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Think & Do Featured Applications

Packaging with Vision Inspection

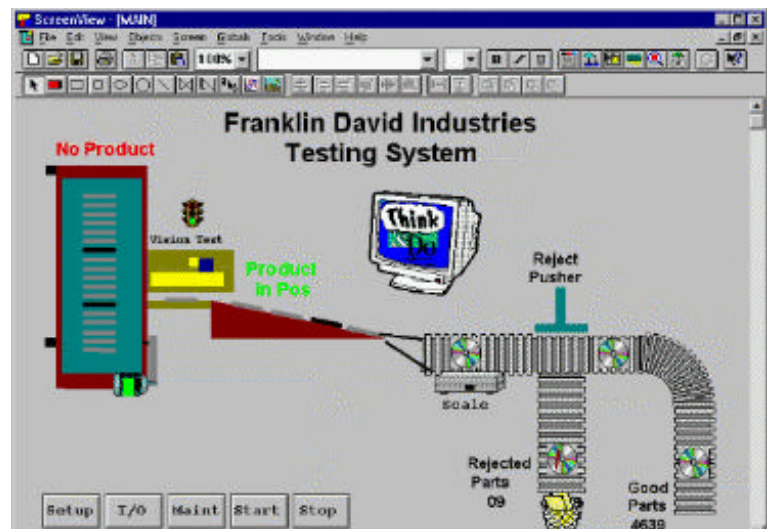
The solution for this application was developed by DMC (Dynamic Motion Control), a leading industrial automation system integration company. To lower costs and speed development, DMC wanted to integrate as many components of the control system as possible. Their requirements included control logic, HMI, I/O interface, motion control, serial communication and database connectivity. An initial look at PLC solutions led to the conclusion that they would be cost prohibitive and the programming would be cumbersome. Once DMC turned their attention to PC-based control, they found **Think & Do** included all the control components they needed and the software was very cost-effective. Equally important, they found **Think & Do** would allow them to provide a complete solution for less than the customer's target cost! They also realized **Think & Do Software's** intuitive flowchart logic would make the programming very straight forward.

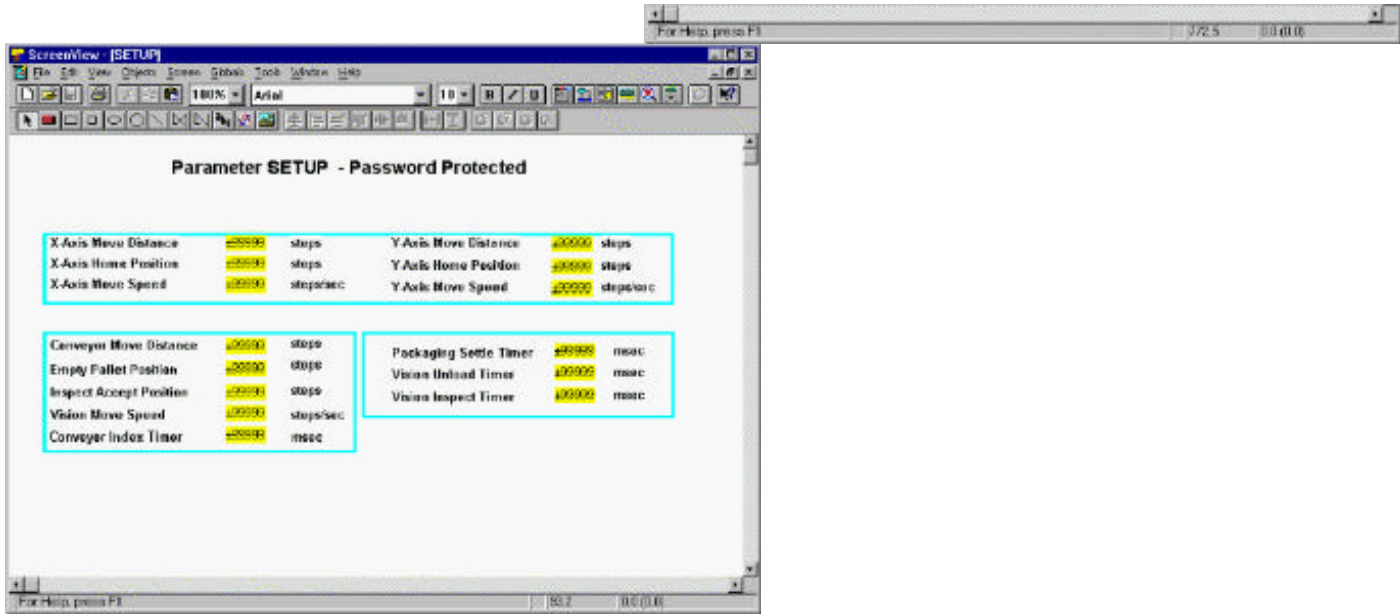
In this application **Think & Do Software** is used to control multiple operations in a carton filling packaging system. The system picks parts off a conveyor system and moves them into position for vision inspection. The vision system accepts or rejects parts based on pre-established criteria and instructs the controller to pass good parts to the packaging station and divert bad parts to a reject bin. The packaging station places parts into a segmented carton, positioning new cartons as they are filled. All of these actions take place simultaneously to achieve a one second cycle rate.

Think & Do includes the tools to configure the I/O, develop control logic, create operator screens, interface to the I/O, and vision subsystems. It also includes built-in support for the Douloi motion card which DMC used in the PC to provide multi-axis motion control. The final system included 150 I/O points which were implemented using **Automationdirect.com** 205 Ethernet I/O racks. The system was designed, implemented and debugged under budget and on a very aggressive schedule.

DMC President, Frank Riordan, said, "**Think & Do Software** has truly been an easy to learn product for us. We were able to take people with no specialized control language experience and have them productive in real applications almost immediately." He added, "We also found **Think & Do Software** accelerated system development so much that we were actually able to take the time to add some innovative features to the system. And, as an integrator, that gives us a real edge over our competition."

Two of the operator screens from the applications follow:





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