

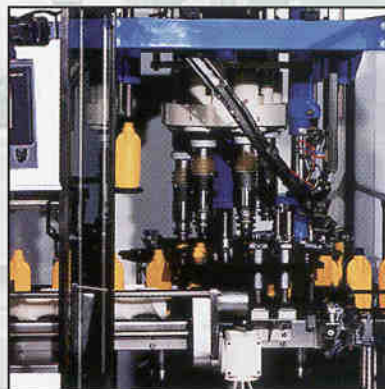
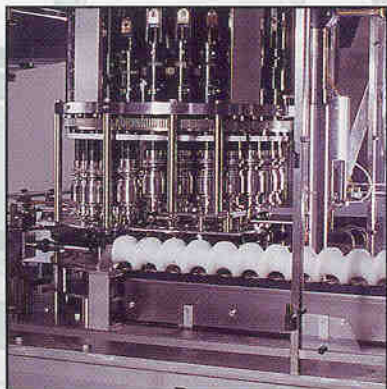
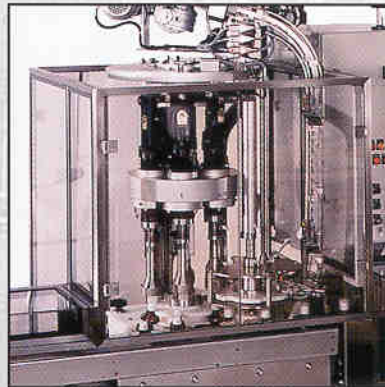
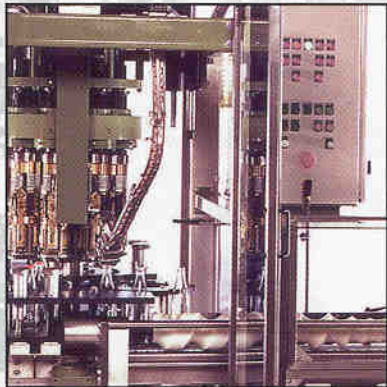
*Automatic  
Capping  
Machines*



# FOWLER

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**Z**

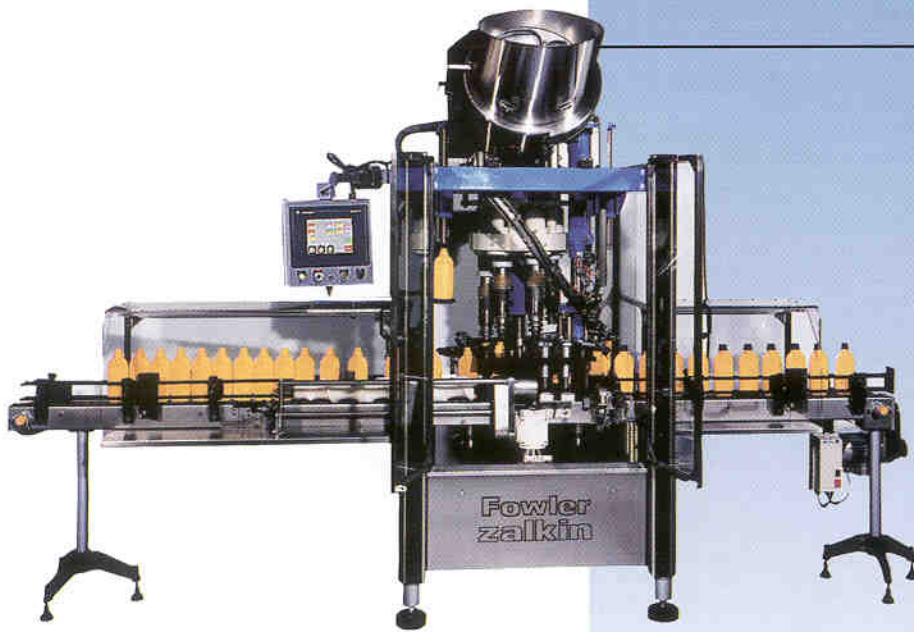
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**FOWLER PRODUCTS CO.**

*“Providing Solutions for the Packaging  
Requirements of Industry”*

TANGENTIAL  
Fowler  
zalkin



## MODEL CAS CAPPERS

for the application of pre-threaded closures. Oriented closures are fed into a cap transfer starwheel that positions them for pick-up by the magnetic clutch capping heads. Heads holding closures apply caps to the desired torque, which is infinitely adjustable within the range of the clutch.

- Quick-change bottle handling equipment (color coded)
- Motorized height adjustment
- Height setting gauge
- No bottle/No cap control
- Operator guarding with interlocks
- Stainless steel base panels and tabletop
- Mechanical or electrical synchronization available

All types of . . .

- Plastic caps
- Metal caps
- Sports caps
- Jigger style
- Child resistant caps

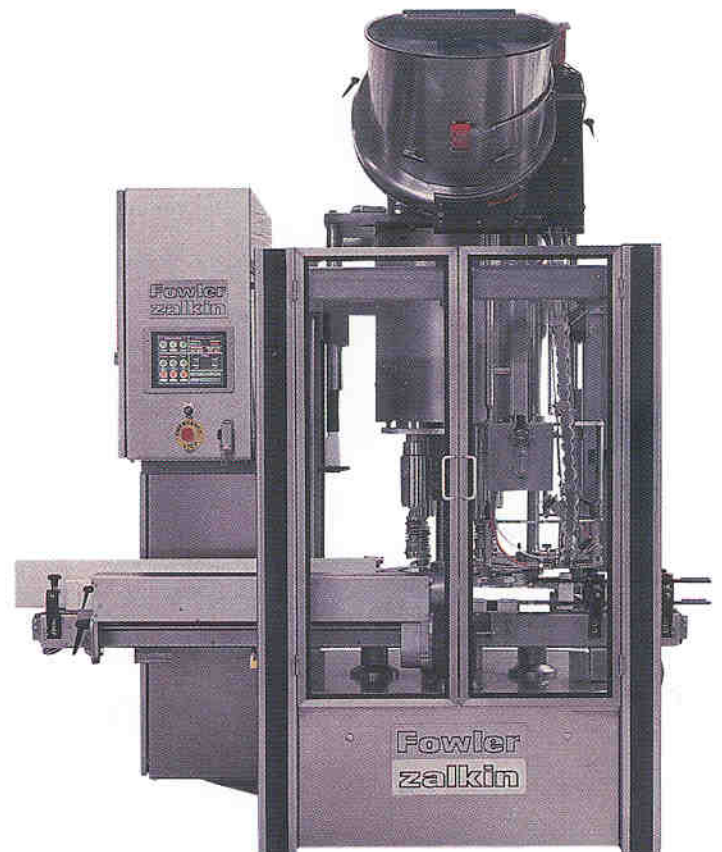


## MODEL CAS-E CAPPERS

### Electronic Torque Control & Monitoring

for the application of pre-threaded and/or oriented push-down closures. Brushless D.C. motors are employed in place of the gear driven spindles and magnetic clutches. Application torque is measured and reported for each bottle.

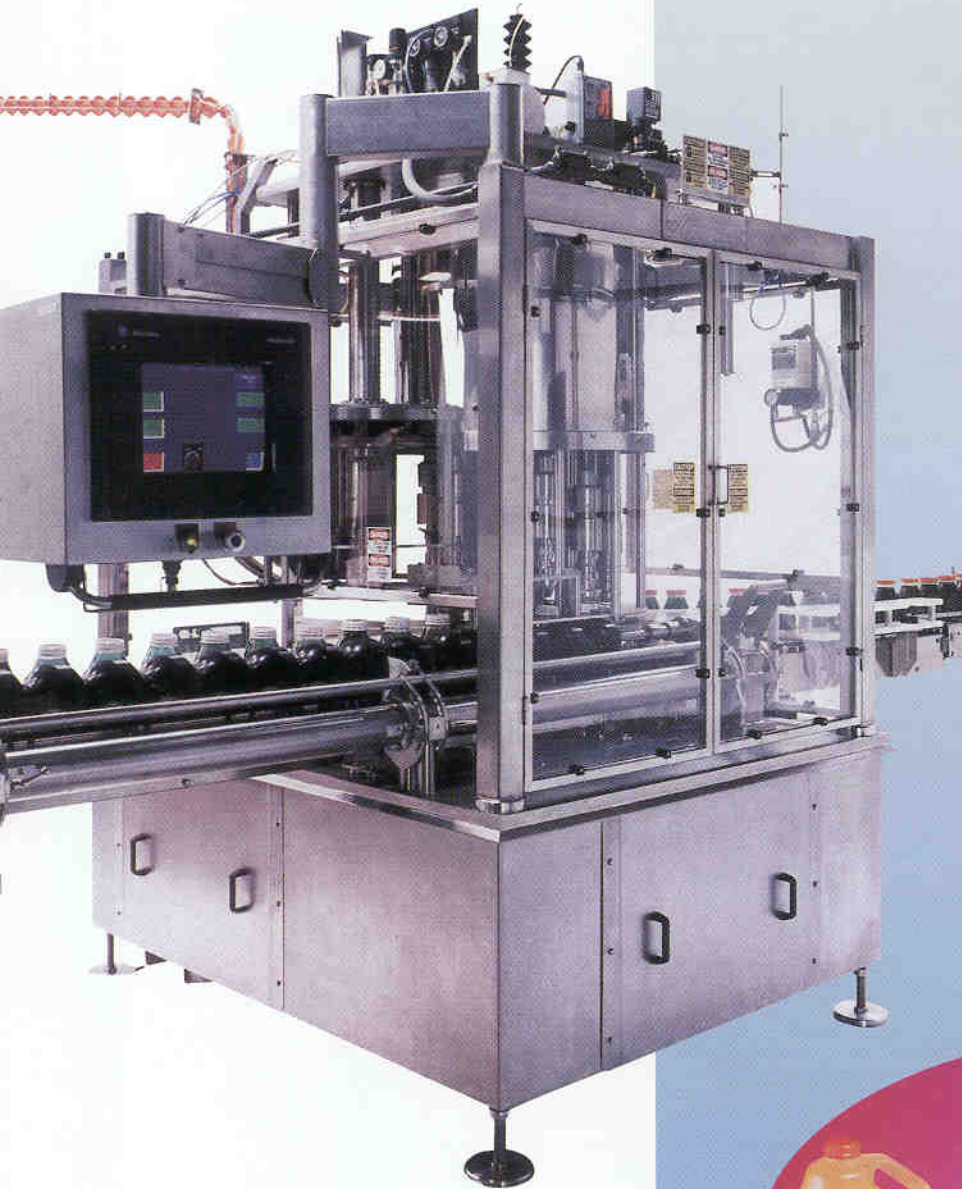
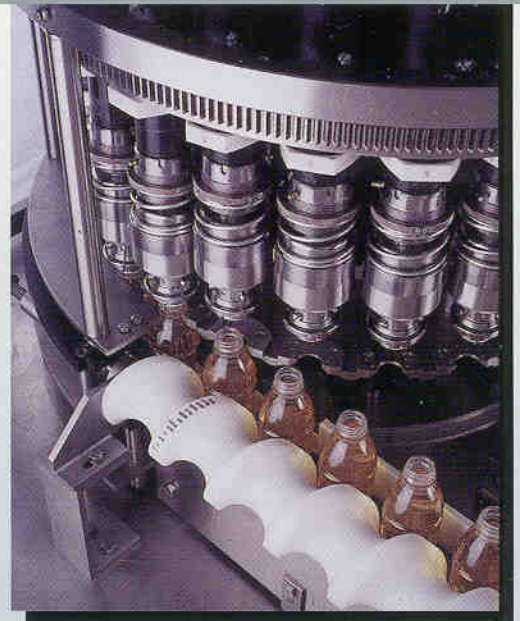
- On-line torque monitoring
- Detection and rejection of faulty bottles
- Reporting of application statistics
- Lubrication free head slides
- Independent head torque adjustment is standard
- Global machine torque adjustment for cap changes from recipe control
- Orientation of closures prior to application



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## MODEL CAS-T TANGENTIAL® INFEED CAPPERS

*for the application of pre-threaded and push-down closures. Tangential infeed allows containers (plastic and glass) with high fill heights/large openings to be capped without spillage. Cap application begins at the tangent point of entry to the turret before the bottle changes direction.*



- Continuous thread
- Double-start
- Press-on
- Maxi-crown
- Cap chute steaming
- Head space steaming
- Variable capping head speed
- Corrosion resistant construction, base & turret
- Mechanical or electronic synchronization with filler

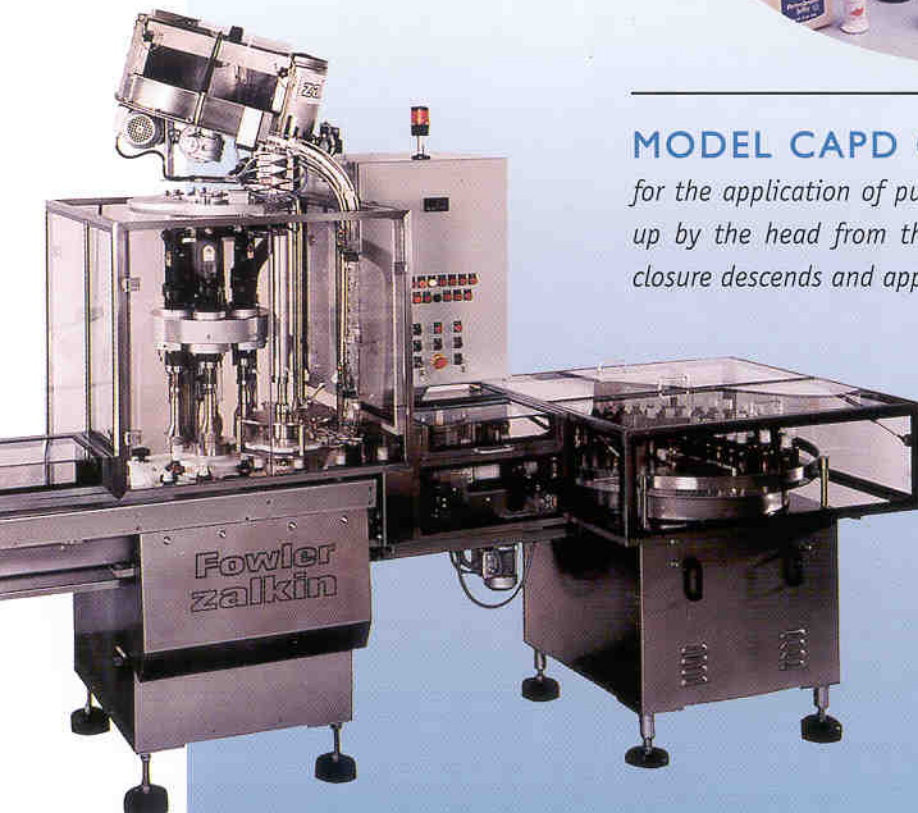
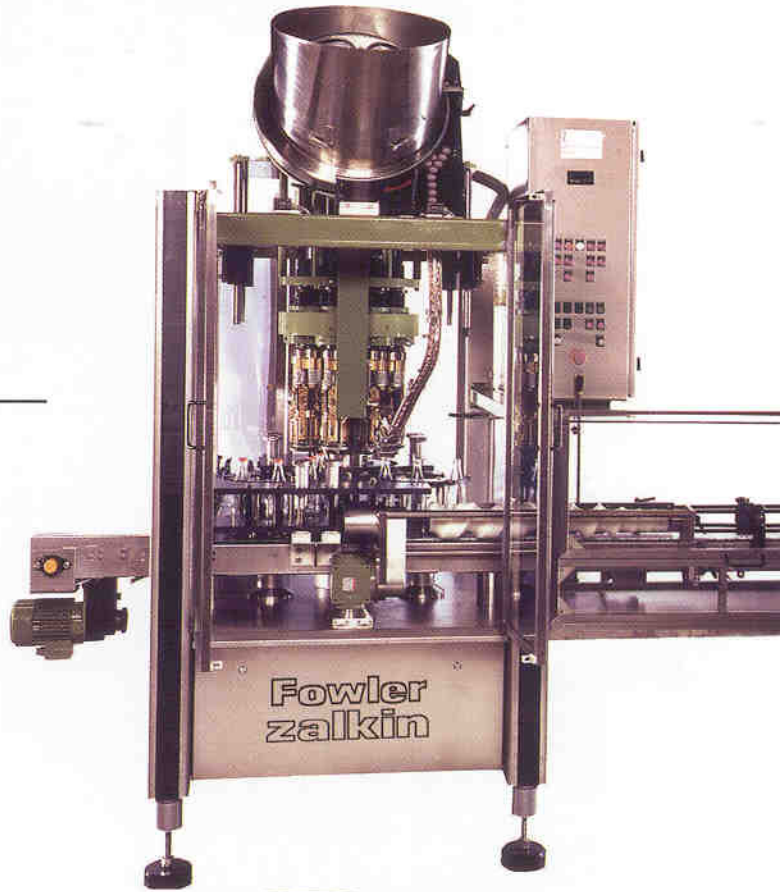




## MODEL CA CAPPERS

for the application of roll-on aluminum closures. Closures are picked up directly by the bottle. Four-roller heads descend and form the threads and tuck the pilfer band. Three roller heads are available for non-pilferproof or crimped type closures.

- Roll-on
- Roll-on pilfer proof
- Top-seal roll-on pilfer proof
- Stelcaps
- Serological caps
- Rip caps
- Guala caps
- Supalux



## MODEL CAPD CAPPERS

for the application of push-down closures. Closures are picked up by the head from the cap transfer starwheel. Head with closure descends and applies cap, with desired top load.

- Fitments
- Plugs
- Shakers
- Sifters
- Pourers
- Lids
- Overcaps
- EZO ends
- Rubber stoppers
- Bar top corks
- Oriented flip-top
- Roller-balls

## BZ-2 MAGNETIC CLUTCH CAPPING HEADS

*for threaded closures*

Screw capping heads are equipped with positive gripping chucks to grip and control closures. Application torque is controlled by a non-mechanical, frictionless, hysteresis magnetic clutch. Adjusting the magnets within the head yields an infinite adjustment of the clutch torque setting within the range. Heads also incorporate an adjustable top load device. These screw capping heads are constructed of 300 and 400 series stainless steel. Other special materials are available upon request.



## SEALING HEADS

*for roll-on aluminum closures,  
pharmaceutical closures and rip-caps*

These heads, available in different diameters, are fitted with thread rollers and/or tuck-under rollers for closure application. Heads incorporate a "no cap/no roll" mechanism which positively prevents contact between rollers and bottle finish if cap is missing.



## PDF-PUSH HEADS

*for press on/in closures*

PDF heads are attached to the non-rotating spindles of CAPD Cappers. Push down heads are equipped with an adjustable top load mechanism and are typically furnished with one of three different chucks: friction, gripping or vacuum.



## *Fowler and Zalkin . . . Leaders in the Capping Industry.*

*Also available  
from Fowler and  
Zalkin:*

Single head semi-automatic  
and fully-automatic cappers.

Capping turrets.

Decapping machines.

Rotary cap orienters.

Waterfall cap orienters.

Bulk cap feeders -Pneumatic,  
Cleated belt and Magnetic  
belt.

### OTHER FOWLER/ZALKIN FEATURES:

- Six different freestanding base sizes having turret pitch circle diameters of 262 mm, 320mm, 360 mm, 480 mm, 640 mm and 720 mm.
- Turret sizes ranging from 3 to 36 capping heads with pitch circle diameters exactly matching filler pitches.
- Cap sorters mounted to turret top plate to maintain constant relationship of cap handling components throughout machine height changes.
- Height adjustment system is motorized and equipped with bottle height setting gauge.
- Cabinet style operator guarding with electrically interlocked doors.
- Machines available with both left-to-right and right-to-left orientation.
- Corrosion resistant construction available with extensive use of stainless steel with remaining parts being nitrate treated - no painted components.
- Twin turret machines for dual closure application such as a plug followed by an overcap.
- Dual purpose machines fitted with alternate heads on every-other-station for two different closure types. Changeover time is reduced to a minimum.
- Single turret machines may be equipped with two cap sorters, each dedicated to one type closure to reduce changeover time.



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[www.fowlerproducts.com](http://www.fowlerproducts.com)

*Automatic  
Cap Feeders*



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## Model BDC Cap Feeders

### Cleated Belt Cap Feeder

*Automatically supply closures from a floor level bulk storage bin to the sorter on the Capping Machine. A cleated belt travels through the bin picking up caps on each cleat and elevates them to the sorter bowl.*



- 304 Stainless Steel construction
- Storage bin capacities available in 12, 24, or 45 cubic feet
- Belt speed controlled through a variable speed DC drive
- Controls to provide automatic or manual operation
- Clean-out door provided to facilitate cap changeovers



## Waterfall Cap Sorters

*Automatically orients closures at speeds ranging from 200-1200 closures per minute, depending on cap size.*

- Belt speed is adjustable through DC variable speed drive
- Control-panel of NEMA 4X Stainless Steel
- Plastic belting with machined cleats attached at fixed pitches to orient caps based upon their center of gravity



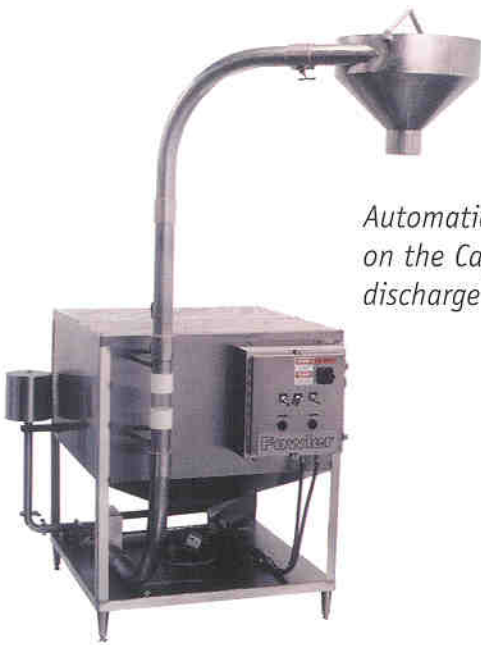
- Available with dual belt to run two separate closures with no changeover
- The angle of the upright belt section is adjustable via handwheel located on a differential screw assembly. By adjusting the incline of the belt, the proper tip angle can be selected to obtain the orientation of a variety of closure sizes.

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## Model PNSC Cap Conveyors

### Pneumatic Conveyor

*Automatically supply closures from a floor level bulk storage bin to the sorter on the Capping Machine. A vibratory tray transports closures from the center discharge of the bin to the airstream of the Pneumatic conveying tubing.*



- Can convey closures vertically up to 13 feet and horizontally up to 100 feet.
- Speeds up to 1,000 caps per minute

- Integral clean-out system to facilitate product change-overs
- 304 Stainless Steel construction
- Storage bin capacities available in 8, 24, or 45 cubic feet
- Air filter system to eliminate dust in the airstream



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## Model BVC Cap Feeders

*Elevate closures from a floor level bulk storage bin to the sorter on the Capping Machine. Closures are conveyed from a center discharge of the storage bin to the cleated belt by a vibratory tray feeder. The BVC feeder provides extremely gentle handling of fragile, heavy, or preassembled closures.*



### Vibratory Cleated Belt Cap Feeder

- 304 Stainless Steel construction
- Bin size of 24 and 45 cubic feet

- Belt speed controlled through a variable speed DC drive
- Vibratory tray speed controlled through a rheostat
- Integral clean-out system to facilitate rapid changeovers

## Model BHC Cap Feeders

### Horizontal Cleated Belt Cap Feeder

*Automatically supply closures from a mezzanine level storage bin to the sorter on the Capping Machine*



- Controls to provide automatic or manual operation
- Belt speed controlled through a DC drive
- Storage bin capacities of 24 and 45 cubic feet
- Cap conveyor lengths to suit line layout requirements
- 304 Stainless Steel construction
- Storage bin intended for placement on the mezzanine



## Model HCC Conveyor

### Horizontal Cap Conveyor

*To transport non-oriented closures.*



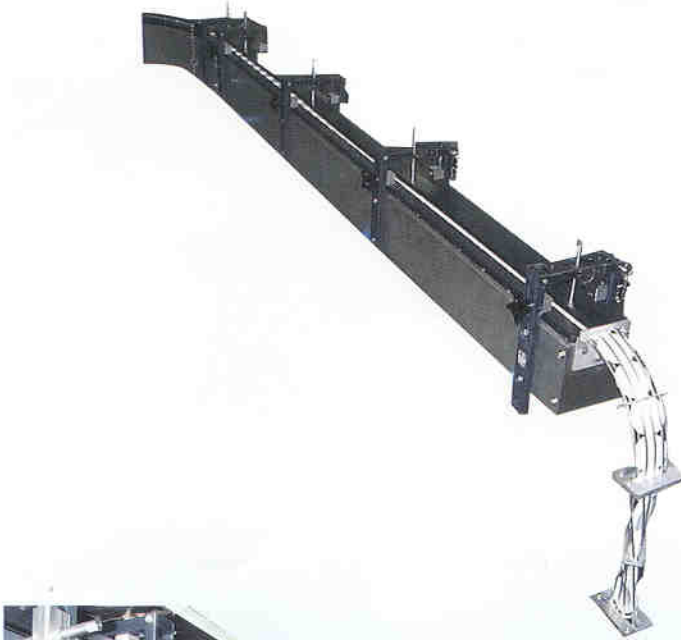
- Conveyor drive is a DC gearmotor with variable speed control.
- Conveyor can be furnished with diverting gates to discharge closures at more than one location
- Conveyor construction is 304 Stainless Steel with polycarbonate covers for the top; and stainless steel covers for the bottom
- Conveyor body is furnished with mounting ears that allow it to be supported from the ceiling

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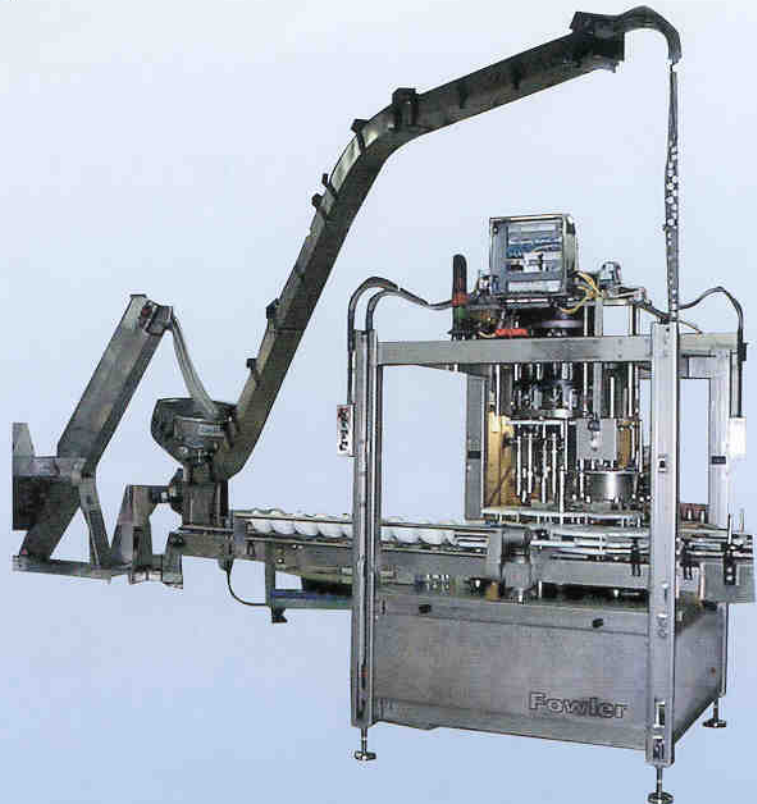
## Air Conveyor Systems

### *Transport Oriented Closures*

- Conveyor construction is 304 Stainless Steel with optional polycarbonate covers
- Intended to be mounted from ceiling (with customer supplied hangers)
- Equipped with self-contained blower
- Multi-lanes available upon request
- Vertical and Horizontal curves



*Keep your cap orienter at floor level and operator accessible by using air conveyor to elevate and transport oriented closures to the capper.*



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