

NKCS-30S Semi Automatic Vial Sealing Machine



N.K. Industries, a globally recognized manufacturer, supplier, and exporter of pharmaceutical machinery, proudly introduces the Semi Automatic Vial Cap Sealing Machine Model NKCS-30S. Engineered with precision and performance in mind, this state-of-the-art vial sealing machine is an ideal solution for small to mid-sized pharmaceutical and biotech companies involved in injectable drug production.

The Model NKCS-30S stands as a testament to N.K. Industries' commitment to innovation, quality, and customer satisfaction. With decades of experience in delivering reliable machinery to pharmaceutical industries worldwide, we bring to market a semi automatic vial cap sealing machine that ensures consistent, high-quality seals on vials used for sterile injectables.

Overview of the Semi Automatic Vial Cap Sealing Machine

The Semi Automatic Vial Cap Sealing Machine is specifically designed to perform the essential task of crimping aluminum flip-off caps or tear-off seals on glass vials. Designed in compliance with CGMP standards, this compact machine combines user-friendly features with rugged industrial performance. The machine enables operators to manually load vials along with pre-placed aluminum caps into the sealing unit. The motorized sealing head, designed for consistent operation, securely crimps the caps to create a tamper-evident seal.

Offering a production speed of 20 to 25 vials per minute, the output is highly dependent on operator efficiency. This makes the model ideal for semi-automated production environments where flexibility and reliability are key.

Key Features of the Semi Automatic Vial Cap Sealing Machine

The Vial Cap Sealing Machine is loaded with features that enhance efficiency, minimize downtime, and ensure high-quality vial sealing. Below are the standout attributes:

✓ **CGMP-Compliant & Compact Design**

The machine is built following Current Good Manufacturing Practices (CGMP), ensuring its suitability for cleanroom environments. Its compact structure allows for easy placement in restricted production spaces without compromising performance.

✓ **Integrated Front Operating Panel**

An ergonomic and intuitive front panel allows operators to easily manage settings, monitor performance, and initiate operations. This user-friendly interface reduces training time and boosts productivity.

✓ **Quick Setup & Motorized Head Movement**

Quick-change mechanisms enable fast adjustments and reduce downtime during product or batch changes. The motorized head movement ensures uniform sealing pressure and enhances the repeatability of operations.

✓ **No Change Parts Required for Different Vial Diameters**

The machine accommodates a range of vial and bottle diameters without the need for change parts. This universal vial handling design reduces costs and simplifies operations.

✓ **Adjustable Sealing Pressure**

The sealing pressure can be precisely adjusted to accommodate different cap gauges and vial sizes. This flexibility ensures secure sealing for various vial configurations and prevents product loss due to improper crimping.

✓ **Worm Gearbox & Motorized Capping Unit**

The heavy-duty worm gearbox and robust motor provide smooth, vibration-free sealing operations. This reliable mechanism contributes to the longevity and consistent performance of the machine.

✓ **Variable Frequency Drive (VFD) from Delta, Taiwan**

Equipped with a top-quality Variable Frequency Drive (VFD) from Delta, Taiwan, the machine allows for fine control of speed and torque. This improves overall efficiency, extends equipment life, and ensures precision sealing across varying load conditions.

Technical Specifications

Model	NKCS-30S
Machine Type	Semi Automatic Vial Cap Sealing Machine
Sealing Speed	20 to 25 vials per minute
Cap Types Supported	Flip-Off Cap, Tear-Off Seal
Sealing Mechanism	Motorized sealing head with adjustable pressure
Construction Standard	CGMP-compliant
Drive System	Variable Frequency Drive (Delta, Taiwan)
Gearbox	Worm Gear Mechanism
Change Parts Requirement	Not required for vial/bottle diameter changes
Application Areas	Pharmaceutical, Biotech, Research Laboratories