

NKPF-120 Automatic Single Wheel Dry Powder Filling Machine



N.K Industries is a leading manufacturer, supplier, and exporter of the Automatic Single Wheel Injectable Dry Powder Filling Machine, Model NKPF-120. This machine is designed for intermittent motion dosing of sterile powders at mechanical speeds of 120 vials per minute.

The machine utilizes a unique vacuum-pressure dosing system to accurately fill glass vials with sterile powders. After dosing, the vials are sealed with rubber stoppers, ensuring product integrity.

With its compact size, cGMP design, and ergonomic features, the Automatic Single Wheel Injectable Dry Powder Filling Machine offers an exceptional solution for powder dosing applications. The machine's standout feature is the "No Vial - No Fill" system, which eliminates the wastage of costly powders by ensuring that filling only takes place when vials are present.

Choose N.K Industries' Automatic Single Wheel Injectable Dry Powder Filling Machine for efficient and precise powder dosing. Experience the benefits of its compact size, cGMP design, and the assurance of a "No Vial - No Fill" system, ensuring optimal performance and cost savings.

Salient Features:

- Compact footprint with minimal space requirement, integrating turntables, filling, and rubber stoppering modules into one unit.
- Long-lasting and trouble-free operation with helical gear-driven transmission.
- CGMP design compliant with industry standards.
- 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 and stoppering 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 of injectable powder and easy changeover of container sizes and fill sizes by changing the vial separator or piston size, respectively.
- "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 specification:

Filling Speed	120 Vials/minute based on 5-10ml vial for Single Dosage
	(Depending up on size/types of vial & powder density)
Design	Left to Right
Dosage	50 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)