

Case	Delta Industrial Automation Products for Blow Molding Machine				
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Applicable to	DVP Series, DOP-B Series, ASDA-A2 Series				
Key words	Beverage bottles, blow molding				

Delta industrial automation provides a total solution which consists of motion controller, human machine interface, AC servo system for blow molding machine to complete blow molded beverage cans with fast precision.

## [Introduction]

The use of blow molding machines for PET bottles and containers can be molded into desired final shapes, and widely applied in many bottle-making processes including carbonated beverages, water, oil, pesticides, cosmetics, small-bore bottles and hot filling beverages.

## [Applications]

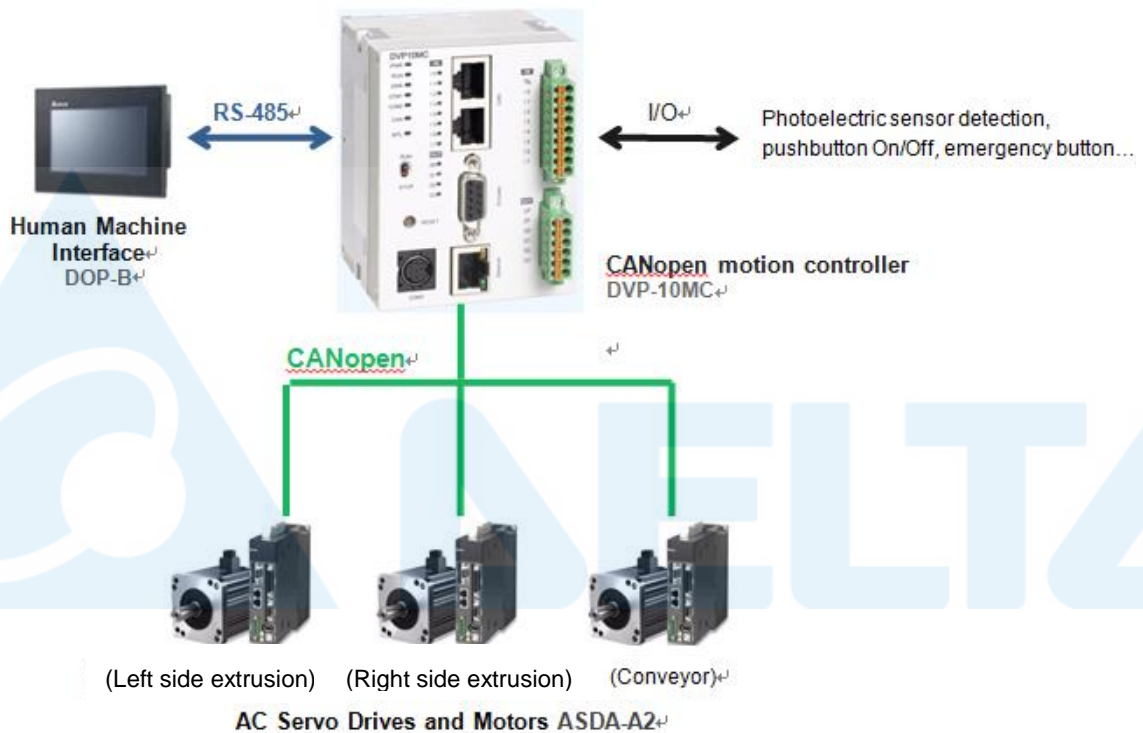
The molding process of beverage packaging uses air pressure to inflate PET into different mold cavity for beverage bottles. Delta provides motion-type programmable logic controller (PLC) to control servo motors to perform E-Cam function for precise positioning demand and high speed motion control.



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## [Brief Intro of Blow Molding Machine]

Blow molding machine consists of 4 unit stations in making plastic bottles/ containers- the preform granule feeding unit, heating unit, conveying unit and extrusion blow molding unit. The “preform granule feeding unit” uses mold clamping cylinders to pick and place preforms onto the conveyor; preforms are then heated in the “heating unit” to soften and move to the following unit stations via “conveying unit”; the main process is the “extrusion blow molding unit” which turns molten plastics into desired shapes via extrusion and pressurization for completing the manufacturing process of beverage bottles.



## [Delta Industrial Automation Solution Features and Benefits]

1. Simple wiring configuration via CANopen communication structure for high speed, stable and precise positioning control.
2. Adopts Delta’s CANopen motion controller DVP10MC Series with built-in E-cam function blocks for customized blow molding bottle design.
3. Combines Delta’s PLC and human machine interface for easy graphical parameter settings to control the blow molding process.

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