



HMPL-CCM Automatic Crown Capping Machine



Crown capping machines securely crimp aluminium caps onto glass bottles with up to 120 bottles per minute output speed. Automatic Crown Cap Sealing Machine models start from single, four, six and eight-head or more per customer requirements. Our Crown Capping Machine suits various industries, including dairy, pharmaceutical, beverage, and chemical, for small and large production batches. The Automatic Crown Cap Sealing System consists of a main structure, product transmission belt, Safety acrylic cover (OPTIONAL), star plate & guide, single nos. of crown cap sealing head, Vibratory Bowl, cap delivery chute, electrical panel, pneumatic components, motor, sensors, AC drive & mains ON/OFF. Filled bottles move along the conveyor belt and enter the in-feed star wheel via the in-feed worm. As they pass through the star wheel, they pick up caps from the delivery chute separately. Descending rotary sealing heads apply the desired pressure to the bottlenecks. A rotating scramble positions the caps accurately, sealing them in a programmed roll-in fashion. When the chute fills with caps, the rotating unscramble drive disengages to prevent cap damage. After that, The rotating sealing head activates the sealing roller, with a sealing cam facilitating the movement of the sealing and threading rollers. Finally, a star wheel discharges the sealed bottles onto the conveyor.

Features

- The machine is manufactured or developed per GMP standards.
- The structure is made of MS clad with SS 304.
- Rigid vibration-free construction for trouble-free performance.
- SS Elegantly matt-finished body.
- SS slat Conveyor Belt.
- The conveyor will convey the product with an easily adjustable side guide.
- The conveyor is equipped with an AC variable drive for variable speed.

- MS powder coated or electro-less nickel plating of all exposed parts to ensure long life and resistance against corrosion.
- No bottle no cap arrangement.
- Synchronize AC drive to synchronize conveyor, star wheel, platform turret & vibratory bowl.
- Adjustable height of the conveyor belt to align with other machines of the line.
- Sealing pressure can be varied to suit different gauges and sizes of caps.
- There is a specially designed vibratory bowl and chute with no cap sensors for the continuous flow of the cap.
- No cap in the chute vibrator & Machine stops.
- No bottles Machine Stop.
- Clutch Overload – Machine Stop.
- Low noise level, low power consumption.
- Fix the set pin for the star plate.
- The chute will have rigid mounting & cap pickup arrangement from aluminum casting.
- Mechanical stopper to stop incoming bottles.
- Self-lubricating UHMW- PE guide profile for low friction wears surface, smooth and noiseless conveying.
- Star wheel, in-feed screw & Guide MOC: UHMW–Black (Food Grade Material).
- Adjustable bottle height gauge for easy and quick setting.

Technical Data

Model	HMPL-CCM-1
Bottle Size	10 ml to 1000 ml
Bottle Neck Size	Specify by Customer
Bottle MOC	Glass Bottles
Crown Cap Size	Specify by Customer
Cap Feeding System	Vibratory Bowl with Chute Suitable Cap
Capping Head Type	Crown Cap
Output Speed	30 to 40 Bottles/Minute (Depending on cap and product size)
Direction of Movement	Left to Right
No. of Sealing Head	1 No.
Power Supply	1 HP / Three Phase / 440 V AC / 50 Hz
Main Motor & Gear Box	Automotive Make
Main Motor	AC Drive Delta Make
Air Consumption	6 to 8 Kg/Cm ²
Height of Conveyor	850 ± 50 mm Adjustable
Net Weight	Approx. 350 Kg
Change Parts Required	(A) Bottle: Star Wheel, Back guide.
	(B) Cap: Vibratory bowl, Delivery chute & Die.