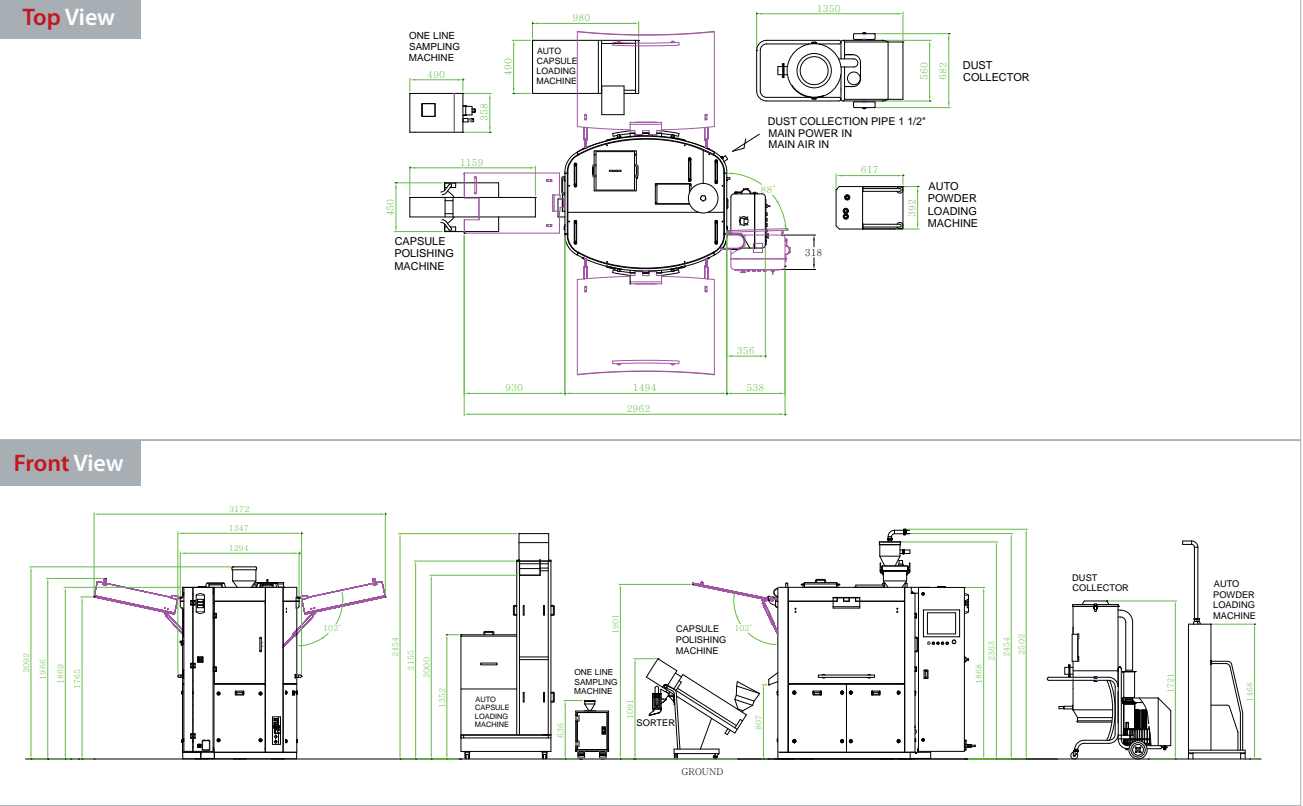
VANTIX F50 LAYOUT



VANTIX F125 LAYOUT



VANTIX F180 LAYOUT



Description	Model		
	F50	F125	F180
Number of Hole (Hole)	6	15	22
Max. Output capsule (Caps/Hour) : Powder	50,400	126,000	184,800
Max. Speed (cycles/min)	140	140	140
Range of capsule size	#00~#4 / #000, #5 (Option)		#00~#4, #5(Option)
Dimension (mm)	D1,600 X W1,110 X H1,800 (2,040)	D1,840 X W1,150 X H1,860 (2,100)	D2,180 X W1,350 X H1,860 (2,100)
Hopper Volume (ℓ)	30	30	30
Weight (kg)	1,500	2,300	3,000
Power Supply Data	220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Phase		
Compressed air	6 kg/cm², 400L / min	6 kg/cm², 600L / min	6 kg/cm², 800L / min
Noise Level	80dB or less		

※ Productivity and accuracy of the production are dependent on the physical specification of the used material, powder, and pellet.
※ As per tablet filling, some models are not applicable, also depending on the shape or quantity, filling can be limited.
※ The above specification is subject to change without prior notice for the technical development.