

NJP 2500C Automatic Capsule Filling Machine



NJP-2500C automatic capsule filling machine is widely used to fill powder, particles and tablet materials into empty capsules. It conducts filling through stopples, batches and frequency control. It is suitable for automatically filling, separating, (eliminating wasted contents) sealing up the powder or particle drugs to finished products. We developed this filling device according to the advantages of similar devices at home and abroad, as well as the practical national conditions. The operation process is completely in conformity with GMP regulations.

Features

1. Opening and locking of capsule can be controlled automatically which is safe and convenient.
2. Equipped with inching control system, which makes it easy and convenient for cleaning, loading and unloading of upper and lower dies.
3. Equipped with gate control security system and mechanical failure security system, which provides functions of automatic alarm and shutdown.
4. Automatic alarm and shutdown will be activated when lacks empty capsule or powder.
5. Rich functions designed on the HMI, including counting and displaying functions during the production, and it is able to link with printer, if needed, for printing information including date of production, lot number, quantity, etc.
6. The capsule separation chamber is driven by seal guide rail, which can prevent defective capsules and dust from entering into the chamber during spreading capsules, ensuring the stability of operation.
7. Shafts of capsule absorbing, pushing, locking, as well as defective capsule rejecting are all sealed with two layers of sealing ring, among which the first sealing adopts Nitrile Butadiene Rubber (NBR) to prevent lubrication from losing, and the second sealing uses imported silicone rubber sealing ring (SIL) to prevent powder from entering bearings, which has effectively solved the problem of bearing damage and shaft jamming because of powder leakage.
8. The two horizontal shafts of high-precision fully enclosed turntable adopts PTFE oil-free bearings, which are sealed with imported silicone rubber sealing ring (SIL) for preventing powder

from entering the inside room of the turntable, ensuring running accuracy of the turntable, without needing to maintain and add lubrication permanently.

9. The plane cams are running in the mode of double rails, where the two axes run out separately. It can improve the operation accuracy and meanwhile eliminate the possibility of collision between the lower die and the dosage disc.

10. The high precision cam splitter uses optical dividing head of German Zeiss. The dividing spindle is machined in the CNC all at once, which has ensured accuracy dividing of the turntable and dosage disc while the machine runs fast, thus ensuring the precision of filling. Higher precision of cam splitter also provides the machine longer service life.

11. The operating cams are all processed with 20CrMoTi carburizing and quenching treatment, and then machined in CNC grinding machine all at once, which has ensured the accuracy and unity of the cams and provided a longer service life.

Technical Specification:

- Model: NJP-2500C
- Filling capacity: 150000pcs per hour
- Dimension : 1100×120×2000mm
- Power supply : 380/220V 50Hz
- Total power : 8KW
- Segment bores : 18 holes
- Vacuum : 63m³/h-0.04-0.08Mpa
- Dust collector : 24.5Kpa 210m³/h
- Air compression : Air consumption 6m³/h Pressure 7-8Kg
- Water source : 500L/h 0.1-0.2Mpa
- Filling percentage : Empty capsule 99.9% filled capsule 99.8%
- Capsule size : 00,0,1,2,3,4,5