SIMOTION SimoPress Servo from Siemens provides the answer to metalforming applications facing increasingly smaller lot sizes, product variation and a demand for increased efficiency. The servomotor-driven mechanical press combines the productivity of a conventional press with the flexibility of a hydraulic press. To achieve this highly-productive hybrid, the components of the drive train are carefully tailored to the mechanics and kinematics of the respective press design. The final product can both improve press output and quality, while decreasing mechanical parts to reduce downtime and maintenance.

SIMOTION SimoPress Servo covers every significant property for your servo press. Your application is already 80% complete.

Increased productivity
- Create product quickly and even more efficiently than conventional drive concepts
- Greater efficiency through an energy-optimized motion profile for the press ram
- Optimization of the entire machine means faster design and improved output

High flexibility
- Quick and easy setup for new production parts
- Pre-configured function modules help save time and cost, while allowing you to setup your system with ease

Energy management methods
- Both capacitive and kinetic management systems are available — reducing the total connected power load of the servo press and eliminating costly peak power fluctuations.

SIMOTION SimoPress Servo provides significant improvement to productivity through the flexible motion profile, which allows cycles to be individually programmed. Modes include Servo Profile, Pendulum Mode, Multi-Point and No Profile.

Further, SIMOTION SimoPress Servo applications utilize parameters of the press, forming process and drive train to calculate ram kinematics. These values are optimized to provide a traversing profile with smooth, flowing transitions to protect tools and prevent excessive power or torque peaks. The result of these innovative systems is a press tool that is easily customized to each individual product variation, providing the user with a tailored solution to every application.
Possible topology of a servo press with two main motors and electrical energy storage

SINAMICS S120 drive system
SIMOTION motion control
SCOUT engineering system

SIMOTION D455-2
SINAMICS S120

SIMOTICS 1FW-series torque motors

PROFINET
DC-Bus

SIMATIC HMI
DRIVE-CLiQ

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