



SERVO AND AC DRIVE SOLUTION THAT DIDN'T COST A PACKET

Multi-Pak is renowned for designing, engineering, developing and supporting its own packaging machines. These particular machines are typically used for cosmetic samples. Having developed robust and reliable foil pouch filling machines using mechanical web tensioning and liquid filling processes, the electronically controlled alternative solution from Lenze had to show significant benefits.

The Lenze solution using PositionServo 940 drives as master and slave to provide web tension, 940 drives with Lenze servo gearboxes and MCS motors for pump control, and SMV inverters running the main unwinding reel. The 940s are controlling the rollers that "draw" the material into the area where the bottom is heat sealed, then the liquid is pumped into it and the material indexes down to the next area where the sides and top are heat sealed.

The SMV is controlling the main shaft, which also is the timing for the sealing dies. Both had used mechanical cams and/or stepper motors to achieve the moves before and changing products or moves was very time consuming for each set up. Multi-Pak saw a significant increase in machine speed and a significant reduction in set up time because they run many different products.

Multi-Pak liked the flexibility of adjusting the move distance easily for different products. Multi-Pak used a Maple touchscreen with serial comms to the servo to adjust for different lengths of packages and used a simple operator station with selector switches to adjust the index degrees.

Features

- Replacement of mechanical control
- Improved speed and accuracy
- Integrated servo and inverter solution
- HMI used as a controller



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