

NKPF-120S Automatic Servo Dry Powder Filling Machine



N.K Industries proudly presents its latest technological innovation in powder filling with the Automatic Servo Dry Powder Filling Machine featuring a 100% online weighing system. This advanced machine incorporates two weighing modules installed on the first star wheel in the filling section. The first weighing module measures the empty bottle weight, while the second weighing module measures the gross weight, which includes the filled volume. The human-machine interface displays the net weight, gross weight, and empty weight, providing comprehensive monitoring and control.

What sets this machine apart is its auto rejection system, ensuring that containers with incorrect dosages are promptly rejected. The machine incorporates the highly regarded No Vial - No Fill system, ensuring precise dosing and minimizing wastage.

With this new technology, N.K Industries delivers a cutting-edge solution for powder filling. The online weighing system guarantees accurate and consistent dosing, while the auto rejection feature ensures the highest product quality. Experience the innovation and reliability of the Automatic Servo Dry Powder Filling Machine for efficient and precise powder filling applications.

Salient Features:

- Compact footprint with minimal space requirement, integrating turntables, filling, rubber stoppering/screw capping modules into one unit.
- CGMP design compliant with industry standards.
- Equipped with 2 weighing modules for measuring empty and gross weights.
- 100% online weighing system for accurate dosage control.
- Automatic rejection of vials with incorrect dosages.
- Fully electronically driven operation.
- Highly precise powder dosing system based on vacuum-pressure technology.

- Simple, fast, and repeatable changeover for efficient operations.
- Positive vial transport system with vial separator guiding vials through filling, stoppering, and capping modules to ensure they remain upright during transport.
- Parts in contact with sterile powder and rubber stoppers made of AISI 316L stainless steel for hygiene and durability.
- Multiple dosing options through HMI (Human-Machine Interface).
- "NO VIAL NO FILL" scheme eliminates wastage of costly powder.
- Special delrin conveyor belt to prevent vial sticking on the conveyor.
- CE certified electronics for safety and quality assurance.
- Autonomous pneumatic circuit for vacuum and pressure operations.
- 10-micron vacuum filter and 2-micron air filter for efficient filtration.
- Electrical system housed according to cGMP and cGEP standards with adequate safety measures.
- Digital vacuum and pressure switch for monitoring vacuum and air pressure levels.

Technical Specifications:

Filling Speed	50 Vials/minute based on 5-10ml vial for Single Dosage
	(Depending up on size/types of vial & powder density)
Design	Left to Right
Dosage	100 mg to 1.5 grams. Single Dose (with Change Parts)
	1.5 grams to 6 grams. Double, Triple and Four Doses.
	Fill range depending upon vial opening and bulk density of powder. Under controlled level of Humidity (i.e. 25%)
Dosing wheel	One
Dosing port / Wheel	8 Nos
Fill Accuracy	±2% depending upon consistency and uniformity of bulk density of injectable powder
Product Conveyor	50 mm (2") wide delrin conveyor
Powder Suction	Through Vacuum
Powder Delivered	Through Air/Nitrogen (Customer to Provide)
Stopper Delivered	Through Vibratory Bowl & Chute
Machine Dimension	1830 (mm) X 915 (mm) X 1600 (mm)