



DELTA SERVO ROTARY CAPPING MACHINE



The **Dico**® Delta multi spindle servo capping machine is the latest evolution of the **Dico**® rotary capping machine range.

It utilises programmable servo-driven axis, replacing the conventional cam driven movement of a typical rotary capping machine.

Software configuration of the **Dico**® servo capping head allows rotary cap tightening, push-on cap and straw inserter applications.

With the extended stroke (ES) version of the machine, combined with the option of the **Dico**® straw inserter module, this configuration allows dip tube insertion, tightening of trigger and displacement pump together with trigger and spout orientation.

- tow cost
- **♦** VERSATILE
- 💠 SIMPLE TO OPERATE
- 💠 HIGH OUTPUT
- 💠 SMALL FOOTPRINT
- 💠 SIMPLIFIED PRODUCT CHANGE OVER
- 💠 QUALITY MONITORING SYSTEM
- 💠 REMOTE SUPPORT

SPECIFICATIONS

PCD Size	250mm – 2000 mm
Machine size	Dependant of variant

Voltage 415v AC

5.5 Bar / 80 PSI Air supply

Standard or Extended Stroke Stroke

Capping heads 2-30

Capping technology Servo

Output Up to 900 containers per minute

Electronic cam Yes

Straw inserter Yes

Cap feed **Automatic**

Container change parts Yes

Cap change parts Yes

Cap supply system Options available

Elevator Options available Camera overcheck Optional

Track & Trace system Optional

Container marking system Optional

Straw inserter Optional

HMI size 15 inch

Remote diagnostics Yes Siemens

Control system

Materials Stainless steel clad frame.

> Parts in contact with the container or cap - manufactured from stainless steel or suitable plastic

Machine guards EC Machinery Directive compliant

Yes

Number of containers handled. Tracking

Running speed and time

Remote diagnostics

User manual Yes













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TECHNOLOGY

- Twin Servo capping heads each capping head has two servo motors inbuilt
- Electronic cam control vertical motion is configurable to optimise the capping cycle
- Brushless servo tightening the motion of the capping chucks configurable via software
- Level control sensor provided in the cavity sorter to demand caps from hopper / elevator
- High level cap chute sensor stops sorter and turns off air selector when cap chute is full

- Low level cap chute sensor stops the machine in event of starvation of caps from sorter
- Infeed conveyor 'Q' sensor
 automatically starts the machine with
 a supply of sufficient containers
- Outfeed conveyor 'Q back' sensor automatically stops the machine in the event of build back from down line equipment
- Software configurable capping operation.



CONTAINER CHANGE PARTS

Each container type requires a set of quick release change-parts including:

- Centre turret assembly
- Centre guide assembly
- Back guide assembly
- Feed scroll
- Star wheels



DICO® SORTING SYSTEMS

Multiple options available for sorting rotary caps, push-on caps, Displacement pumps and triggers prior to being fed into the capping machine.



CAP CHANGE PARTS

Each cap type requires a set of quick release cap change-parts to handle caps from the cap sorting system to the capping chuck, these include:

- Capping chucks
- Cap chute assembly
- Cap sorting disc
- Cap plate assembly

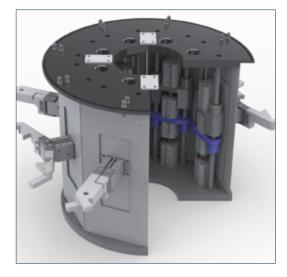


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OPTION STRAW INSERTER MODULE



The Dico® straw inserter module comprises a series of swinging jaws which align the straws with the container centre. Moving vertically it places the straw guide over the container neck.

These actions correspond with the movements of the servo capping heads to insert the straw into the container. Once inserted the jaws open allowing the pump / trigger cap to be presented and tightened onto the container.

The module includes two meters of air conveyor that can be used to manually load the pump / trigger assemblies to the capping heads and connect directly to the optional Dico® Pump and Straw Sorting System.

- Fits all long stroke capping machines
- Straw insertion for pump dispensers
- Standard control system integration
- Straw insertion for trigger caps



Compliant with European product safety directives.

STANDARD SERVICE **REMOTE DIAGNOSTICS**

All Precision Automation equipment is designed using the very latest hardware. The PC interface and ethernet communication protocol means that we can remotely connect through the customer's VPN or 4G device. Our service desk can monitor the condition of the control system and, if required, take control of the machine. This important advanced feature further improves machine uptime and most cases prevents the requirement for on-site intervention.

DICO® HAVE A RANGE OF OPTIONS TO SUIT YOUR LINE INCLUDING UNSCRAMBLING AND ORIENTATION SYSTEMS



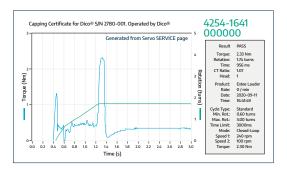
OPTION

VISION INSPECTION SYSTEM

The **Dico**® Vision system checks for cap presence, correct orientation of the pump nozzle and that the thread is tightened.

A reject conveyor can be added to the machine system with a diverting gate assembly linked to the **Dico**® Vision system. The conveyor diverts containers that have failed the Vision inspection process into a controlled reject area.

2-30 CAPPING HEADS WITH SPEEDS OF UP TO **900** CONTAINERS **PER MINUTE**



OPTION

TRACK & TRACE

Dico® Track & Trace system stores cap tightening data in graphical form against either a unique serial number read from a label or applied to the container / cap. If a unique serial number is not required a time and date stamp can be used.

Store data on your factory network





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