

SPEEDMATIC® OFFERS MAXIMUM FEEDER PERFORMANCE



CWP announced the development of the SpeedMatic® control system that can be added to the ServoMax® material feeder. The roll feeder motion is electronically geared to the motion of the press or shear for maximum flexibility and performance. The SpeedMatic controller utilizes a signal from a press or shear mounted resolver to determine the acceleration and speed of the servofeeder. A resolver is a position sensing device that is used to read the position of the press or shear. All feeder and roll release motions are positionally defined and electronically linked to the press or shear position. Speed of the servofeeder is automatically adjusted as the press speed is adjusted. The result is a very smooth velocity profile at any press speed.

This technology has been utilized in part transfer applications. Because the feeder can be electronically geared to the press and die transfer system, material can be fed into or out of the transfer system based on press rotation.

Eight feed controlled outputs are standard. Three of the outputs are programmable Limit switch outputs that can be used to synchronize system accessories to the press cycle. Feed in auto, feed length complete, job running, batch complete, and feeder error outputs are also provided. Additional outputs can be added as an option.

The system program can save up to 500 jobs or part setups. The microprocessor controller continuously monitors the motor, drive circuits and feed progress providing extensive fault monitoring. If a fault condition is detected, the control exits automatic mode and displays a fault message. The control system can be adapted to most existing servo driven roll feeders.