



Scoop Inserters ISD



Colby

“Quality Colby Technology. Fully automated and completely reliable, Colby scoop inserters are designed specifically for the food industry.”

The Right Design for your System

Colby scoop inserters are designed specifically for the food industry. They are a fully automated - and extremely reliable - way to place measuring scoops into metal cans, composite cans, glass jars and form-fill-&-seal packages.

All units meet international sanitary standards. And they all comply with international safety and electrical regulations.

Colby scoop inserters are manufactured from a combination of stainless steel and food-grade materials for all product-contact surfaces.

Colby scoop inserters can operate either as stand-alone units or can be integrated into existing line layouts. They are easily cleaned. Product change-over is quick and simple. Minimum change parts and set-up adjustments are required.

How do Colby Scoop Inserters Work?

Bulk quantities of scoops are placed (either manually or automatically) into a vibratory unscrambling bowl. Bowl geometry and a variable frequency drive work together to ensure that scoops are aligned properly. More bowls may be added to the inserter to achieve higher throughput.

In high-speed operations a scroll places containers precisely beneath the dispensing head. No timing scroll is necessary for medium to low-speed throughputs.

The supply of scoops to the hopper and the track is controlled by photoelectric cells. The cells are also used at the dispensing head to check that the scoop has been dispensed.

Optional photo-optic sensors identify any cans with scoops missing. These are rejected automatically onto a reject conveyor.

Benefits

- Fully Automated: Full automation of scoop inserting function maximises efficiency and minimises labour costs.
- Flexibility: Colby scoop inserters handle all common scoop types and sizes with a minimum of change-over effort.
- Accuracy: Controlled by a series of electric sensors and PLCs, error rates are typically less than 0.002 per cent.
- High Throughput: Impressive throughputs of up to 500 scoops per minute compliment even the highest speed lines.
- Quality Components: These are manufactured by Colby or supplied by internationally recognised manufacturers.
- Sanitary Operation: Minimal direct operator contact with scoop. Optional bulk feeder eliminates operator handling.

Types of Scoop Handled	Most common scoop types and sizes.
Throughput	Up to 500 scoops per minute.
Error Rate	≤ 0.002%
Bowl Diameter	From 750mm (30") to 1200mm (48").
Bowl Capacity	30-150spm, depending on type and size of scoop.
Length of Trackwork	Designed to client requirements.
Options	Automatic feeding from bulk hopper. Integrated vision systems to detect missing scoops. Automatic can rejection systems.



Process Engineering

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