

# Dynapace Increased Efficiency of their Motion Control System by Incorporating SolaHD™ Power Supplies by Emerson

## RESULTS

- Dynapace set themselves apart from their competition by employing SolaHD power supplies that drive a PLC-based motion control system, a departure from the typically far more expensive, complex servo control based system
- New machines, driven by Dynapace, are stand-alone and completely scalable to a wide variety of kiosk applications



## APPLICATION

Customizable kiosk dispenser

## CHALLENGE

Dynapace (<http://www.dynapace.com>) in Arlington Heights, IL has been building industrial robotic and factory automation equipment since 1976. One of their many products is a customizable kiosk dispenser. A current application involves a custom kiosk that dispenses DVDs. This particular kiosk can be found in supermarkets, convenience stores or fast food restaurants.

In a traditional kiosk dispenser design, a servo and stepper are used to position the machine. For example, when you make your DVD selection, the servo motor is powered to go and find it. With servos, the machine needs to “go home” and reset before it can locate your selection. This extra movement increases wear on the motor. Given the extra complexity of a servo based system, reliability is negatively affected.

## SOLUTION

Dynapace replaced the servo control system with SolaHD SDP DIN Rail power supplies and a simple DC gear motor. Dynapace designed an absolute encoder that precisely positions the machine when a selection is made. This revolutionary design resulted in a 75% reduction in price. The SolaHD SDP Series was selected for their superior specifications, reliable operation and great value. Using reliable DC power supplies from SolaHD and Dynapace’s unique control design, the dispensing machine doesn’t have to reset each time a selection is made resulting in a much more reliable machine.

*SolaHD SDP Series  
Power Supplies  
by Emerson Drive  
PLC-based Motion  
Control Systems*



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