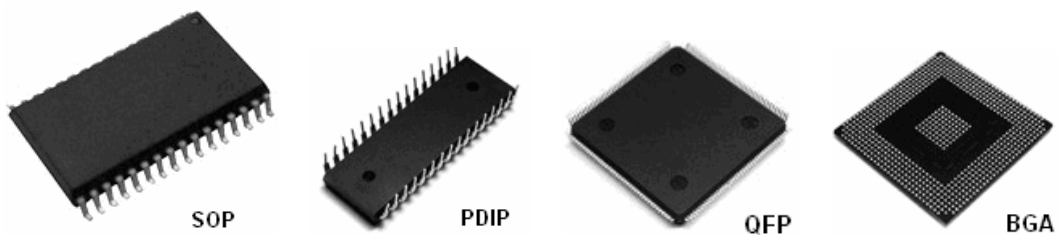


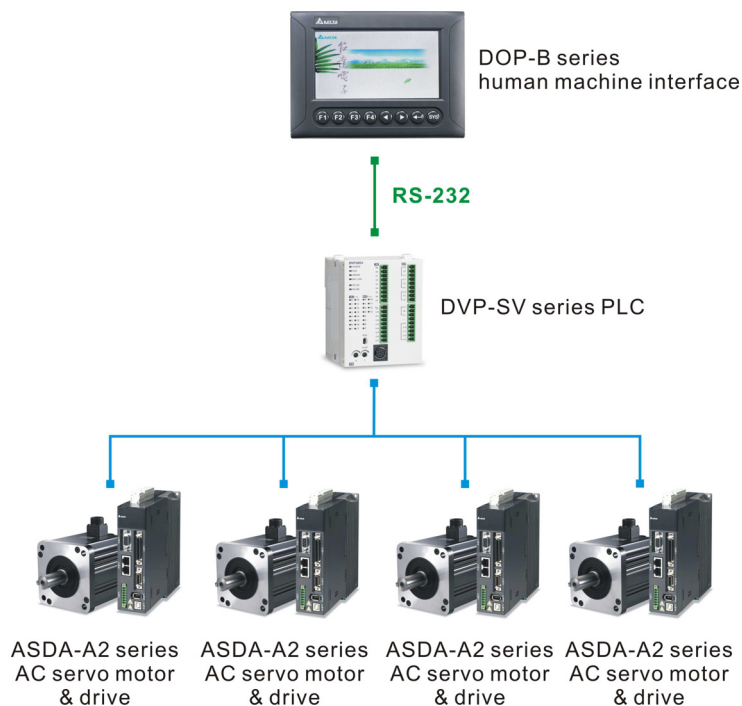
Case	Application of Delta's Industrial Automation Products in IC Inspection Machine				
Issued by	Solution Center	Date	July, 2009	Pages	2
Applicable to	Delta DVP-SV series PLC, ASDA-A2 series AC servo motor and drive, DOP-B series human machine interface				

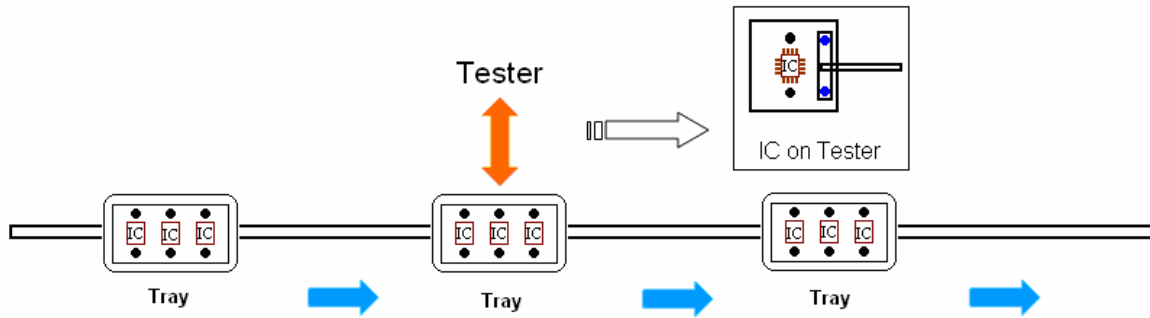
There are various types of IC inspection machines in the market, and they are mainly constructed by PLC, single chip or industrial computer.

IC packaging is divided into 4 types, SOP, PDIP, QFP and BGA, among which due to the shape reason, SOP, PDIP and QFP normally adopt the inspection machine constructed by PLC or single chip.



This application case takes the IC inspection machine constructed by PLC for example. See the explanations below for how it works:





When the IC tray is moved to the positioned point by servo controlled by PLC, the tray will stop, and the tray located at the center of the tester is controlled by the PLC which also controls the Z axis of the servo to move downwards for the IC suction. The Z axis later stretches upwards and controlled by another servo to turn 180 degree to reach the inspection area. The PLC controls also the Y axis servo to push forwards the IC into the tester. While the test is completed, Y axis withdraws and turns the IC 180 degree back to the tray.

In this application case, we adopt Delta's DVP-SV series PLC to drive the 4-axis ASDA-A2 series servo motor, and DOP-B series human machine interface as the display. Due to there are plenty different IC sizes and types, the strong recipe function in Delta's human machine interface allows the user to call the corresponding recipe group when converting the test type, which makes the set-up handy and more user friendly.

More information on Delta's industrial automation products, visit our website at <http://www.delta.com.tw/industrialautomation>