Auxiliary Information List for Model Selection of Suzhou Halo Pharmatech Co., Ltd.

DECAPSULATOR (CS Collection)

Model	Appearance	Model Selection Reference and Applicable Clients
CS-MINI		1. Small, manual type, with a low efficiency of 500 pcs/min, flexible desk-type, easy to clean, operate and move. 2. For low capsule production and timely disposal of abnormal capsules in daily production, also can be used in the lab. 3. For large, stable capsule production with a small quantity of abnormal capsules and timely disposal of abnormal capsules in daily production to save labor and costs (particularly expensive medicine powder), also avoiding contamination caused by manual disposal.
CS1		1. Small, semi-automatic type, with a low efficiency of 700 pcs/min, flexible on-desk type, easy to be cleaned, operated and moved. 2. For low capsule production and timely disposal of abnormal capsules in daily production, also can be used in the lab. 3. For large, stable capsule production with a small quantity of abnormal capsules and timely disposal of abnormal capsules in daily production to save labor and costs (particularly expensive medicine powder), also avoiding contamination caused by manual disposal.
CS2		1. Manual type, with a high efficiency of 3000 pcs/min at most for 0# capsules, capable of processing any quantity of abnormal capsules, flexible on-desk type, easy to be cleaned, stored and moved. 2. For large capsule production or mass abnormal capsules caused by systematic problems. 3. Also for centrally disposing abnormal batches with high efficiency. 4. Manual sieving is needed; operation shows a little complication in disassembling batches. Meantime because of the compact structure design, control parts cannot be isolated well from mechanical parts, leading to dust accumulation on control parts during operation. A working table is needed for this desk-type.
CS3		1. Middle-sized fully-automatic type, with a moderate efficiency of 1000 pcs/min for 0# capsules, capable of automatic powder sieving; powder and capsule shells come out from different passages. It has vertical structure and easy to be moved. 2. Reasonable structure design; mechanical parts, control parts and drug contact parts are completely isolated from each other, putting dust problems under control. It is easy to clean, convenient for assembling and disassembling. 3. For moderate capsule production with a certain number of abnormal capsules, also for clients with relatively higher requirements on the automatization levels of equipment. 4. Also for centrally disposing small abnormal batches with moderate efficiency. 5. The equipment is controlled by single chip microcomputer, operated by buttons and runs according to the fixed program, which means working parameters are unable to be adjusted. Out of different properties between kinds of capsules and powders, without adjustable range of operation, efficiency and sieving, the effect is possibly not satisfying under this circumstance. However, it works well with most capsules as an updated model of CS-500.

CS3-A		1. Middle-sized fully-automatic type, with a moderate efficiency of 1000 pcs/min for 0# capsules, capable of automatic powder sieving; powder and capsule shells come out from different passages. It has vertical structure and easy to be moved. 2. Reasonable structure design; mechanical parts, control parts and drug contact parts are completely isolated from each other, putting dust problems under control. It is easy to clean, convenient for assembling and disassembling. 3. For moderate capsule production with a certain number of abnormal capsules, also for clients with relatively higher requirements on the automatization levels of equipment. 4. Also for centrally disposing small abnormal batches with moderate efficiency. 5. The equipment is controlled by PLC, operated by touch screen. Its drug contact material is 316 stainless steel as per European standards. Working parameters and pressures are both adjustable, being displayed in real time. Out of different properties between kinds of capsules and powders, with adjustable range of operation, efficiency and sieving, its effect is better than that of CS3.
CS5		1. Fully-automatic type, with a considerable efficiency of 5000 pcs/min for 0# capsules, capable of automatic powder sieving; powder and capsule shells come out from different passages. It has vertical structure and easy to be moved. 2. Reasonable structure design; mechanical parts, control parts and drug contact parts are completely isolated from each other, putting dust problems under control. It is easy to clean, convenient for assembling and disassembling. 3. For large capsule production with high requirements on the automatization levels of equipment. It can be placed alone in a clean room as a disposing center of abnormal capsules for the whole capsule workshop, to facilitate powder retrieving and management, and to improve the whole producing process of capsules. 4. Also for centrally disposing abnormal batches with high efficiency. 5. Controlled by PLC, equipped with a touch-screen, with more stabled operation, human-friendly interface, and adjustable working parameters. It means working parameters of the machine can be set or adjusted flexibly according to specific properties of capsules and powders, so the working effect, efficiency and powder sieving can be maximized to a best result. CS5 is an updated model of CS2, as the most mature and complete model of all.

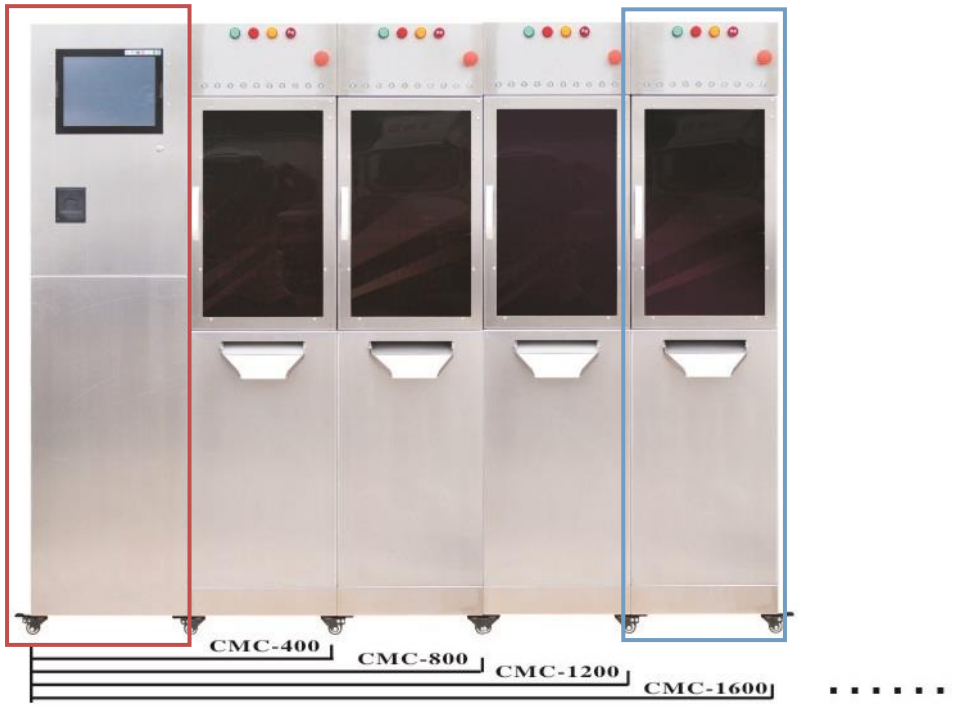
Auxiliary Information List for Model Selection of Suzhou Halo Pharmatech Co., Ltd.

DEBLISTER MACHINE (ETC Collection)

Model	Appearance	Model Selection Reference and Applicable Clients
ETC-60N		**1. Semi-automatic type, blister-by-blister manual feeding, roller structure, adjustable spaces between blades, without replacement of molds, with strong versatility. Its working efficiency is about 60 boards per minute, nicely applicable to any in-line arranged blisters of capsules, soft capsule, big pills etc.** **2. Inapplicable to randomly arranged blisters, or blades may damage pills. Results may be unsatisfactory with very small sized tablets; when the diameter of tablets is less than 5mm and the thickness of tablets is less than 3mm, results of deblistering are uncertain.** **3. ETC-60A is recommended to process irregularly arranged blisters.**
ETC-60A		**1. Semi-automatic type, blister-by-blister manual feeding, die orifice punching structure, four rotatable working positions, with a working efficiency of 60 boards per minute, applicable to any blisters.** **2. Compared with ETC-60, ETC-60A is safer to operate because the feeding position is far away from the punching position. Therefore, it will never hurt the operator's finger even he/she is careless.** **3. Die orifice punching structure requires the establishment of molds for each specific board type (usually one blister type requires one set of mold, which is consisted of 4 bottom modules and 1 upper module. Molds shall be created based on specific arrangement of pills). It is applicable to irregularly arranged boards and small tablets which are unable to be processed by ETC-60N. ETC-60A is an only choice for boards which cannot be processed by ETC-60N while ETC-60N is for big pills and regularly arranged boards.**
ETC-120A		**1. Automatic type, with an automatic feeding module based on ETC-60N, hence it has an efficiency of 120 boards per minute.** **2. To ensure a high running speed, blisters are required with high standards or results will be effected just as qualities of empty capsules effecting filling rates. Therefore, blisters should be flat, neat and regularly arranged. Warped blisters will get stuck during feeding and make the machine running unsmooth.** **3. For central dispose of abnormal batches, flat or less warped blisters are required.**

ETC-120AL		1. **Automatic type, with a movable holder, a barrel and a lengthened feeding structure based on ETC-120A. Pills will fall into the barrel after taking out from blisters. Feeding and discharging is consecutive with a max efficiency of 120 boards per minute.** 2. **To ensure a high running speed, blisters are required with high standards or results will be effected just as qualities of empty capsules effecting filling rates. Therefore, blisters should be flat, neat and regularly arranged. Warped blisters will get stuck during feeding and make the machine running unsmooth.** 3. **For central dispose of abnormal batches, flat or less warped blisters are required.**

Model Description of Automatic Capsule Metage Classifying Machine



CMC-400 for 400 capsules/min, CMC-800 for 800 capsules/min and so on…

Control Unit (marked by red) and **Operation Unit(s) (marked by blue)** compose a single model.

All operation units are same, working simultaneously. If one operation unit malfunctions, others will keep running.

If the production capacity of a user's factory increases, he may only buy more operation units to connect them to the old control unit.