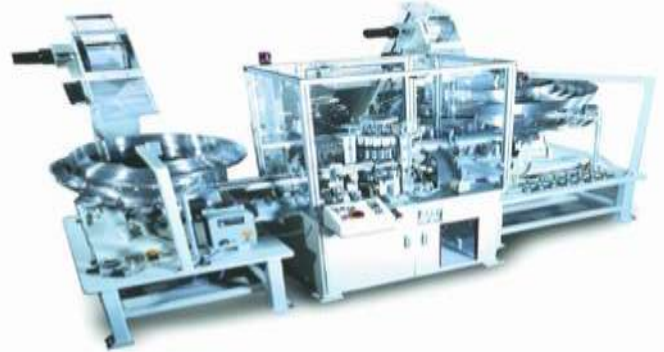


High Speed Continuous Motion Machines

Detroit Tool and Engineering designs and builds continuous motion machines for a variety of applications. The most common applications are the closing of plastic molded caps and the assembly of two piece caps.

Continuous motion design is also applied to other applications such as: Pharmaceutical Product assembly at 250 parts per minute; Confectionary Product packaging at 200 PPM; and others.



System Overview

The Model 938 Cap Closing Machine is a rotary, continuous motion machine which closes hinged plastic caps from the open position. This design achieves cycle speeds up to 400 parts per minute, depending on cap size and shape.

The Model 937 Two-Piece Cap Assembly Machine is a mechanically synchronized rotary machine to assemble two piece caps. Cycle speeds of up to 450 parts per minute can be achieved depending on cap size and shape.

System Values & Benefits

- Low Maintenance Cam controlled design
- Mechanical Overload protection for safety
- Reliable detection and removal of missing lids or not fully closed lids
- Resettable product counter with diverter gate for box packaging options

System Highlights

- Speeds up to 450 parts per minute
- Cam controlled continuous motion using from 6 to 24 spindles depending on product configuration
- Mechanical Overload protection safeguards the machine
- Detection and subsequent rejection of missing or not fully closed lids
- Variable speed D.C. motor to adjust speed to match associated process machines
- Automatic machine stop after a predetermined number of rejects is reached