BTC-150 Capsule&Tablet Lifting Belt Conveyor Feeder

The high efficiency CMC capsule/tablet checkweigher has a fast material consumption rate, which requires timely material supply, otherwise it will affect the weighing efficiency of the whole machine, at the same time, due to the miniaturization of single machine, the hopper capacity of single machine is limited. However, if the total hopper is installed above each single machine and full material accumulation and pre-storage mode is adopted, the weighing efficiency of the whole machine will be reduced. Because the full material accumulation and pre-storage mode of the total hopper will make the capsule at the bottom of each single hopper bear the greatest pressure, under pressure, which is not conducive to the fluctuation of the capsule to change its posture and quickly enter the permutation structure, making the capsule into the structure not smoothly, reducing the efficiency of the permutation, and thus affecting the weighing efficiency of the whole machine.

The best feeding method of capsule/tablet checkweigher CMC is: dynamic servo feeding with balanced consumption and feeding.

If the artificial way in each single hopper frequent feeding, the operation is too difficult to achieve. Therefore, an appropriate feeding method is needed to balance and solve problems in all aspects, so as to provide the best feeding solution for ensuring the good operation of capsule/tablet checkweigher CMC.

Introduction

BTC feeding system is specially used for automatic feeding and uniform distributing of capsule/tablet checkweigher CMC , especially for high-efficiency checkweigher under the condition of multiple single machines in parallel.

BTC feeding system adopts PID software algorithm, through the logistics consumption speed and the opening and closing frequency of each channel valve, control stepless frequency conversion speed regulation motor, adjust the feeding speed, automatic balance distribution of each single machine required materials. When the logistics consumption of a single machine increase, automatically increase the supply; When the consumption of a single machine decreases due to abnormal channel detection, the material supply is automatically reduced; When a single machine is shut down, the material supply is stopped. Achieve timely supply, automatic balance, no lack of material, no material accumulation, no overflow, to ensure that capsule/tablet checkweigher CMC is always in the best state of material level under the work.

Therefore, BTC feeding system can well solve the feeding problems for the capsule/tablet checkweigher, and realize the dynamic servo feeding with balanced consumption and feeding, which plays a great role in assisting and guaranteeing the good and stable operation of capsule/tablet checkweigher CMC.

At the same time, BTC feeding system is reasonable in design, easy to move, does not take up space, easy to disassemble and clean.

System Composition

- Large volume pre-storage hopper
- Super long feeding arm (easy to remove and install type food-grade PU conveyor belt system)
- Automatic distribute the material pipeline
- Operation and software control system

Main Parameter

Model	BTC-150
Conveyor Width	150mm
Suitable Materials	All types of capsules, the diameter of tablets >3mm
Conveying Speed	0~0.3m/s, about total 0~7500 caps/min
Hopper capacity	100L
Floor Area	810mm*600mm
Power Supply	220V 50Hz 1.5KW
Air Supply	6~8bar