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SFC

AUTOMATIC COATING SYSTEM

We Make Your Dream Come True Through Market- Friendly Technology

High quality materials

Superior functional design

Advanced operation control

Precise manufacturing

Qualified service team

THE NEXT GENERATION OF...

Sejong Pharmatech offers the advanced ideal solution for your coating process.

With hundreds experience of Coating system manufacturing, Sejong Pharmatech provides high class quality to fulfill the International market standard and GMP, CGMP, CE requirements.

Well experienced experts develop the modern quality and performance of Coating system for customer's requirements.

Sejong Pharmatech is ready to meet opportunities to serve your demand in Coating process.


SEJONG

SFC
AUTOMATIC COATING SYSTEM

This is the prototype of being generally and widely supplied, which has the strong point of easy maintenance and after-sales-service.
Furthermore, this model is able to be operated in a very high speed with automated controlling functions.
Stable production can be guaranteed through the function of data storage & management.

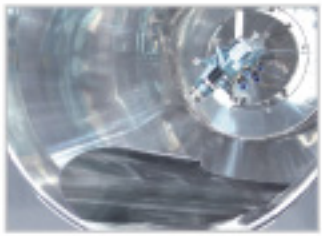
- This operator can easily control the operation through the touch screen.
- All the required conditions and data values are displayed on the touch screen.
- Plate type baffles, which are attached on the wall of coating pan, allow tablets to be coated in the Air Shower as hot air goes through falling tablets.
- Hot air supply and exhaust are automatically controlled along with the temperature.
- The supply of coating solution and atomizing air can be operated simply by spray control unit.
- For sugar-coating, the hot air supply and the exhaust can be automatically controlled by the Auto Damper and the sequence spray, pause 1, pause 2, dry is automatically operated by the preset timer.
- The discharge chute is installed in front of main body. In the discharging process, coated tablets can be discharged within the short time without damages through the discharge scraper.
- The film coating, aqua coating and sugar coating can be performed in the same machine.

This model is designed in consideration of the convenience and safety of the users, offering easy operational tools based on <computer-controlling system>, which conforms the <GMP Regulations>.
The design is originated from the preciseness of 3 dimensional drawings.
The quality is supported by the strict QA, QC system . The stable production condition is guaranteed by the <PDM system> which can scrutinize each process from the production to the dispatch of the machine.

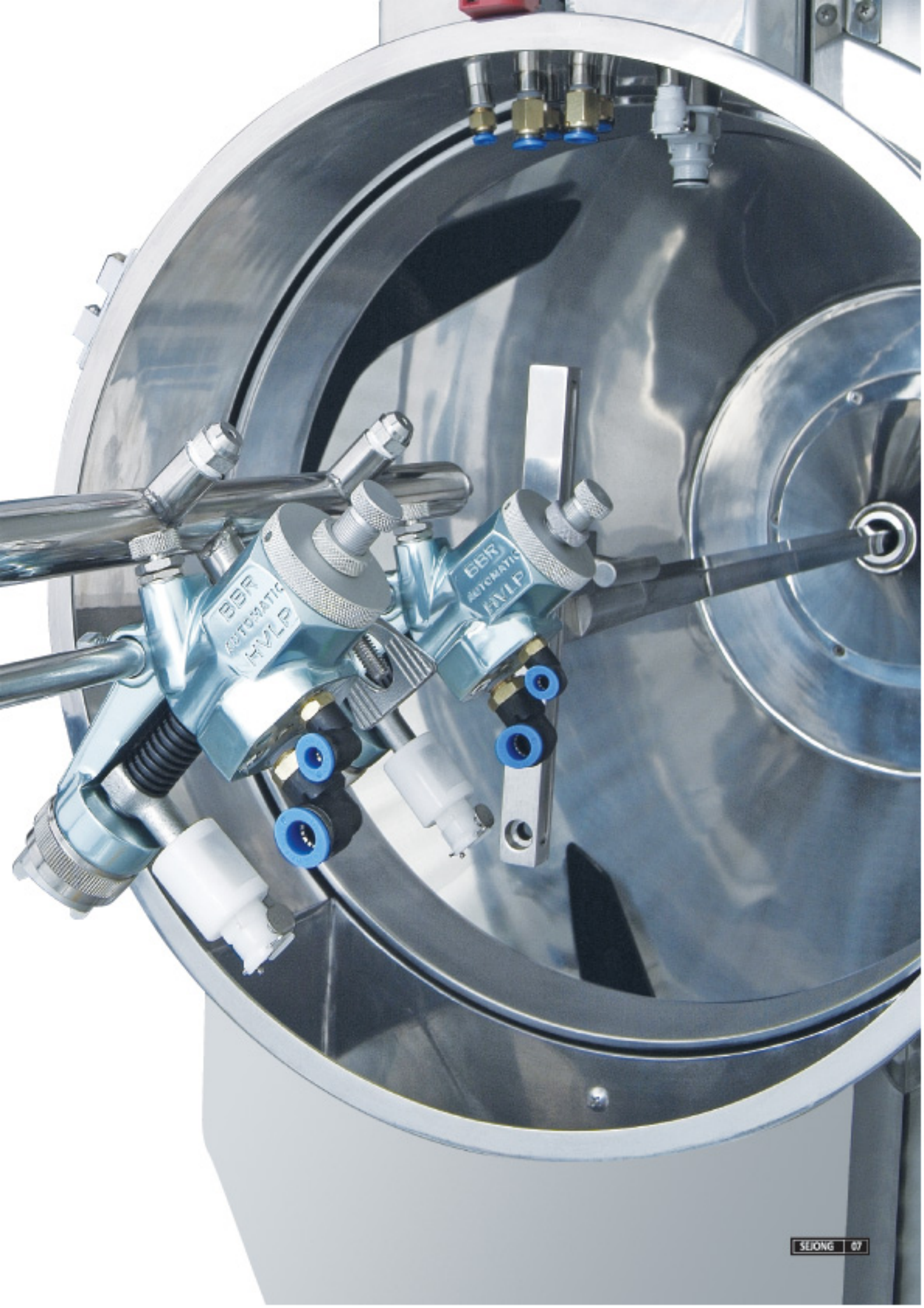
- Sejong coating system is specially designed with different structure that make it possible to take control of thermal air flow effectively.
- Seamless compartment and good craftsmanship allow the coater to have good looking and effective thermal insulation.
- Easily comprehendible pointing devices in well-organizing , show the current state of coating process in a sight.
- Application of name-valued components guarantee the Sejong coater to have more stability.

CONSTRUCTION

Driving area is consisted of main power driving motor, a worm reducer, a set of chain & gear and subequipments.
Driving force from main power driving motor is transferred to the coating pan through the worm reducer and main shaft.
The speed control is performed by the invertor and the adjusted by the pan speed rotary switch in the touch screen panel.



- **Discharge chute**
  When the coating production is completed, the final product is discharged through the discharge chute
  Discharging process is performing with the discharge guide and the pan is revolving opposite direction.
  Discharging control is operated by the discharge select switch in the touch screen control panel.
- **Coating Baffle**
  Total 8 baffles are attached on the inside surface of the coating pan, while the pan is revolving,
  the baffle is stirring and spreading the tablets for the efficient mixing and drying process.
- **Sight Glass Window**
  The production condition processed can be checked by eyes through the sight glass during the production.
  At the upper part of the sight glass window, a safety sensor is attached. If the sight glass window is opened,
  the alarm is to be raised. The buzzer can be muted through the buzzer off button in the touch screen.


BBR
AUTOMATIC
HVLP
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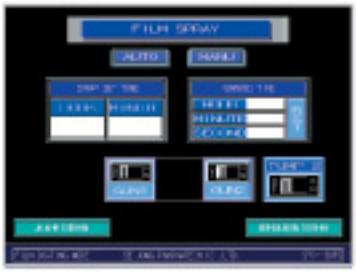
HVLP

TOUCH SCREEN CONTROL SYSTEM

Central controlling unit comes into view with PLC&touch screen, all the functions of the machine are taken placed in this unit.
Well arranged menu display, free from trouble control unit allows clean and smart operating.

All the parameters necessary to coating process can be set in touch screen in detail.
Display shows any safety oriented warning on the screen with the beep for operator to find out the problems

Sugar spray mode



Film spray mode

Alarm mode

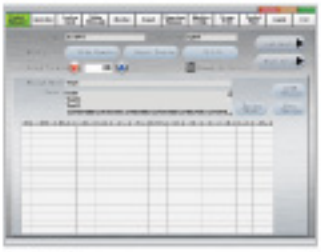
Water in place mode

HMI TOUCH SCREEN

HMI system for user convenience interactive solution, offers lots of current process information graphically.
Additional number of sensing units are attached to check points of the machine, give the signal information parameter to HMI display to cope with more expanded control of the coating process.
Window based system allows many functions for handling data, saving and loading the parameter for certain coating condition.


Safety Massage


Report


Product Manager


Supervisor Manager

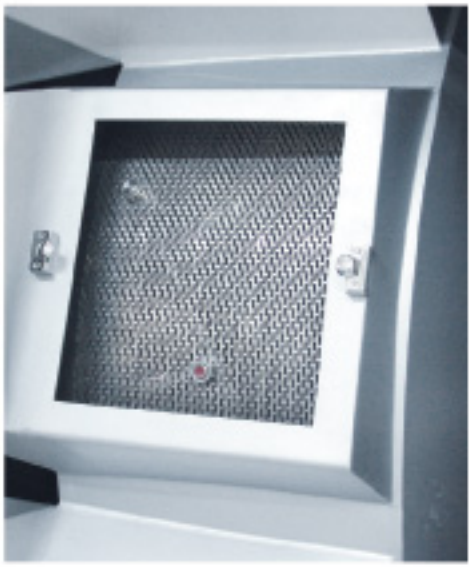

Operation


Monitor

CONSTRUCTION

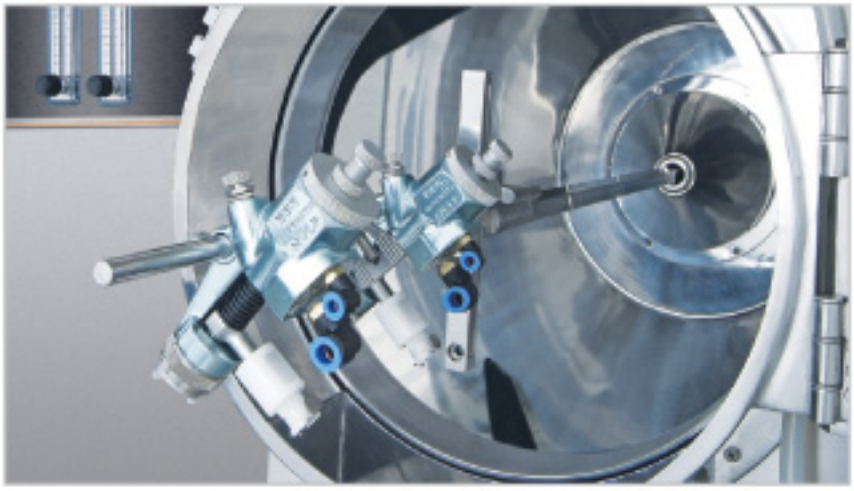
The coating pan is consisted of a round shape pan and 8 air drums.
The air exhausting perforated zone is located between the drum and the pan,
and the heated air from the heated air flowing system is supplied to the coating pan
through the air drum pipe located in the backside of the pan.
The air is supplied and exhausted through 8 air drums for the efficient driving process.

The coating solution is sprayed to the tablet inside of the pan through the spray gun.
A coating solution liquid supplying line, a cylinder air line and an atomizing air line are
connected to the spray gun, and the spraying angle & distance can be adjusted by
the stainless steel needle inside of the spray gun.



CONSTRUCTION

After completing the coating production, the coating pan inside can be cleaned automatically through WIP system. WIP system is washing the coating pan inside, the drum inside and the exhaust duct line, three parts automatically, and the washing time is set in the operation screen of the touch screen.
In the connecting status of the spray gun and the solution tank, if the detergent is sprayed from the solution tank instead of the coating solution, the connection between the spray gun and the solution tank, and the spray gun & the solution tank themselves can be cleaned.
If the spray gun cleaning is completed, the spray gun should be fully dried and the remained detergent inside of the spray gun should be removed after detaching the spray gun from the coating pan.



AUTOMATIC COATING SYSTEM - OPTIONS

DUST COLLECTOR

Air exhausting unit with the filtration,
easy to move and locate by caster, easy to maintain.

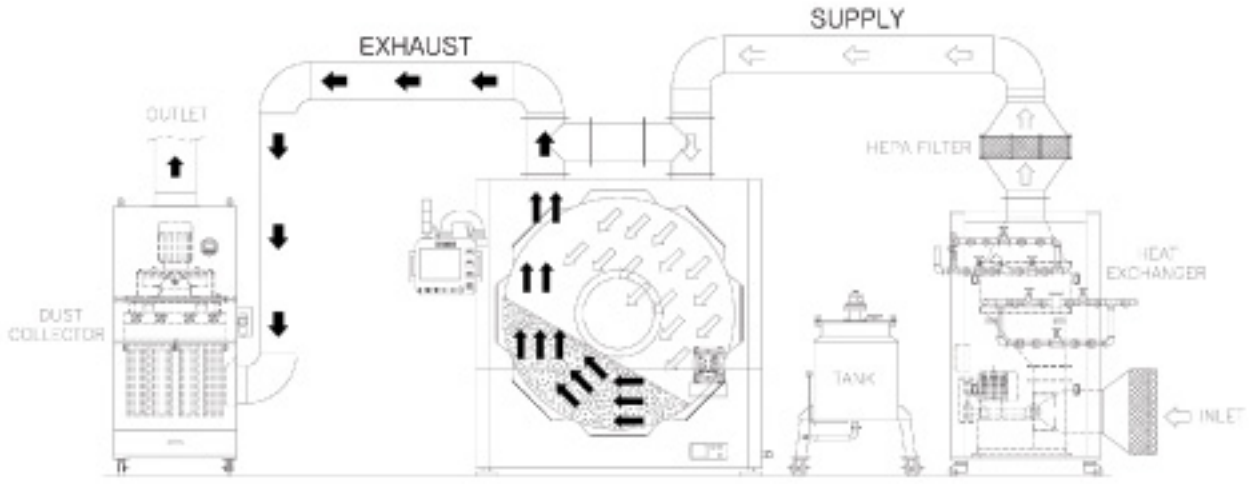
HEAT EXCHANGER

Air exhausting unit with the filtration,
easy to move and locate by caster, easy to maintain.

SOLUTION TANKS

Highly qualified stainless steel construction for contact part with speed variable rapid air motor makes any content of solution into equilibrium in short time.

COMPACTING DIAGRAM



SPECIFICATION AND TECHNICAL REFERENCE

MODEL NAME		SFC-30	SFC-60	SFC-100	SFC-130	SFC-150	SFC-170	SFC-170D
Pan Dia		480	650	1,050	1,300	1,500	1,700	1,700
Volume(ℓ)		9	28	114	220	360	585	930
Output capacity(kg)		2-5	10-18	40-70	80-140	129-230	210-380	400-600
Drive motor(Kw)		0.75	1.5	2.2	4.0	5.5	7.5	11.0
Pan Speed(r.p.m)		1-20	1-16	1-16	1-14	1-14	1-12	1-10
Total electric power(Kw)		9	13	15	18	20	26	38
Dimension	W	1,470	1,100	1,350	1,580	1,820	2,100	2,200
	D	1,380	1,620	1,750	1,950	2,170	2,620	3,400
	H	1,780	1,560	1,770	1,890	2,050	2,120	2,200

The above specification can be subject to be changed without notice.

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