Flip top caps closing system

Overview
Plastic closures incorporating a flip top cap are in high demand in pharmaceutical, processing and packaging industries. The need for quality and cost are driving plastics injection moulding companies to search for improved cap closing solutions.

The RNA automated cap closing system have been designed for flip top caps that are open after going through the injection moulding process, and the caps must be closed prior to being used by manufacturers or packaging companies.

The RNA cap closing system provides a complete solution simple, quick changeover between caps of different sizes, applicable for cap manufacturers, packaging companies, and food & drink manufacturers.

RNA product range
- Automation Solutions
- Robotics Systems
- Vision Inspection Systems
  - Vision Inspection & Quality Control
  - Vision System Integration
  - Tablet Inspection
- Feeding and Handling Solutions
  - Bowl & Linear Feeders
  - Centrifugal Feeders
  - Step Feeders
  - Carpet Feeder
  - Sachet & Pouch Handling
  - Palletizing Systems

RNA automated cap closing system

- In-Line or rotary cap closing system available
- The output speeds vary depending on the requirement and properties of cap
- Pharmaceutical-grade options available (in 304 or 316 grade stainless steel)
- Rapid changeover
- Optional provision of counting, vision inspection further post closing
RNA designed and developed an in-line cap closing system complete with vibratory bowl feeder and PLC control.

The bowl feeder feeds and orientates components all one way via a conveyor to the closing system. The end of the conveyor is fitted with a counter and stop cylinder.

The closing system operates in 2 stages: pre-close and final close. It is envisaged that the mechanism closes 10 caps at a time – more efficient and reliable than a conventional system does. Closed caps are discharged from the end of the conveyor for collection by the customer’s equipment. The closing system checks for undlosed caps, and these are discharged via a reject chute.

Changeover between components is accommodated via interchangeable tooling to fixed positions within the bowl, and with quick release fasteners on the conveyor and cap closer.

**Benefits**

- Simple, quick changeover between components of different sizes
- A standard machine to suit most of the flip top caps
- High speed, high efficiency, high consistency and satisfactory closing effect
- No damage to the components
- Stainless grade 304

All of these benefits deliver a short pay back period and impressive return on investment.

reliable, accurate high speed solutions from a single source supplier