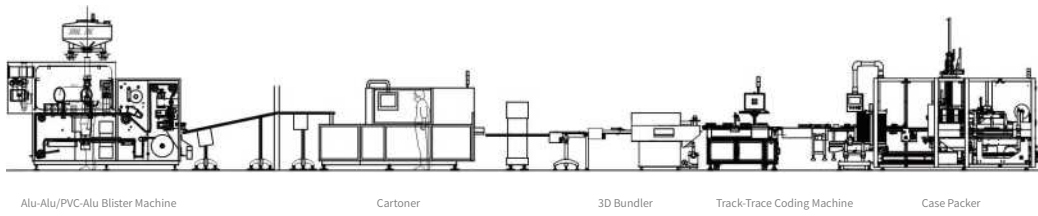
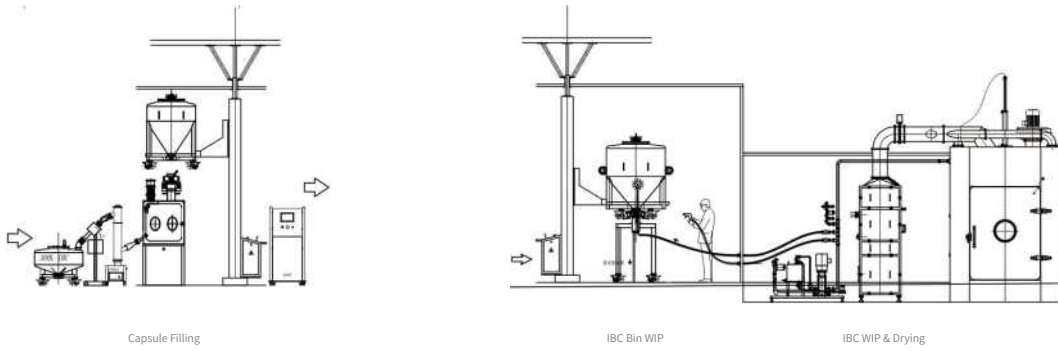
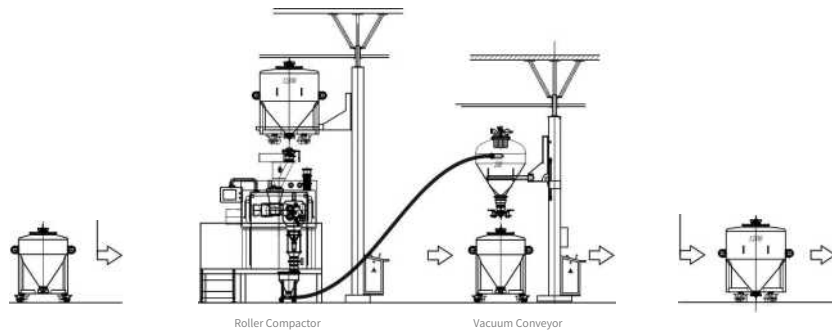
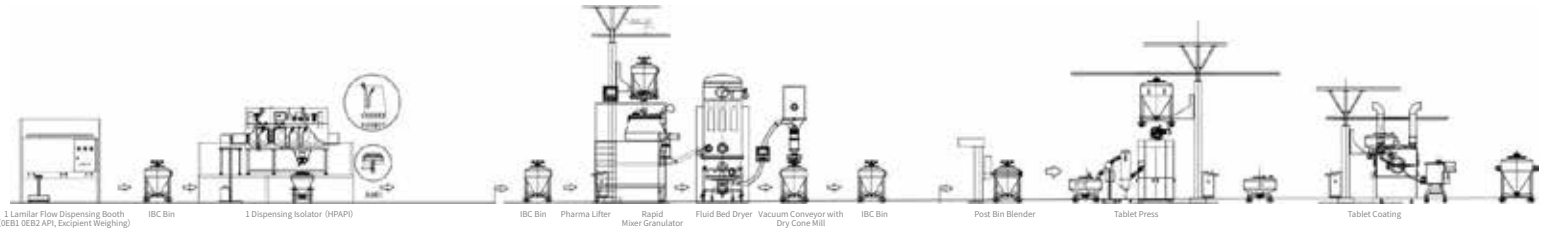




Complete Equipment Production Line
for Oral Solid Dosage

SENEER

High Containment Complete Equipment for Oral Solid Dosage Forms Flow Chat



OEB / OEL Containment Guide

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01

High Containment Dispensing/Sampling Isolator Series

Structral Features

Purpose

Working Principle

Technical Parameters

Structural Features

- ◆ By High containment barrier system, contained grade WOEB5.
- ◆ Chamber lighting level, 500Lux.
- ◆ Internal R20 arc Angle structure, easy to clean, no dead Angle.
- ◆ All working chamber body is made of SUS316L stainless steel, polished inside Raw0.4 m, outside Raw0.8 m.
- ◆ Internal design for negative pressure turbulence mode, the minimum ventilation is 20 times/hour, static ISO7 cleanliness; The front opening of the equipment adopts hinged gas sealed tempered glass door.
- ◆ In the chamber pressure - air exhaust linkage control, support the gloves damaged when the negative pressure is protected; •Optional glove integrity tester, gloves can be safely replaced online.
- ◆ Push-push exhaust filter system, air inlet with cylinder filter, filter can be replaced safely.
- ◆ A variety of material transfer mode for choice, BIBO feed in and out device, RTP valve or A/B valve.
- ◆ Fan suspension type installation and Germany special air floating shock absorber, can meet the need of precision balance weighing.
- ◆ Optional explosion-proof control system, can provide EX II B (explosive gas) and EXA21 /B21 combustible dust) protection level design.
- ◆ Intelligent control system, built-in equipment automatic operation and management program, with a number of ports and applications to expand, powerful.

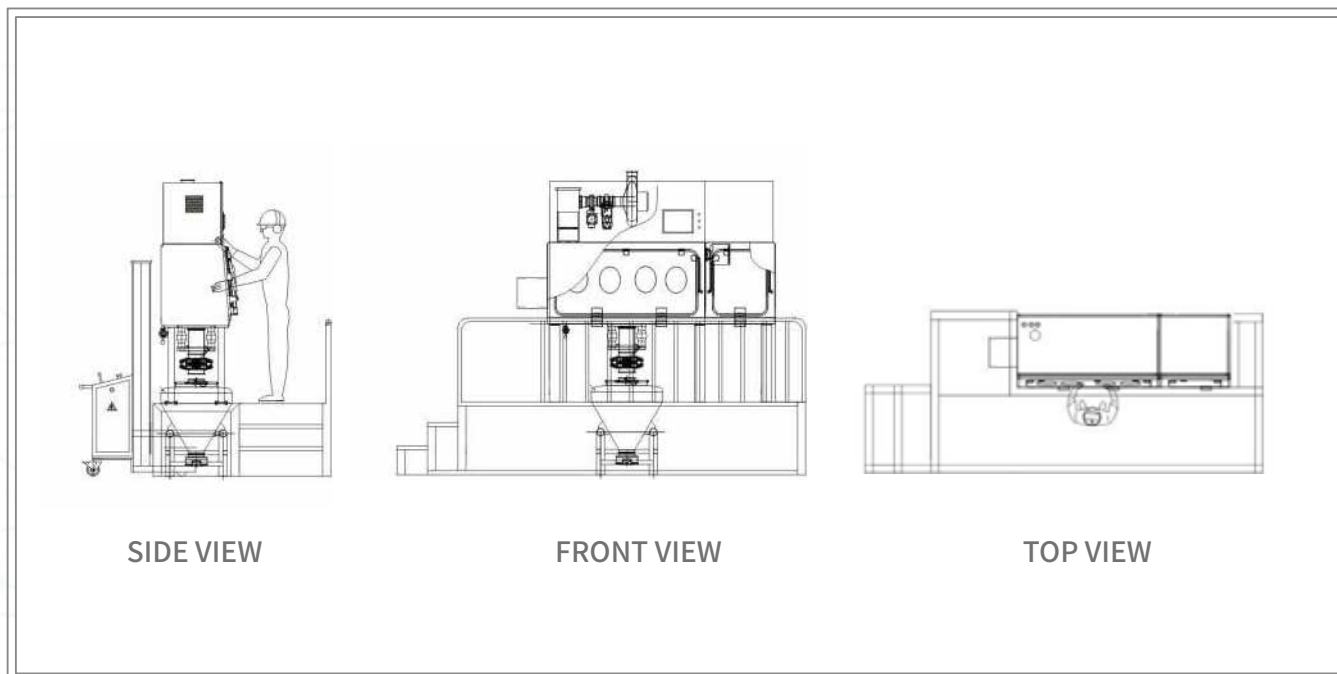
Purpose

- ◆ Negative pressure dispensing/sampling isolator provides effective safety protection for the production and processing of highly toxic and active drugs. It provides reliable protection for the safety and health of operators.

Working Principle

- ◆ A negative pressure isolator is a device that separates the operator from the drug product through a physical barrier. Its physical isolation barriers include, contained chambers, Operating gloves, continuous liners, RTP valves, A/B valves, etc. The air inlet and exhaust inside the negative pressure chamber are all through the high efficiency filter to prevent the cross contamination between the material and the environment.

Technical Parameters



Power	220v 50HZ
Chamber Material	SU316L stainless steel
Power Load During Negative Pressure Maintained Period	1000w
Type Of Airflow	Turbulence
Operating Chamber Working Pressure	-80pa~-50pa
Air Change Rate	More than 20 times per hour
Contained Grade	OEB5
Noise Level during Negative Pressure Maintained period	W65dB (A)
Chamber Contained Standard	Meet the requirements of ISO10648-2 standard

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

02



SRMG Series High Containment High Shear Mixer

Structral Features

Purpose

Working Principle

Technical parameters

Structural Features

- ◆ Ratio of the diameter of the pot body and height make the granules forming effect is more uniform, and the granules forming reproducibility is good.
- ◆ The gap between the pot body and the stirring paddle is controlled within 1.5mm, and the bottom of the pot has no material residue.
- ◆ Inlet air control valve uses proportional adjustment.
- ◆ The determination system of the end point of granulation ensures the reproducibility of granulation reliably.
- ◆ WIP system assures cleaned, no dead corner.
- ◆ Good containment, contained grade achieve OEB4 standard.
- ◆ Feeding with A/B valve docking.
- ◆ Wet granulation is equipped with a negative pressure exhaust system, and the exhaust air through efficient filtration.
- ◆ All dynamic sealing systems, such as pot cover sealing, mixing shaft sealing, granulating cutter shaft sealing all adopts double sealing, sealing state can be monitored.
- ◆ Equipped with power off and gas off protection measures to ensure that the equipment will not leak in the case of sudden power off and gas off.
- ◆ Optional explosion-proof design, can provide Ex II B (explosive gas) and Exa21 /B21 combustible dust) protection grade design.
- ◆ The machine complies with FDA/ cGMP production requirements.
- ◆ The machine can provide anti-1 Obar detonation design according to the needs of users.

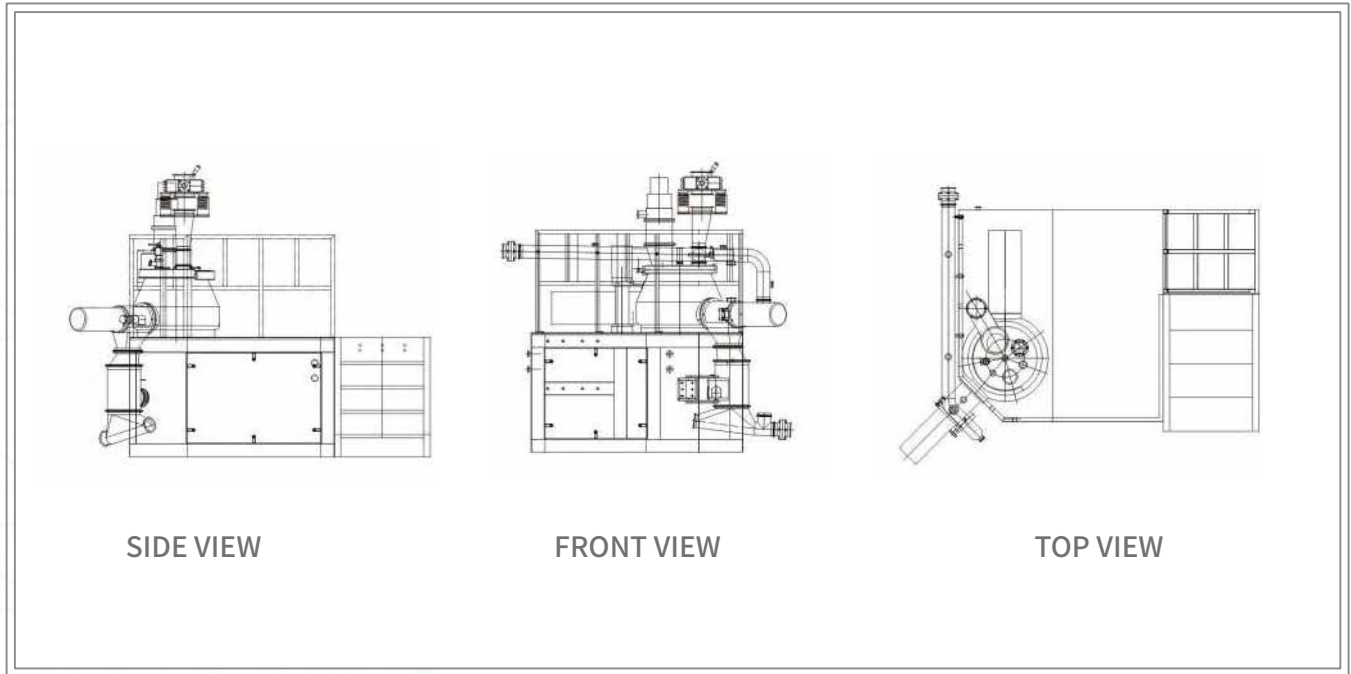
Purpose

- ◆ LHSG-HC series of high closed wet granulator is suitable for the production of anti-cancer, high sensitization and other kinds of particles that have certain harm to the normal human body, such as tablets, capsules, granules, etc. It has a variety of functions such as mixing and granulation equipment.

Working Principle

- ◆ Material is fed into granulating pot through material feeding lifter, after impeller centrifugal force function, the pressure for the dosing system will be adhesive by spray gun injection, cutting knife highspeed rotating at the same time, the material bonded into a hollow particle in the pot body, after the granulating expect granule machine, and then through the vacuum pipeline airtight transportation into the fluidized bed drier.

Technical Parameters



Model	Main Dimension			Feeding Quantity (Kg/Batch) (Material Bulk Density 0.5Kg/L)	Impeller Power (KW)	Chopper Power (KW)	Milling Power (kW)
	L	Y	W				
SRMG-100	2100	1650	2800	20-40	11	3	3
SRMG-200	2600	1900	2950	40-80	18.5	3	4
SRMG-300	3000	2090	3530	60-120	22	5.5	5.5

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

03



FBD Series High Containment Fluid Bed Dryer

Structral Features

Purpose

Working Principle

Technical parameters

Structural Features

- ◆ Wall-through design provides the best design to meet the requirements of cleaning, maintenance and explosion protection.
- ◆ The equipment has the function of contained sampling.
- ◆ The main machine adopts the three-section chamber, the air filling sealing between the chamber body, C type flange interlock, so that the whole chamber body has higher pressure resistance. At the same time, the bottom bin can be moved to facilitate the thorough cleaning of the parts from the butterfly valve to the clean area.
- ◆ Unique air inlet process treatment system, can provide a variety of configurations to meet customer needs.
- ◆ Unique exhaust process system design, exhaust standard up to OEB4 level, at the same time, the filter replacement by bag-in- bag-out way can effectively prevent dust leakage to human body damage when replacing the filter.
- ◆ The machine is equipped with WIP cleaning system, and the cleaning ball in direct contact with the product is telescopic cleaning ball.
- ◆ With power and gas protection function, to prevent accidents resulting in product leakage.
- ◆ Programmable Logic Controller (PLC) and PC-based options provide a wide range of formulation processing, data acquisition and network communication capabilities.
- ◆ The machine complies with FDA/cGMP production requirements.
- ◆ The machine can provide anti-1 Obar detonation design according to the needs of users.

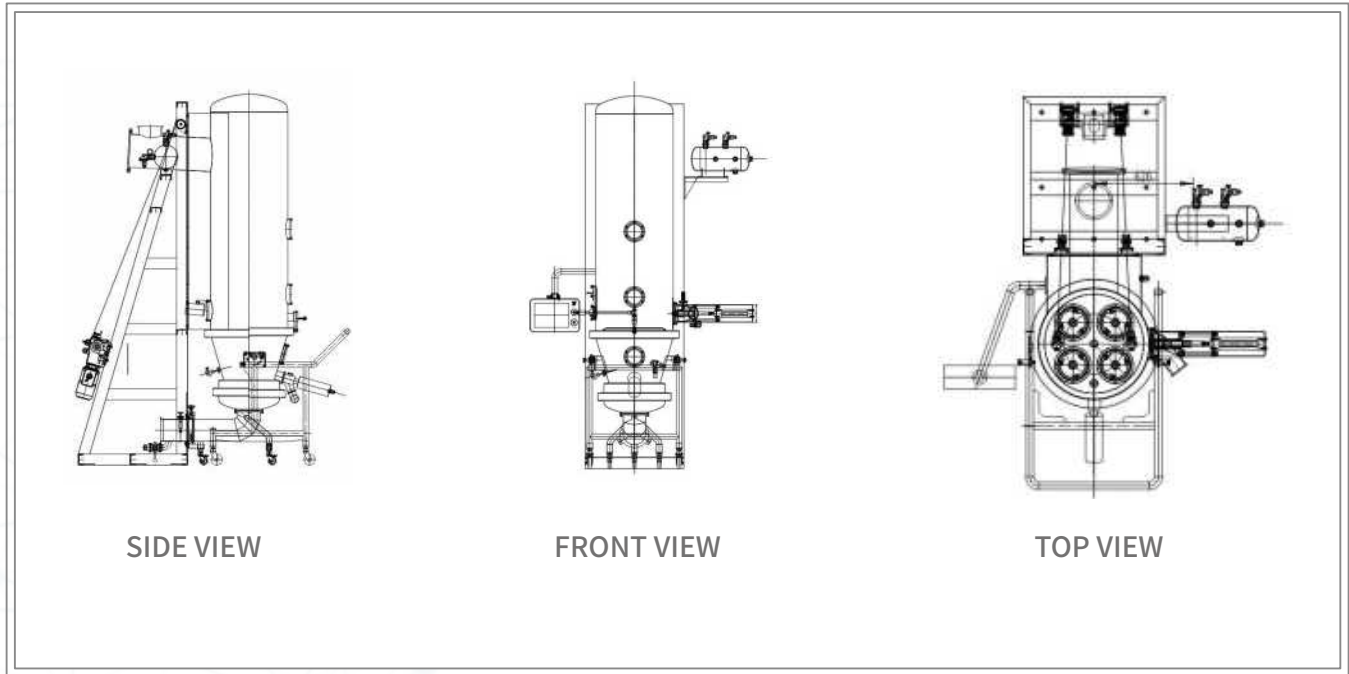
Purpose

- ◆ FBD-HC series fluidized bed dryer is a kind of process equipment suitable for drying and granulating of highly toxic and active drugs.

Working Principle

- ◆ After the air is purified and heated, taken in by the induced draft fan to enters from the lower part of the fluidized bed dryer and passes through the airflow distribution plate of the material silo to make the wet particles fluidized in the raw material container. After the particles are preheated and mixed, the water in the particles evaporates. This process is repeated continuously to form ideal and uniform dry granules. The device is also suitable for the production of some active drugs with containment grade of up to OEB4(1-10 μ g/m³) due to the addition of some sealing safeguards in the long term.

Technical Parameters



Item		Unit	SFBD-30	SFBD-60	SFBD-120
Product Container Volume		L	100	230	420
Production Capacity (Bulk Density 0.5Kg/L)		Kg/L	30	60	120
Steam	Pressure	Mpa	0.4-0.6	0.4-0.6	0.4-0.6
	Consumption	Kg/h	120	180	320
Compressed air	Pressure	Mpa	0.4-0.7	0.4-0.7	0.4-0.7
	Consumption	m ³ /h	2.5	5	8
Fan Power		KW	18.5	22	30
Outline Dimension	O	mm	700	900	1000
	H	mm	3400	3800	4500
	L	mm	900	1100	1200
	W1	mm	1000	1100	1100
	W2	mm	1500	1700	1800

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

04

NTKZ-HC Series High Containment Vacuum Discharging Milling Machine

Structral Features

Purpose

Working Principle

Technical Parameters



Structural Features

- ◆ The main machine adopts the advanced design concept of SAR LABORTECNIC, which can be used online with the fluidized bed dryer.
- ◆ Reduce the labor intensity, the material can reach 100% rotation.
- ◆ Lifting system adopts hydraulic device, safe and reliable.
- ◆ The machine is equipped with positioning insurance structure to ensure the safety and reliability of the system.
- ◆ Granulator can be arbitrarily to any working height, convenient for matching and integrating with multiple IBC high containment B valve.
- ◆ Equipment with closed feeding and discharging functions.
- ◆ The height of the granulator can be raised or lowered according to the needs of the production process, to meet the needs of the user's production process, effectively avoid dust and cross contamination. Completely comply with GMP requirements for drug production.
- ◆ The machine can be replaced with different specifications of the screen.
- ◆ The machine is equipped with advanced WIP cleaning system.
- ◆ The machine complies with FDA/ cGMP production requirements.

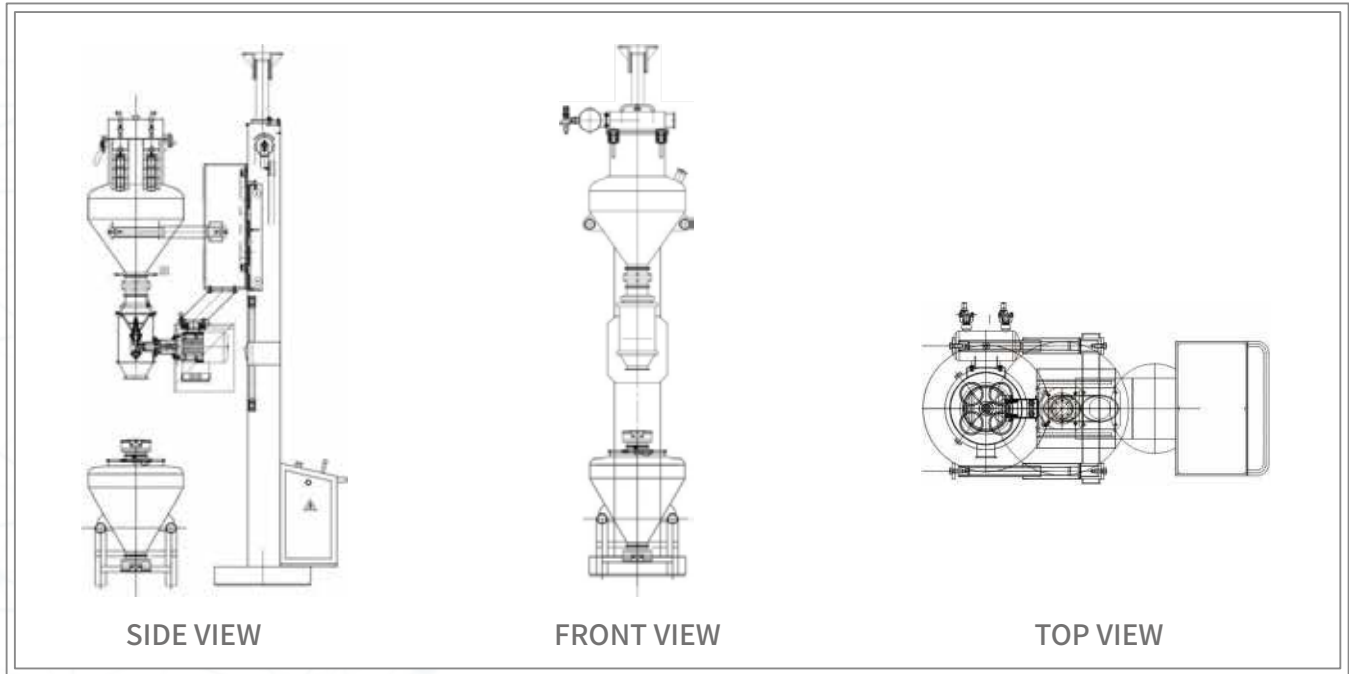
Purpose

- ◆ This machine is a process equipment which is suitable for high toxic and high potent API. It has the ability to sort out uniform and qualified granules according to the process requirements after granulation.

Working Principle

- ◆ The machine absorbs the granule into the buffer tank through the vacuum feeder, and the granule flows into the cavity of the granulator from the buffer tank. The granule is discharged through the screen hole after strike, extrusion and shears by the granule knife in the cavity, and then flows into the hopper through the discharge port of the guide cylinder and opens the high containment AB valve.

Technical Parameters



Model	Main Dimension							(L) Slow Barrel Volume	(KW) Tata I Power	(Kg/h) Capacity
	L	L1	W	W1	H	H1	DN			
SNTKZ-100HC	1800	945	700	750	3600	3400	150	40	6.2	100
SNTKZ-200HC	2150	960	700	750	3800	3600	200	80	6.2	200
SNTKZ-300HC	2400	975	700	750	4000	3800	200	120	6.2	300

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

05



HDD-A Series Single-Column Bin Blender

Features and Highlights

Purpose

Working Principle

Technical Parameters

Structural Features

- ◆ The machine adopts the advanced design concept of SAR LABORTECNIC Company, featured by reasonable structure, stable performance and simple operation.
- ◆ With small floor space and low dead weight, the machine is suitable for installation on the floor.
- ◆ The machine is provided with the in-place material distribution function after mixing, which provides convenience for the optimization of production processes.
- ◆ It is provided with perfect safety protection system. The rotation is stable and reliable without vibration.
- ◆ It adopts PLC and human-machine interface automatic control.
- ◆ It is also provided with the infrared safety device.
- ◆ It meets FDA/cGMP requirements.

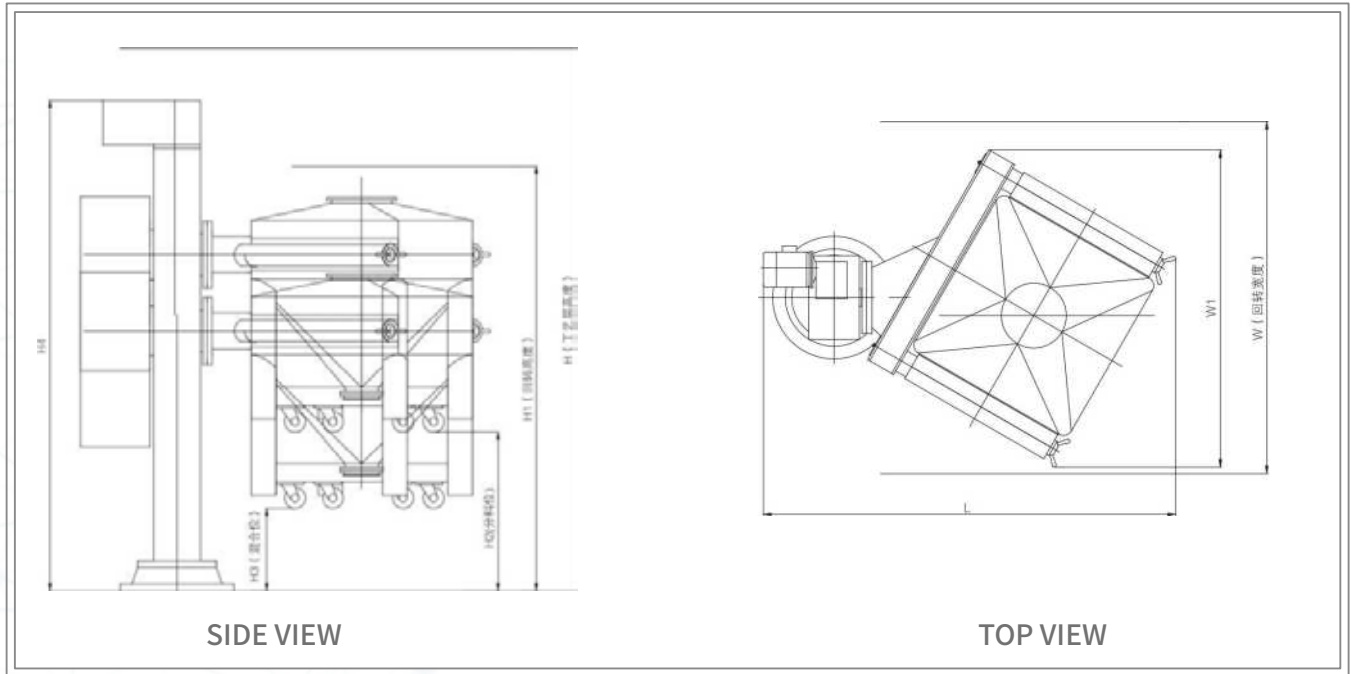
Purpose

- ◆ The machine is widely used in such industries as pharmaceutical, food, chemical industry, dairy products, etc. Its structural performance has reached the level of similar international products.

Working Principle

- ◆ Push the mixing hopper into the gyrator arm and lock the nut. Start the control system and lift the hopper to the mixing height. The control system will carry out automatic mixing according to the set time, rotation speed and other data. After the mixing operation is finished, it is positioned at the horizontal position. The hopper will automatically fall to the ground, the machine will stop and process data will be printed. Loosen the locknut of the gyrator arm, and push the hopper out and transfer it to the next procedure.

Technical Parameters



Model	(mm)Main Structure Dimensions								(rpm) Rotation RPM	(Kg) Net Load	(kW) Total Power	(Kg) Machine Weight
	L	W	W1	H	H1	H2	H3	H4				
SHDD200A	2250	1800	1200	2500	1950	800	350	2300	2-15	100	5.2	700
SHDD400A	2540	2100	1450	2800	2250	800	350	2400	2-15	200	5.2	1100
SHDD600A	2660	2400	1585	2800	2450	800	350	2500	2-15	300	5.2	1400
SHDD800A	2820	2500	1730	2800	2650	800	350	2500	2-12	400	7.7	1700
SHDD1000A	3040	2700	1840	3100	2800	800	450	2900	2-12	500	7.7	2100
SHDD1500A	3100	3400	2220	3500	3100	1100	400	3300	2-12	800	10.5	3000

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

06



High Containment Automatic High Speed Tablet Press Machine, Type HL-35-HC

Features and Highlights

Technical Highlights

Compliance: Full Compliance With 21CFR Part 11

Purpose

Working Principle

Safety

Technical Parameters

Structural Features

In the production process, the contained turret chamber will make parts and space inside the contained turret chamber isolated from the outside, eliminate the production of dust leakage; After the completion of production, the turret chamber as a full assembly which are in contact with powder or granules shall be completely removed for off-line cleaning to prevent the pollution of the powder or granules to persons and the surrounding environment.

Technical Highlights

Safety: the whole process design, eight key processes make users feel at ease.

- ◆ AB valve + standby emergency measures to reduce the risk of powder leakage. User benefit: Operator safety;
- ◆ The turret chamber is sealed by special silica gel sealing parts. From material entering to tablet output, the turret chamber is designed by frame type sealed chamber. The special PUIH-PUSH dust collection device is used to keep negative pressure inside the contained chamber. Benefits for users: the dust in the contained chamber will not leak and avoid damage to the operators;
- ◆ The three channels of good tablets, sampling tablets and bad tablets are independently controlled and connected with the contained turret chamber. For sampling, the circulation channel of tablets is connected with an internal hard pipe and protected by external continuous liner. Benefits for users: no leakage risk of powder or granules.

Purpose

- ◆ The machine is widely used in such industries as pharmaceutical, food, chemical industry, dairy products, etc. Its structural performance has reached the level of similar international products.

Working Principle

- ◆ High-speed tablet presses are frequently highly automated devices with control systems to handle and keep an eye on a number of factors, including speed, weight, and compression force. The production efficiency and uniform tablet quality are maintained by this automation.

Safety: The high containment OEB4 design can be supplied with ISPE SMEPAC test reports.

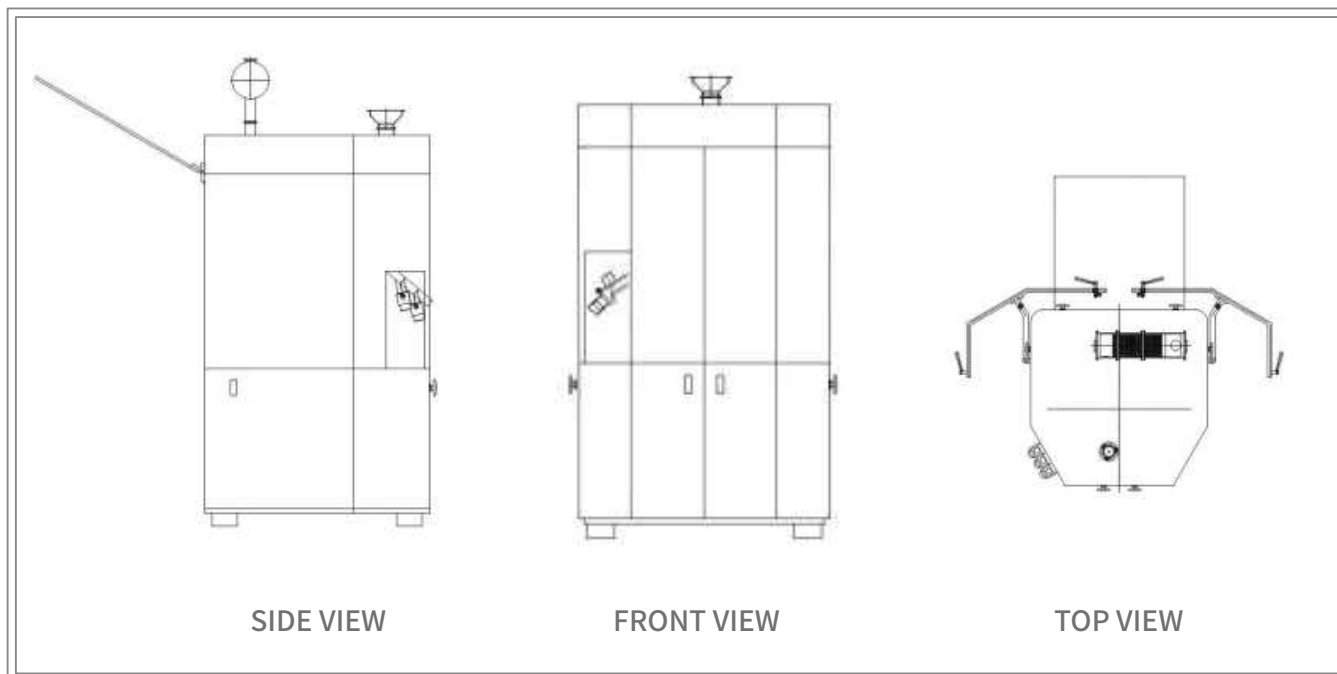
Safety: periodic, automatic contained turret chamber leakage confirmation

- ◆ According to the preset time, automatic contained turret chamber leakage confirmation test is performed, the benefits of the user: to ensure the safety of the production process without leakage, and operations are simple and easy to execute.
- ◆ The contained turret chamber together with moulds and track are transferred to the cleaning room by the trolley for cleaning. Benefits for users: turret, guide rail, mould and dust collection, tablet output chute assembly and other components constitute a contained module, the whole transfer to the cleaning room for thorough cleaning; User benefits: cleaned without dead corner.

Cost: the replaceable design of the turret, through the replacement of the turret, it produces a variety of specifications

- ◆ The turret is replaceable. Benefits for users: less investment, wide range of tablet production coverage, avoiding repeated major investment in equipment and clean rooms;
- ◆ The turret is replaceable. Benefits for users: less investment, wide range of tablet production coverage, avoiding repeated major investment in equipment and clean rooms;

Technical Parameters



Airtight Level		WOEB4		
Punch		21	25	35
Punch Type		D	B	BB
Capacity(tablets/hour)	Max	108,000	120,000	168,000
	Min	27,461	32,812	45,500
Speed (RPM)		22-80		
Max. Tablet Diameter (mm)		25	16	13
Max. Irregular Tablet Length (mm)		25	19	16
Middle Die (mm)		38.1	30.16	24
Punch Diameter (mm)		25.35	19	19
Punch Length (mm)		133.6		
Turret Diameter (mm)		324		
Filling Depth (mm)		5 ~ 8 (Tablet thickness: 2 ~ 3.5)		
		4.5 ~ 12 (Tablet thickness: 3 ~ 5)		
		8.5 -16(Tablet thickness: 5 ~ 7)		
		12.5 ~20 (Tablet thickness: 7 ~ 8.5)		
Motor Power (KW)		7.5		
Main Compression (KN)		100		
Max. Pre-Compression (KN)		100		
Weight (Kg)		3500		
Dimensions (mm)		1184(L) x 1176(W) x 2000(H)		

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

Compliance: Full Compliance With 21CFR Part 11

- ◆ User management and permission control
- ◆ Audit trail;
- ◆ Electronic records;
- ◆ Electronic signature;
- ◆ Data export and backup;
- ◆ Disaster recovery;
- ◆ Advanced and convenient humanized control system;
- ◆ Built-in Windows operating system.

Quality: full servo motor control, tablet weight adjustment is quick and accurate Efficiency: the design of the contained compartment with the punch plate, the smallest sealed volume, the lowest leakage risk and the least cleaning workload.

- ◆ Only the part of the punching plate is designed to be sealed. User benefits: contained chamber exposure leakage probability is small, less powder left, batch yield is high.
- ◆ The punch plate is completely loosened with the main shaft, and then it is lifted up by the special swing arm mechanism, removed, and moved to the special cart.



07

High Containment Automatic Tablet Press Machine, type GZP-265-HC

Structural Features

Technical Highlights

Purpose

Working Principle

Technical Parameters

Structural Features

- ◆ HMI centralized visual interface control tablet press, high contained auxiliary machine and B10 utilities, comply with 21CFR Part 11.
- ◆ Omni-directional integrated solution ensures the flow of powder or granules and tablets according to the pressure cascade, clean completely without dead Angle, emergency power failure, stop the compressed air still maintain high containment.
- ◆ Full contained design of the upper and lower inflatable seal plate, can be water sprayed online, washing in place, the pressing chamber area is completely isolated from the main drive area.
- ◆ The machine can be used from production purpose to lab purpose by changing moulds, avoid expensive repeated investment, high utilization rate.
- ◆ Minimum leakage risk, minimum cleaning effort; Miniaturized dosing feeder design achieve very low batch remaining powder which is less than 100g

Technical Highlights

- ◆ AB valve + backup emergency measures to lower powder leakage risk, user benefits: operator safety;
- ◆ The punching plate is sealed by the gas barrier protection and the inflatable seal strip. The user's benefit: the dust in the sealed cabin will not leak and avoid damage to the operator;
- ◆ Negative pressure is maintained inside the sealed cabin by a special push-push dust collection device. Reduce the pollution space of powder, later cleaning is convenient, easy to operate ;
- ◆ The slanting Angle design of tablet press large plate drainage is more conducive to cleaning and reduce the cleaning workload;
- ◆ Full contained design of the upper and lower inflatable seal plate, can be sprayed on line, washing in place, the pressing chamber area is completely isolated from the main drive area.

Purpose

- ◆ Tablet press is mainly used for tablet production and lab R&D in pharmaceutical industry. Tablet press doses and press powder or granules into different diameters of the round, irregular and with words, symbols, graphics, automatic continuous production equipment.

Working Principle

- ◆ The Powder or granules are added into the contained tablet pressing chamber through the lifting machine, and the powder or granules in the mold are pressed into tablets through the upper, middle and lower molds. Collect tablets into a continuous bag or finished product drum by continuous liner.

Technical Parameters

Punch		16	23	30
Punch Type		-	-	BB
Capacity(tablets/hour)	Max	105000	151000	198000
	Min	21000	30000	39000
Speed (RPM)		198000		
Max. Tablet Diameter (mm)		25	16	13
Max. Irregular Tablet Length (mm)		25	19	16
Middle Die (mm)		38.1	30.16	24
Punch Diameter (mm)		25.35	19	19
Punch Length (mm)		133.6		
Turret Diameter (mm)		265		
Filling Depth (mm)		5 ~ 8 (Tablet thickness: 2 ~ 3.5)		
		4.5 ~12 (Tablet thickness: 3 ~ 5)		
		8.5 -16(Tablet thickness: 5 ~ 7)		
		12.5 ~ 20 (Tablet thickness: 7 ~8.5)		
Main Compression (KN)		100		
Max. Pre-Compression (KN)		14		
Weight (Kg)		1200		
Contained Grade		OEB4		
Noise (dB)		W 75		
Containment Vacuum (Pa)		-60-80		
Power		380VAC, 50Hz, 7KW		
Transfer Window Dimension (mm)		0 250 x 180		
Dimension (mm)		1131(L)x750(W)x2011 (H)		

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

08

High Containment Automatic Uphill Tablet De-duster, type SZ-300B-HC

Structral Features

Features And Highlights

Purpose

Working Principle

Technical Parameters



Structural Features

- ◆ High position tablet output chute, lifting and polishing at the same time;
- ◆ Tablets through a multi-layer screen from bottom to top movement, with the function of turning tablets, tablet surface smooth, good powder removal effect;
- ◆ Full contained design, no material leakage during operation;
- ◆ Integrated cleaning nozzle, efficient manual cleaning;
- ◆ The production speed can be adjusted continuously;
- ◆ •Comply with cGMP requirements, reasonable structure, stable performance, easy to operate.

Features And Highlights

- ◆ The inlet and outlet of finished products are connected with internal hard pipes and protected by continuous liner. Benefits for users: no leakage risk of powder, forming an integrated gravity gradient and pressure cascade, no risk of tablet accumulation, hard tube sealing connection + external continuous liner sealing protection is double sealing protection;
- ◆ The powder tray is sealed by the inflatable seal strip and the positive pressure barrier, and no dust will enter the transmission system during the production process;
- ◆ Pressure regulator valve seal check, can quickly and reliably judge the sealing situation;
- ◆ •Special bag in bag out vacuum mechanism, easy to operate without risk.

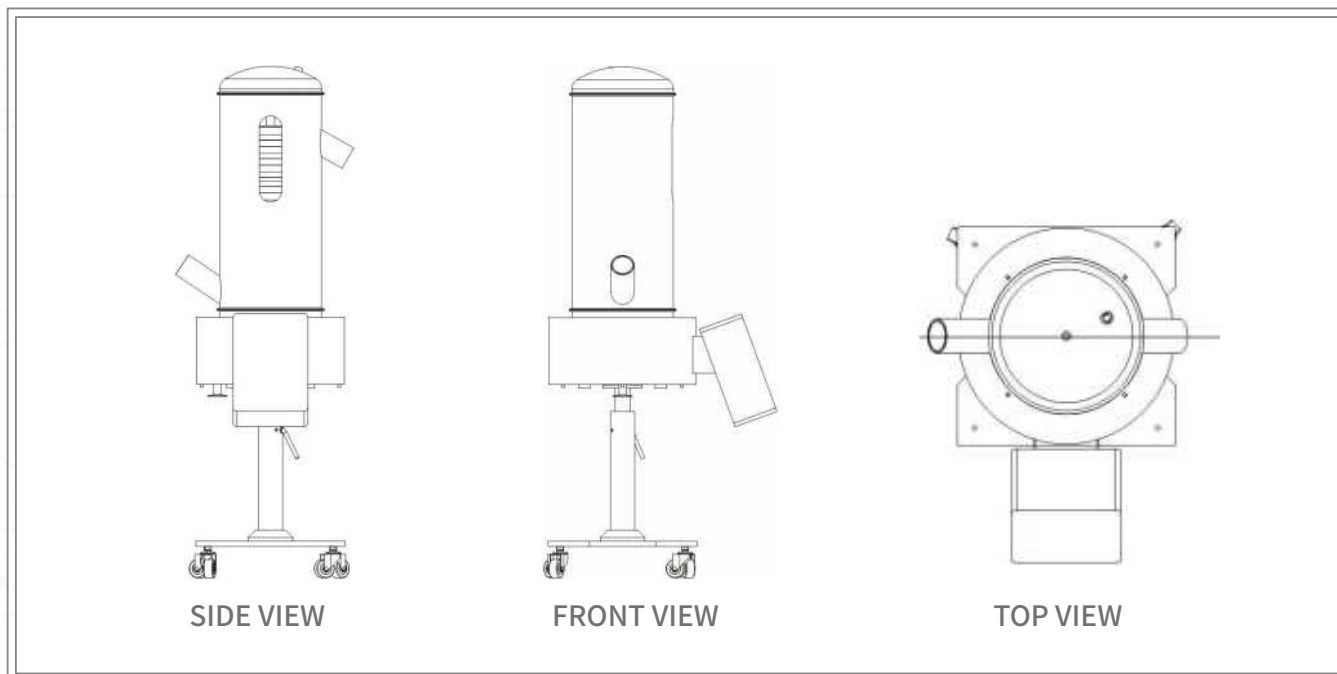
Purpose

- ◆ SZ-300B-HC High Containment Automatic Uphill Tablet De-duster is specially developed for pressing anti-cancer drugs, hyper allergenic drugs and other harmful products to the human body and the environment. The machine has the dual performance of tablet lifting, tablet surface polishing and dust removal.

Working principle

- ◆ Push the mixing hopper into the gyrator arm and lock the nut. Start the control system and lift the hopper to the mixing height. The control system will carry out automatic mixing according to the set time, rotation speed and other data. After the mixing operation is finished, it is positioned at the horizontal position. The hopper will automatically fall to the ground, the machine will stop and process data will be printed. Loosen the locknut of the gyrator arm, and push the hopper out and transfer it to the next procedure.

Technical Parameters



Max. Tablet Diameter (mm)	①25
De-dusting Distance (m)	6.2
Production Capacity (tablets/h)	1000000 (08)
Electricity Power	220V/110V 50Hz/60Hz 1P
Compressed Air	0.1 m3/min 4bar
Vacuum	2.5m3/min, -0.4bar
Weight (Kg)	85
Dimensions (mm)	480(L) x 620(W) x 1350-1 500(H)
Contained Grade	OEB4

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

09

High Containment High Efficiency Coating Machine, type BGM40-HC

Features and Highlights

Purpose

Working Principle

Technical Parameters



Structural Features

- ◆ The main machine adopts the design of material delivery and coating separation;
- ◆ The equipment has the function of contained coating sampling;
- ◆ The equipment has the reverse discharging function;
- ◆ The equipment has the function of contained discharging;
- ◆ Inlet air control valve uses proportional adjustment;
- ◆ Inlet air heating system can choose electric heating, steam heating, steam and electricity dual use of three heating methods;
- ◆ The machine is equipped with advanced WIP cleaning system;
- ◆ Exhaust system is equipped with pulse dust collector and high efficiency filter, all using bag-in-bag-out design;
- ◆ The machine complies with FDA/ cGMP production requirements.

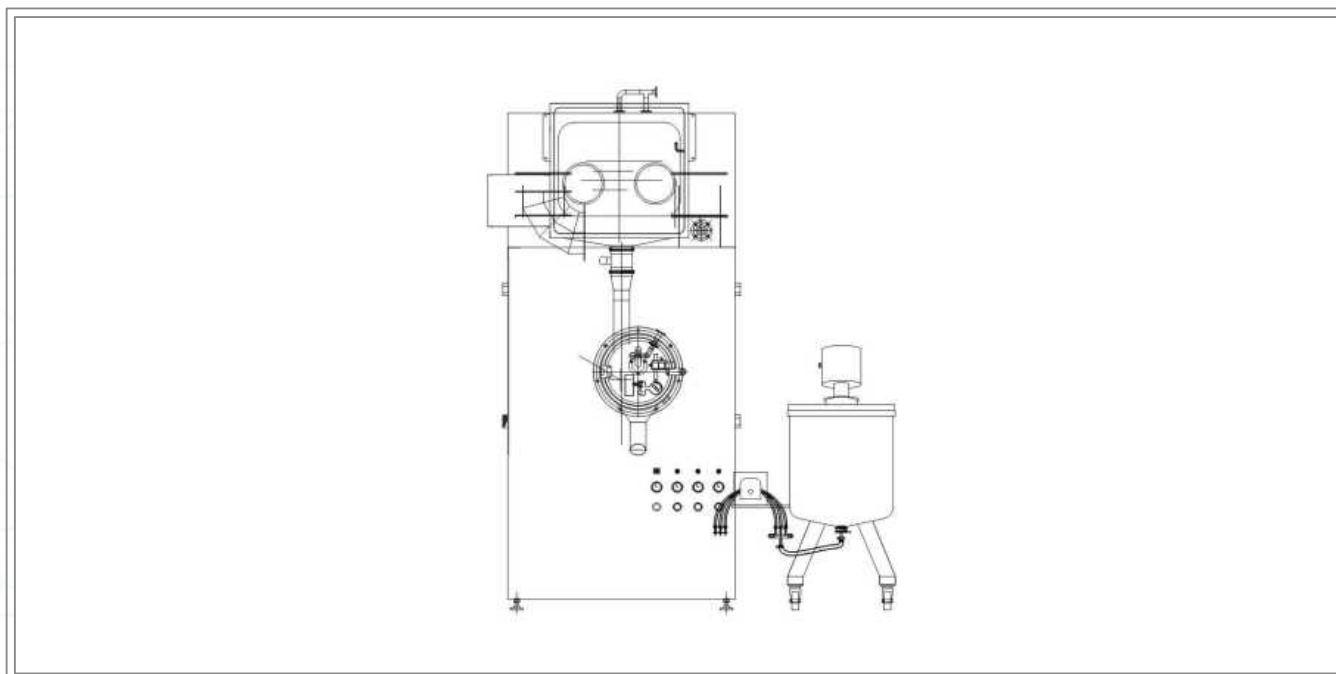
Purpose

- ◆ BGM40-HC high containment high efficiency coating machine is mainly used for the coating of highly active tablets in the pharmaceutical industry, suitable for the coating of products including hormones, anticancer drugs and other products, is a safe, efficient, clean, suitable for toxic substances, compliant with the requirements of GMP coating equipment.

Working Principle

- ◆ The main machine is divided into two parts, the upper part is the feeding isolator, the lower part is the main body of the coating machine; The tablets are transferred to the feed port of the isolator, the tablets contained in LDPE bags are transferred to the isolator through the gloves on the isolator, and then following the feed pipe, tablets are put into coating pot by gravity; The lower part is the main body of the coating machine, and a contained sampler is installed on the window. The material is discharged by reversing the coating pot, and then coated tablets are discharged by continuous liner. During the coating process, stable and reliable negative pressure can be formed in the cabin body. According to different project requirements can reach OEB3 - OEB5 protection level.

Technical Parameters



Max.Output	40Kg/lot (depending on the actual material type)
Speed	2~17r/min
Opening Rate	40%
Drum Diameter	0800mm
Temperature Regulation Range	240mm
Chamber Vacuum (Pa)	-20—500Pa
Compressed Air Consumption	40m ³ /h
Compressed Air (Kg)	6Bar
Host Power	1.1 Kw
Connected Load	20kW
Mainframe Dimensions	1300(L) x 1600(W) x 2550(H)
Main Weight	800Kg

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

10

High Containment Automatic Capsule Filling Machine, Type NJP-800A-HC

Features and Highlights

Purpose

Working principle

Technical parameters



Structural Features

- ◆ HMI centralized visual interface for controlling filling machines, high contained auxiliary machines and BIBO utilities, comply with 21CFR PART11;
- ◆ Omni-directional integrated program to ensure the flow of materials and capsules, clean completely without dead corners, emergency power failure, stop compressed air still maintain high containment;
- ◆ The pneumatic sealing strip of the turntable is fully contained design, which can be sprayed online, and the filling room area is completely isolated from the main drive area;
- ◆ The machine can be used from production purpose to lab purpose by changing moulds, avoid expensive repeated investment, high utilization rate;
- ◆ Minimum leakage risk, minimum cleaning effort;
- ◆ Main machine and auxiliary machine use special bag into bag out of the vacuum mechanism, easy to operate without risk;

Technical Highlights

- ◆ AB valve + backup emergency measures to lower powder leakage risk, user benefits: operator safety;
- ◆ The part of the turntable is sealed by gas barrier protection and inflatable seal strip. The benefits of the user: the dust in the sealed cabin will not leak and avoid damage to the operator;
- ◆ Negative pressure is maintained inside the sealed cabin by a special push-push dust collection device. Reduce the pollution space of powder, later cleaning is convenient, easy to operate;
- ◆ Machine main plate drainage inclination angle is designed, no dead corner, more conducive to cleaning, reduce the cleaning workload;
- ◆ Empty capsule sealing feeding;
- ◆ Die hole cleaning multi-function;
- ◆ Innovative design of empty capsule in closed space;

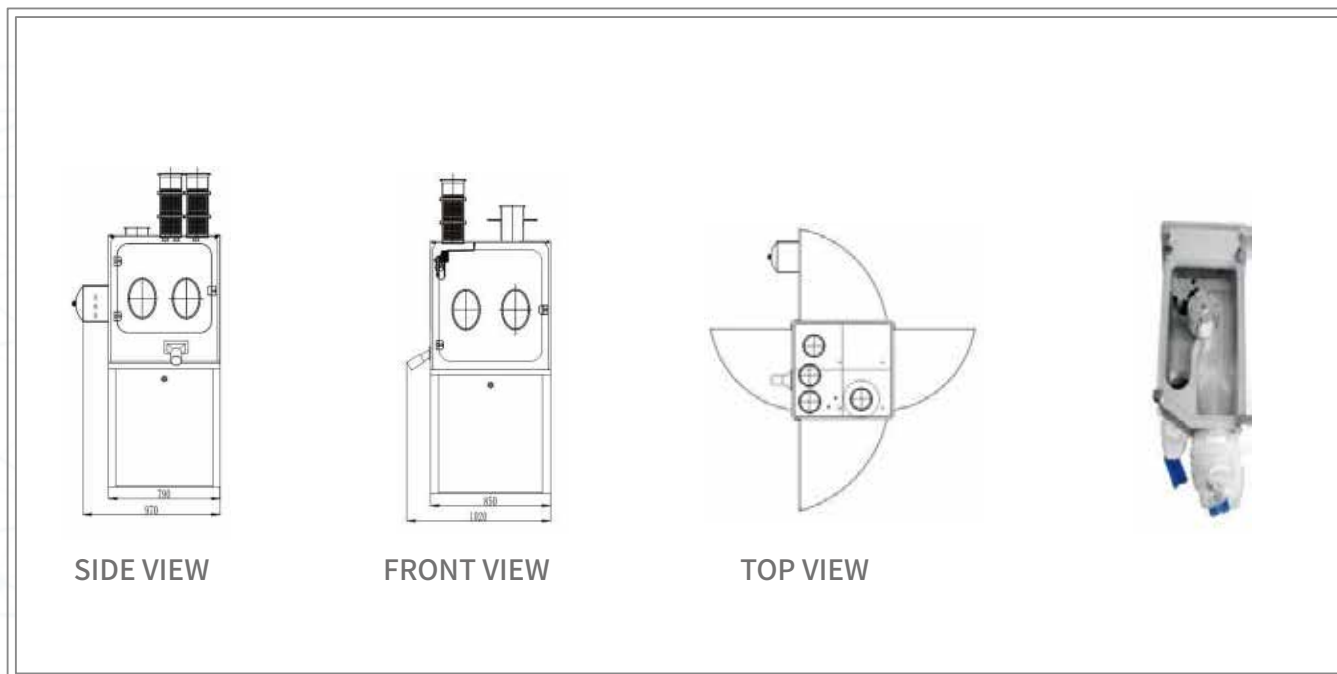
Purpose

- ◆ The main function of the automatic hard capsule filling machine is to automatically fill powder into the hard capsule, equipped with different models of molds, can fill 00-5 capsules, the speed can be adjusted according to the need.

Working principle

- ◆ Automatic hard capsule filling machine adopts intermittent movement and multi-station hole plug metering method, which can automatically complete the capsule filling process of hard capsule, such as turning around, separating capsule, filling, removing waste, closing capsule, pushing out finished product, etc

Technical Parameters



Contained Grade	OEB4
Production Capacity (capsules/min)	W 800 grains/min
Molds capacity	7
Capsules format	00# ~ 5#
Capsules acceptance	99.9%
Filling accuracy	W 3%
Noise (dB)	W75
Containment Vacuum (Pa)	-60~-80
Compressed air (bar)	a6
Power	380VAC, 50Hz, 7kw,
Transfer Window Dimension (mm)	0250x180
Containment Inner Dimension (mm)	750(L)x 810(W)x 860(H)
Dimension (mm)	1020(L) x 970(W)x2150 (H)
Expanded size (mm)	2200(L) x2264(W) x2150 (H)
Weight (Kg)	1000

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

11

High Containment Vertical Capsule Polisher, type VCP-I-HC



Structral Features

Technical Highlights

Purpose

Working Principle

Technical Parameters

Structural Features

- ◆ High position capsule output chute, lifting and polishing at the same time;
- ◆ Double layer polishing cylinder, so that the capsule polishing effect is better;
- ◆ Full contained design, no dust leakage during operation;
- ◆ Integrated cleaning nozzle, efficient manual cleaning;
- ◆ Install a vacuum gauge on the operating panel to monitor the contained condition;
- ◆ Comply with cGMP requirements, reasonable structure, stable.

Technical Highlights

- ◆ The inlet and outlet of finished products are connected with internal hard pipes and protected by continuous liner. Benefits for users: no leakage risk of powder, forming an integrated gravity gradient and pressure cascade, no risk of tablet accumulation, hard tube sealing connection + external continuous liner sealing protection is double sealing protection;
- ◆ Mounting seat cavity adopts dynamic seal; The sealing connection part adopts special design to seal with the sealing device, and is equipped with special vacuum channel to ensure that the dust will not leak during the rising polishing process of the capsule, so as to avoid damage to the operator;
- ◆ The drive shaft is sealed by the sealing ring and the positive pressure barrier, and no dust will enter the drive system in the production process;
- ◆ Special bag in bag out vacuum mechanism, easy to operate without risk;

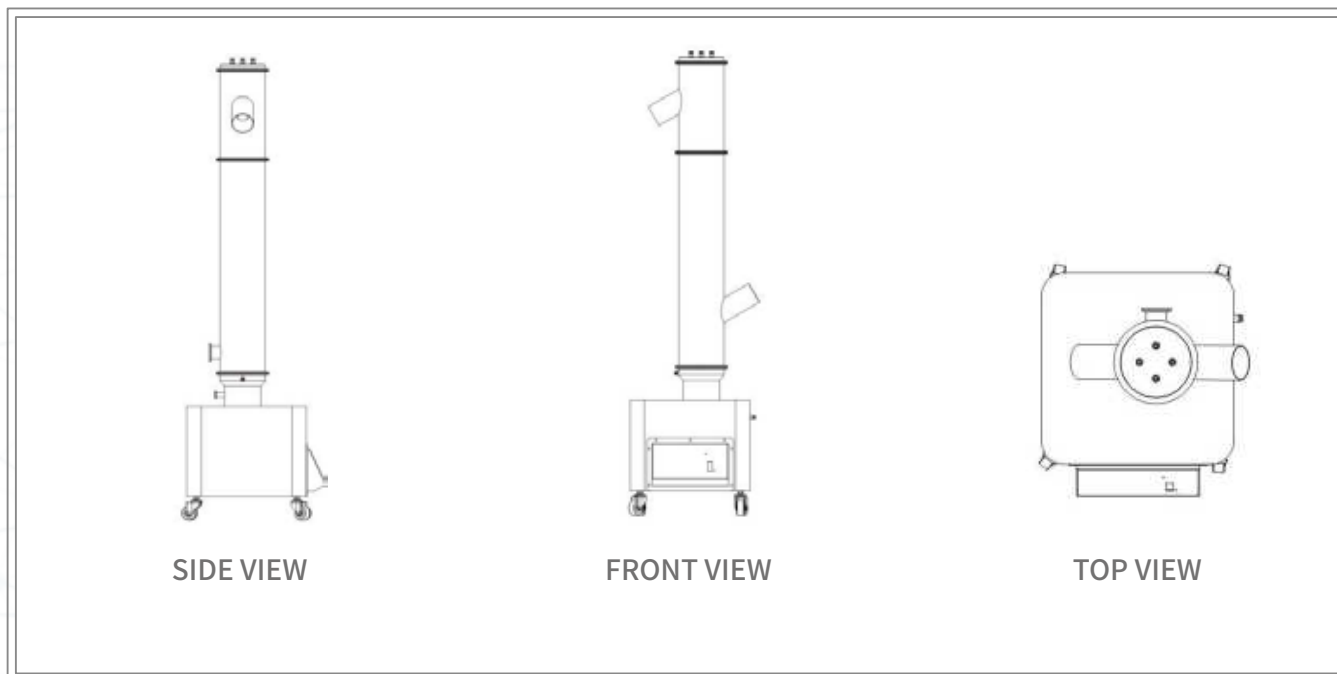
Purpose

- ◆ VCP-I-HC High Containment Vertical Capsule Polisher is specially developed for filling anti-cancer drugs, hyper allergenic drugs and other products with certain harm to the human body and the environment. With dual functions of capsule polishing and lifting, it provides high space for connecting subsequent equipment.

Working Principle

- ◆ The capsule is filled through the capsule polishing machine entrance into the polishing cylinder, in the polishing cylinder, the rotating brush on the surface of the capsule polishing, dust removal, and drive the capsule along the spiral steel wire on the wall of the cylinder upward transmission. The dust produced is removed by the dust collection device. The finished capsule is collected into a continuous liner or finished barrel by means of continuous liner.

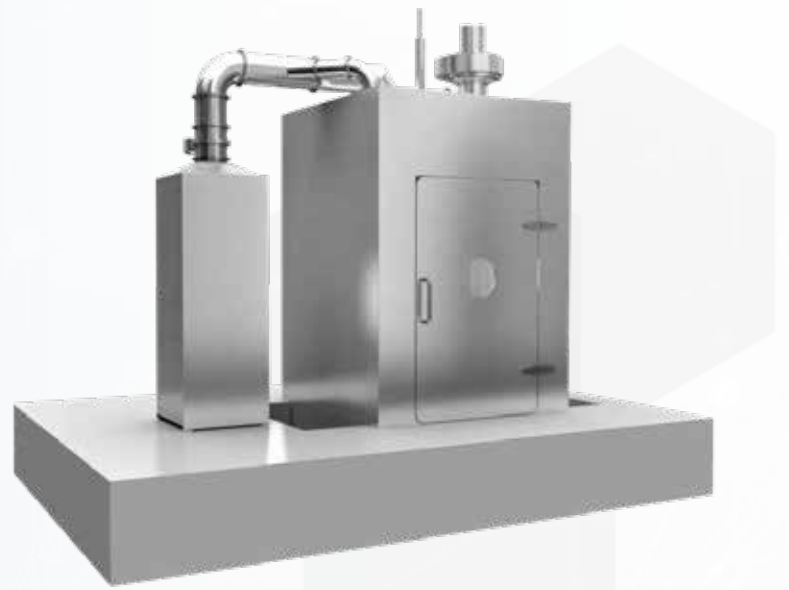
Technical Parameters



Capsules Applicable	00#, 0#, 1#, 2#, 3#, 4#
Production Capacity(capsZh)	420,000
Electricity Power	220VAC, 50Hz, 0.67kw
Compressed Air	400L/min, 4bar
Vacuum	1000L/min, -0.4bar
Weight (Kg)	100
Dimensions (mm)	460(L)x490(W)x 1780(H)
Contained Grade	OEB4

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

12



QD Series High Containment Automatic Cleaning Station

Structural Features

Technical Highlights

Purpose

Working principle

Technical parameters

Structural Features

- ◆ HMI centralized visual interface for controlling filling machines, high contained auxiliary machines and BIBO utilities, comply with 21CFR PART11;
- ◆ Omni-directional integrated program to ensure the flow of materials and capsules, clean completely without dead corners, emergency power failure, stop compressed air still maintain high containment;
- ◆ The pneumatic sealing strip of the turntable is fully contained design, which can be sprayed online, and the filling room area is completely isolated from the main drive area;
- ◆ The machine can be used from production purpose to lab purpose by changing moulds, avoid expensive repeated investment, high utilization rate;
- ◆ The machine can be used from production purpose to lab purpose by changing moulds, avoid expensive repeated investment, high utilization rate;
- ◆ Minimum leakage risk, minimum cleaning effort
- ◆ Main machine and auxiliary machine use special bag into bag out of the vacuum mechanism, easy to operate without risk.

Technical Highlights

- ◆ The machine adopts the most advanced design concept of SAR LABORTECNIC Company, featured by reasonable structure, stable performance and simple operation;
- ◆ The cleaning device is rotary;
- ◆ The machine adopts PLC and human-machine interface control. Authority of control personnel can be set to realize different levels of password management;
- ◆ The machine realizes the purpose of economy and efficiency during the use. Online validation of internal and external cleaning of the vessel is realized;
- ◆ Automatic opening of A/B valve without manual operation;
- ◆ The cleaning process is completely closed, and the dust in the drum is not leaked and the environment is polluted;
- ◆ The cleaning system can be designed separately for various types of vessels according to user requirements;
- ◆ It fully meets FDA/cGMP requirements.

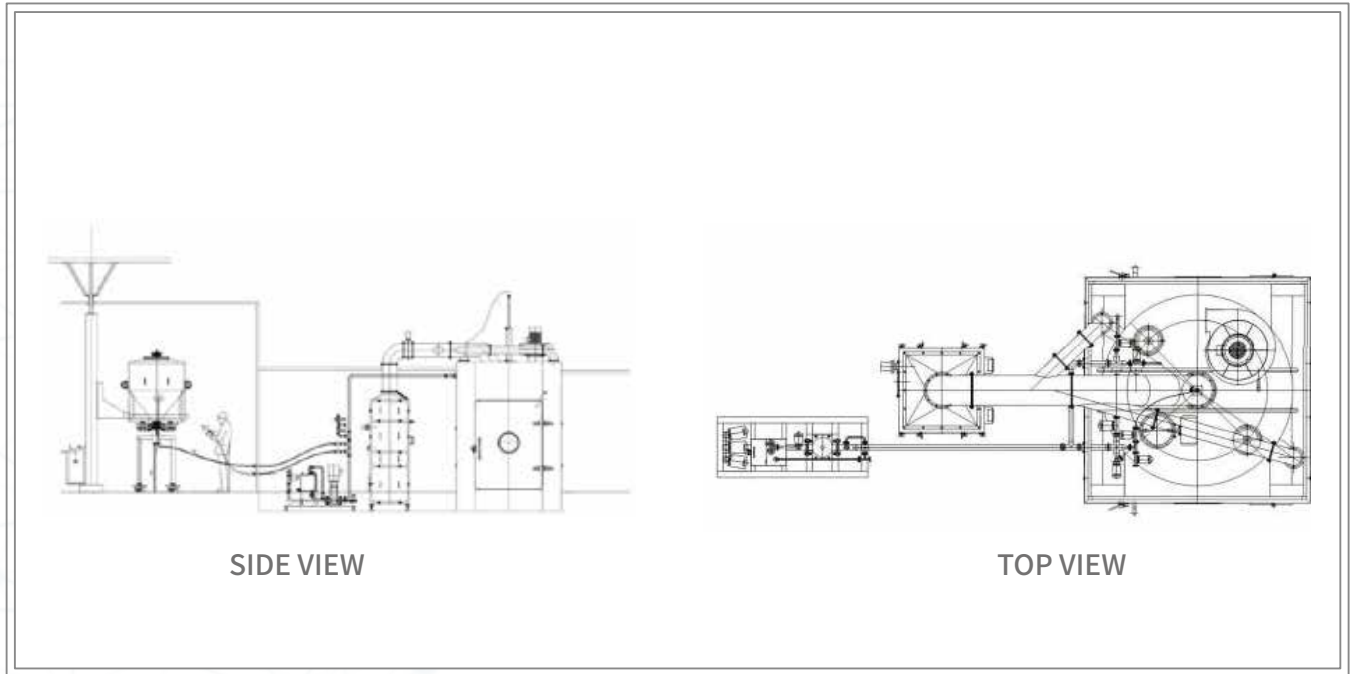
Purpose

- ◆ This equipment is used to clean various barrels with A/B valves with high toxicity and high activity. The structural performance of the machine has reached the advanced level of similar products in the world.

Working Principle

- ◆ Push the container to be cleaned to the cleaning station room and open the cleaning door. After the container enters, it automatically completes tap water high-pressure cleaning, hot water high-pressure cleaning, purified water rinsing, compressed air blowing, hot air drying, cold air cooling and other processes. The cleaning system can be individually designed to meet the actual needs of users according to the different process layouts and processes of each user.

Technical Parameters



Model	Main Dimension				(T)Pump Flow	(kW) Pump Power	(kW) Total Power
	W	H1	H2	H3			
SQD-200-HC	1600	3620	1760	400	12	4	13
SQD-600-HC	2250	3220	1760	400	12	4	13

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

13



JQD -HC Series High Containment Semi-Automatic Cleaning Machine

Structural Features

Purpose

Working principle

Technical parameters

Structural Features

- ◆ The machine adopts the most advanced design concept of SAR LABORTECNIC Company, featured by reasonable structure, stable performance and simple operation;
- ◆ The machine adopts PLC and human-machine interface control. The cleaning operation is simple and convenient, and saves power consumption;
- ◆ A/B valve closed open, manual operation;
- ◆ The cleaning process is completely closed, and the dust in the drum is not leaked and the environment is polluted;
- ◆ The machine realizes the purpose of economy and efficiency during the use. The inside of vessels is cleaned automatically and the outside of vessels is cleaned manually;
- ◆ The cleaning system can be designed separately for various types of vessels according to user requirements;
- ◆ It fully meets FDA/cGMP requirements.

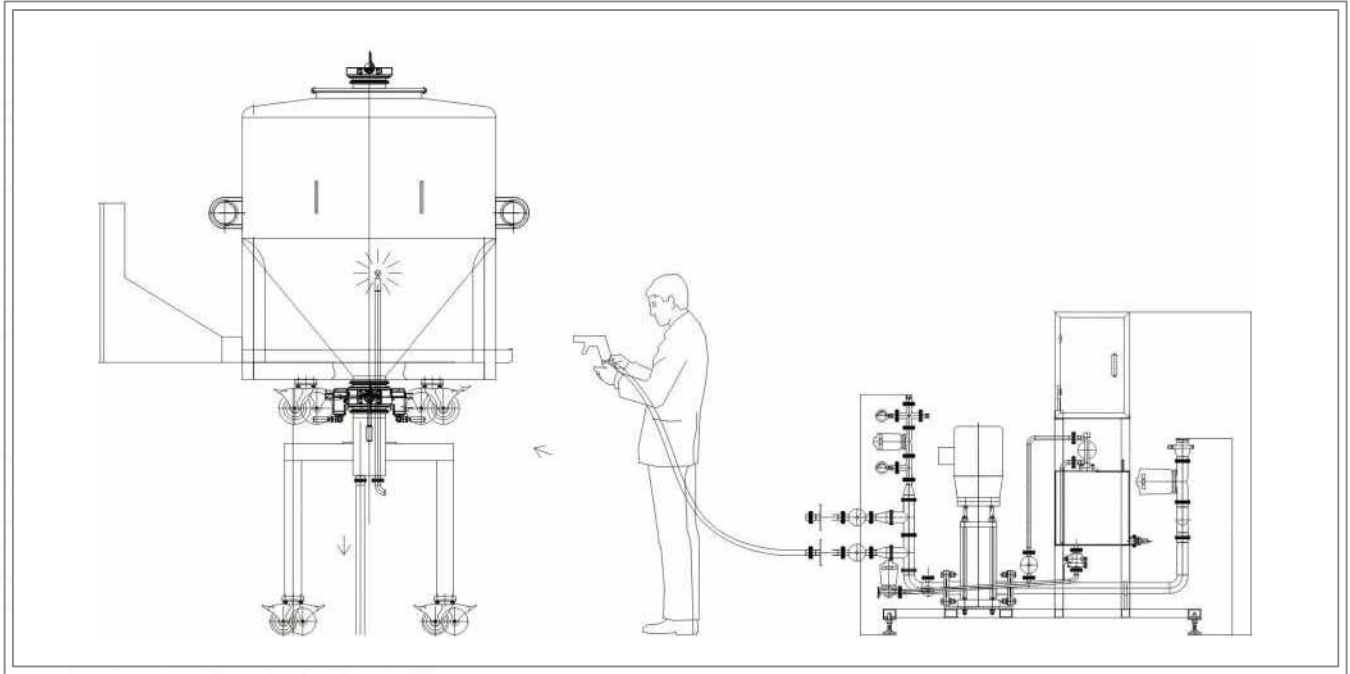
Purpose

- ◆ Application of this equipment is used to clean all kinds of drum with A/B valve with high potent API. This machine is mainly used for automatic cleaning of stainless steel container, external through manual cleaning.

Working Principle

- ◆ After lifting the cylinder above the height of the container to be cleaned, the container is pushed to the lower part of the cylinder through an automatic lifting system A/B and the valve is closed to open to realize docking. After docking and positioning, open the cleaning procedure, automatically clean the container interior; manually clean the container exterior. After cleaning, push the container into other rooms for drying.

Technical Parameters



Model	Main Dimension		(T) Pump Flow	(Kw) Pump Power
	W	H1		
SJQD10	900	2600	10	4

Our company can customize the products according to special requirements of users. Subject to change without prior notice.

14



High Containment Automatic Blister Packing Machine, type GDPH270-HC

Structral Features

Technical Highlights

Purpose

Working principle

Technical parameters

Structural Features

- ◆ HMI centralized visual interface for controlling blister packing machine, high contained auxiliary machines and BIBO utilities, comply with 21CFR PART 11;
- ◆ Clean completely without dead corners, emergency power failure, stop compressed air still maintain high containment;
- ◆ The feeding area can be sprayed online, and the filling room area is completely isolated from the main drive area;
- ◆ The machine can carry out ALU-PVC/ALU-ALU packaging by changing the mold;
- ◆ The lowest risk of leakage, the least amount of cleaning work; •A variety of feeders to meet different types of drug packaging;
- ◆ The equipment has good scalability and can meet a variety of options.

Technical Highlights

- ◆ The use of AB valve or transfer window to transfer materials makes the risk of powder leakage lower, and the user's benefit: the operator is safer;
- ◆ The isolator is sealed by gas barrier protection and inflatable seal strip. The benefits of the user: the dust in the sealed cabin will not leak and avoid damage to the operator;
- ◆ Negative pressure is maintained inside the sealed cabin by a special push-push dust collection device. Reduce the pollution space of powder, later cleaning is convenient, easy to operate;
- ◆ With spray and online flushing design, no dead corner, more conducive to cleaning, reduce the cleaning workload;
- ◆ Real-time monitoring of the pressure inside the isolator, with alarm function;
- ◆ No leakage of powder when gloves are damaged;
- ◆ Die hole cleaning multi-function;
- ◆ Innovative design of empty capsule in closed space;

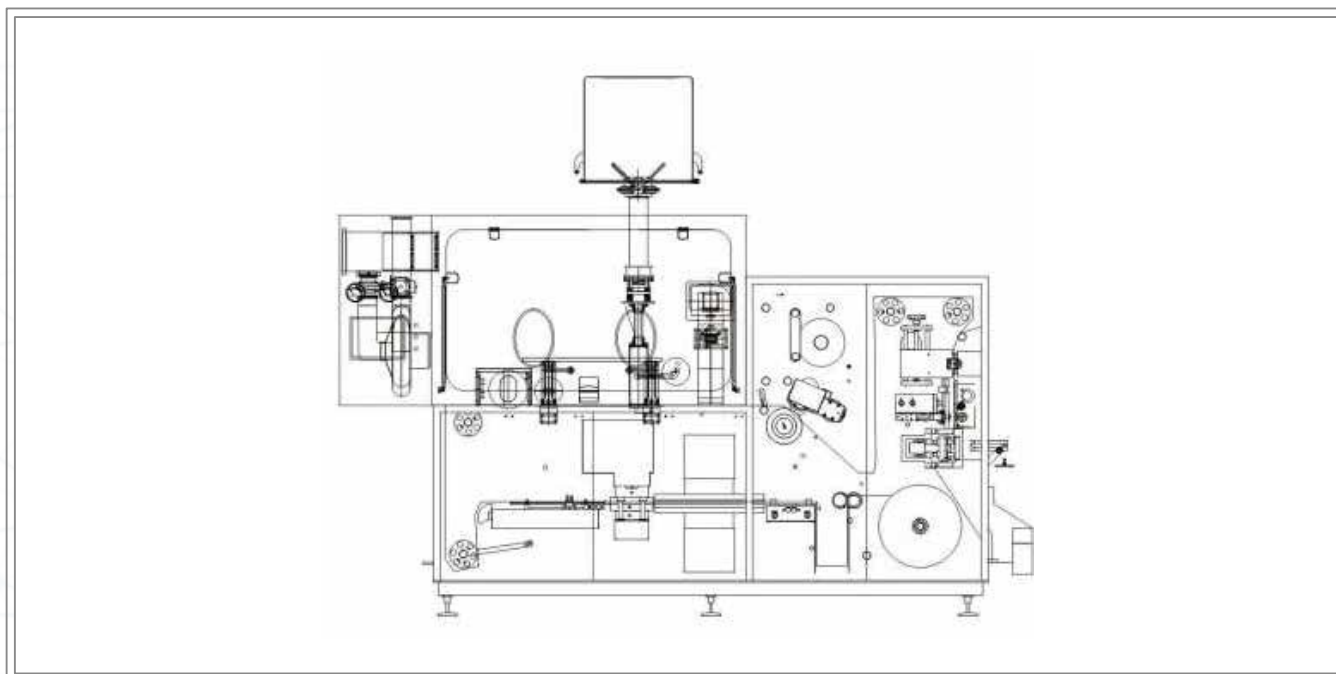
Purpose

- ◆ The tablets, capsules, pills, etc. are packaged in the blister. This packaging form has the advantages of long storage period, light weight, convenient carrying, good sealing, no mixing of medicines, and no waste in taking.

Working Principle

- ◆ After the PVC or duralumin is formed, the medicine is filled into the blister by the feeder, and the aluminum foil and PVC are sealed at the sealing station. After passing through the batch number workstation, the punching mechanism is finally punched into individual blister plates. The high containment blister packing machine isolates the feeding area under negative pressure, which can be used for packaging of highly active drugs.

Technical Parameters



Maximum Production Capacity (board/min)		600 boards (according to the standard block 56 x 78mm)
Maximum Punching Times (times/minute)		150 times/minute
Maximum Forming Area (mm ²)		240 x 270 mm ²
Maximum Forming Depth (mm)		12mm
Maximum Step Distance (mm)		240 mm
Packing Material (mm)	ALU\PVC\PVDC	270 x (0.25 ~0.35)mm
	Aluminum Foil	270 x 0.02mm
Air Consumption (L/min)		450L/min
Water consumption (L/min)		3.2 L/min
Total Power (kW)		22kW
Fan Power (kW)		0.55
Airtight Level		OEB-3/4
Confined Area Negative Pressure (Pa)		-50 ~-80
Dimensions (mm)		3770 x 1030 x 2900mm
Net Weight Of Equipment (kg)		3000kg

Our company can customize the products according to special requirements of users. Subject to change without prior notice.