

Spray Pumps: Cap Placement

Sort/Feed/Assemble

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Project Brief

Sort, feed, place and screw-on spray pumps. This machine utilizes Farason Model SDP-48 Pocketed Disc Sorter and a Hoppmann Model EP-8 Prefeeder.

Spray pumps with overcaps are sorted and fed out onto a conveyor, where they enter a timing screw for pitch synchronization with the bottles. A 2-axis pick and place removes the spray pumps from the timing screw and transfers them over to the bottles.

Filled bottles are positioned by means of a timing screw. Both timing screws rotate intermittently to index a predetermined quantity of spray pumps and bottles into position under the pick and place, simultaneously.

With spray pumps positioned over the bottle, a secondary device captures the dip tubes and guides them while the spray pump is lowered down onto the bottle.

Farason purchased and integrated an inline cap tightener for pre-starting and achieving the required torque.

Machine Data

- Sort and feed spray pumps
- Inline/intermittent motion
- Dip tube & overcap verification
- Dip tube straightening device
- 2-axis pick & place
- Multi-head detachable end effector
- Speed range: up to 20 cycles/min

Standard Features

- Stainless steel construction
- Anodized aluminum components
- Complete interlocked guard package
- Fast tool-less change-over
- PLC-controlled sequence logic
- Operator interface terminal
- Color-coded light column
- Maximum speed is dependent upon quantity of parts handled per cycle

Other Uses

- Capping, overcapping, plugging, part inserting & assembly

More Information

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