



## PLC advantages



Older technology did not feature the advantages of electronics and hydraulic components.

### No guessing

How does this machine differ from its predecessors? “As technology in electronics and hydraulic controls improved over the years, these innovations have been incorporated into PMSA’s automatic machines. With the use of linear and rotary encoders, the exact position of the machine components is measured as they move during a machine cycle. A PLC now knows exactly where a part is, so it can determine where the component should be at an exact point in time,” says Ebeling.

If the component is further than it should be, the PLC sends a signal to the high resolution proportional solenoid valve to send less oil to slow the component down. If it is not as far as it should be, the PLC instructs the valve to deliver more oil. This operation continues uninterruptedly per second, resulting in an extremely fast but smooth and controlled operation. The PLC also controls the peak temperature range.