

Conquest Filling and Stoppering Monoblock

Using state-of-the-art touch screen computer control technology, the Conquest is a fully mechanical continuous motion machine designed specifically to fill and apply stoppers or caps to sterile vials at speeds up to 300* vials per minute.

Featuring a feed screw delivery system with special sensor that detects fallen vials and stops the machine prior to the vial entering the feed screw, operators can be ensured that with the synchronized entrance and

transport starwheel, vials are accurately filled six at a time using a mechanically indexed bottom-up nozzle system that swivels with the moving vials. Fill accuracies of $\pm 0.5\%$ are achieved with six volumetric pistons controlled by Capmatic's "Compufill" control system.

The Conquest includes a high speed vibratory bowl** sorter that feeds oriented plugs or caps to a s.s. starwheel for transfer and positive placement on the vials by the "pick & place" capping system.



Touch Screen Controls

To simplify operator training and setup, the Conquest comes equipped as standard with a touch screen control system, providing ease of control and monitoring for the following functions:

- Speed of the conveyor.
- Speed of the feeder bowl.
- Speed of the machine.
- Fill volume.
- Height of the bowl feeder and plugging turret.
- Computes the number of bottles per minute.
- Computes the number of rejects.
- Computes the number of good and rejected vials per batch and indicates why vials were rejected.

Optional Equipment

- Interlocked doors.
- Reject station.
- Laminar flow system.
- Electronic torque readout for capping station.
- Nitrogen purge nozzles.
- Automatic sample container removal station for quality control.
- Multicolored beacon light to indicate machine status from a distance.
- Infeed from a tray / outfeed tray.
- Euroguard enclosures.

Standard Features

- **Raised Working Surface with Wrapped Edges** - to protect internal components, motors & pneumatics in case of spills.
- **Fallen Container Detection System** - automatically stops the machine in the event a vial has fallen prior to entering the feed screw.
- **Large Mushroom Emergency Button** - to allow operator to rapidly shut down the machine in the event of a problem.
- **PC Interface Port** - to allow inline monitoring and the collection and printing of production data.
- **Stainless Steel Enclosed Sensors** - to protect sensors and wiring during cleaning.

Specifications

| | minimum | maximum |
|---------------------|--------------------------------------------|---------------|
| ■ Bottle Diameter: | 10 mm 0.4" | 50 mm 2" |
| ■ Bottle Height: | 25 mm 1" | 90 mm 3.5" |
| ■ Filling Capacity: | 0.3 ml 0.01 oz | 60 ml 2 oz |
| ■ Size (HxWxL): | 2000 x 1300 x 1400 mm (78" x 51" x 55") | |
| ■ Weight: | 810 kg (1,800 lbs) | |
| ■ Speed: | 50 - 300 BPM* | |
| ■ Filling Accuracy: | ±0.5 ml* | |
| ■ Power Supply: | 220 V AC, 3 phase, 60hz | |



◀ Conquest showing typical filling and plugging operation.

* Subject to testing of actual samples.

** Other cap and plug sorting systems are available.

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