

NKCS-150/250/350/450 Multi Head Vial Cap Sealing Machine



N.K Industries is a leading manufacturer, supplier, and exporter of a series of advanced Multi Head Vial Cap Sealing Machines. These machines are specifically designed for the critical task of capping vials in the production of injectable products, ensuring hermetic seals and maintaining the integrity of the drugs inside the containers.

The series of Multi Head Rotary Vial Cap Sealing Machines are available in various configurations, including 4 head, 6 head, 8 head, and 12 head, depending on the desired output requirement. These machines are capable of delivering impressive outputs ranging from 120 vials per minute to 400 vials per minute, depending on the selected configuration.

The Multi Head Rotary Vial Cap Sealing Machines operate on a continuous rotary motion principle and are designed for the application and sealing of conventional flip-off caps and tear-off caps. These machines feature unique features such as the "No Vial - No Capping" system, ensuring that caps are only applied when vials are present, and the Gradual Pressure Sealing (GPS) system, guaranteeing fine-quality and perfect hermetic seals.

These Rotary Vial Cap Sealing Machines are designed to minimize particle generation during the capping process, ensuring the highest level of quality and meeting the stringent requirements of contamination-controlled environments and isolators.

Choose N.K Industries' Multi Head Vial Cap Sealing Machines for reliable, efficient, and high-quality capping of vials in the pharmaceutical industry. Experience our commitment to cutting-edge technology, precision engineering, and customer satisfaction.

Feature of Machines:

- **Compact and Modular Design:** The machines have a compact and modular design, making them space-efficient and adaptable to different production environments.
- **CGMP Model:** The machines follow CGMP (Current Good Manufacturing Practice) standards, ensuring compliance with quality and regulatory requirements.
- **User-Friendly Operation and Minimum Maintenance:** The machines are designed with an effortless design, resulting in user-friendly operation and minimal maintenance requirements.
- **Parts made of AISI 304:** The parts that come in contact with the vials and aluminum caps are made of AISI 304 stainless steel, ensuring hygiene and durability.
- **Quick Size Change-Over and Set-Up Times:** The machines offer minimum size change-over and set-up times, allowing for efficient and seamless transitions between different vial and cap sizes.
- **Specially Developed Cam:** The machines are equipped with a specially developed cam that applies gradual pressure during the sealing process, resulting in wrinkle-free sealing and high-quality hermetic seals.
- **Adjustable Sealing Pressure:** The sealing pressure can be easily adjusted to accommodate different sizes of flip-off caps and tear-off caps, ensuring optimal sealing performance.
- **Safety Clutch Device:** An extraordinary safety clutch device is incorporated into the star wheel system, preventing machine operation in the event of vial overturning or jamming.
- **Lowest Particle Generation:** The machines are designed to minimize particle generation during the capping process, maintaining a clean and sterile production environment. Optionally, specially designed Viton sealing rollers and Pneumatic Sealing heads are available.
- **CE Certified Electronics, Gear Motor, and Gearbox:** All electronics, gear motors, and gearboxes used in the machines are CE certified, ensuring safety and quality.
- **"No Cap - No Vial" System:** The machines feature a "No Cap - No Vial" system, ensuring that caps are only applied when vials are present, reducing waste and ensuring accurate capping.

Technical specification:

Model	NKCS-150	NKCS-250
Machine type	4 head Vial capping machine	6 head Vial capping machine
Direction	Left to Right	Left to Right
Vial Diameter (mm)	Up to 45 mm	Up to 45 mm
Vial Height (mm)	75mm* Maximum	75mm* Maximum
Flip off Seal / Tear of Seal Sizes	Applicable for 13mm, 20mm, 32mm	Applicable for 13mm, 20mm, 32mm
Auto cap-adding ratio	≥99.7%	≥99.7%
Qualified capping ratio	≥99.5%	≥99.5%
Bottle breakage ratio	≤0.5%	≤0.5%
Production rate	Up to 120 Vial per minute	Up to 200 Vial per minute
Electrical supply	1 HP for Main Drive	1 HP for Main Drive
No of Sealing Head	Four head	Six Head
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ	440 V ,3 Phase (4 Wire System) 50 HZ
Height of Conveyor	Adjustable from 800 to 850 mm	Adjustable from 800 to 850 mm
Dimension	1530 x 768 x 1530	1530 x 768 x 1530
(L X W X H) mm		

Model	NKCS-350	NKCS-450
Machine type	8 Head Vial capping machine	12 Head Vial capping machine
Direction	Left to Right	Left to Right
Vial Diameter (mm)	Up to 45 mm	Up to 45 mm
Vial Height (mm)	75mm* Maximum	75mm* Maximum
Flip off Seal / Tear of Seal Sizes	Applicable for 13mm, 20mm, 32mm	Applicable for 13mm, 20mm, 32mm
Auto cap-adding ratio	≥99.7%	≥99.7%
Qualified capping ratio	≥99.5%	≥99.5%
Bottle breakage ratio	≤0.5%	≤0.5%
Production rate	Up to 300 Vial per minute	Up to 400 Vial per minute
Electrical supply	1.5 HP for Main Drive	2 HP for Main Drive
No of Sealing Head	Eight Head	Twelve HEAD
Power requirement	440 V ,3 Phase (4 Wire System) 50 HZ	440 V ,3 Phase (4 Wire System) 50 HZ
Height of Conveyor	Adjustable from 800 to 850 mm	Adjustable from 800 to 850 mm
Dimension	1830 X 768 x 1600	2200 x 1050 x 1900
(L X W X H) mm		